GIESSE

GENERAL TECHNICAL CATALOGUE



04.2019

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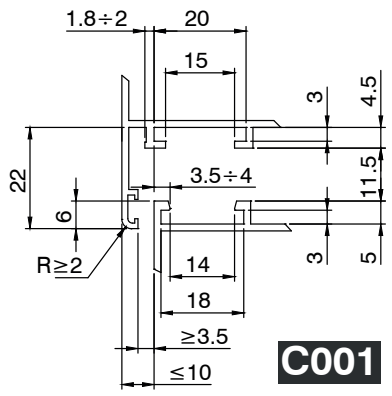
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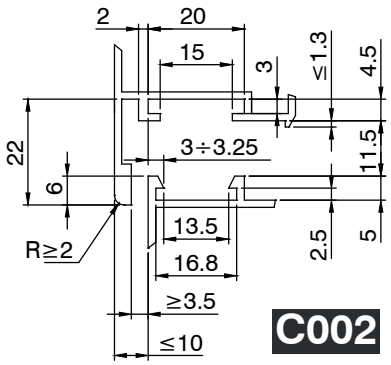
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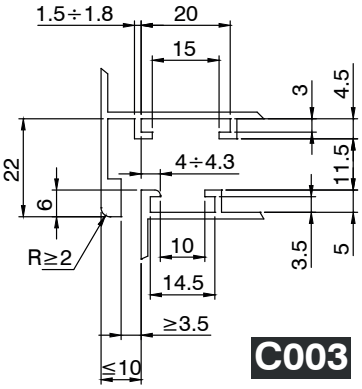
SIDE-HUNG TYPE PROFILE CROSS-SECTIONS C



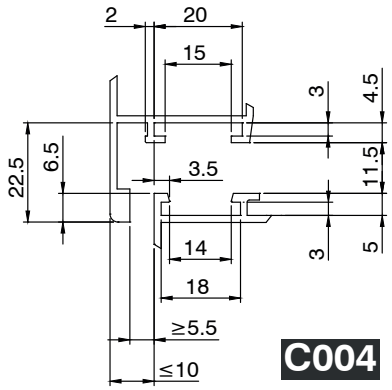
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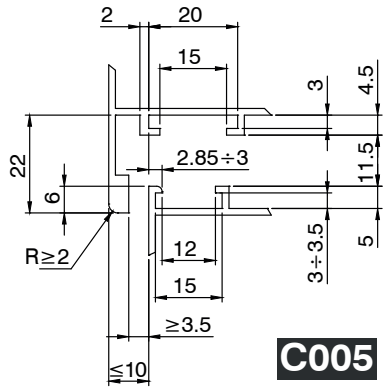
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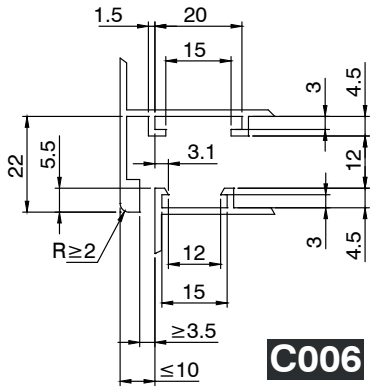
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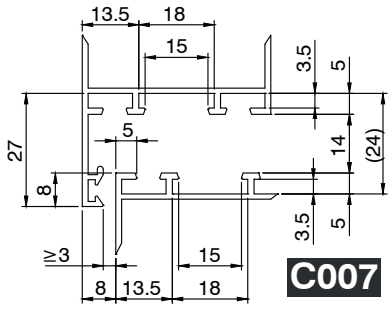
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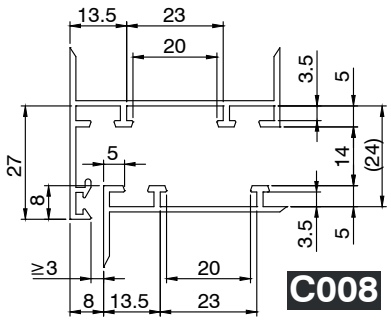
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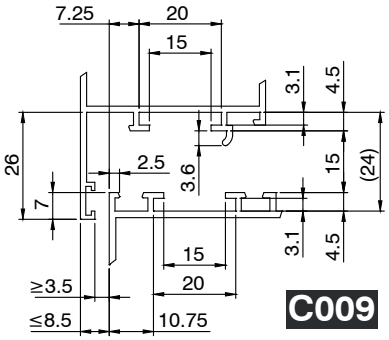
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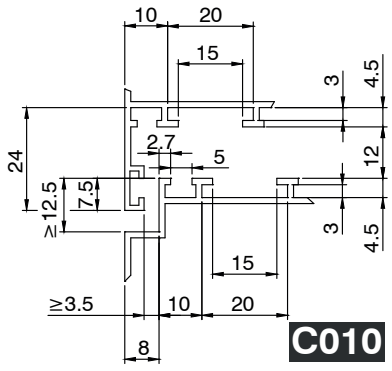
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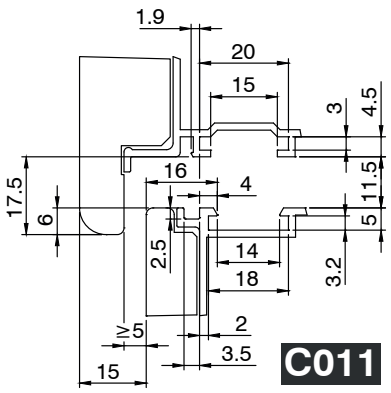
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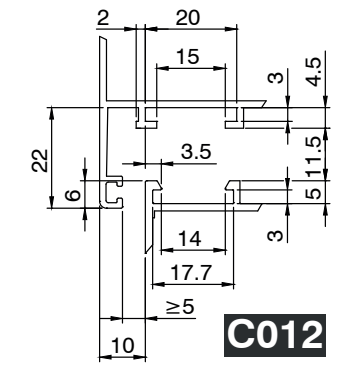
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C010



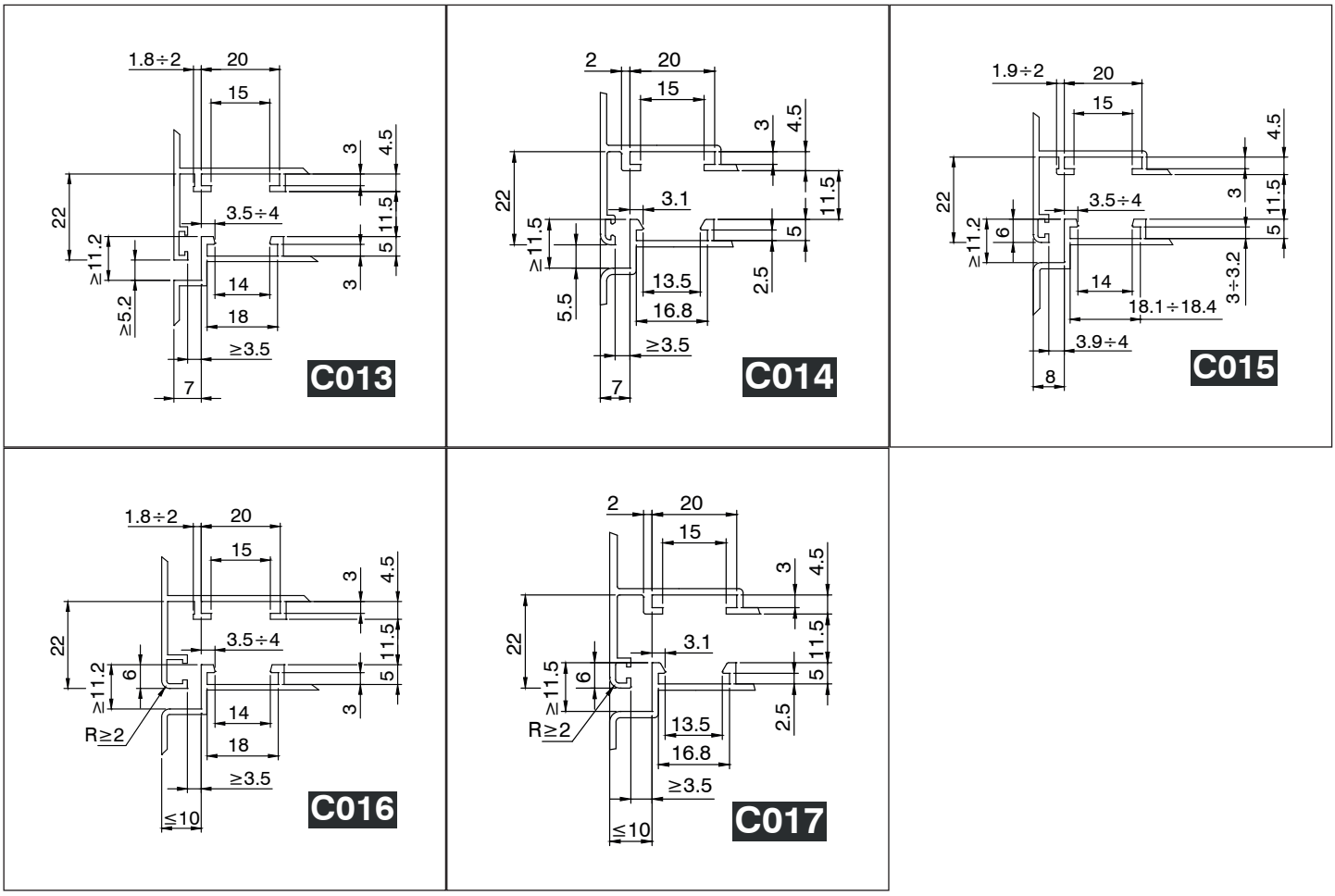
C011



C012

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SIDE-HUNG TYPE PROFILE CROSS-SECTIONS C



For an exact series/code match, see the on-line catalogue (www.giesse.it)

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SIDE-HUNG TYPE PROFILE CROSS-SECTIONS C - COMPANIES - SERIES/SYSTEMS

C001
ALCAN - ABITHAL GREEN
ALLCO - EXPORT 45
ALLCO - EXPORT 45 T
ALLCO - EXPORT 45 TT
ALLCO - EXPORT 50
ALLCO - EXPORT 50 T
ALLCO - EXPORT 50 TT
ALLCO - EXPORT 51 TT
ALLCO - EXPORT 68 TT
ALLCO - K 40
ALLCO - K 45T
ALLCO - K 64T
ALLCO - K 70T
ALLCO - SICURBLIN 65
ALLUSISTEMI - CX 600
ALLUSISTEMI - CX 700
ALSISTEM - PLANET 45
ALSISTEM - PLANET 50
ALSISTEM - PLANET 62 TT
ALSISTEM - PLANET 72 HT
ALUMAFEL - EQUIS-THERMIC
ALUMAFEL - TOP 55
ALUMAFEL - TOP 65
ALUMAFEL - UNNO
ALUMAFEL - UNNO-THERMIC
ALUMEC - SYNTHESIS 45
ALUMEC - SYNTHESIS 52
ALUMEC - SYNTHESIS 52 TT
ALUMEC - SYNTHESIS 57
ALUMEC - SYNTHESIS 60 TT
ALUMEC - SYNTHESIS 68 TT
CORTIZO - SYSTEM 2000
CORTIZO - SYSTEM 2300
CORTIZO - SYSTEM 3000
ELMADUC - P45
ESEDRA - HT 54-62
ETA - ROAD 520 TT CE
ETA - ROAD 600 TT CE
ETA - START 410
ETA - START 410 SHUTTER
ETA - START 470 TT
ETA - START 510
ETA - START 560 TT
ETA - START 640 TT
ETA - START 760 TT
ETNALL - ET 45 Overlap
EXTRUGASA - XC-70
HYDRO - DOMAL BREAK PA 52
HYDRO - DOMAL BRIGHT PA 70 S
HYDRO - DOMAL EXTRATERMIC 62
HYDRO - DOMAL STOPPER PG
HYDRO - DOMAL STOPPER PG 63
HYDRO - DOMAL TOP TB 55
HYDRO - DOMAL TOP TB 65
INDINVEST - GOLD 400
INDINVEST - GOLD 450
INDINVEST - GOLD 450 TT
INDINVEST - GOLD 490
INDINVEST - GOLD 500
INDINVEST - GOLD 600
INDINVEST - GOLDWING
INDINVEST - HP 600
INESPAL - Alfil A54RPT
INESPAL - Alfil A65RPT
MEXALL - PROGRESS MX 50
MEXALL - PROGRESS MX 70
PASSERINI ALL - MAASTRICHT 53
PASSERINI ALL. - MAASTRICHT LIGHT
PASSERINI ALL. - MAASTRICHT TH 60
PASSERINI ALL. - MAASTRICHT TH 68
PASSERINI ALL. - VENICE TH16
PREDIERI METALLI - PR 50
PREDIERI METALLI - PR 50 TT
PREDIERI METALLI - PR 65 TT
PROFILES - EKU 40
PROFILES - EKU 52TT
PROFILES - EKU 53
PROFILES - EKU 53 Shutter
PROFILES - EKU 53TT
PROFILES - EKU 64TT
PROFILES - EKU 66TT
PROFILES - EKU 72TT
PROFILES - VUERRE 53 TT
PROFILES - VUERRE 70 TT
TOMA - ATLANTIS 45
TOMA - ATLANTIS 55TT
TOMA - ATLANTIS 68TT
PONZIO - WINDSTOP 45
PONZIO - WINDSTOP 45 TT
PONZIO - WINDSTOP 45 TT CLASSIC
PONZIO - WINDSTOP 55 TT
PONZIO - WINDSTOP 55 TT CLASSIC
PONZIO - WINDSTOP 65 TT
PONZIO - WINDSTOP 65 TT CLASSIC
TP PROFILES - EKOS 50 TH

C002
GIUGNI - GIUGNI TT
METRA - NC 45 I
METRA - NC 45 STH
METRA - NC 50 I
METRA - NC 50 STH
METRA - NC 55 I
METRA - NC 65 STH
METRA - NC 65 STH-i
METRA - NC 68 STH
METRA - NC 72 STH

C003
ASAS - P69
HEROAL - 65
HEROAL - 110 ES
INSTALLUX - ESPACE 40
INSTALLUX - ESPACE 50
INSTALLUX - ESPACE 50TH
TENDER - S 70

C004
INDINVEST - PLATHINA 60
INDINVEST - PLATHINA 69
INDINVEST - PLATHINA 75

C005
ALUMAFEL - DUOTHERM 55000 TH
ALUMAFEL - FORMA
ALUMAFEL - FORMA-THERMIC

C006
ALCAN - T2000
FENIS - S-6000
GULF EXTRUSION - 45 mm GULF
TECHNAL - ASAMCO
TECHNAL - EPURE
TECHNAL - FC

C007
ETNALL - 40500
ETNALL - TT 50
GASTALDELLO - NEW TEC 50
GASTALDELLO - NEW TEC 50 CLASSIC
GASTALDELLO - NEW TEC 50 SHUTTERS WITH FRAME
GASTALDELLO - NEW TEC 52 TT
GASTALDELLO - NEW TEC 52 TT CLASSIC
GASTALDELLO - NEW TEC 52 TT LIGHT
GASTALDELLO - NEW TEC 60
GASTALDELLO - NEW TEC 60 TT
GASTALDELLO - NEW TEC 65
GASTALDELLO - NEW TEC 65 CLASSIC
GASTALDELLO - NEW TEC 68 TT
PREDIERI METALLI - PR 58
PREDIERI METALLI - PR 66 TT
PREDIERI METALLI - PR 75 TT
SAPA - R 40
SAPA - R 50 TT continuous bar
SAPA - R 62 TT
SAPA - R 72 TT
SAPA - RX 600
SAPA - RX 700
SAPA - TECNO 50
CLL - TECNO 50 TT
CLL - TECNO 60 TT
CLL - TECNO 68 TT
CLL - TECNO 76 TT

C008
ETNALL - R 50
SAPA - R 60 TT

C009
ALLCO - ALL.CO 5S
ALLCO - ALLCO 5S TT
ALLCO - NEW AGE

C010
ETNALL - ET 40
ETNALL - ET 43
METRA - NEW NC 40 FL.
METRA - NEW NC40 OVERL.
PROFILES - PE 40
PROFILES - PE 50
PROFILES - PE 58 TT OVER.

C011
PROFILES - THERMOLEGNO

C012
SAPA - AVANTIS 55

C013
ALUAR - A30-NEW DOORS
ETNALL - ET 45
HYDRO - DOMAL BREAK PA 52
HYDRO - DOMAL BRIGHT PA 70 S
HYDRO - DOMAL EXTRATERMIC 62
HYDRO - DOMAL STOPPER PG
HYDRO - DOMAL STOPPER PG 63

C014
METRA - NC 45 I
METRA - NC 45 STH

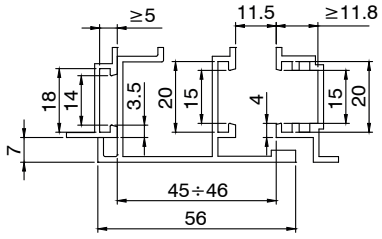
C015
INDINVEST - GOLD 400
INDINVEST - GOLD450
INDINVEST - GOLD450 TT
INDINVEST - GOLD500 TT
PROFILES - EKU 53TT
PROFILES - EKU 60TT
PROFILES - EKU 80TT
TOMA - ATLANTIS 45 flush
TOMA - ATLANTIS 55TT
TOMA - ATLANTIS 68TT
TP PROFILES - EKOS 50 TH

C016
ETA - START 410
ETA - START 470 TT
ETA - START 510
HYDRO - DOMAL TOP TB 55
HYDRO - DOMAL TOP TB 65

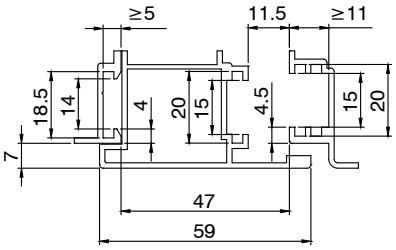
C017
METRA - NC 50 I
METRA - NC 50 STH
METRA - NC 65 STH
METRA - NC 65 STH-i
METRA - NC 68 STH
METRA - NC 72 STH

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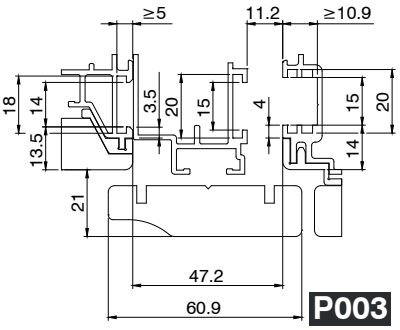
PIVOTING WINDOW TYPE PROFILE CROSS-SECTIONS P



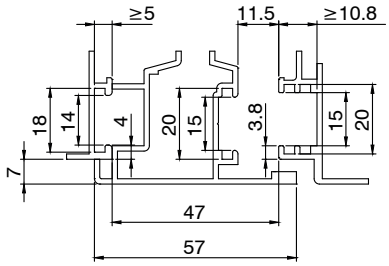
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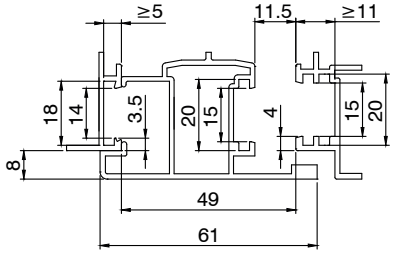
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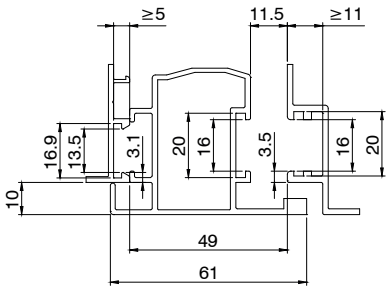
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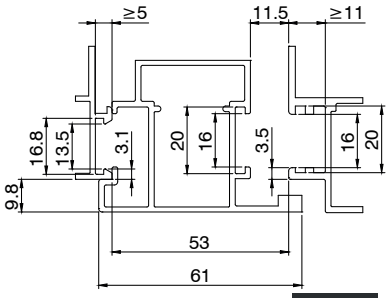
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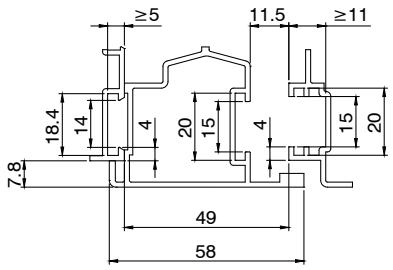
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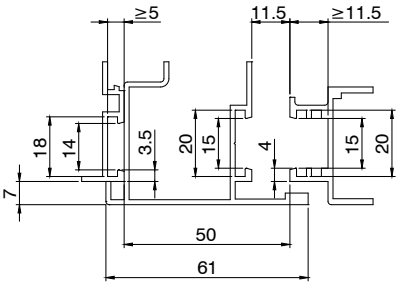
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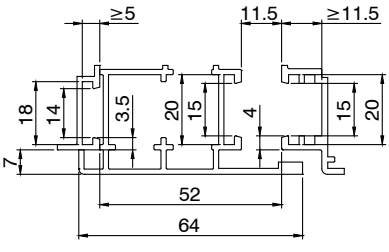
P007



P008



P009



P010

For an exact series/code match, see the on-line catalogue (www.giesse.it)

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PIVOTING WINDOW TYPE PROFILE CROSS-SECTIONS P - COMPANIES - SERIES/SYSTEMS

P001
HYDRO - DOMAL BREAK PA 52
HYDRO - DOMAL EXTRATERMIC 62
HYDRO - DOMAL STOPPER PG

P002
ALLCO - EXPORT 45
ALLCO - EXPORT 45 TT
ALLCO - EXPORT 50
ALLCO - EXPORT 50 TT
PONZIO - WINDSTOP 55 TT

P003
ALLCO - KWOOD

P004
ALCAN - ABITHAL GREEN
ALCAN - EURO STRIKER 45

P005
INDINVEST - GOLD 400
INDINVEST - GOLD 450
INDINVEST - GOLD 450 TT
INDINVEST - GOLD 490
INDINVEST - GOLD 500
INDINVEST - GOLD 502 HC
INDINVEST - GOLD 600
TOMA - TIERRE 550 TH

P006
METRA - NC 50 STH
METRA - NC 50 I
ALUMIL - MU 11500

P007
METRA - NC 65 STH

P008
PROFILES - EKU 53
PROFILES - EKU 53 TT
PROFILES - EKU 64 TT
PROFILES - EKU 72 TT

P009
HYDRO - DOMAL BREAK PA 63
HYDRO - DOMAL BREAK PA 70 S
ESEDRA - HT 54-72

P010
HYDRO - DOMAL BRIGHT PA 70 S

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Treatments and finishes

Base/Neutral

Neutral finish (code **000**) means all products without a finish that cannot be subsequently painted/oxidized. Base finishes (codes **005**-**006**) are surface treatments that Giesse applies to products that will subsequently be painted or anodised.Base Painting (code **005**) is a passivation treatment free from Chromium VI which permits retaining the surface characteristics suited for subsequent painting. Base Painting is ideal for both powder and liquid painting. It is compatible with all pre-treatments that include an acid-etching cleaning phase. Base Oxidation (code **006**) is instead a barrelling treatment suitable for subsequent anodic oxidation.

Resins

Plastic polymers are all the products made of polyamide.

Anodised Elox

Anodised/Elox means all the products with an oxidized and/or electro-colour finish. Oxidation is achievable solely on products made of extruded aluminium.

Painted

Painted means all the products that are painted in the in-house painting system, using only thermosetting powder paints that are non-toxic and harmless, therefore non-polluting and environmentally friendly (free of TGIC).

Trend/Gold/Brass

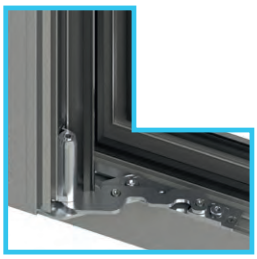
This group of finishes comprises Trend (prestige finishes for modern, stylish casements), gold oxidized, liquid painted or brass products. Oxidation is achievable solely on products made of extruded aluminium.

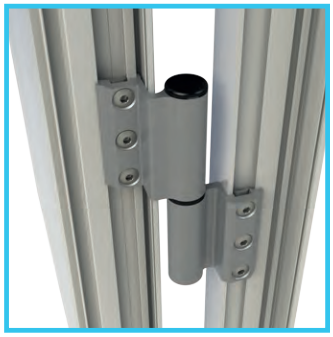
BASE/NEUTRAL	ELOX/OX FINISH	PAINTED	TREND/GOLD/BRASS
000 neutral/stainless steel/nylon **005** base painting **006** base oxidation **010** black nylon **501** mat black	**020** silver **060** bronze **190** elettrogiesse 9	**376** silver Giesse **380** bronze euro **382** Giesse dark bronze **390** electro 5 euro **410** pure white 9010 **411** ~ Ral 9010 white, 25% Gloss **414** ~ Ral 1015 clear avory **415** ~ Ral 9003 bright white **420** ~ Ral 9001 cream white **430** ~ Ral 1013 pearl white **461** ~ Ral 3000 red **470** ~ Ral 9016 white **480** ~ Ral 6005 musk green **490** ~ Ral 8017 chocolate brown **500** ~ Ral 9005 black **510** mat green SFX **530** mat gray SFX **610** white (French) 9010 **611** ~ Ral 9010 white **640** ~ Ral 8019 mat brown **641** ~ Ral 8019 mat brown **650** musk brown Grinz **660** musk green Grinz **670** mat brown SFX **680** ~ Ral 9002 white **700** ~ Ral 6029 Giesse Green **790** ~ Ral 9016 bright white **960** ~ Ral 1247 dark brown **970** ~ Ral 9006 silver	**040** gold **310** trend gold **350** trend cromosat **375** trend antique silver **383** trend antique bronze
RESINS			
542 clear grey **544** grey **560** white **590** black			

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HINGES FOR DOORS AND WINDOWS

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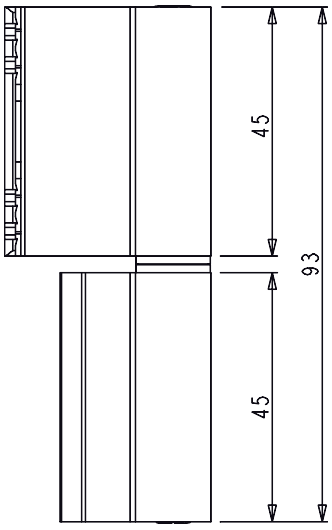
FLASH BASE HINGES

Functions
Two-handed hinge for aluminium casement window and door fixtures with central gasket seal.

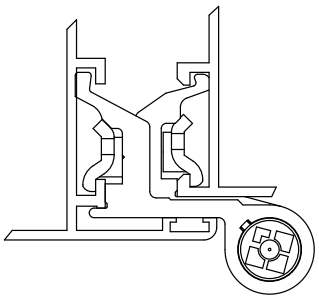
Technical Features
Supplied preassembled to enable fast installation and faultless positioning of the hinge on already assembled fixtures.
Special fixing plates, preassembled with the hinge bodies (Giesse RAPID system), enable fast installation and faultless positioning of the hinge on already assembled fixtures.
The FLASH BASE hinge is fitted extremely quickly to the sash and frame, even when the fixture has already been assembled.
The particular geometry of the hinge and of the plate enables swift and simple application to the already assembled fixture, and faultless positioning of the hinge when fixing the screws.
Hinges 00120 00122 00123 00128 and 00259 are certified to EN1935:2002 and classified for windows typified by average intensity of use (use category 2* - average use) with high resistance to fatigue and wear (durability grade 7* - 200,000 test cycles).
* Complies with EN 1935

Materials
Extruded aluminium hinge bodies
Stainless steel pin, screws and fixing plates
Polyamide bushes

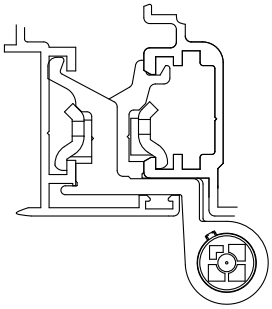
Capacities
With 2 FLASH BASE hinges: 75 kg
With 3 FLASH BASE hinges: 85 kg
assuming fixtures of 2000 mm height and 1000 mm width.



Side profile cross-section



third sash cross-section



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Item code	Description	PROFILE CROSS - SECTION	Pre-assembled	Hand	Flush opening	Third sash	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00094U	FLASH BASE HINGE	C008					X		X	X	20
00095U	FLASH BASE HINGE	see Where Used					X	X	X	X	20
00099U	FLASH BASE HINGE	see Where Used					X	X	X	X	20
001201	FLASH BASE HINGE	C001	X	RX				X	X	X	50
001202	FLASH BASE HINGE	C001	X	LX				X	X	X	50
00120U	FLASH BASE HINGE	C001					X	X	X	X	20
001211	FLASH BASE HINGE	see Where Used	X	RX		X		X	X	X	50
001212	FLASH BASE HINGE	see Where Used	X	LX		X		X	X	X	50
00121U	FLASH BASE HINGE	see Where Used				X	X	X	X	X	20
001221	FLASH BASE HINGE	C002	X	RX				X	X	X	50
001222	FLASH BASE HINGE	C002	X	LX				X	X	X	50
00122U	FLASH BASE HINGE	C002					X	X	X	X	20
00123U	FLASH BASE HINGE	C014				X	X	X	X	X	20
00126U	FLASH BASE HINGE	C008					X	X	X	X	20
00127U	FLASH BASE HINGE	see Where Used				X	X	X	X	X	20
001281	FLASH BASE HINGE	C007	X	RX				X	X	X	50
001282	FLASH BASE HINGE	C007	X	LX				X	X	X	50
00128U	FLASH BASE HINGE	C007					X	X	X	X	20
00129U	FLASH BASE HINGE	see Where Used				X	X	X	X	X	20
00130U	FLASH BASE HINGE	C005					X	X	X	X	20
001341	FLASH BASE HINGE	C009	X	RX				X	X	X	50
001342	FLASH BASE HINGE	C009	X	LX				X	X	X	50
00134U	FLASH BASE HINGE	C009					X	X	X	X	20
00135U	FLASH BASE HINGE	see Where Used				X	X	X	X	X	20
00136U	FLASH BASE HINGE	C003					X	X	X	X	20
00137U	FLASH BASE HINGE	see Where Used					X	X	X	X	20
00142U	FLASH BASE HINGE	see Where Used					X	X	X		20
001431	FLASH BASE HINGE	C015	X	RX		X		X	X	X	50
001432	FLASH BASE HINGE	C015	X	LX		X		X	X	X	50
00143U	FLASH BASE HINGE	C015				X	X	X	X	X	20
0014411	FLASH BASE HINGE	C001-C002-C013-C014-C015-C016-C017	X	RX		X		X	X		50
0014421	FLASH BASE HINGE	C001-C002-C013-C014-C015-C016-C017	X	LX		X		X	X		50
00147N	FLASH BASE HINGE	C003					X	X	X		20
00240U	FLASH BASE HINGE	C011					X	X	X	X	20
00258U	FLASH BASE HINGE	see Where Used						X	X	X	20
002591	FLASH BASE HINGE	C010	X	RX		X		X	X	X	50
002592	FLASH BASE HINGE	C010	X	LX		X		X	X	X	50
00259U	FLASH BASE HINGE	C010				X	X	X	X	X	20
00278U	FLASH BASE HINGE	see Where Used			X		X	X	X	X	20
00279U	FLASH BASE HINGE	see Where Used				X	X	X	X	X	20
00281U	FLASH BASE HINGE	see Where Used				X	X	X	X	X	20

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HINGES FOR WINDOWS
FLASH BASE HINGES

Item code	Description	PROFILE CROSS - SECTION	Pre-assembled	Hand	Flush opening	Third sash	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
005271	FLASH BASE HINGE	C001-C005	X	RX				X	X	X	50
005272	FLASH BASE HINGE	C001-C005	X	LX				X	X	X	50
00527U	FLASH BASE HINGE	C001-C005					X		X		20
00529U	FLASH BASE HINGE	see Where Used				X	X	X	X	X	20
00564U	FLASH BASE HINGE	see Where Used			X			X	X	X	20

Note: For the «Third sash» hinges, check the correct series on Where-used.

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FLASH HINGES

Functions

Two-handed adjustable hinge for aluminium casement window and door fixtures with central gasket seal.

Technical Features

Supplied preassembled to enable fast installation and faultless positioning of the hinge on already assembled fixtures.
The burglar-proof pin, made of forged stainless steel, features a collar mid-way along its length that prevents any forcible attempt at removal.
Special fixing plates, preassembled with the hinge bodies (Giesse RAPID system), enable fast installation and faultless positioning of the hinge on already assembled fixtures.
The FLASH hinge is fitted extremely quickly to the sash and frame, even when the fixture has already been assembled.
The particular geometry of the hinge and of the plate enables swift and simple application to the already assembled fixture, and faultless positioning of the hinge when fixing the screws.

Adjustments

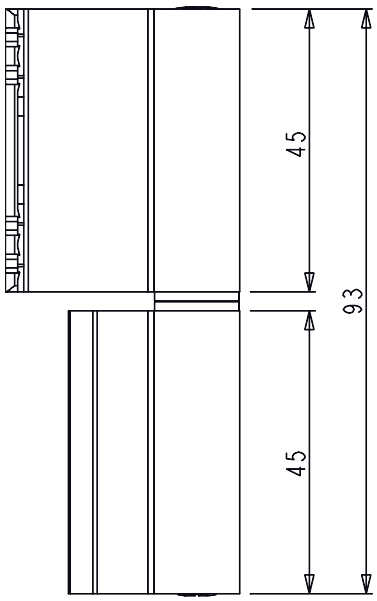
The hinge features an eccentric pin which, when adjusted by rotation in the respective bush, provides a compression and distance adjustment of ±0.3 mm.

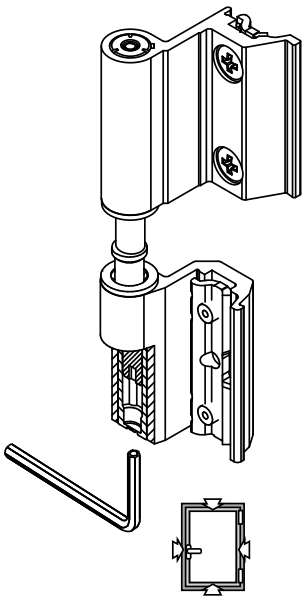
Materials

Extruded aluminium hinge bodies
Stainless steel pin, screws and fixing plates
Polyamide bushes

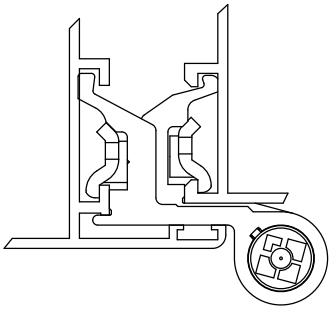
Capacities

With 2 FLASH BASE hinges: 75 kg
With 3 FLASH BASE hinges: 85 kg
assuming fixtures of 2000 mm height and 1000 mm width.

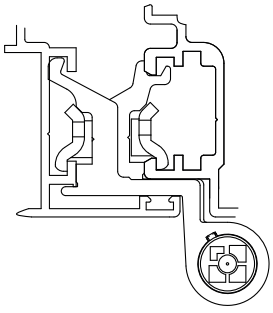




Side profile cross-section



third sash cross-section



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HINGES FOR WINDOWS
FLASH HINGES

Item code	Description	PROFILE CROSS - SECTION	Third sash	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00149U	FLASH HINGE	see Where Used		X	X	X	X	20
00150U	FLASH HINGE	C001		X	X	X	X	20
00151U	FLASH HINGE	see Where Used	X	X	X	X	X	20
00157U	FLASH HINGE	see Where Used	X	X		X	X	20
00219U	FLASH HINGE	see Where Used		X	X	X	X	20

Note: For the «Third sash» hinges, check the correct series on Where-used.

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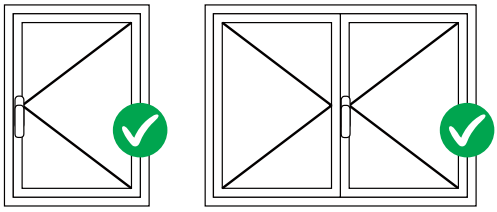


SASH HINGE SET FOR CHIC 3D 100

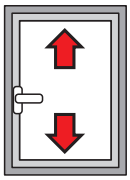
Functions
Set of hinges (top and bottom) for side-hung or secondary sash with tilt-and-turn CHIC 3D 100.

Technical Features
Sash opening to 180°.
Maximum load capacity 100 kg.
Assembly is simple, fast and easy using the special pre-assembled cams.
When there is an additional fastening mechanism, you need to use the CHIC fastening element.
Both hinges are adjustable (3D).
If opening is obstructed, you need to use the FRIZ limitation arm.
CAUTION: This hinge is designed to be used only on inward opening casements and is not suitable for outward opening casements.

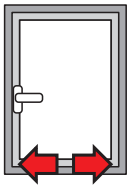
Materials
Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel



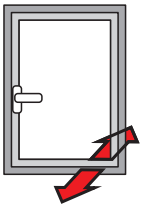
ADJUSTMENTS [mm]



Height:
+2.5 / -1

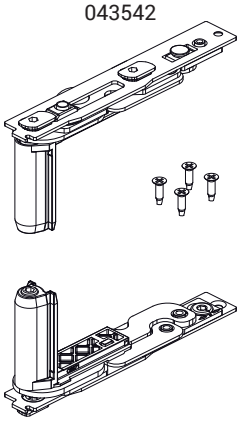


Side:
+1.5 / -1.5

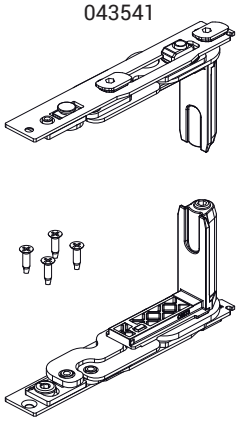


Hinge compression:
+1.4 / -0.6

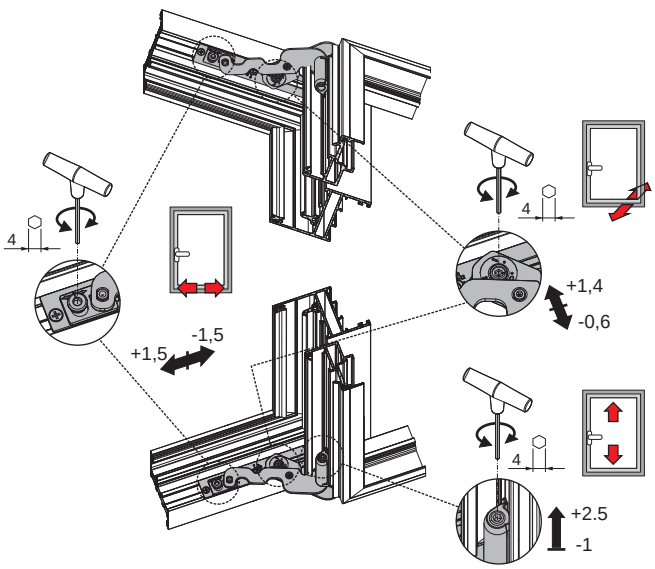
043542



043541



Adjustments



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Table of maximum glass thickness [mm]

	500	600	700	800	900	1000	1100	1200	1300	1400	1500
2500	33	27	23	20	18	16	15	14	13	12	11
2400	33	27	23	20	18	16	15	14	13	12	11
2300	34	28	24	21	19	17	16	14	13	12	11
2200	36	30	25	22	20	18	16	15	14	13	12
2100	37	31	27	23	21	19	17	16	14	13	12
2000	39	33	28	25	22	20	18	16	15	14	13
1900	41	34	30	26	23	21	19	17	16	15	14
1800	44	36	31	27	24	22	20	18	17	16	15
1700	46	38	33	29	26	23	21	19	18	16	15
1600	49	41	35	31	27	25	22	20	19	17	15
1500	50	44	37	33	29	26	24	22	20	17	15
1400	50	47	40	35	31	28	25	23	20	17	15
1300	50	50	43	38	34	30	27	24	20	17	15
1200	50	50	47	41	36	33	28	24	20	17	15
1100	50	50	50	45	40	34	28	24	20	17	
1000	50	50	50	49	42	34	28	24	20		
900	50	50	50	50	42	34	28	24			
800	50	50	50	50	42	34	28				
700	50	50	50	50	42	34					

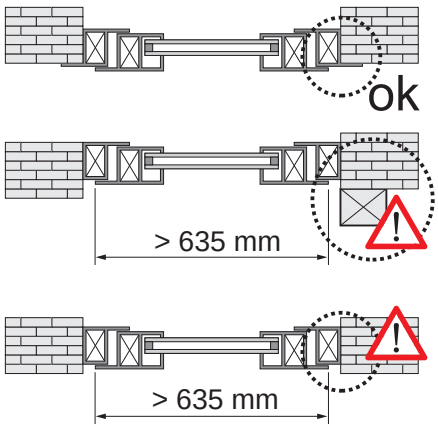
600 / 445

Table of maximum load capacity [kg]

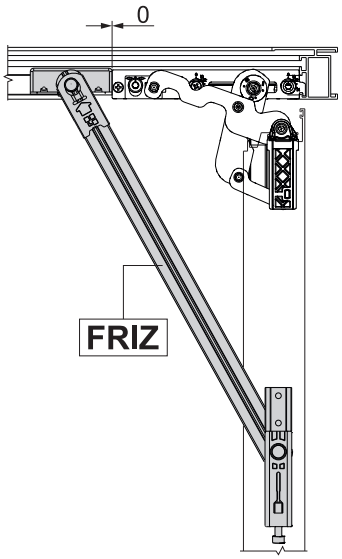
	500	600	700	800	900	1000	1100	1200	1300	1400	1500
2500	100	100	100	100	100	100	100	100	100	100	100
2400	100	100	100	100	100	100	100	100	100	100	100
2300	100	100	100	100	100	100	100	100	100	100	100
2200	100	100	100	100	100	100	100	100	100	100	100
2100	100	100	100	100	100	100	100	100	100	100	100
2000	100	100	100	100	100	100	100	100	100	100	100
1900	100	100	100	100	100	100	100	100	100	100	100
1800	100	100	100	100	100	100	100	100	100	100	100
1700	100	100	100	100	100	100	100	100	100	100	98
1600	100	100	100	100	100	100	100	100	100	99	92
1500	100	100	100	100	100	100	100	100	100	93	87
1400	100	100	100	100	100	100	100	100	93	87	81
1300	100	100	100	100	100	100	100	94	87	80	75
1200	100	100	100	100	100	100	95	87	80	74	69
1100	100	100	100	100	100	95	87	79	73	68	
1000	100	100	100	100	96	87	79	72	67		
900	100	100	100	98	87	78	71	65			
800	100	100	99	87	77	69	63				
700	100	100	87	76	67	61					

600 / 445

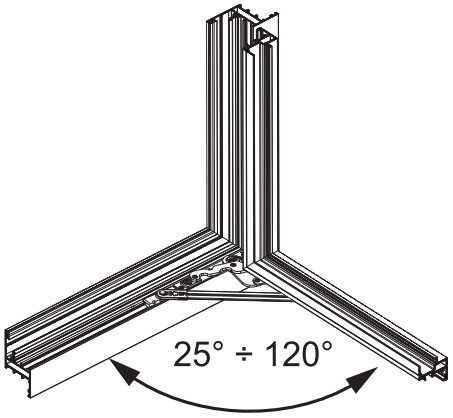
Mandatory to use the FRIZ arm



FRIZ arm positioning



Opening angle with FRIZ arm



Item code	Description	PROFILE CROSS - SECTION	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
043541	CHIC - SASH HINGE SET	C001-C002-C003-C004-C005-C006	RX	X				10
043542	CHIC - SASH HINGE SET	C001-C002-C003-C004-C005-C006	LX	X				10

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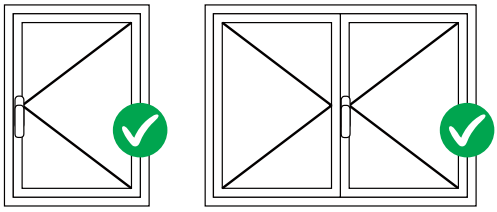


SASH HINGE SET FOR CHIC 3D 130

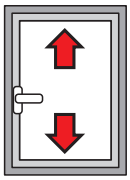
Functions
Set of hinges (top and bottom) for side-hung or secondary sash with tilt-and-turn CHIC 3D 130.

Technical Features
Sash opening to 180°.
Maximum load capacity 130 kg.
Assembly is simple, fast and easy using the special pre-assembled cams.
When there is an additional fastening mechanism, you need to use the CHIC fastening element.
Both hinges are adjustable (3D).
If opening is obstructed, you need to use the FRIZ limitation arm.
CAUTION: This hinge is designed to be used only on inward opening casements and is not suitable for outward opening casements.

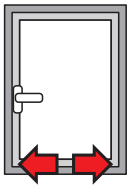
Materials
Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel



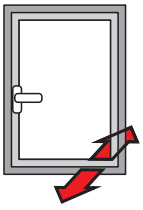
ADJUSTMENTS [mm]



Height:
+2.5 / -1

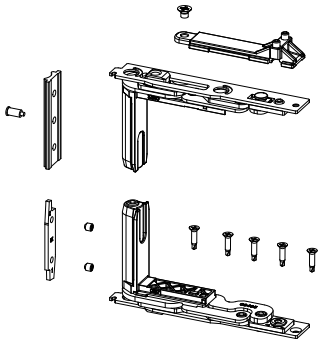


Side:
+1.5 / -1.5

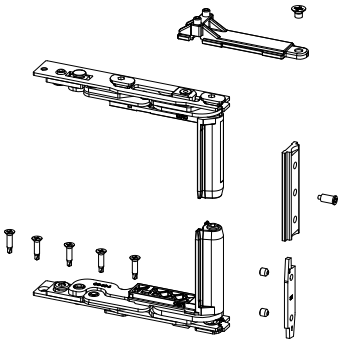


Hinge compression:
+1.4 / -0.6

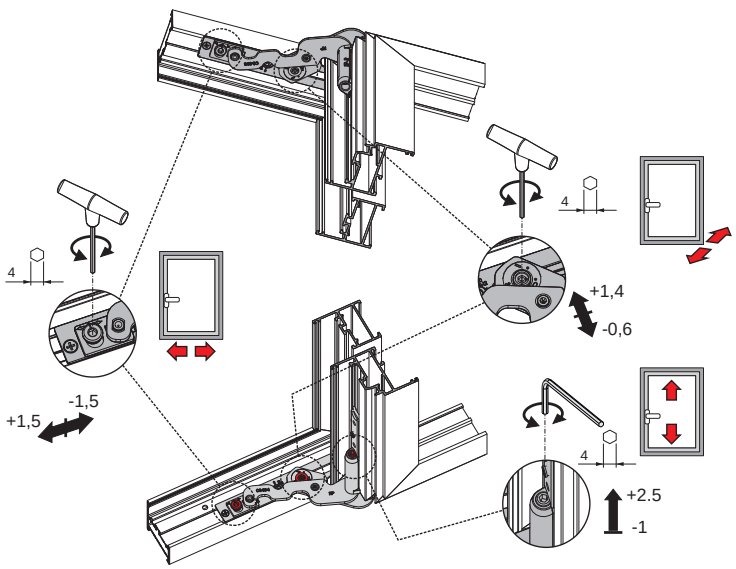
044242



044241



Adjustments



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HINGES FOR WINDOWS
SASH HINGE SET FOR CHIC 3D 130

Table of maximum glass thickness [mm]

	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
2800	35	29	25	22	19	17	16	14	13	12	12	
2700	37	31	26	23	20	18	17	15	14	13	12	
2600	39	32	28	24	21	19	18	16	15	14	13	12
2500	43	35	30	27	24	21	19	18	16	15	14	13
2400	43	35	30	27	24	21	19	18	16	15	14	13
2300	44	37	32	28	25	22	20	18	17	16	15	14
2200	46	39	33	29	26	23	21	19	18	17	15	14
2100	49	40	35	30	27	24	22	20	19	17	16	15
2000	51	43	36	32	28	26	23	21	20	18	17	16
1900	54	45	38	34	30	27	24	22	21	19	18	17
1800	57	47	40	35	31	28	26	24	22	20	19	18
1700	60	50	43	38	33	30	27	25	23	21	20	18
1600	60	53	46	40	35	32	29	27	25	23	21	18
1500	60	57	49	43	38	34	31	28	26	24	21	18
1400	60	60	52	46	40	36	33	30	28	24	21	18
1300	60	60	56	49	44	39	36	33	28	24	21	18
1200	60	60	60	53	47	43	39	33	28	24	21	
1100	60	60	60	58	52	46	39	33	28	24		
1000	60	60	60	60	57	47	39	33	28			
900	60	60	60	60	58	47	39	33				
800	60	60	60	60	58	47	39					
700	60	60	60	60	58	47						

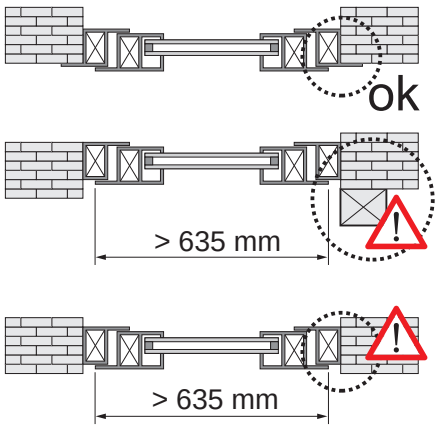
600 / 470

Table of maximum load capacity [kg]

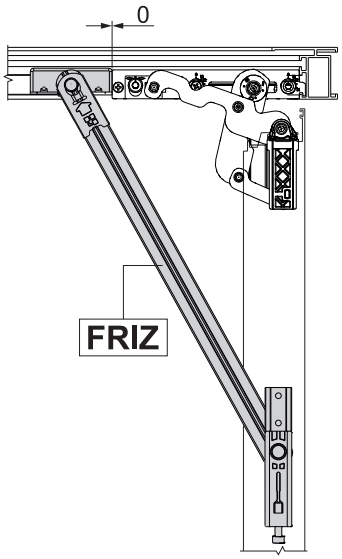
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
2800	124	124	124	124	124	124	124	124	124	124	124	
2700	126	126	126	126	126	126	126	126	126	126	126	
2600	128	128	128	128	128	128	128	128	128	128	128	128
2500	130	130	130	130	130	130	130	130	130	130	130	130
2400	130	130	130	130	130	130	130	130	130	130	130	130
2300	130	130	130	130	130	130	130	130	130	130	130	130
2200	130	130	130	130	130	130	130	130	130	130	130	130
2100	130	130	130	130	130	130	130	130	130	130	130	130
2000	130	130	130	130	130	130	130	130	130	130	130	130
1900	130	130	130	130	130	130	130	130	130	130	130	130
1800	130	130	130	130	130	130	130	130	130	130	130	130
1700	130	130	130	130	130	130	130	130	130	130	130	127
1600	130	130	130	130	130	130	130	130	130	130	127	119
1500	130	130	130	130	130	130	130	130	130	128	119	112
1400	130	130	130	130	130	130	130	130	129	119	111	104
1300	130	130	130	130	130	130	130	129	119	111	103	97
1200	130	130	130	130	130	130	130	119	110	102	95	
1100	130	130	130	130	130	130	119	109	101	94		
1000	130	130	130	130	130	119	108	99	92			
900	130	130	130	130	119	107	98	90				
800	130	130	130	119	106	95	87					
700	130	130	119	104	93	84						

600 / 470

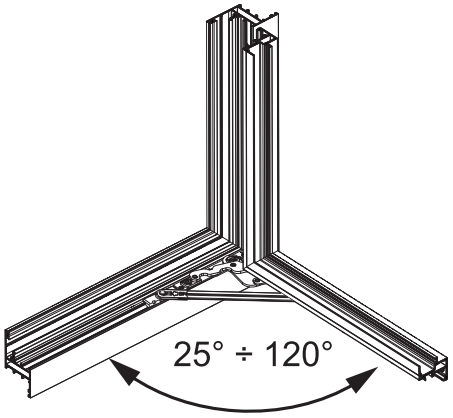
Mandatory to use the FRIZ arm



FRIZ arm positioning



Opening angle with FRIZ arm



Item code	Description	PROFILE CROSS - SECTION	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
044241	CHIC - SASH HINGE SET	C001-C002-C003-C004-C005-C006	RX	X				10
044242	CHIC - SASH HINGE SET	C001-C002-C003-C004-C005-C006	LX	X				10

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INVISIBLE SASH HINGE KIT



Functions

FUTURA 3D 170 HP Invisible hinge set (top and bottom) for side-hung sash or secondary sash combined with turn-and-tilt sash.

Technical Features

The product is designed for sash profiles with smooth channel.
In the case of profiles with undercut channel, shims item 04406 (1.5 mm) or item 04407 (2 mm) must be used.

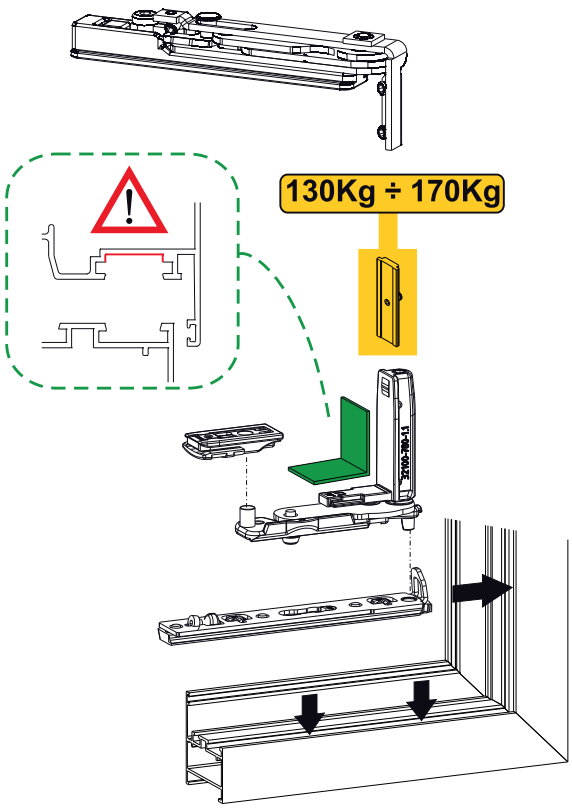
Materials

Hinge in stainless steel and zamak, pin and grub screws in stainless steel
Polyamide bushes

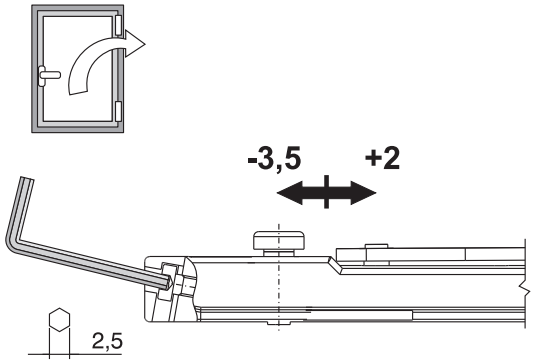
Capacities

The product has a nominal load capacity of 130 kg.
For higher load capacities up to 170 kg, reinforcement kit item 04409 or item 04411 is required.

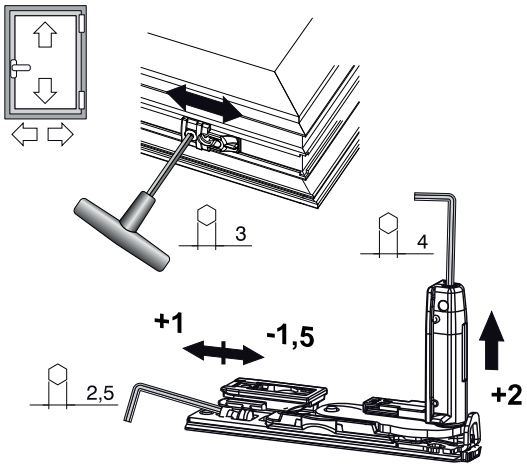
Assembly



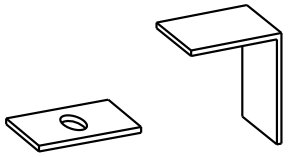
Sash drop adjustment



Side and vertical adjustment



Shims for FUTURA 3D 170 HP Invisible



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HINGES FOR WINDOWS
INVISIBLE SASH HINGE KIT

Futura 3D Invisible <130 kg
Maximum allowable thickness of glass

	430	500	550	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
2500	43	39	36	31	27	24	22	20	18	17	15	14	14	13	
2400	45	41	38	32	28	25	23	21	19	17	16	15	14	13	
2300	47	43	39	34	30	26	24	21	20	18	17	16	15	14	
2200	50	45	41	35	31	28	25	23	21	19	18	17	15	15	
2100	50	47	43	37	33	29	26	24	22	20	19	17	16	15	
2000	50	50	46	39	34	30	27	25	23	21	20	18	17	16	
1900	50	50	48	41	36	32	29	26	24	22	21	19	18	17	
1800	50	50	50	44	38	34	31	28	25	24	22	20	19	18	
1700	50	50	50	46	41	36	33	30	27	25	23	22	20	19	
1600	50	50	50	50	43	39	35	32	29	27	25	23	22	19	
1500	50	50	50	50	46	41	37	34	31	29	27	25	22	19	
1400	50	50	50	50	50	44	40	36	33	31	29	25	22	19	
1300	50	50	50	50	50	48	43	39	36	33	29	25	22		
1200	50	50	50	50	50	50	47	43	39	33	29	25			
1100	50	50	50	50	50	50	50	47	39	33	29				
1000	50	50	50	50	50	50	50	47	39	33					
900	50	50	50	50	50	50	50	47	39						
800	50	50	50	50	50	50	50	47							
700	50	50	50	50	50	50	50								
600															

Futura 3D Invisible <130 kg
Maximum permissible load capacity

	430	500	550	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
2500	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
2400	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
2300	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
2200	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
2100	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
2000	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
1900	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
1800	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
1700	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
1600	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
1500	130	130	130	130	130	130	130	130	130	130	130	130	130	121	114
1400	130	130	130	130	130	130	130	130	130	130	130	130	121	113	106
1300	130	130	130	130	130	130	130	130	130	130	120	111	104		
1200	130	130	130	130	130	130	130	130	130	119	110	102			
1100	130	130	130	130	130	130	130	130	130	118	108	100			
1000	130	130	130	130	130	130	130	117	106	98					
900	130	130	130	130	130	130	116	104	95						
800	130	130	130	130	130	114	101	91							
700	130	130	130	130	111	98	87								
600															

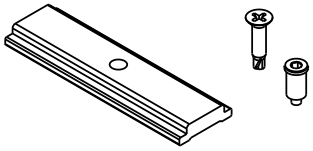
Futura 3D Invisible 130kg - 170 kg
Maximum allowable thickness of glass

	430	500	550	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
2500	43	39	47	40	35	31	28	26	24	22	20	19	18	17	
2400	45	41	49	42	37	33	30	27	25	23	21	20	18	17	
2300	47	43	50	44	39	34	31	28	26	24	22	21	19	18	
2200	50	45	50	46	40	36	32	29	27	25	23	22	20	19	
2100	50	47	50	49	43	38	34	31	28	26	24	23	21	19	
2000	50	50	50	50	45	40	36	33	30	28	26	24	22	19	
1900	50	50	50	50	47	42	38	34	31	29	27	25	22	19	
1800	50	50	50	50	50	44	40	36	33	31	29	25	22	19	
1700	50	50	50	50	50	47	43	39	35	33	29	25	22	19	
1600	50	50	50	50	50	50	45	41	38	33	29	25	22	19	
1500	50	50	50	50	50	50	49	44	39	33	29	25	22	19	
1400	50	50	50	50	50	50	50	47	39	33	29	25	22	19	
1300	50	50	50	50	50	50	50	47	39	33	29	25	22		
1200	50	50	50	50	50	50	50	47	39	33	29	25			
1100	50	50	50	50	50	50	50	47	39	33	29				
1000	50	50	50	50	50	50	50	47	39	33					
900	50	50	50	50	50	50	50	47	39						
800	50	50	50	50	50	50	50	47							
700	50	50	50	50	50	50	50								
600															

Futura 3D Invisible 130kg - 170 kg
Maximum permissible load capacity

	430	500	550	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
2500	130	130	170	170	170	170	170	170	170	170	170	170	170	170	
2400	130	130	170	170	170	170	170	170	170	170	170	170	170	170	
2300	130	130	170	170	170	170	170	170	170	170	170	170	170	170	
2200	130	130	170	170	170	170	170	170	170	170	170	170	170	170	
2100	130	130	170	170	170	170	170	170	170	170	170	170	170	163	
2000	130	130	170	170	170	170	170	170	170	170	170	170	165	154	
1900	130	130	170	170	170	170	170	170	170	170	170	167	156	146	
1800	130	130	170	170	170	170	170	170	170	170	170	158	147	138	
1700	130	130	170	170	170	170	170	170	170	170	160	149	139	130	
1600	130	130	170	170	170	170	170	170	170	163	150	139	130	122	
1500	130	130	170	170	170	170	170	170	165	152	140	130	121	114	
1400	130	130	170	170	170	170	170	169	154	141	130	121	113	106	
1300	130	130	170	170	170	170	170	156	142	130	120	111	104		
1200	130	130	170	170	170	170	159	143	130	119	110	102			
1100	130	130	170	170	170	163	144	130	118	108	100				
1000	130	130	170	170	167	146	130	117	106	98					
900	130	130	170	170	149	130	116	104	95						
800	130	130	165	152	130	114	101	91							
700	130	130	142	130	111	98	87								
600															

Reinforcement for FUTURA 3D 170 HP Invisible



Item code	Description	Notes	PROFILE CROSS - SECTION	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
044001	INVISIBLE SASH HINGE KIT		C001	RX	X				10
044002	INVISIBLE SASH HINGE KIT		C001	LX	X				10
044011	INVISIBLE SASH HINGE KIT		C003	RX	X				10
044012	INVISIBLE SASH HINGE KIT		C003	LX	X				10

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FAST HINGES

Functions

Reversible hinge made with the extended leaf to allow opening the sash to open flush in the case of aluminium windows with a central gasket.

Technical Features

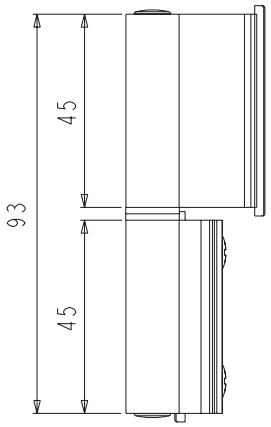
It is equipped with a steel pin, carried in two polyamide bushings, which ensure a reliable expanding action.
The extended leaf allows the sash to lie flush against the adjoining sash when opened to 180°.

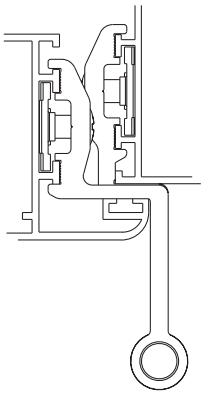
Materials

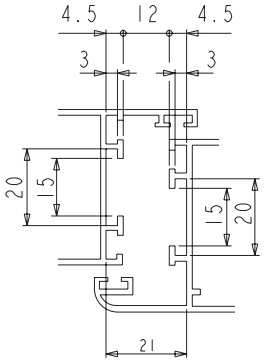
Hinge in extruded aluminium
Zinc-coated steel pin
Screws and plates, stainless steel
Black polyamide bushes

Parts

2 rectangular fixing plates
4 TGS M5 x 10 screws, crosshead

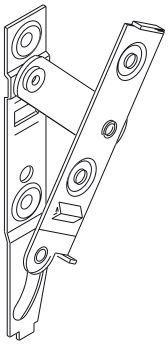






Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces for package
00180U	FAST HINGE, OUTWARD OPENING PE 40		X	X			20

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HINGES FOR BOTTOM-HUNG WINDOWS

Functions

Hinge for bottom-hung windows, fast assembly and secure fixing.
Enables opening a bottom-hung window without any hinges being exposed to view.

Technical Features

It is fixed with cams and plates and requires no adaptation or modification of seals for assembly.
Enables bottom-hung opening of the sash to an angle of 32°.
Given its application and operation internally of the groove, bottom hung window fixtures can be assembled without any hinges exposed to view.

Materials

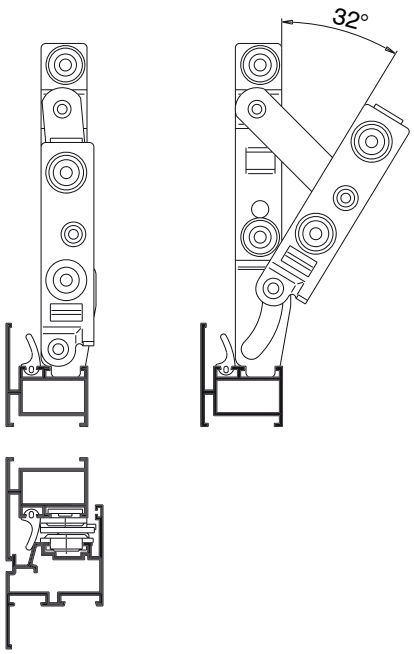
Hinge and plates of zinc-nickel plated steel
Stainless steel plates
Screws and long plates of zinc-nickel plated steel

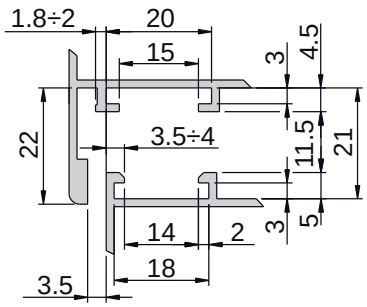
Parts

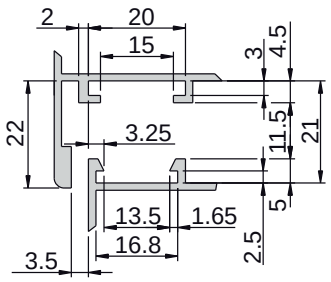
8 TSP M5x8 screws
4 threaded cam plates
2 long threaded plates

Capacities

with 2 hinges:
20 kg assuming fixtures of maximum height 700 mm
Minimum height 170 mm







Item code	Description	Note	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02051	HINGES FOR BOTTOM-HUNG WINDOWS	pair	C001-C002	X				10

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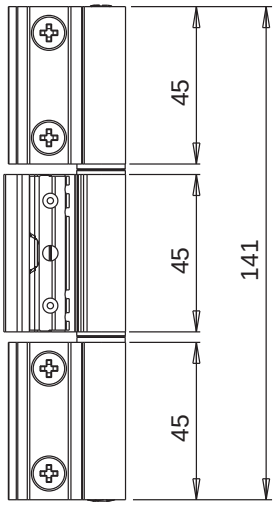
FLASH BASE 3-WING HINGE

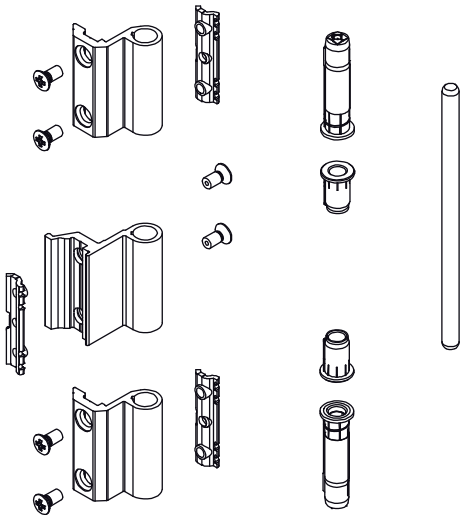
Functions
Two-handed 3-wing hinge, for lightweight window and door fixtures made with channel profile.

Technical Features
Two-handed three wing hinge, suitable for lightweight door fixtures and bottom hung or projecting type windows.
Special fixing plates, preassembled with the hinge bodies (Giesse RAPID system), enable fast installation and faultless positioning of the hinge on already assembled fixtures.

Materials
Extruded aluminium hinge bodies
Pin, fixing plates, screws and grub screw, all stainless steel
Acetal resin bushes

Capacities
85 kg with 2 hinges
100 kg with 3 hinges





Item code	Description	PROFILE CROSS - SECTION	Load capacity 2 hinges [kg]	Load capacity 3 hinges [kg]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00115U	FLASH BASE 3-WING HINGE	C001	85	100	X				20

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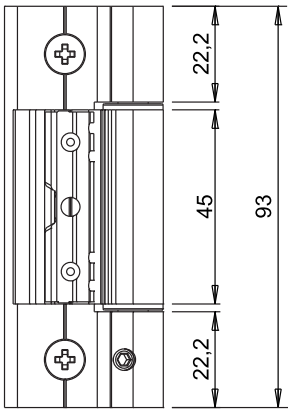
BRIDGE 2 HINGES

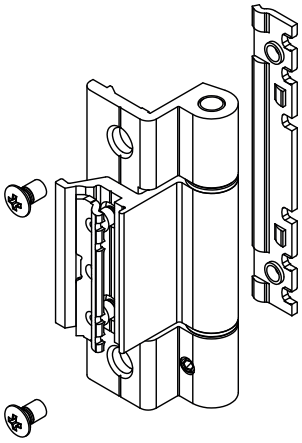
Functions
Clamp hinge for lightweight windows and door fixtures made with channel profile.

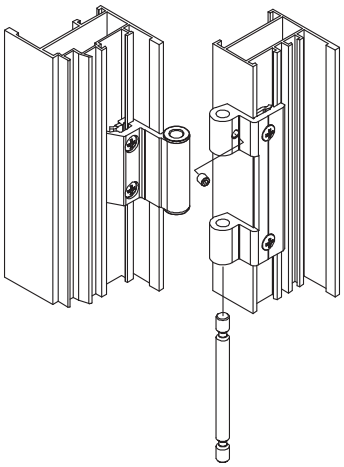
Technical Features
Two-handed hinge suitable for lightweight door fixtures and bottom hung or projecting type windows.
Supplied preassembled (except the plate for fixing the hinge on the frame side) to enable fast installation and faultless positioning of the hinge on already assembled fixtures.
The special shape of fixing plate fitted to the sash (Giesse RAPID system) guarantees the firmest possible attachment of the hinge to the profile.
Removable pin allowing separation of sash from frame without detaching the hinge from the profile.

Materials
Extruded aluminium hinge bodies
Pin, fixing plates, screws and grub screw, all stainless steel
Acetal resin bushes

Capacities
90 kg with 2 hinges
100 kg with 3 hinges







Item code	Description	PROFILE CROSS - SECTION	Third sash	Load capacity 2 hinges [kg]	Load capacity 3 hinges [kg]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00600N	BRIDGE 2 HINGE	C001-C002		90	100	X	X	X	X	20
00601N	BRIDGE 2 HINGE		x	90	100	X	X	X	X	20
00602N	BRIDGE 2 HINGE	C007		90	100	X	X	X	X	20
00603N	BRIDGE 2 HINGE		x	90	100	X	X	X	X	20
00604N	BRIDGE 2 HINGE	C008		90	100	X	X	X	X	20
00605N	BRIDGE 2 HINGE		x	90	100		X	X	X	20
00606N	BRIDGE 2 HINGE	C009		90	100	X	X	X	X	20
00607N	BRIDGE 2 HINGE		x	90	100	X	X	X	X	20
00609N	BRIDGE 2 HINGE	C005		90	100	X	X	X		20

Note: For the «Third sash» hinges, check the correct series on Where-used.

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CELERA HINGES

Functions

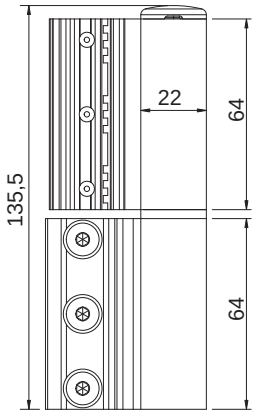
Clamp door hinge for profile with channel.
Side adjustment with door installed.

Technical Features

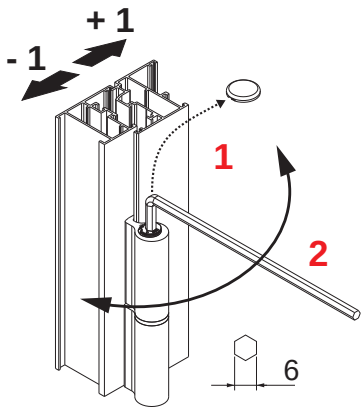
This hinge is suitable for doors subject to intensive use with high resistance to fatigue and wear.
Fixing plates of special geometry guarantee the firmest possible attachment on the profile channel.
The CELERA hinge is fitted extremely quickly to the sash and frame, even when the fixture has already been installed, thanks to the fixing plates that are pre-assembled to the hinge bodies (Giesse RAPID system).
It is therefore possible to apply an additional hinge (for example in the center) even after installation without having to dismantle the sash.
Side adjustment (±1 mm), obtainable by turning the eccentric bush in the sash hinge using a 6mm hex wrench.

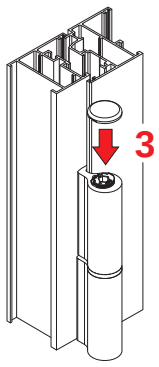
Materials

Extruded aluminium hinge bodies
Ø10 pin, fixing plates and fixing screws, all stainless steel
Eccentric bush, adjustment locking element and washer made of acetal resin
Polyamide cap



Side adjustment





Item code	Description	PROFILE CROSS - SECTION	Flush opening	Third sash	Load capacity 2 hinges [kg]	Load capacity 3 hinges [kg]	CE marking	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00681	CELERA HINGE	C001 - C002 - C005			100	120	CLASS 12	X	X	X		20
00682	CELERA HINGE	C007			100	120	-	X	X	X		20
00684	CELERA HINGE	C013 - C014	X		100	120	CLASS 12	X	X	X		20
00685	CELERA HINGE	-			90	110	-	X	X	X		20
00687	CELERA HINGE	C008			90	110	-	X	X	X		20
00688	CELERA HINGE	C009			100	120	-	X	X	X		20
00689	CELERA HINGE	C010			100	120	-	X	X	X		20
00690	CELERA HINGE	-		X	80	100	-	X	X	X	X	20

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3D HINGES

Functions

Clamp door hinge for profile with channel, adjustable in three directions with door installed.
The hinge bodies remain aligned in whatever side adjustment position is selected.
For combination with paintable aluminium covers purchased separately from the hinge.

Technical Features

Hinge suitable for doors subject to intensive use (use category 4* - heavy duty use).
The adjustment cartridge (Giesse patent system) keeps the hinge bodies aligned whatever the position assumed following side adjustment.
Specially machined fixing plates guarantee the firmest possible attachment on both sides of the profile channel. The additional reinforcement screws on the frame plate increase the slip resistance.
The thrust bearing located between the two hinge bodies increases resistance of the hinge to fatigue and wear (durability grade 7* - 200,000 test cycles).
Operation guaranteed up to more than 1,000,000 cycles.
Adjustments in three directions with door installed:
- side adjustment (±2 mm), using the adjuster grub screw in the side cartridge. The locking grub screw, which is inside the adjuster grub screw, locks the hinge in the chosen position
- compression adjustment (± 0.5 mm), obtainable by turning the eccentric bush in the frame part of the hinge with special key item 03900
- height adjustment (-2/+4 mm) obtainable by means of sash lift support block (item 00570 – purchased separately), to be positioned against the top hinge sash leaf.

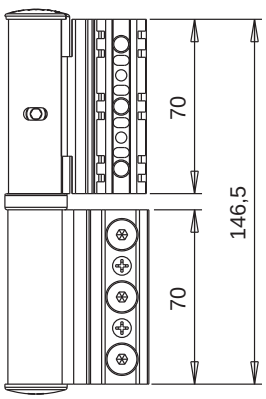
The hinge is to be coupled to the covers for the sash hinge and frame hinge (art. 00589), can be painted and coated, sold separately. Fitting the cover on completing installation avoids damaging the visible parts of the hinge during assembly, transport and installation.
* Complies with EN 1935

Materials

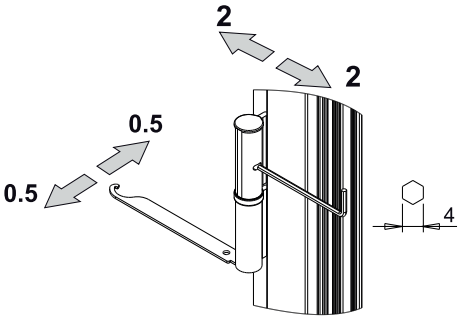
Hinge
Extruded aluminium hinge bodies, anodized black
Zamak side adjustment cartridge with GS Silver Plus finish (up to 500 h corrosion resistance)
Ø10 pin and Ø5 pin, stainless steel
Adjustment grub screw and locking grub screw of zinc-nickel plated steel
Thrust bearing, fixing plates, fixing screws and reinforcing screws all stainless steel
Eccentric bush, acetal resin
Polyamide caps
Extruded aluminium cover
Lift support block
Extruded aluminium block, black anodized finish
Fixing screws and M8 grub screw, stainless steel

Capacities

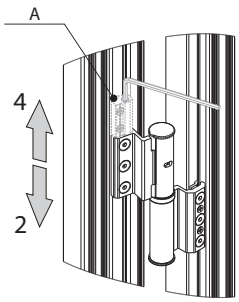
120 kg with 2 hinges
150 kg with 3 hinges
CE Mark in compliance EN1935



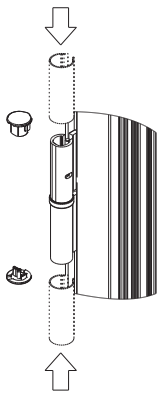
Side and compression adjustment



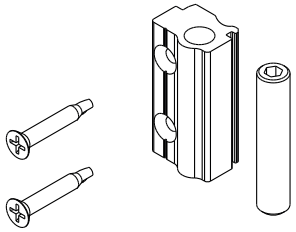
A=(item 00570) Lift support block for height adjustment



Application of covers



Lift support block for height adjustment (item 00570)



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Item code	Description	PROFILE CROSS - SECTION	Flush opening	Third sash	Load capacity 2 hinges [kg]	Load capacity 3 hinges [kg]	CE marking	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00568N	LINEA 3D HINGE	C001	-	-	120	150	Class 13		X			20
00569N	LINEA 3D HINGE	C002	-	-	120	150	Class 13		X			20
00570	LINEA 3D ADJUSTER PLATE	C001-C002-C007-C013-C014-C015-C016-C017	-	-	-	-	-		X			10
00571N	LINEA 3D HINGE	C007	-	-	120	150	Class 13		X			20
00573N	LINEA 3D HINGE	C013-C015-C016	x	x	100	120	Class 11		X			20
00589	COVER, LINEA 3D HINGE	C001-C002-C007-C013-C014-C015-C016-C017	-	-	-	-	-	X	X	X	X	20

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FLASH XXL HINGES

Functions

Clamp door hinge for profile with channel, adjustable in two directions with door installed.
For combination with aluminium covers purchased separately from the hinge.

Technical Features

Hinge suitable for doors subject to intensive use (use category 4* - heavy duty use).
Ideal for the assembly of doors characterized by large dimensions, heavy weight and intensive use.
The thrust bearing located between the two hinge bodies increases resistance of the hinge to fatigue and wear (durability grade 7* - 200,000 test cycles).
The frame hinge leaf is fixed to the profile with self-tapping screws passing through the hinge body, to increase the stability of the system.
Totally or partially removable pin, allowing assembly of sash to frame even in situations where space is markedly restricted.
Adjustments in two directions with door installed:
- side adjustment (±1 mm), obtainable by turning the eccentric bush in the sash part of the hinge with special key item 03900.
- height adjustment (-2/+4 mm) obtainable by means of sash lift support block supplied with the hinge, to be positioned against the top hinge sash leaf
The hinge is to be coupled to the covers for the sash hinge and frame hinge (art. 00599), can be painted and coated, sold separately. Fitting the cover on completing installation avoids damaging the visible parts of the hinge during assembly, transport and installation.
Special preload plate supplied with the product, to be positioned against the sash part of the bottom hinge, guaranteeing correct alignment of sash and frame under high loading conditions.
The plate can also be purchased separately (item 00591) as a replacement for the standard plates supplied with the hinge, when assembling doors with three hinges, including a centrally positioned third hinge.
* Complies with EN 1935

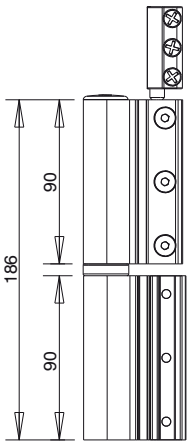
Materials

Extruded aluminium hinge bodies, anodized black
Ø10 pin, thrust bearing, screws and grub screw, all stainless steel
Eccentric bush, acetal resin
Extruded aluminium fixing plates
Extruded aluminium preload plate
Lift support block, diecast zamak
Height adjustment grub screw, zinc-coated steel
Polyamide cap
Extruded aluminium cover

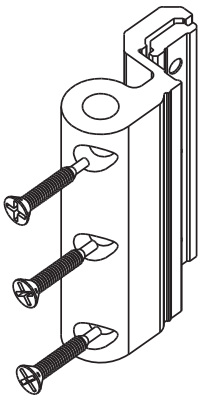
Capacities

160 kg with 2 hinges
180 kg with 3 hinges
CE Mark in compliance EN1935

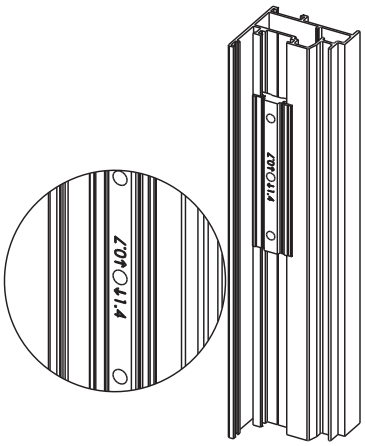
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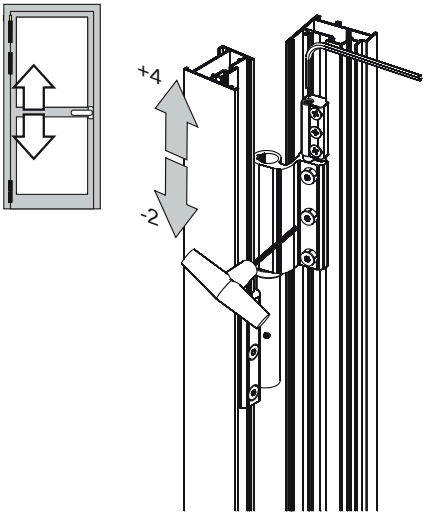
Self-tapping screws

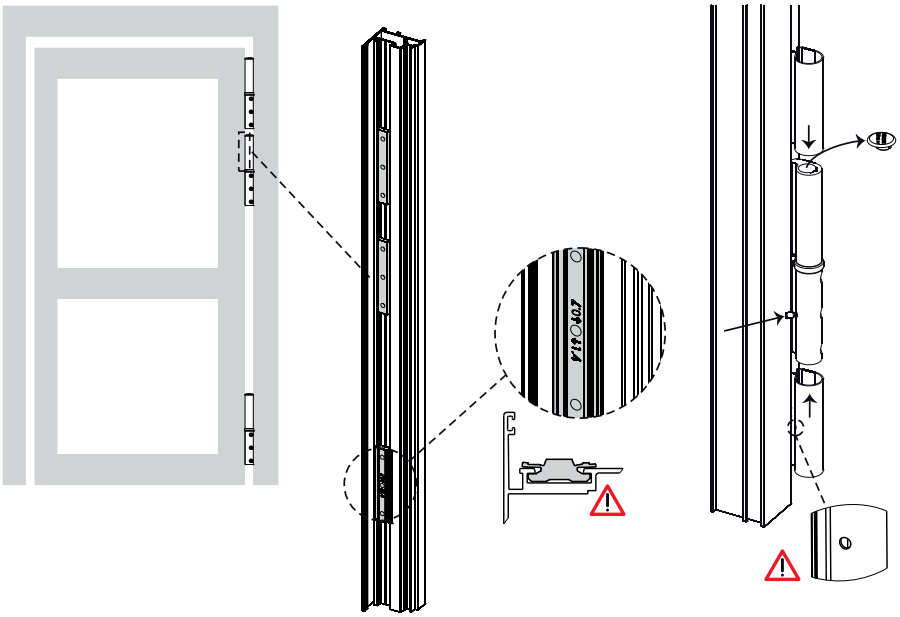


Preload plate

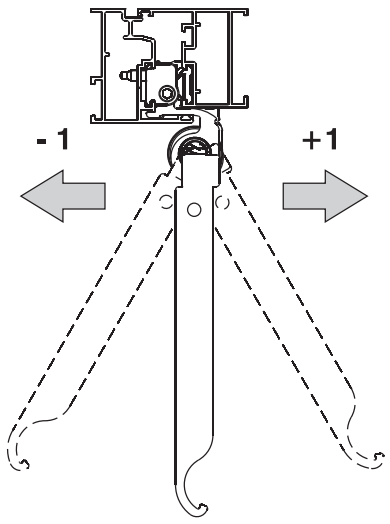


Height adjustment





Side adjustment



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CLAMP DOOR HINGES
FLASH XXL HINGES

Item code	Description	PROFILE CROSS - SECTION	Step	Flush opening	Third sash	Load capacity 2 hinges [kg]	Load capacity 3 hinges [kg]	CE marking	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00561	FLASH XXL FIXING PLATES	C001-C002	-	-	-	-	-	-	X				10
00591	FLASH XXL PRE-LOAD FIXING PLATES	C001-C002	-	-	-	-	-	-	X				10
00598N	FLASH XXL HINGE	C001	8 mm max	-	-	160	180	Class 14		X			20
00599	COVER, FLASH XXL HINGE	C001-C002	-	-	-	-	-	-	X	X	X	X	20

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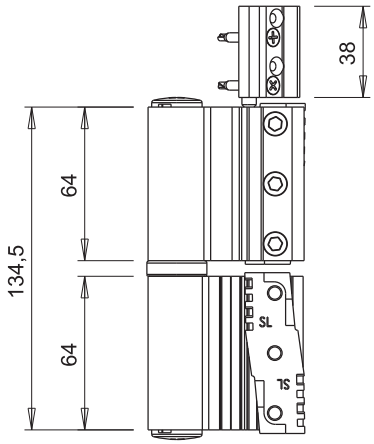
FLASH XLR HINGES

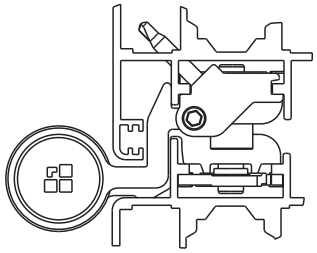
Functions
Clamp door hinge for profile with channel.
Adjustable in two directions.

Technical Features
Hinge suitable for doors subject to intensive use (use category 4* - heavy duty use).
Fixing plates of special geometry, insertable from the side into the channel of the sash and frame profiles when already assembled, guarantee the firmest possible attachment to the profile.
The thrust bearing located between the two hinge bodies increases resistance of the hinge to fatigue and wear (durability grade 7* - 200,000 test cycles).
Adjustments in two directions with door installed:
- side adjustment (±2 mm), obtainable by turning the eccentric bushes in the hinges with special key item 03900
- height adjustment (-2/+4 mm) obtainable by means of sash lift support block supplied with the hinge, to be positioned against the sash leaf.
* Complies with EN 1935

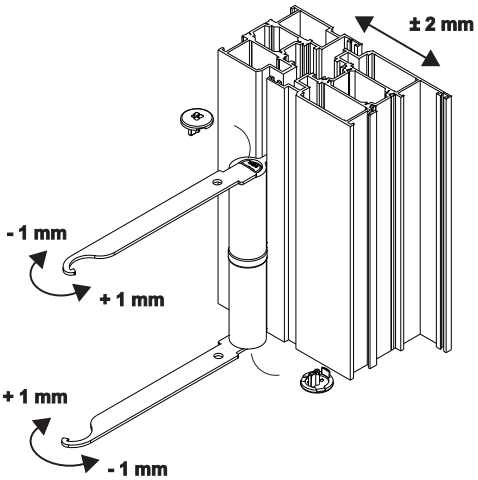
Materials
Extruded aluminium hinge bodies
Ø10 pin, thrust bearing, fixing plates and fixing screws, all stainless steel
Lift support block, extruded aluminium
Height adjustment grub screw, stainless steel
Eccentric bushes, acetal resin
Polyamide caps

Capacities
120 kg with 2 hinges
140 kg with 3 hinges

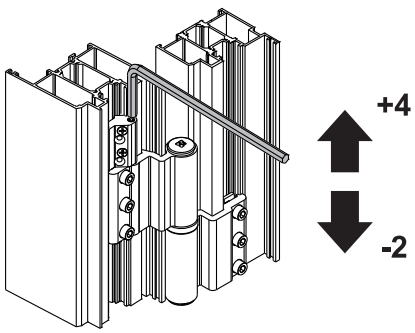




Side adjustment



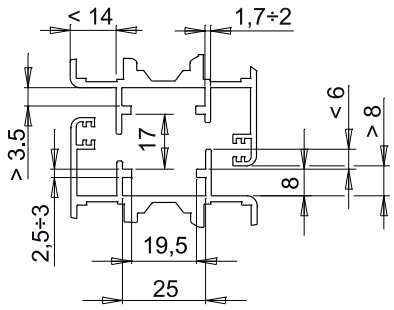
Height adjustment



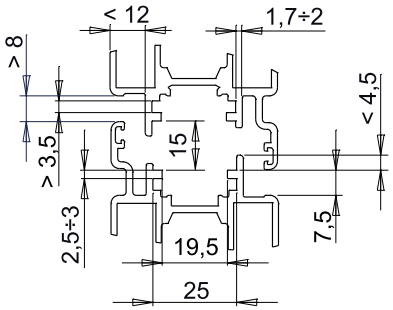
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CLAMP DOOR HINGES
FLASH XLR HINGES

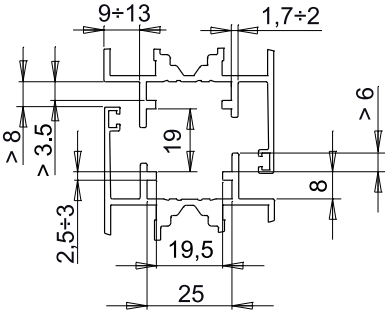
Section 1



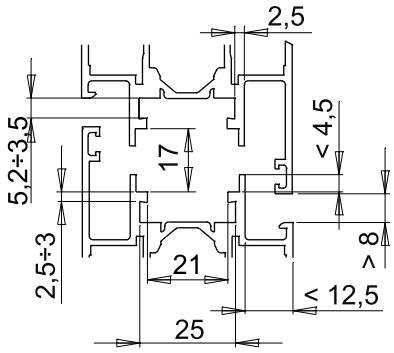
Section 2



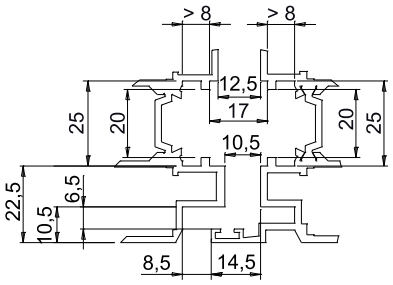
Section 3



Section 5



Section 6



Item code	Description	Application reference section	Load capacity 2 hinges [kg]	Load capacity 3 hinges [kg]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00925N	FLASH XLR HINGE	section 1	120	140	X	X	X		20
00926N	FLASH XLR HINGE	section 2	120	140	X	X	X		20
00927N	FLASH XLR HINGE	section 3	120	140	X	X	X		20
00929N	FLASH XLR HINGE	section 5	120	140	X	X	X		20
00930	FLASH XLR HINGE	section 6	120	140	X	X	X		20

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FLASH SLR HINGES

Functions

Clamp door hinge for profile with channel.
Adjustable in one direction.

Technical Features

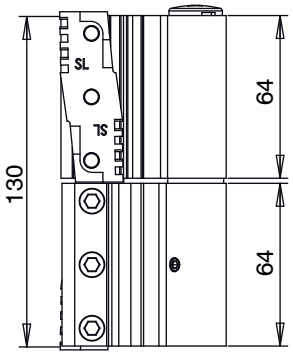
Hinge suitable for doors subject to intensive use (use category 4* - heavy duty use).
Fixing plates of special geometry, insertable from the side into the channel of the sash and frame profiles when already assembled, guarantee the firmest possible attachment to the profile.
Side adjustment (±1 mm) obtainable with door installed by turning the eccentric bush in the sash part of the hinge with special key item 03900.
With the removable pin, the sash can be separated from the frame without lifting (e.g. where space is restricted).
* Complies with EN 1935

Materials

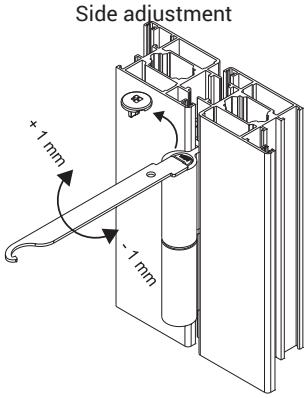
Extruded aluminium hinge bodies
Ø10 pin, fixing plates and fixing screws, all stainless steel
Eccentric bush and washer, acetal resin
Polyamide cap

Capacities

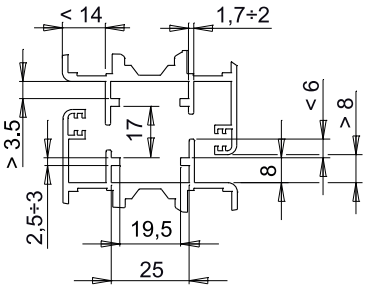
120 kg with 2 hinges
140 kg with 3 hinges

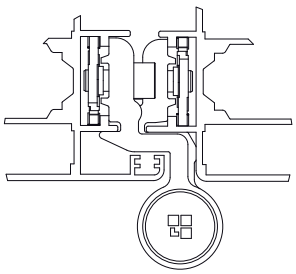


Side adjustment



Section 1





Item code	Description	Application reference section	Load capacity 2 hinges [kg]	Load capacity 3 hinges [kg]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00940	FLASH SLR HINGE	section 1	120	140	X	X	X		20

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BRIDGE HINGES

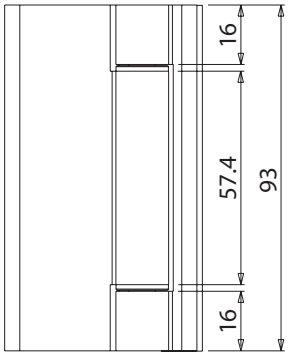
Functions
Front mounting clamp hinge, for lightweight doors and windows.

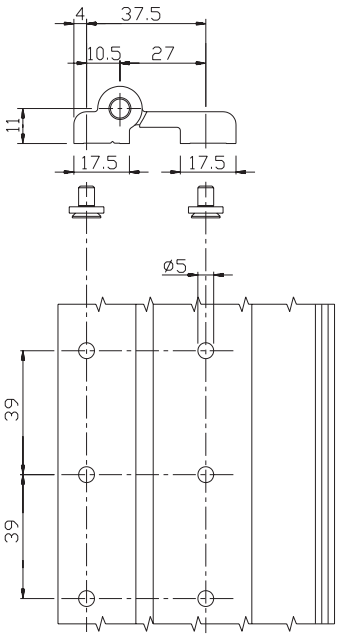
Technical Features
With a completely removable pin, the sash can be separated from the frame without detaching the hinge from the profile.
The pin is held fast internally of the hinge body by a grubscrew, accessible only when the sash is open.
Fixing to the hinge is by means of the plates, supplied with the hinge, which are inserted into the hollow section and/or the shoulder of the profile.
The profile is drilled with the aid of template item 03218.

Materials
Extruded aluminium hinge bodies
Pin, fixing plates, screws and grub screw, all stainless steel
Acetal resin bushes

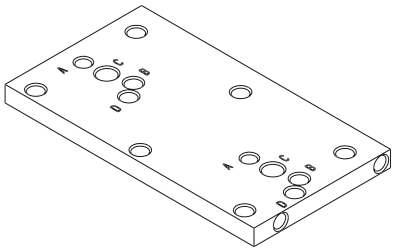
Parts
2 fixing plates
6 TPS M5x10 screws
1 Grub screw M5x6

Capacities
75 kg with 2 hinges
85 kg with 3 hinges





Profile machining template item 03218



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00112N	SURFACE MOUNTING BRIDGE HINGE		X	X	X		20

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DOMINA CLASSIC HINGE

Functions

Surface mounting hinge, 2 or 3 wing version for heavy doors made of aluminium.
Adjustable in three directions.
For combination with counterplate kit, with expansion dowels for single sealed unit profiles and with M12 direct fixing screw for thermal break profiles.

Technical Features

Hinge suitable for doors subject to intensive use (use category 4* - heavy duty use) with high resistance to fatigue and wear (durability grade 7* - 200,000 test cycles).
Ideal for the assembly of doors characterized by large dimensions, heavy weight and intensive use.
Adjustments in three directions:
- micrometric side adjustment (±2.5 mm) with door installed, obtainable by turning the adjustment screw located in the sash hinge cartridge
- micrometric vertical adjustment (0-4 mm) with door installed, obtainable by turning the grub screw located at the bottom of the frame part of the hinge, using the special adapter supplied with the product
- compression adjustment (± 0.5 mm), obtainable by turning the eccentric bush in the frame part of the hinge to the angular position required.
Screw-cover plates fixed to hinge using pull screws driven from the inside (for locking purposes use clip item 05051), removable only with the sash open (tamper-proof).
For combination with counterplate kit, with expansion dowels for single sealed unit profiles and with M12 direct fixing screws for thermal break profiles.
Profile can be prepared with Ø11 mm holes (for all fixing systems) using drill templates item 03237 and item 05052
When applied to a non-flush profile, the hinge is fitted in combination with shim steps selected according to the type of fixing used for the profile:
- steps with centering bushes: for counterplate kit and expansion dowels for single sealed unit profile
- steps without centering bushes: for M12 direct fixing screws.
* Complies with EN 1935

Ask to your sales rep for product availability.

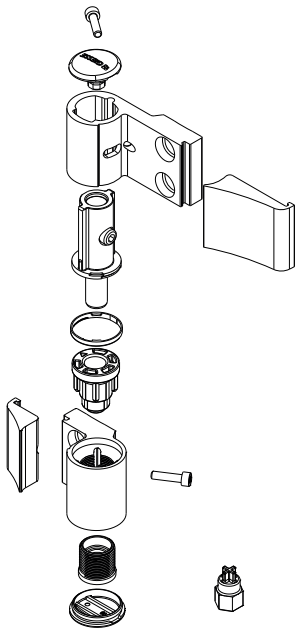
Materials

Extruded aluminium hinge bodies and screw-cover plates
Zamak pin cartridge with GS Silver Plus finish (up to 500 h corrosion resistance)
Ø11 pin, stainless steel
Side adjustment screw made of treated steel ensuring high resistance to corrosion
Eccentric cartridge, cover ring and vertical set-screw, acetal resin
Screw concealer plate fixing screws, zinc-coated steel
Polyamide concealer caps

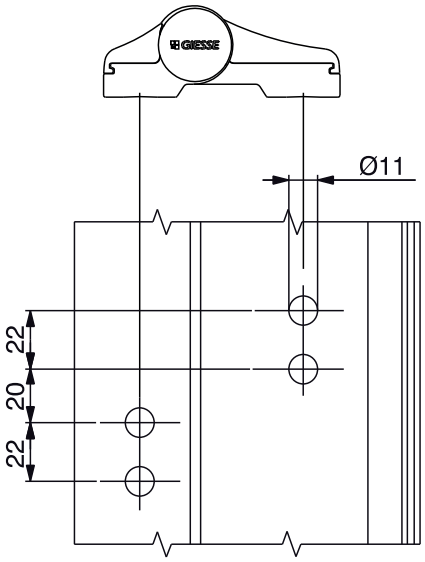
Capacities

Up to 120 kg with two 2-wing hinges
Up to 140 kg with three 2-wing hinges
Up to 160 kg with two 3-wing hinges
Up to 180 kg with three 3-wing hinges
CE Mark in compliance EN1935

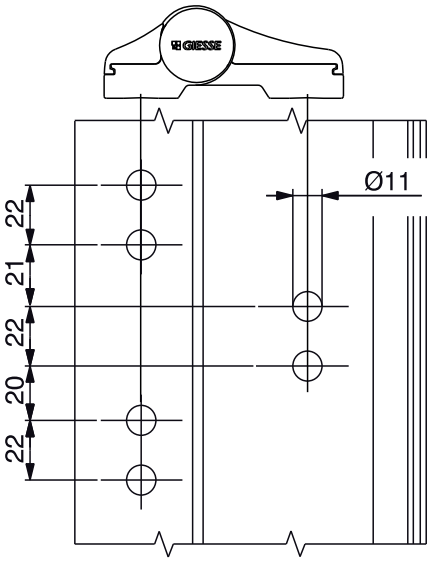
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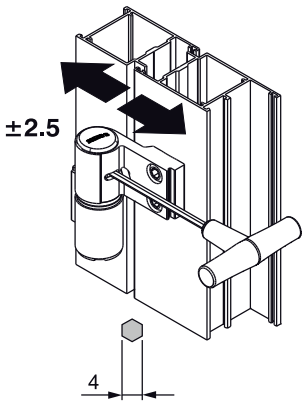
Machining on profile (2 wings)



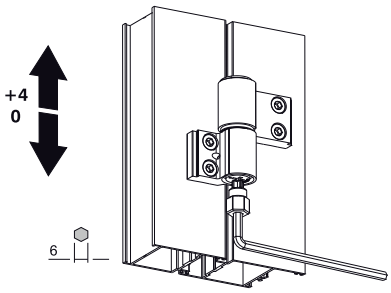
Machining on profile (3 wings)



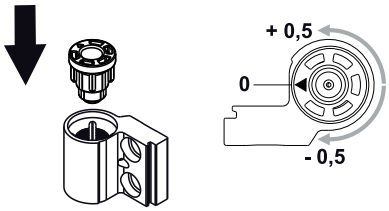
Side adjustment



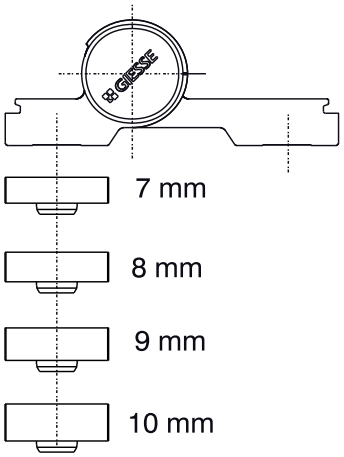
Height adjustment



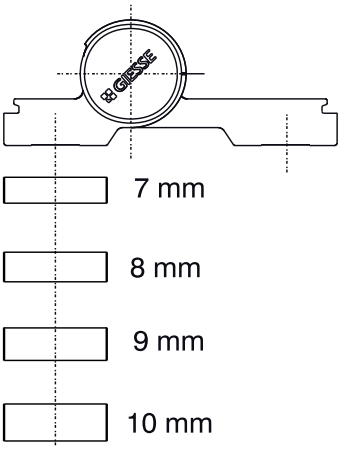
Compression adjustment



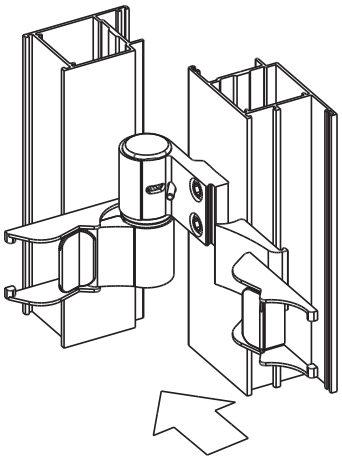
Steps with bushes



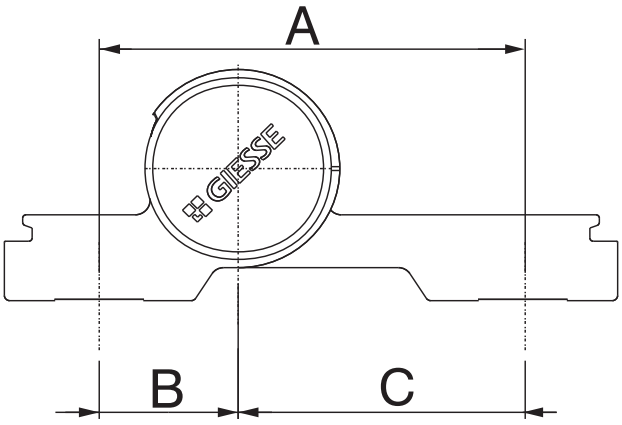
Steps without bushes



Use of locking clips



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Item code	Description	Version	C/C distance A [mm]	B [mm]	C [mm]	Load capacity 2 hinges [kg]	Load capacity 3 hinges [kg]	CE marking	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
06170	DOMINA CLASSIC	2 leaf	62,5	20,5	42	120	140	Class 13	X	X	X	X	10
06171	DOMINA CLASSIC	3 leaf	62,5	20,5	42	160	180	Class 14	X	X	X		10
06172	DOMINA CLASSIC	2 leaf	70,5	20,5	50	100	120	Class 12	X	X	X		10
06173	DOMINA CLASSIC	3 leaf	70,5	20,5	50	120	140	Class 13	X	X	X		10
06174	DOMINA CLASSIC	2 leaf	78	20,5	57,5	100	120	Class 12	X	X	X		10
06175	DOMINA CLASSIC	3 leaf	78	20,5	57,5	120	140	Class 13	X	X	X		10
06176	DOMINA CLASSIC	2 leaf	84	42	42	100	120	Class 12	X	X	X		10
06177	DOMINA CLASSIC	3 leaf	84	42	42	120	140	Class 13	X	X	X		10
06178	DOMINA CLASSIC	2 leaf	92	42	50	80	100	Class 11	X	X	X		10
06179	DOMINA CLASSIC	3 leaf	92	42	50	100	120	Class 12	X	X	X		10
06180	DOMINA CLASSIC	2 leaf	99,5	42	57,5	80	100	Class 11	X	X	X		10
06181	DOMINA CLASSIC	3 leaf	99,5	42	57,5	100	120	Class 12	X	X	X		10
06168	INDUSTRIAL DOMINA CLASSIC	2 leaf	62,5	20,5	42	120	140	Class 13	X	X	X		20
06169	INDUSTRIAL DOMINA CLASSIC	3 leaf	62,5	20,5	42	160	180	Class 14	X		X		20

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DOMINA HP HINGE

Functions

Surface mounting hinge, 2 or 3 wing version (Giesse patent) for heavy doors made of aluminium. Adjustable in three directions.
For combination with counterplate kit, with expansion dowels for single sealed unit profiles and with M12 direct fixing screw for thermal break profiles.

Technical Features

Hinge suitable for doors subject to intensive use (use category 4* - heavy duty use) with high resistance to fatigue and wear (durability grade 7* - 200,000 test cycles). Ideal for the assembly of doors characterized by large dimensions, heavy weight and intensive use.
Adjustable in 3 directions with or without door installed:
- micrometric side adjustment (±2.5 mm) with door installed, obtainable by turning the side adjustment screw located in the sash hinge cartridge. The locking grub screw on the sash hinge locks the side adjustment cartridge in the chosen position.
- compression micrometric adjustment (±0.5 mm) obtainable by turning the bushing of the frame hinge (adjuster key art.05053). The locking grub screw, located on the frame hinge, locks the compression adjustment leaving access to the height adjustment.
- micrometric vertical adjustment (0/+4 mm), obtainable by turning the grub screw located at the bottom of the hinge. Insertion of the lower plug guarantees that the height adjustment is maintained.
The internal parts of the hinge are completely preassembled in two groups:
• pin cartridge for side adjustment
• cartridge with thrust bush for height and compression adjustments
Screw-cover plates fixed to hinge using pull screws driven from the inside, removable only with the sash open (tamper-proof).
For combination with counterplate kit, with expansion dowels for single sealed unit profiles and with M12 direct fixing screws for thermal break profiles.
Profile can be prepared with Ø11 mm holes (for all fixing systems) using drill templates item 03237, item 05052 and item 03286 (for c/c distance 55.5).
When applied to a non-flush profile, the hinge is fitted in combination with shim steps selected according to the type of fixing used for the profile:
- steps with centering bushes: for counterplate kit and expansion dowels for single sealed unit profile
- steps without centering bushes: for M12 direct fixing screws.
* Complies with EN 1935

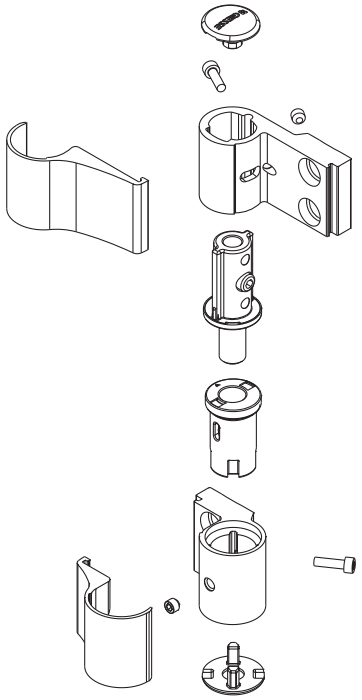
Materials

Extruded aluminium hinge bodies and screw-cover plates
Zamak pin cartridge and bush cartridge with GS Silver Plus finish (up to 500 h corrosion resistance)
Ø12 pin, stainless steel
Side adjustment screw made of treated steel ensuring high resistance to corrosion
Thrust bush, acetal resin
Grub screws and vertical adjustment setscrew, stainless steel
Screw concealer plate fixing screws, zinc-coated steel
Polyamide concealer caps

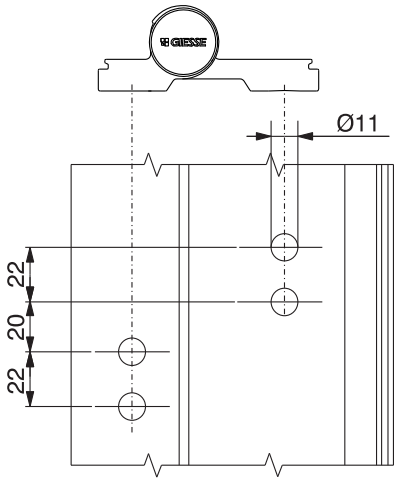
Capacities

Up to 160 kg with two 2-wing hinges
Up to 180 kg with three 2-wing hinges
Up to 180 kg with two 3-wing hinges
Up to 200 kg with three 3-wing hinges
CE Mark in compliance EN1935

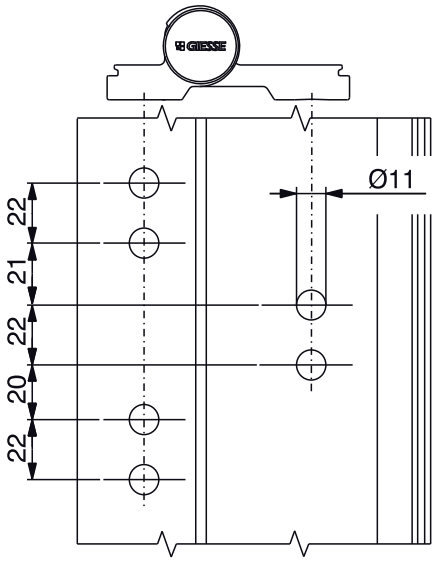
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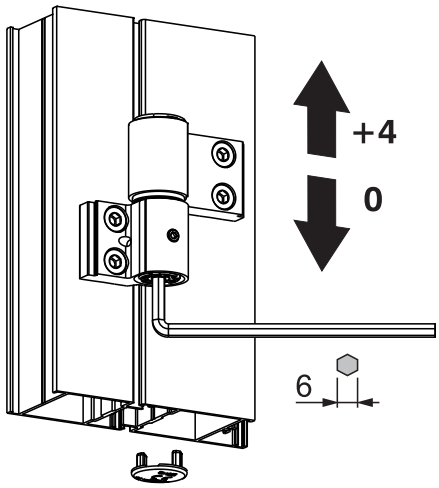
Preparation of profile for two-leaf hinge



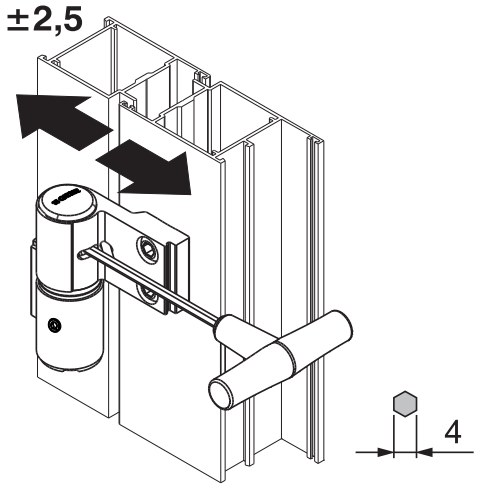
Machining on profile for three-wing hinge



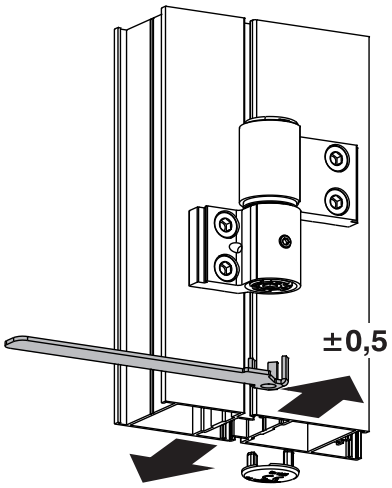
Height adjustment



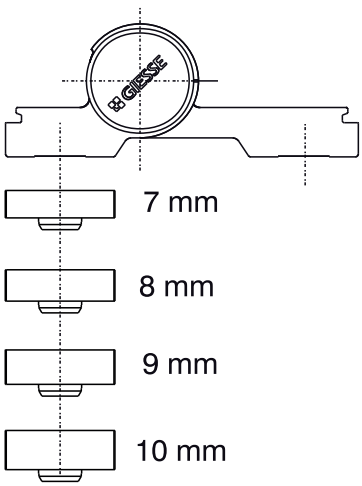
Side adjustment



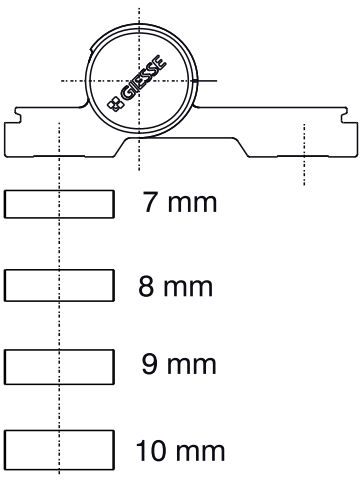
Compression adjustment



Steps with bushes

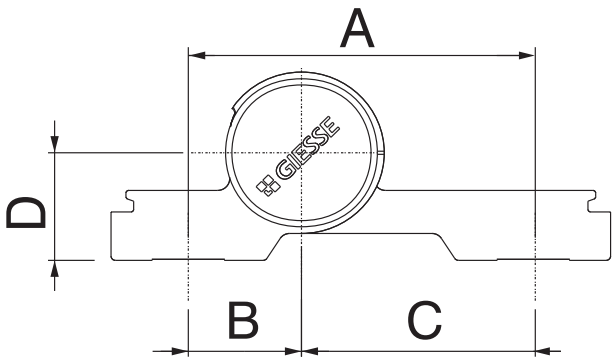


Steps without bushes



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FRONTAL APPLICATION DOOR HINGES
DOMINA HP HINGE



Item code	Description	Version	C/C distance A [mm]	B [mm]	C [mm]	Lift D [mm]	Load capacity 2 hinges [kg]	Load capacity 3 hinges [kg]	CE marking	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
05158V	DOMINA HP	2 leaf	55,5	13,5	42		120	140	Class 12	X	X	X		10
05159V	DOMINA HP	2 leaf	55,5	13,5	42	28	120	140	Class 12	X	X	X		10
05160V	DOMINA HP	2 leaf	62,5	20,5	42		160	180	Class 14	X	X	X	X	10
05161V	DOMINA HP	3 leaf	62,5	20,5	42		180	200	Class 14	X	X	X	X	10
05162V	DOMINA HP	2 leaf	70,5	20,5	50		120	140	Class 13	X	X	X	X	10
05163V	DOMINA HP	3 leaf	70,5	20,5	50		140	160	Class 12		X	X	X	10
05164V	DOMINA HP	2 leaf	78	20,5	57,5		120	140	Class 13	X	X	X	X	10
05165V	DOMINA HP	3 leaf	78	20,5	57,5		140	160	Class 12		X	X	X	10
05166V	DOMINA HP	2 leaf	84	42	42		120	140	Class 13	X	X	X	X	10
05167V	DOMINA HP	3 leaf	84	42	42		140	160	Class 12	X	X	X	X	10
05168V	DOMINA HP	2 leaf	92	42	50		100	120	Class 12	X	X	X	X	10
05169V	DOMINA HP	3 leaf	92	42	50		120	140	Class 12		X	X	X	10
05170V	DOMINA HP	2 leaf	99,5	42	57,5		100	120	Class 12	X	X	X		10
05171V	DOMINA HP	3 leaf	99,5	42	57,5		120	140	Class 12	X	X	X		10
05172V	DOMINA HP	2 leaf	62,5	20,5	42	36	160	180	Class 13	X	X	X		10
05174V	DOMINA HP	2 leaf	62,5	20,5	42	27	160	180	Class 13	X	X	X		10
05175V	DOMINA HP	3 leaf	62,5	20,5	42	27	180	200	Class 14	X	X	X		10
05176V	DOMINA HP	2 leaf	62,5	20,5	42	28	160	180	Class 13	X	X	X		10
05177V	DOMINA HP	3 leaf	62,5	20,5	42	28	180	200	Class 14	X	X	X		10
05178V	DOMINA HP	2 leaf	62,5	20,5	42	30	160	180	Class 13	X	X	X		10
05179V	DOMINA HP	3 leaf	62,5	20,5	42	30	180	200	Class 14	X	X	X		10

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DOMINA HP HINGE, CORNER

Functions

Surface mounting corner hinge, 2-wing version for heavy doors made of aluminium.
Adjustable in three directions.
For combination with counterplate kit, with expansion dowels for single-groove profiles and with M12 direct fixing screw for thermal break profile (sash side only).

Technical Features

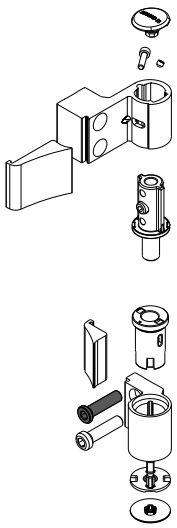
Hinge suitable for doors subject to intensive use (use category 4* - heavy duty use) with high resistance to fatigue and wear (durability grade 7* - 200,000 test cycles). Ideal for the assembly of doors characterized by large dimensions, heavy weight and intensive use.
Adjustable in 3 directions with or without door installed:
- micrometric side adjustment (±2.5 mm) with door installed, obtainable by turning the side adjustment screw located in the sash hinge cartridge. The locking grub screw, located on the sash hinge, locks the side adjustment cartridge in the chosen position.
- compression micrometric adjustment (±0.5 mm), obtainable by turning the bushing of the frame hinge (adjuster key art.05053). The special plug locks the compression adjustment, leaving access to the height adjustment.
- micrometric vertical adjustment (0/+4 mm), obtainable by turning the grub screw located at the bottom of the frame part of the hinge
The frame hinge component is equipped with centering bushes.
The internal parts of the hinge are completely preassembled in two groups:
- pin cartridge for side adjustment
- cartridge with thrust bush for height and compression adjustments
The screw concealer plate of the frame hinge leaf cannot be removed from the outside and the screw concealer plate of the sash hinge leaf is secured by a pull screw driven from the inside, likewise removable only with the sash open (tamper-proof).
The hinge can be combined with counterplate kit, with expansion dowels for single sealed unit profiles and with M12 direct fixing screws for thermal break profiles.
Profile can be prepared with Ø11 mm holes (for all fixing systems) using drill template item 05050.
The hinge is supplied with two M8 screws of dissimilar length that replace those supplied with the kit selected for fixing to the frame profile.
The locking clip, item 05051, facilitates the operation of fixing the screw-cover plates to the hinge.
* Complies with EN 1935

Materials

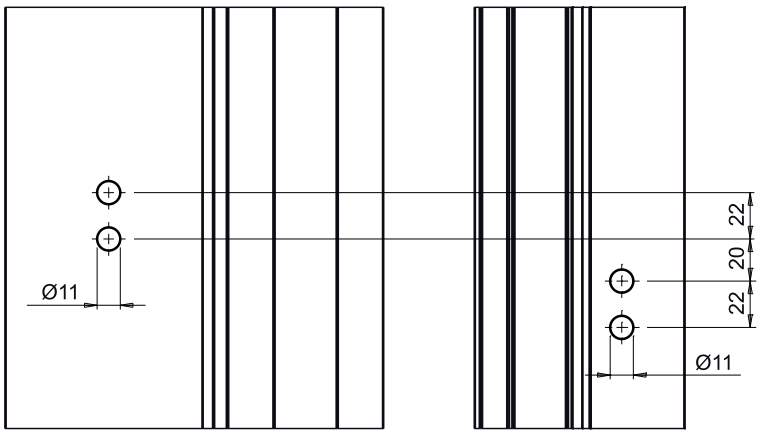
Extruded aluminium hinge bodies and screw-cover plates
Zamak pin cartridge and eccentric bush cartridge with GS Silver Plus finish (up to 500 h corrosion resistance)
Ø12 pin, stainless steel
Side adjustment screw made of treated steel ensuring high resistance to corrosion
Centering bushes, zinc-coated steel
Thrust bush, acetal resin
Grub screw and vertical adjustment setscrew, stainless steel
Polyamide concealer caps
Screw concealer plate fixing screws, zinc-coated steel

Capacities

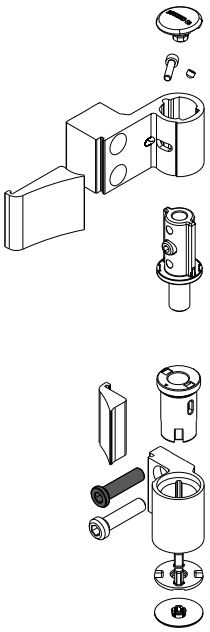
120 kg with two hinges
140 kg with three hinges



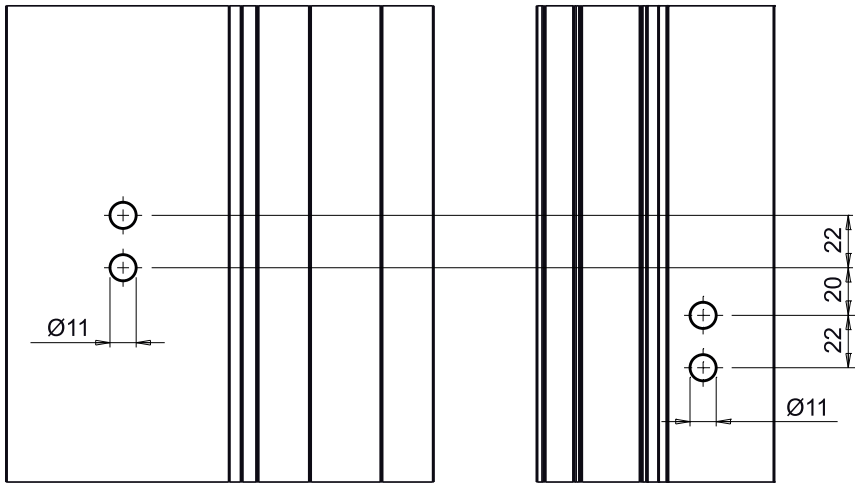
Machining on profile



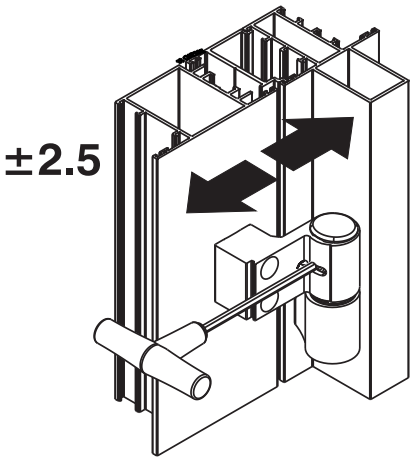
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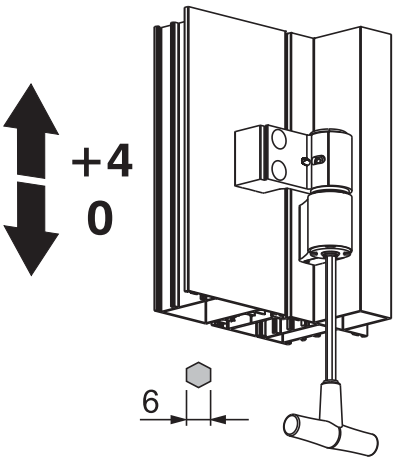
Machining on profile



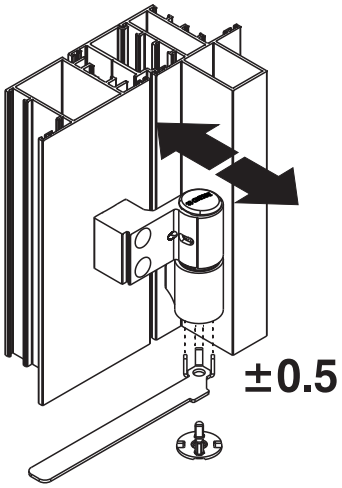
Side adjustment

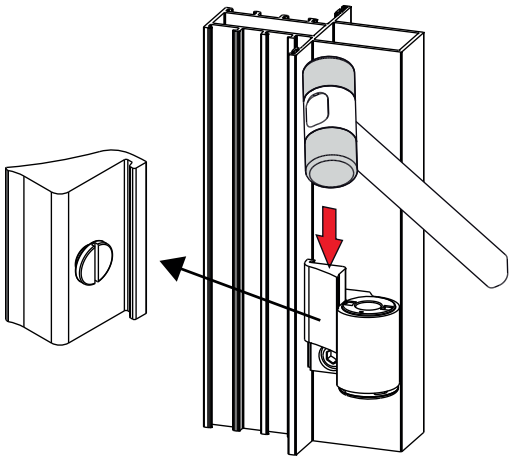


Height adjustment

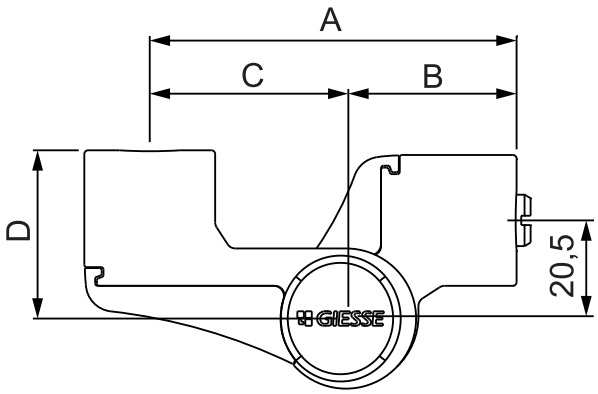


Compression adjustment





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Item code	Description	Version	C/C distance A [mm]	B [mm]	C [mm]	Lift D [mm]	load capacity 2 hinges [kg]	load capacity 3 hinges [kg]	CE marking	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
05180N	DOMINA HP CORNER	2 leaf	62,5	20,5	42		120	140	Class 13	X	X	X		10
05182N	DOMINA HP CORNER	2 leaf	78,5	36,5	42	36	120	140	Class 13		X	X		10

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DOMINA HP HINGE, COVER

Functions

Surface mounting hinge, 2 or 3 wing version (Giesse patent) for heavy doors made of aluminium.
Adjustable in three directions.
For combination with paintable covers purchased separately.
For combination with counterplate kit, with expansion dowels for single sealed unit profiles and with M12 direct fixing screw for thermal break profiles.

Technical Features

Hinge suitable for doors subject to intensive use (use category 4* - heavy duty use) with high resistance to fatigue and wear (durability grade 7* - 200,000 test cycles). Ideal for the assembly of doors characterized by large dimensions, heavy weight and intensive use.
Adjustable in 3 directions with or without door installed:
- micrometric side adjustment (±2.5 mm) with door installed, obtainable by turning the side adjustment screw located in the sash hinge cartridge. The locking grub screw on the sash hinge locks the side adjustment cartridge in the chosen position.
- compression micrometric adjustment (±0.5 mm) obtainable by turning the bushing of the frame hinge (adjuster key art.05053). The locking grub screw, located on the frame hinge, locks the compression adjustment leaving access to the height adjustment.
- micrometric vertical adjustment (0/+4 mm), obtainable by turning the grub screw located at the bottom of the frame hinge. Insertion of the lower plug guarantees that the height adjustment is maintained.
The internal parts of the hinge are completely preassembled in two groups:
• pin cartridge for side adjustment
• cartridge with thrust bush for height and compression adjustments
For combination with counterplate kit, with expansion dowels for single sealed unit profiles and with M12 direct fixing screws for thermal break profiles.
Profile can be prepared with Ø11 mm holes (for all fixing systems) using drill templates item 03237 and item 05052.
The hinge does not have screw-cover plates and is used in combination with paintable covers (purchased separately), secured to the hinge by pull screws driven from the inside and removable only with the sash open (tamper-proof).
When applied to a non-flush profile, the hinge is fitted in combination with shim steps selected according to the type of fixing used for the profile:
- steps with centering bushes: for counterplate kit and expansion dowels for single sealed unit profile
- steps without centering bushes: for M12 direct fixing screws.
and to the relative extruded aluminium concealer which combines with the cover to encase the hinge completely.
* Complies with EN 1935

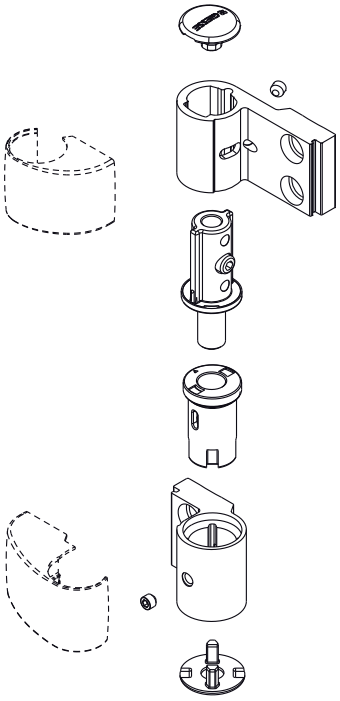
Materials

Hinge
Extruded aluminium hinge bodies, anodized black
Zamak pin cartridge and bush cartridge with GS Silver Plus finish (up to 500 h corrosion resistance)
Ø12 pin, stainless steel
Side adjustment screw made of treated steel ensuring high resistance to corrosion
Thrust bush, acetal resin
Grub screws and vertical adjustment setscrew, stainless steel
Screw concealer plate fixing screws, zinc-coated steel
Polyamide concealer caps
Cover
Zamak covering for hinge
Cover for extruded aluminium shim steps
Hinge cover fixing screws, zinc-coated steel

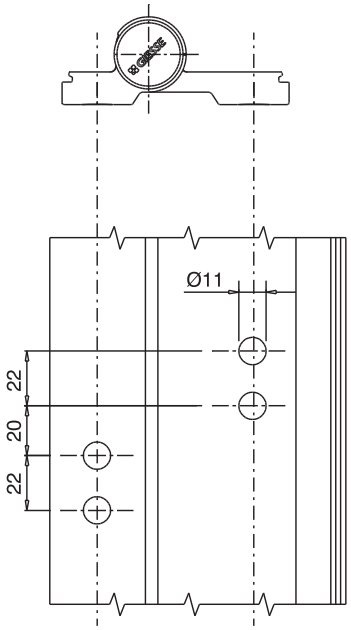
Capacities

Up to 160 kg with two 2-wing hinges
Up to 180 kg with three 2-wing hinges
Up to 180 kg with two 3-wing hinges
Up to 200 kg with three 3-wing hinges
CE Mark in compliance EN1935

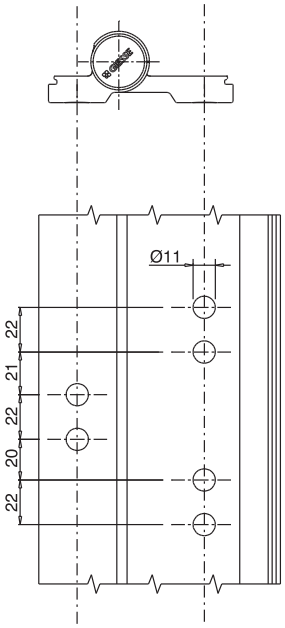
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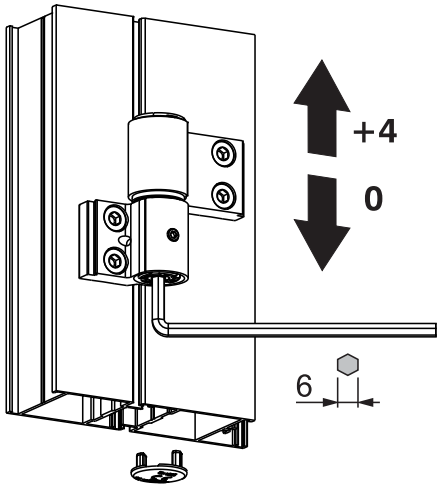
Preparation of profiles for 2-wing hinge



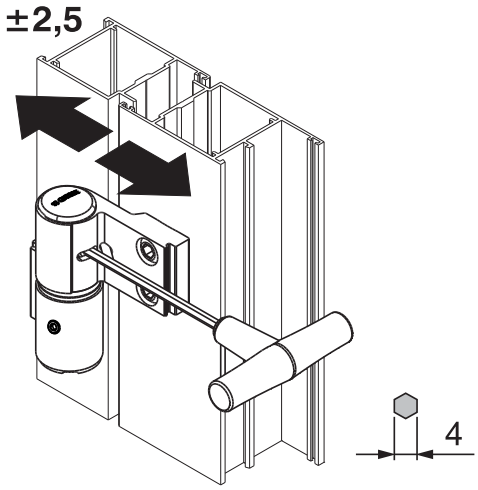
Preparation of profiles for 3-wing hinge



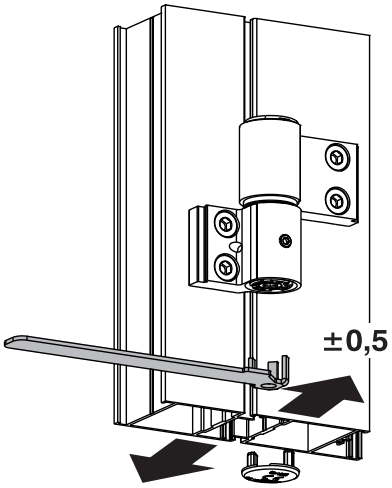
Height adjustment



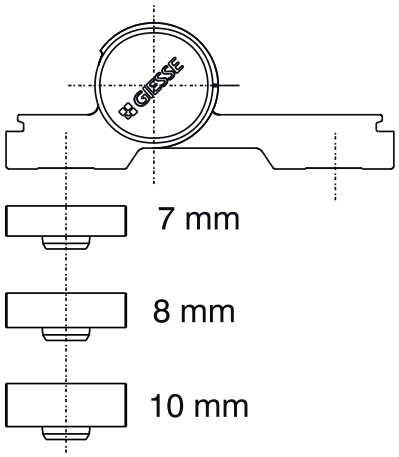
Side adjustment



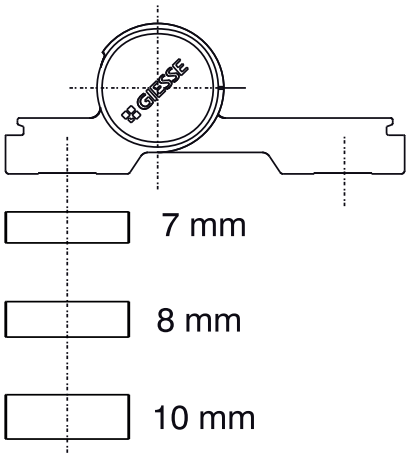
Compression adjustment



Steps with bushes

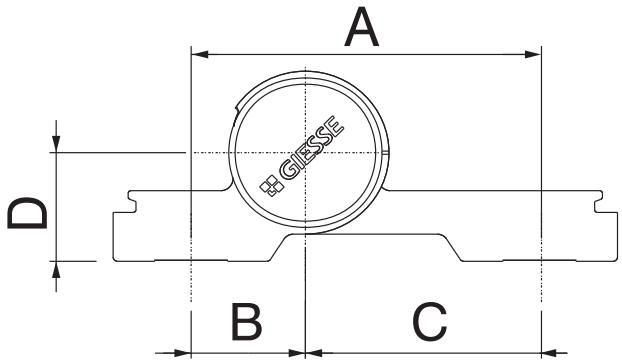


Steps without bushes



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FRONTAL APPLICATION DOOR HINGES
DOMINA HP HINGE, COVER



Item code	Description	COVER code	Version	C/C distance A [mm]	B [mm]	C [mm]	Lift D [mm]	Load capacity 2 hinges [kg]	Load capacity 3 hinges [kg]	CE marking	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
05120V	DOMINA HP COVER	06120N	2 leaf	62,5	20,5	42		160	180	Class 14		X			10
05121V	DOMINA HP COVER	06121N	3 leaf	62,5	20,5	42		180	200	Class 14		X			10
05122V	DOMINA HP COVER	06122N	2 leaf	70,5	20,5	50		120	140	Class 13		X			10
05123V	DOMINA HP COVER	06123N	3 leaf	70,5	20,5	50		140	160	Class 12		X			10
05124V	DOMINA HP COVER	06124N	2 leaf	78	20,5	57,5		120	140	Class 13		X			10
05125V	DOMINA HP COVER	06125N	3 leaf	78	20,5	57,5		140	160	Class 12		X			10
05126V	DOMINA HP COVER	06126N	2 leaf	84	42	42		120	140	Class 13		X			10
05127V	DOMINA HP COVER	06127N	3 leaf	84	42	42		140	160	Class 12		X			10
05128V	DOMINA HP COVER	06128N	2 leaf	92	42	50		100	120	Class 12		X			10
05129V	DOMINA HP COVER	06129N	3 leaf	92	42	50		120	140	Class 12		X			10
05130V	DOMINA HP COVER	06130N	2 leaf	99,5	42	57,5		100	120	Class 12		X			10
05131V	DOMINA HP COVER	06131N	3 leaf	99,5	42	57,5		120	140	Class 12		X			10
05132V	DOMINA HP COVER	06132N	2 leaf	62,5	20,5	42	36	160	180	Class 13		X			10
05134V	DOMINA HP COVER	06134N	2 leaf	62,5	20,5	42	27	160	180	Class 13		X			10
05135V	DOMINA HP COVER	06135N	3 leaf	62,5	20,5	42	27	180	200	Class 14		X			10
05136V	DOMINA HP COVER	06136N	2 leaf	62,5	20,5	42	28	160	180	Class 13		X			10
05137V	DOMINA HP COVER	06137N	3 leaf	62,5	20,5	42	28	180	200	Class 14		X			10
05138V	DOMINA HP COVER	06138N	2 leaf	62,5	20,5	42	30	160	180	Class 13		X			10
05139V	DOMINA HP COVER	06139N	3 leaf	62,5	20,5	42	30	180	200	Class 14		X			10

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DOMINA STEPS

Functions

Steps for combination with DOMINA HP, DOMINA HP COVER and DOMINA CLASSIC hinges for application to non-flush profiles.

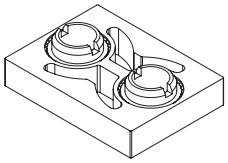
Technical Features

Steps of 7, 8, 9, 10 and 12 mm height for combination with hinges of the DOMINA HP, DOMINA HP COVER and DOMINA CLASSIC range, flush version, designed to compensate for the step in the profile.
Available in two versions:
• with centering bushes, used in combination with counterplate kit and expansion dowels for single sealed unit profiles
• without centering bushes, designed to accept M12 direct fixing screw for thermal break profile
The step, when used in combination with the Cover version hinge, is finished with the relative step concealer.

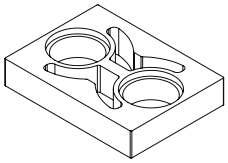
Materials

Extruded aluminium step
Centering bushes, zinc-coated steel; hinge bodies and screw-cover plates, extruded aluminium
Extruded aluminium cover

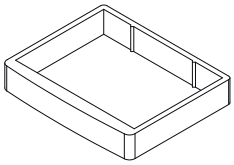
Step with bushes

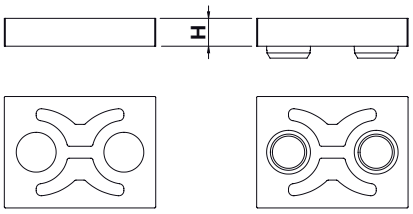


Step without bushes



Step cover





Item code	Description	H [mm]	Hinges HP	Hinges COVER	Hinges CLASSIC	Fixing with M12 screw	Fixing with Counterplate	Fixing with Expansion dowels	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
05095	STEP 7 WITHOUT BUSHES	7	x	x	x	x			X	X	X		10
05096	STEP 8 WITHOUT BUSHES	8	x	x	x	x			X	X	X		10
05097	STEP 10 WITHOUT BUSHES	10	x	x	x	x			X	X	X		10
05098	STEP 9 WITHOUT BUSHES	9	x		x	x			X	X	X		10
05195	STEP 7 WITH BUSHES	7	x	x	x		x	x	X	X	X	X	10
05196	STEP 8 WITH BUSHES	8	x	x	x		x	x	X	X	X	X	10
05197	STEP 10 WITH BUSHES	10	x	x	x		x	x	X	X	X	X	10
05198	STEP 9 WITH BUSHES	9	x	x	x		x	x	X	X	X	X	10
06195N	COVER STEP COVER	7		x							X		10
06196N	COVER STEP COVER	8		x							X		10
06197N	COVER STEP COVER	10		x							X		10

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COUNTERPLATE KIT

Functions

Counterplate inserted in the hollow section of the tubular profile for fixing Domina HP, Domina HP Cover and Domina Classic hinges.

Technical Features

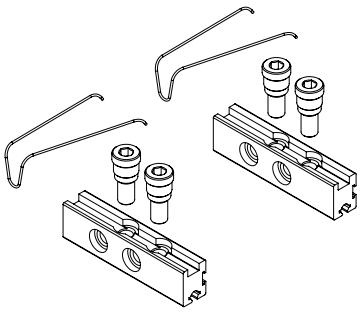
Available in version for 2 and 3 wing hinge, flush and with step, the kit comprises:
- two extruded aluminium fixing plates size 15x20 mm can be used on both sides to allow the greatest possible number of applications
- retaining springs
- M8x28 fixing screws with special hexagon head

When fitting the hinge with counterplates, the profile must be prepared by drilling a Ø11 mm hole with the aid of machining templates item 03237, item 05052, item 03286 (specifically for c/c distance 55.5) and item 05050 (specifically for corner hinges).
The frame mounted fixing plate of the 3-leaf version is longer than the plate supplied with the 2-leaf version, so that both of the two leaves can be secured using just the one component.

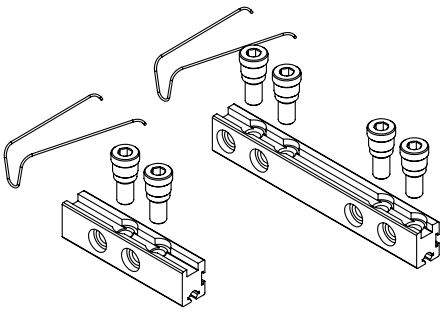
Materials

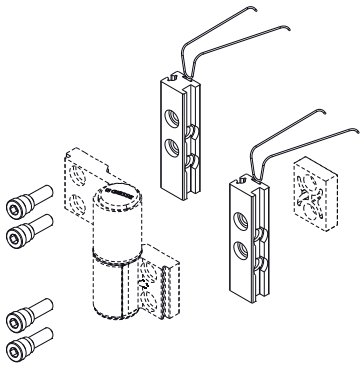
Extruded aluminium fixing plates
Retaining springs made of spring steel
Fixing screws, zinc-coated steel

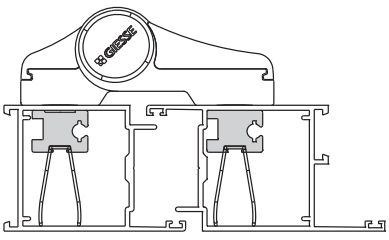
Two-wing version



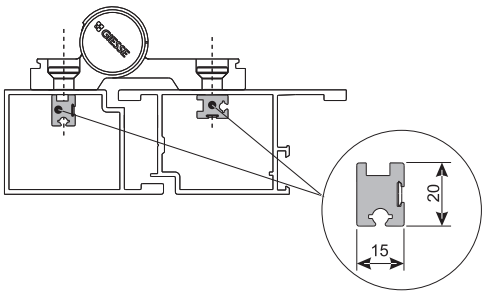
Three-wing version







Application to profile



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Item code	Description	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0520001	COUNTERPLATE KIT	for 2-wing hinge	X				10
0520101	COUNTERPLATE KIT	for 3-wing hinge	X				10
0520201	COUNTERPLATE KIT	for 2-wing hinge with step	X				10
0520301	COUNTERPLATE KIT	for 3-wing hinge with step	X				10

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DIRECT FIXING SCREWS

Functions

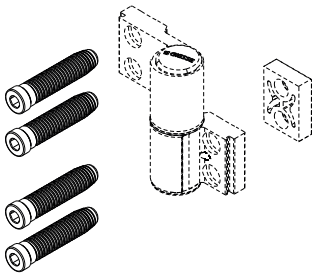
M12 screw for direct fixing of DOMINA HP, DOMINA HP COVER and DOMINA CLASSIC hinges to thermal break profiles.

Technical Features

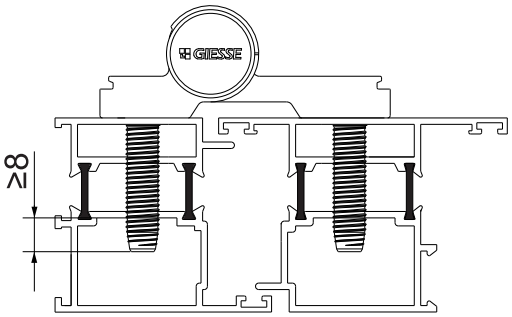
Using the M12 direct fixing screw, DOMINA HP, DOMINA HP COVER and DOMINA CLASSIC hinges can be fitted to thermal break type profiles without using counterplates located internally of the hollow section (*).
Available in four different lengths:
W = 55 mm
W = 65 mm
W = 75 mm
W = 90 mm
When fitting hinges with the direct fixing screw, the profile must be prepared by drilling a Ø11 mm hole with the aid of machining templates item 03237, item 05052 and item 05050 (specifically for corner hinges).
(*) Except for Domina HP and Domina HP Cover hinge, c/c distance 55.5

Materials

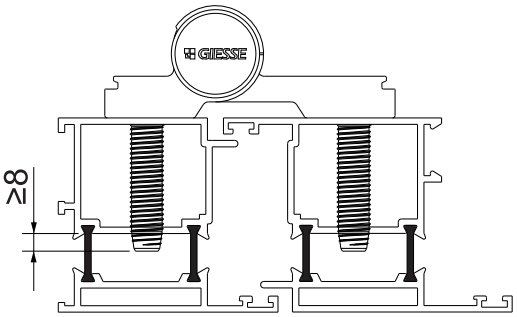
Zinc-coated steel fixing screw



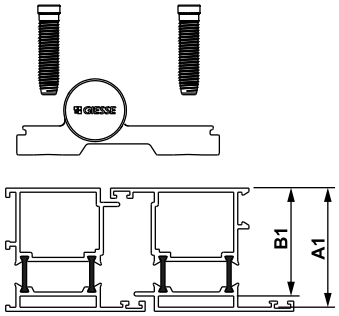
Outward opening



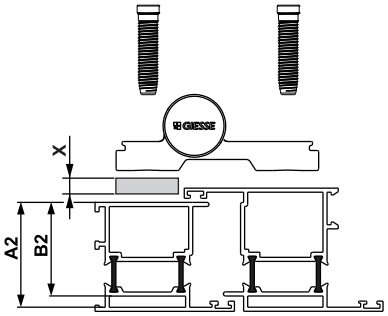
Inward opening



Flush hinge



Hinge combined with step
X: 7 - 8 - 9 - 10 mm



Item code	Description	L [mm]	A1 [mm]	B1 [mm]	A2 [mm]	B2 [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
05300	DIRECT FIXING SCREW M12x55	55	≥ 42	≤ 34	≥ 42-X	≤ 34-X	X				20
05301	DIRECT FIXING SCREW M12x65	65	≥ 52	≤ 44	≥ 52-X	≤ 44-X	X				20
05302	DIRECT FIXING SCREW M12x75	75	≥ 62	≤ 54	≥ 62-X	≤ 54-X	X				20
05303	DIRECT FIXING SCREW M12x90	90	≥ 77	≤ 69	≥ 77-X	≤ 69-X	X				20

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EXPANSION DOWELS

Functions

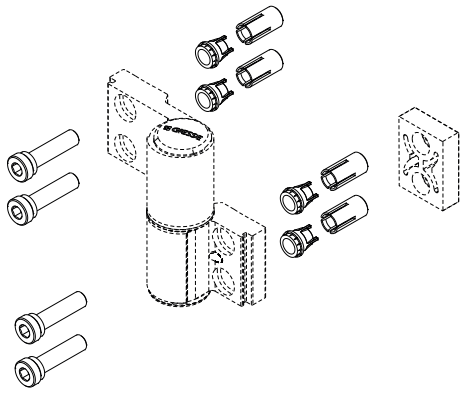
Expansion dowels for rapid fixing of DOMINA HP, DOMINA HP COVER and DOMINA CLASSIC hinges to profile without thermal break.

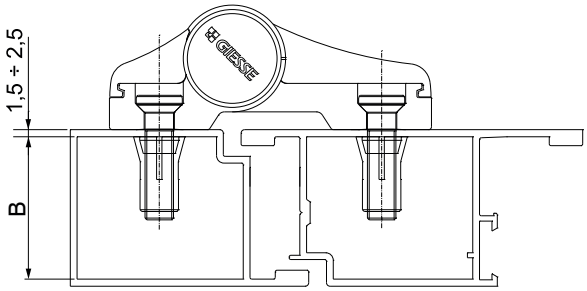
Technical Features

Fixing system for Domina HP, HP Cover and Domina Classic hinges comprising plug, special expansion bush to be located at the holes of the hinge leaf, and M8 screw with special socket head driven by hex key (*).
When fitting plugs, the profile must be prepared by drilling a Ø11 mm hole with the aid of machining templates item 03237, item 05052 and item 05050 (specifically for corner hinges).
(*) Except for HP, HP Cover and Classic hinge, c/c distance 55.5.

Materials

Plug and screw with special head, zinc-coated steel
Expansion bush, zamak





Item code	Description	B [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0520401	EXPANDING PLUG FOR single sealed unit PROFILE - DOMINA HP, DOMINA HP COVER AND DOMINA CLASSIC FLUSH/ONE-PIECE	≥ 30	X				20
0520501	EXPANDING PLUG FOR single sealed unit PROFILE - DOMINA HP, DOMINA HP COVER AND DOMINA CLASSIC WITH STEP	≥ 30	X				20

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TT PROFILE SPACERS

Functions

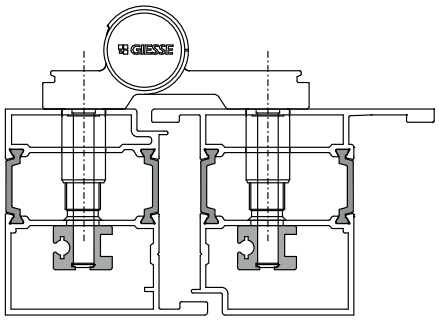
Telescopic spacers for assembly of DOMINA HP, DOMINA HP COVER and DOMINA CLASSIC hinges in combination with counterplate kit, for fixing to thermal break profiles with outward opening.

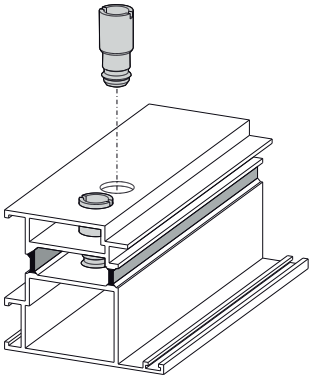
Technical Features

To fit spacers, the holes on the external part of the profile must be enlarged from Ø11 mm to Ø15 mm with the aid of drill bit item 03238.
Each spacer is supplied together with 2 screws of length as specified in the table.
The range comprises four items differing one from another in terms of their adjustment range (see table).

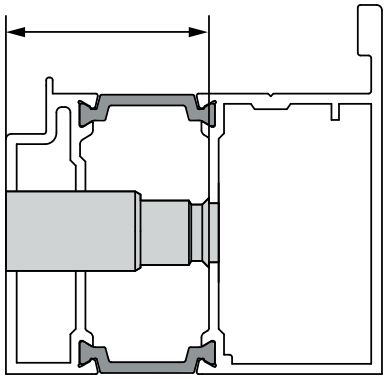
Materials

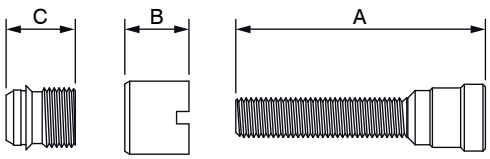
Bush for spacer, telescopic screw and M8 screw with special head, zinc-coated steel





Adjustment range





Item code	Description	Adjustment range	A [mm]	B [mm]	C [mm]	Screws included	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0323901	TELESCOPIC SPACER 13 -18.5 mm	13÷18.5 mm	50	13	14	M8x50	X				20
0324001	TELESCOPIC SPACER 18.5 -29 mm	18.5÷29 mm	60	18,5	29	M8x60	X				20
0324101	TELESCOPIC SPACER 29 -40 mm	29÷40 mm	70	29	40	M8x70	X				20
0324201	TELESCOPIC SPACER 29 -50 mm	29÷50 mm	80	29	50	M8x80	X				20

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DOMINA HP SECURITY SYSTEM

Functions
Security system for DOMINA HP and DOMINA HP COVER front-mounting hinges.

Technical Features
The SKG security system makes it possible to create outward opening doors with SKG 2-star or 3-star certification depending on the number of hinges used.
The burglar-proof kit, which is compatible with counterplates and M12 direct screws for fixing hinge to profile, is available in versions for two-wing and three-wing hinges.

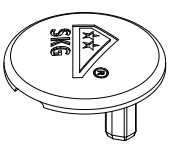
Burglar-proof kit for two-wing hinge, composed of:
• no. 1 side adjustment cartridge with steel pin offering elevated cutting and corrosion resistance, to be used to replace the cartridge supplied with the hinge
• no. 2 supports with stainless steel balls to be inserted in the seat of the hinge to profile fixing screws

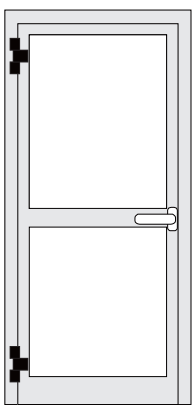
Burglar-proof kit for three-wing hinges, composed of:
• no. 2 steel half-pins offering elevated cutting and corrosion resistance, to be used to replace the half-pins of the side adjustment cartridge supplied with the hinge
• no. 3 supports with stainless steel balls to be inserted in the seat of the hinge fixing screws in outward opening applications

The burglar-proof kit must be used in conjunction with SKG class 2 (2-star) or class 3 (3-star) plugs to replace the standard plugs supplied with the hinge, depending on the chosen configuration.
The SKG 2-star plug is used on doors with 2 hinges (2 or 3 wings) equipped with burglar-proof balls; the SKG 3-star plug is used in the case of doors with 3 hinges (2 or 3 wings) equipped with burglar-proof balls.

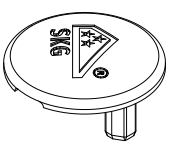
Materials
Stainless steel burglar-proof balls
Balls support in polyamide
Steel pins with treatment providing elevated cutting and corrosion resistance
SKG plugs in polyamide

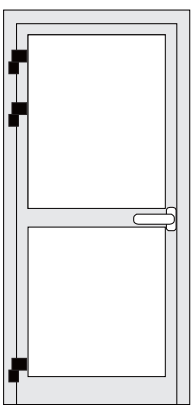
Article 05241





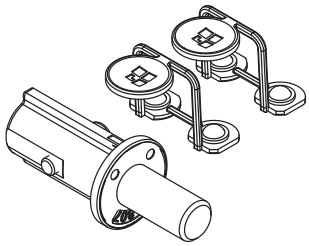
Article 05242

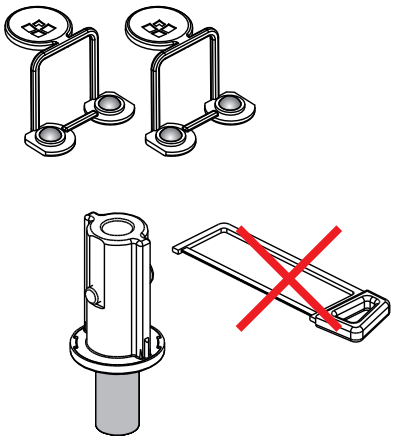


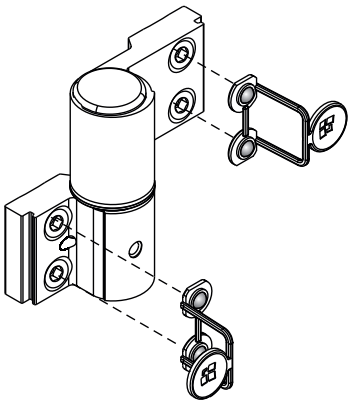


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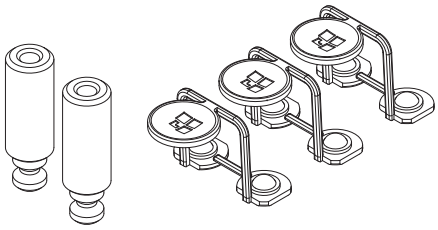
Article 05243 (set 2 leaf)

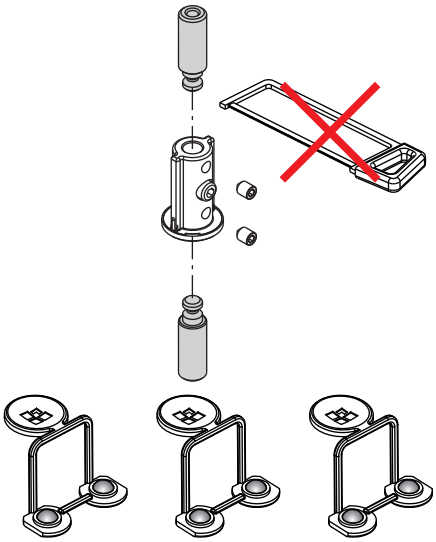


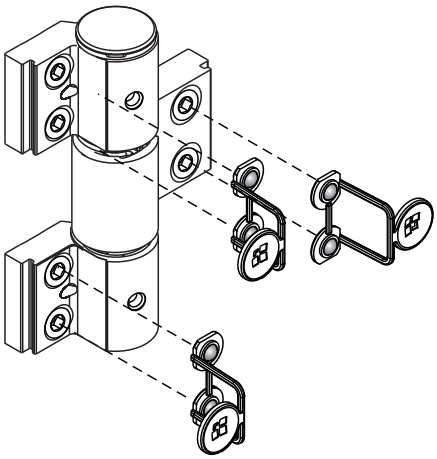




Article 05244 (set 3 leaf)







Item code	Description	Compatible with counter-plates kit	Compatible with direct fixing M12 screws	Compatible with spacers	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
05241	SKG 2 STAR PLUGS	-	-	-	X				40
05242	SKG 3 STAR PLUGS	-	-	-	X				40
05243	SKG 2-WING BURGLAR-PROOF KIT	0520001-0520101-0520201-0520301	05300-05301-05302-05303	0323901-0324001-0324101-0324201	X				10
05244	SKG 3-WING BURGLAR-PROOF KIT	0520001-0520101-0520201-0520301	05300-05301-05302-05303	0323901-0324001-0324101-0324201	X				10

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HINGE MACHINING TEMPLATES



Functions

Profile machining templates for assembly of DOMINA HP, DOMINA HP COVER and DOMINA CLASSIC hinges, in 2 and 3 leaf versions and with the various c/c distances.

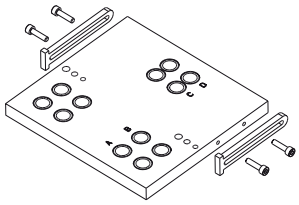
Technical Features

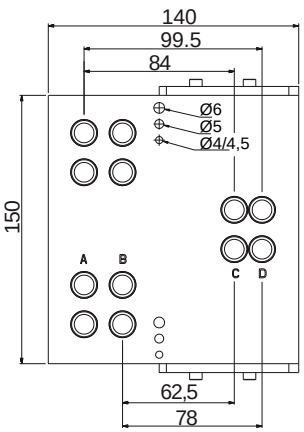
Templates are provided with dowel pins of different diameters, to facilitate positioning on flush profiles, and with adjustable positioning aids for application to non-flush profiles.

Materials

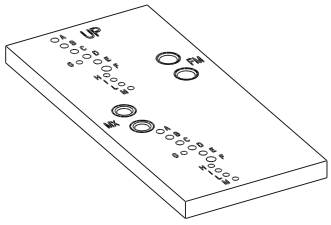
Aluminium template
Carbon nitrided steel guide bushes (preassembled)
Dowel pins, positioners and fixing screws, all zinc-coated steel

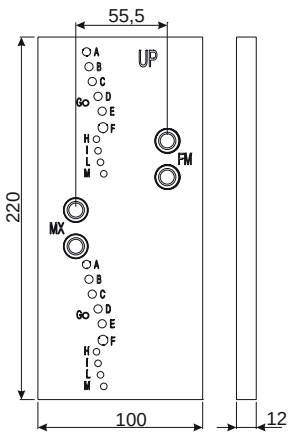
Machining template code 03237



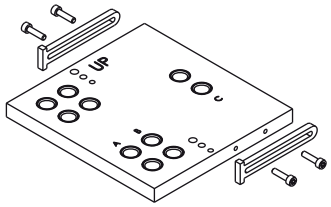


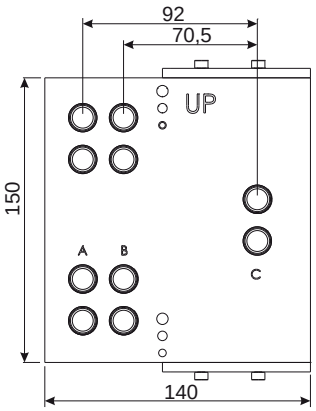
Machining template code 03286



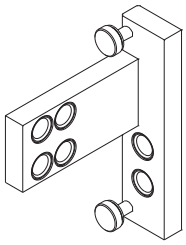


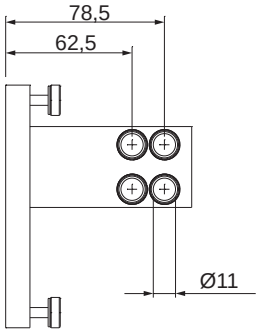
Machining template code 05052





Machining template code 05050





Item code	Description	C/C distance [mm]	Parts	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03237	MACHINING TEMPLATE FOR DOMINA HINGES	62,5 78 84 99,5	adjustable positioners no.2 dual diameter pins Ø4-Ø4.5 no.2 pins Ø5 no.2 pins Ø6	X				1
03286	MACHINING TEMPLATE FOR DOMINA HINGES	55,5	no.2 dual diameter pins Ø4-Ø4.5 no.2 pins Ø5 no.2 pins Ø6	X				1
05050	MACHINING TEMPLATE FOR DOMINA HP CORNER HINGE		adjustable positioners	X				1
05052	MACHINING TEMPLATE FOR DOMINA HINGES	70.5 92	adjustable positioners no.2 dual diameter pins Ø4-Ø4.5 no.2 pins Ø5 no.2 pins Ø6	X				1

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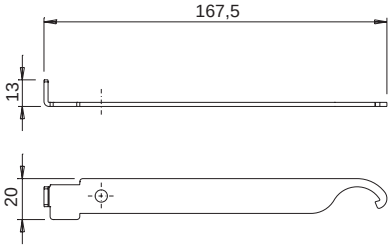


DOOR HINGE ADJUSTER KEY

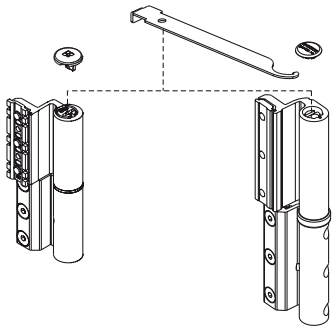
Key for adjustment of FLASH XLR, FLASH XL, FLASH XXL and LINEA 3D hinges.

Technical features
Key for side adjustment of Flash XLR, Flash XL and Flash XXL hinges with door installed.
The key can also be used for making the compression adjustment to the Linea 3D hinge.

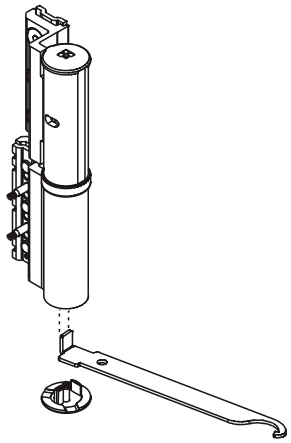
Materials
carbon nitrided and zinc-coated steel key



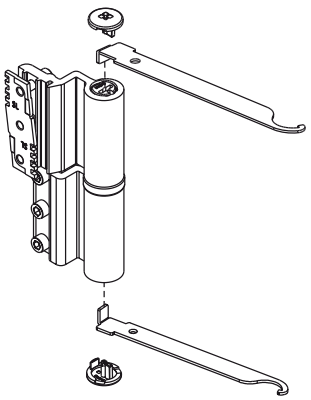
Used with FLASH XL and FLASH XXL



Used with LINEA 3D

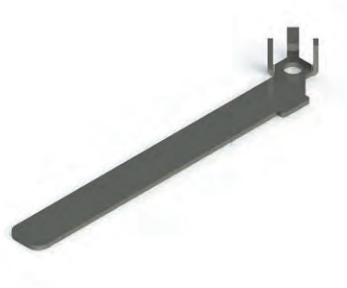


Used with FLASH XLR



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03900	DOOR HINGE ADJUSTER KEY		X				5

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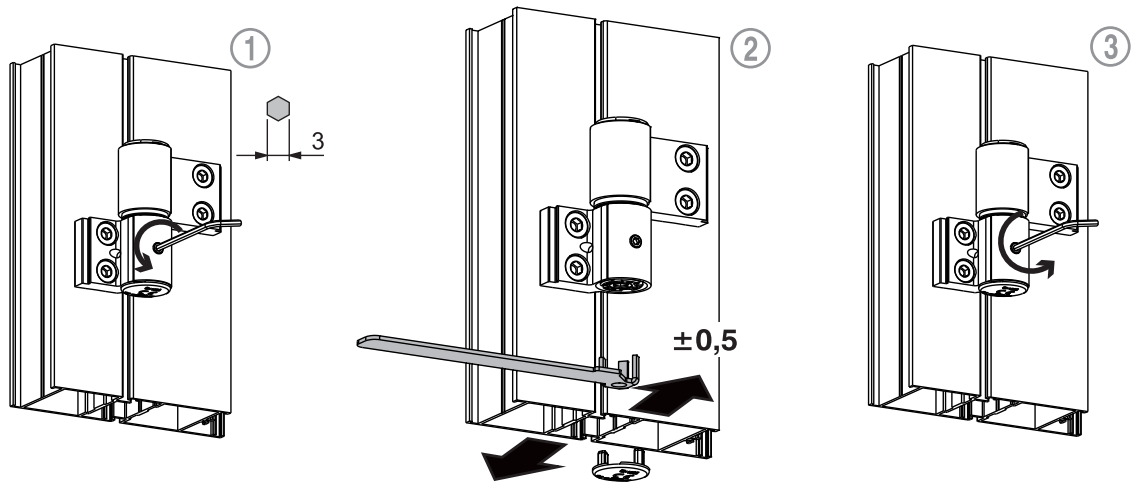


DOMINA HP ADJUSTER KEY

Key for compression adjustment of DOMINA HP and DOMINA HP COVER hinges

Technical features
Key used to turn the frame-mounted hinge bush when making the compression adjustment with door installed.

Materials
carbon nitrided and zinc-coated steel key



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
05053	DOMINA HP ADJUSTER KEY		X				10

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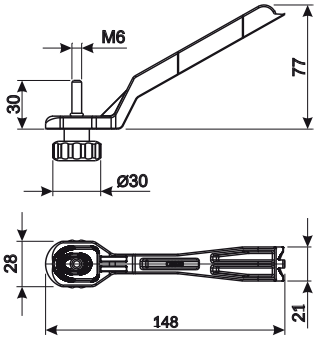


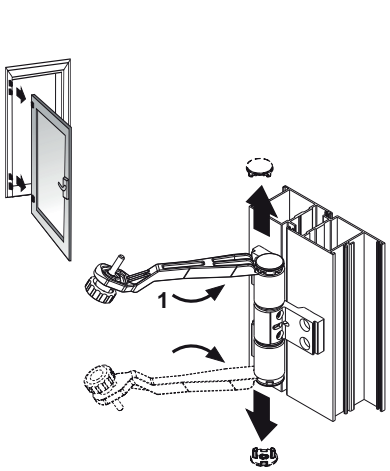
PIN EXTRACTOR - DOMINA HP 3 LEAF

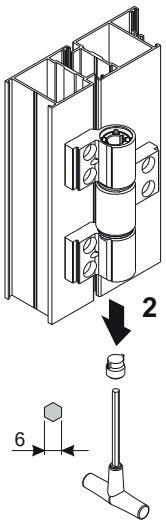
Tooling for removal of pins from Domina HP and Domina HP Cover, 3-wing version.

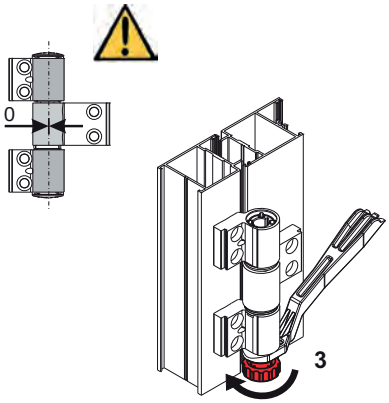
Technical features
The extractor can be used to extract removable pins from 3-wing hinges, thereby simplifying the operation of separating the sash from the frame.

Materials
Control lever: fibreglass impregnated polyamide
Polyamide knob with threaded steel shank
Rubber retaining O-ring









Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
05054	PIN EXTRACTOR - DOMINA HP 3 LEAF		X				1

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TECH PIVOT HINGES

Functions
Pivot hinge for horizontally and vertically sashes turning through 180°.

Technical Features
Pivoted sash with friction-controlled opening up to 30°; gripping force selectable by turning a screw associated with both pivot hinges.
The sash opens to 30°; to open further for cleaning, press the release button located on one of the two hinges.
When the lever is released, the mechanism opens to 180° and will lock the sash automatically in this position to avoid unauthorized closures.
To close the sash, operate the release button again.
Each pair of Tech pivot hinges requires a set of fixing plates specific to the selected profile; these must be ordered separately.
Each set of plates comprises 2 sash plates and 2 frame plates.
The geometry of the sash-mounted plate is designed to allow the passage of closure hardware fitted to the perimeter.

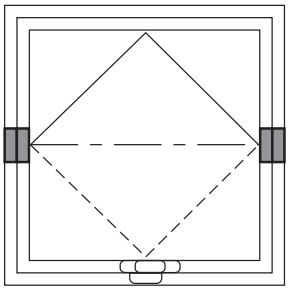
Materials
Male and female hinge bodies, diecast zamak painted in RAL colours
Internal mechanisms made of diecast zamak
Release button, black polyamide
Extruded aluminium plates
Stainless steel screws

Capacities
Using Tech pivot hinges in combination with Giesse original plates, pivot sashes can be specified with the following maximum dimensions and weights:

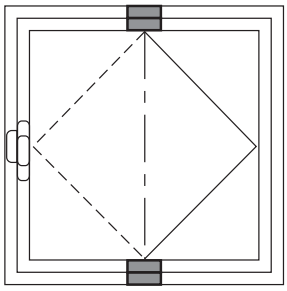
Horizontal pivot-hinged sash
Maximum weight of sash (aluminium + glass): 120 Kg
Maximum sash dimensions: height 2200 mm - width 1600 mm

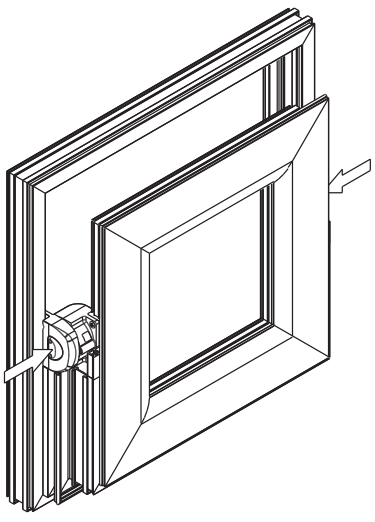
Vertical pivot-hinged sash
Maximum weight of sash (aluminium + glass): 100 Kg
Maximum sash dimensions: height 2200 mm - width 1600 mm

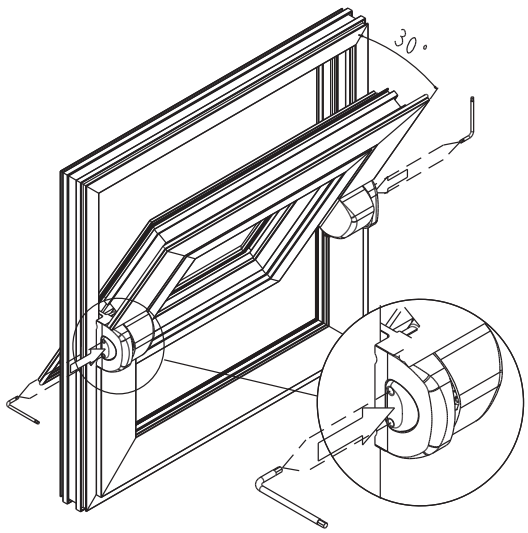
Horizontal pivot-hinged sash



Vertical pivot-hinged sash

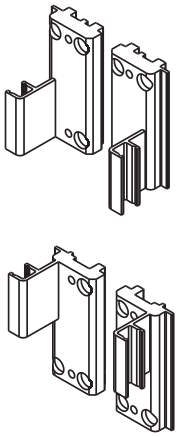


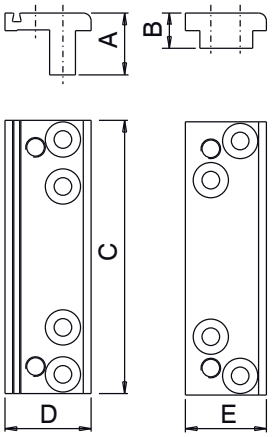




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Fixing plates (specific to series)





Item code	Description	PROFILE CROSS - SECTION	With lock	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01420	SET OF MOUNTING PLATES FOR TECH PIVOT HINGE	P001	-	15,8	9	69,8	22	20,7	X				4
01428	SET OF MOUNTING PLATES FOR TECH PIVOT HINGE	P008	-	10,75	17,5	69,8	21,5	22,5	X				4
01429	SET OF MOUNTING PLATES FOR TECH PIVOT HINGE	P009	-	11,3	17,5	69,8	21	22,5	X				4
01431	SET OF MOUNTING PLATES FOR TECH PIVOT HINGE	P010	-	12,5	18,8	69,8	22	22	X				4
01439	TECH PIVOT HINGE WITHOUT PLATES	P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	NO	-	-	-	-	-	X		X		4
01459	TECH PIVOT HINGE WITHOUT PLATES	P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	YES	-	-	-	-	-	X		X		4

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FRIBLOK PIVOT HINGES



Functions

Pivot hinge for horizontally and vertically sashes turning through 180°, fashioned entirely from extruded aluminium billet using precision machining processes.

Technical Features

Solidly reliable by virtue of the component structures and the inclusion of a device by which the window can be held at 30° and locked at 180°.
The 30° stop can be rendered inactive by fitting the polyamide insert in the relative slot.
A special screw allows external adjustment of the friction force applied: the action is particularly durable and effective as the metal walls are interfaced with one another by way of a polyamide thrust washer containing a high percentage of glass fibre.
Can also be supplied, to order, without the locking mechanism.

Applications and Load capacities of FRIBLOCK hinge pivots

Horizontal pivot-hinged sash
Weight of sash distributed between the two pivot hinges
Using the fixing screws provided, the overall weight of the pivoted sash (glazing included) can be 70/80 kg.

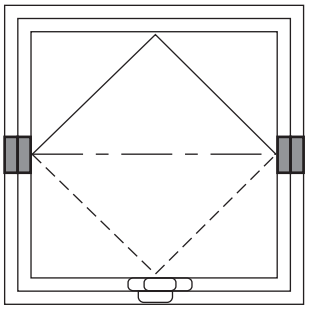
Vertical pivot-hinged sash

Weight of sash supported entirely by the bottom pivot hinge
The bottom pivot hinge must be fitted with a polyamide thrust plug (code H5065010).
With normal fixing, the overall weight of the pivoting window (glazing included) can be 50/60 kg.

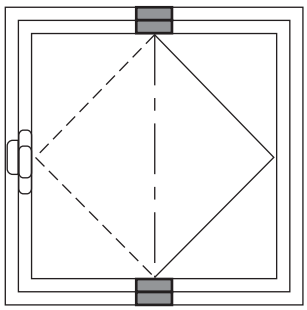
Materials

Extruded aluminium hinge body and fixing plates
Zamak clamp adjustment ring
Polyamide thrust washer
Screws and hinge pin of zinc-nickel plated steel.

Horizontal pivot-hinged sash

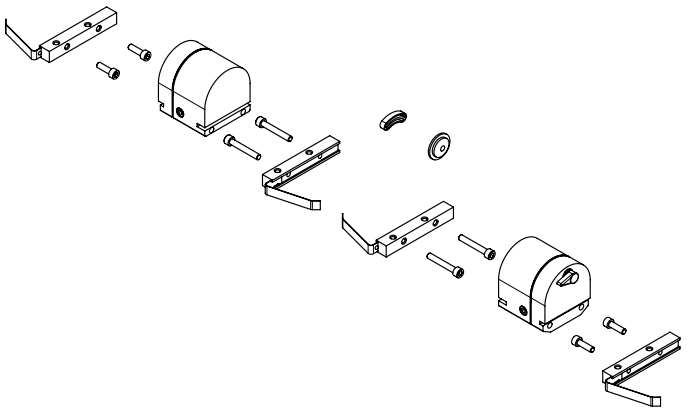


Vertical pivot-hinged sash

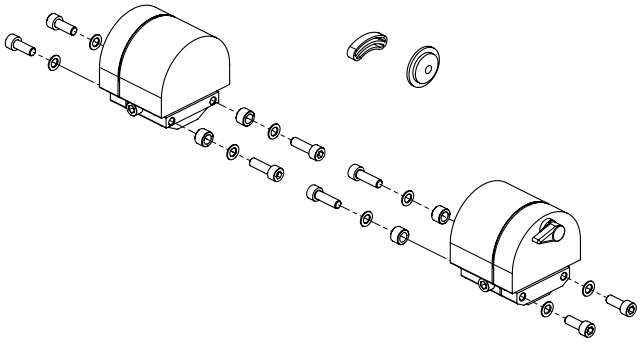


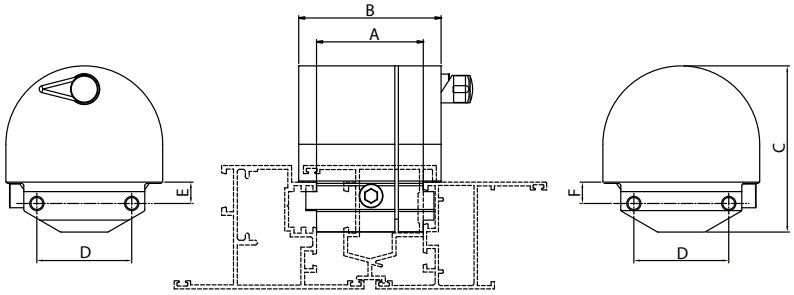
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Pivot hinge with plates



Pivot hinge without plates





Item code	Description	PROFILE CROSS - SECTION	With plates	With screws	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01416	FRIBLOK PIVOT HINGE	P005	X	-	48,8	67,5	77	46	7,95	7,95	X	X	X		4
01443	FRIBLOK PIVOT HINGE	see Where Used	-	X	47	60	70	40	10,5	10,5	X	X	X		4
01448	FRIBLOK PIVOT HINGE	see Where Used	-	X	46	60	70	40	16	16	X	X	X		4
01449	FRIBLOK PIVOT HINGE	see Where Used	-	X	47	68	70	26	19,5	19,5	X	X	X		4
01454	FRIBLOK PIVOT HINGE	see Where Used	-	X	48,7	68	70	40	9,5	9,5	X	X	X		4
01458	FRIBLOK PIVOT HINGE	P008	X	-	48,5	68	77	46	14	13,5	X	X	X		4

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MECHANISMS AND FASTENERS

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NP SUPRA

Functions

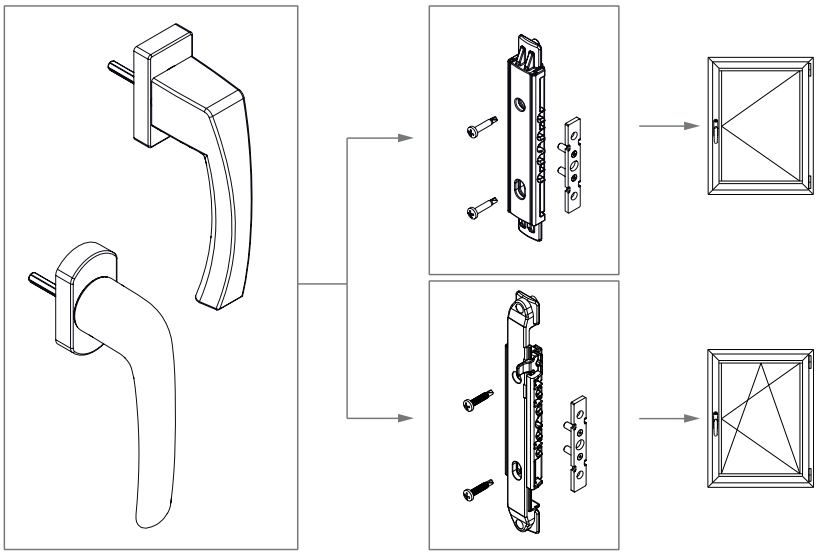
Innovative system of window handles and hardware for operating casements with Inward Opening SASH and TILT-AND-TURN.
Thanks to GIESSE NP® Technology you can make casements with modern styling and minimal, fast machining on the profile.

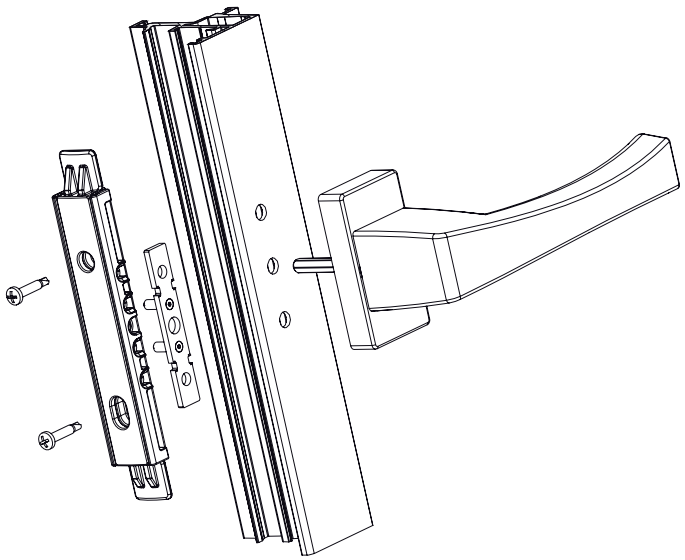


Technical Features

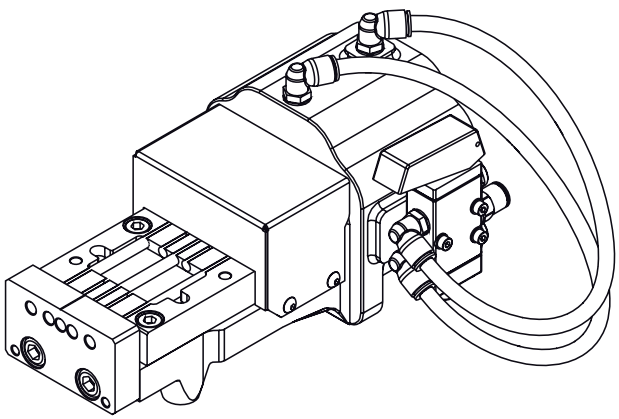
The system works by combining hardware and a window handle that are joined together by a 5 mm hexagon.
Assembling the window handle requires machining the sash profile, which can also be done by using a dedicated punch.
The hardware is available in a two-way version (SASH) and one-way version (TILT-AND-TURN).
The hardware needs no machining on the profile and is secured by means of two self-tapping screws supplied.

NP SUPRA System





Punch art. 5810120000



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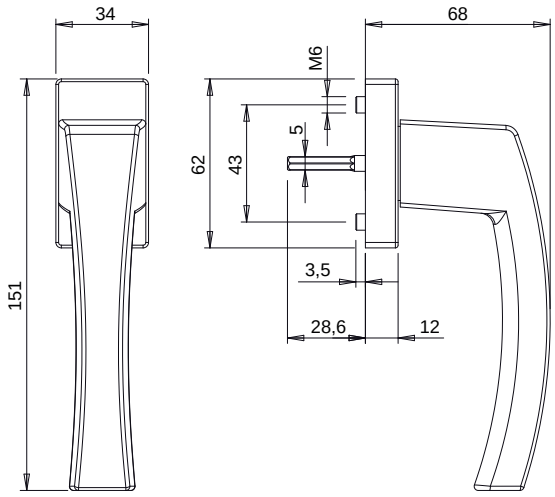


NP SUPRA - ASIA WINDOW HANDLE

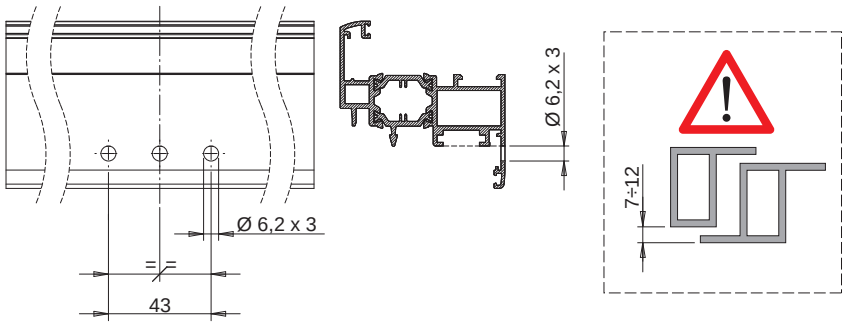
Functions
Reversible window handle for operating Sash and Tilt-and-Turn NP SUPRA window handles.

Technical Features
Same window handle for both Sash and Tilt-and-Turn.
Used in combination with NP SUPRA Hardware.
It is locked to the profile by screwing the 2 special screws, pre-assembled on the window handle body, into the fixing plate provided in the mechanism.
There is no need for any milling on the sash tubular profile, it only requires straightforward machining on the profile wall (3 holes Ø6.2 mm), so there is a specific punch.

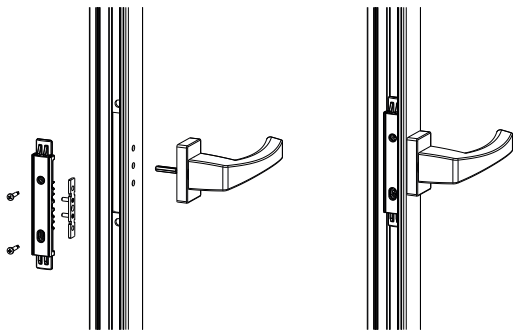
Materials
Handle in die-cast aluminium.
Internal components made of GS SILVER PLUS zamak, zinc plated steel and black polyamide.
Zinc plated steel fixing screws.
Die-cast zamak cover.



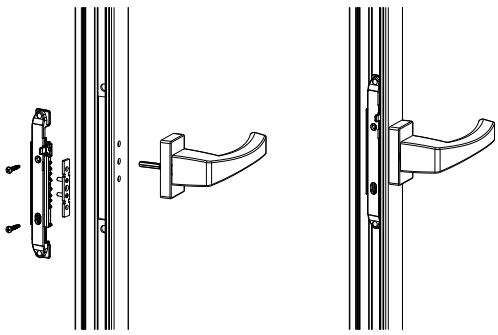
Machining



Sash



Tilt-and-turn window



Item code	Description	PROFILE CROSS - SECTION	Type	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03963	NP - ASIA WINDOW HANDLE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	Sash - Tilt-and-Turn	X		X		10

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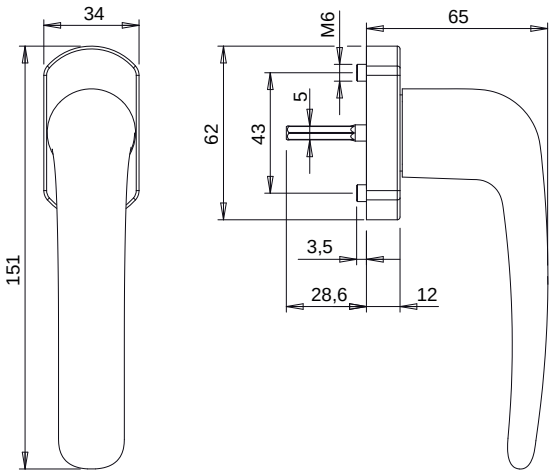


NP SUPRA - PRIMA WINDOW HANDLE

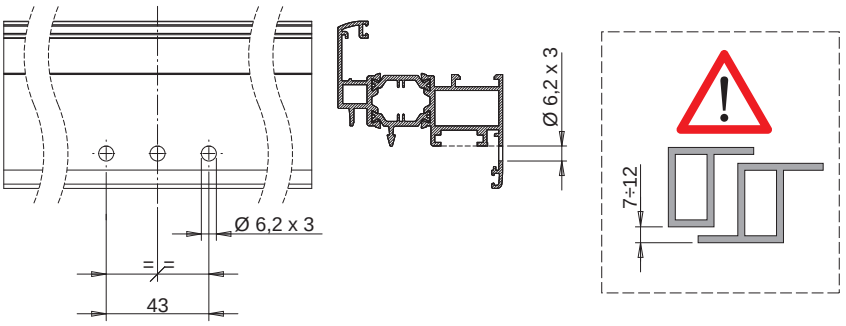
Functions
Reversible window handle for operating Sash and Tilt-and-Turn NP SUPRA window handles.

Technical Features
Same window handle for both Sash and Tilt-and-Turn.
Used in combination with NP SUPRA Hardware.
It is locked to the profile by screwing the 2 special screws, pre-assembled on the window handle body, into the fixing plate provided in the mechanism.
There is no need for any milling on the sash tubular profile, it only requires straightforward machining on the profile wall (3 holes Ø6.2 mm), so there is a specific punch.

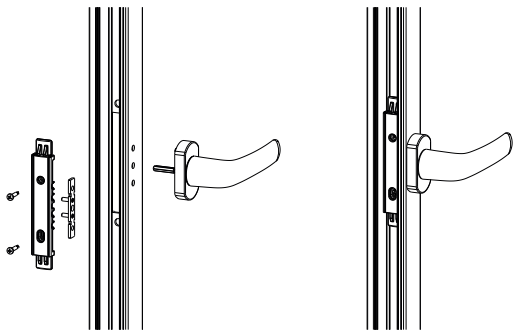
Materials
Handle in die-cast aluminium.
Internal components made of GS SILVER PLUS zamak, zinc plated steel and black polyamide.
Zinc plated steel fixing screws.
Die-cast zamak cover.



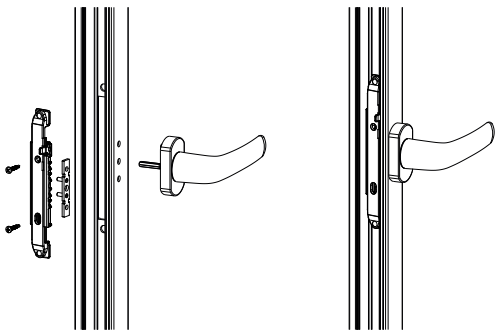
Machining



Sash



Tilt-and-turn window



Item code	Description	PROFILE CROSS - SECTION	Type	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03962	NP - PRIMA WINDOW HANDLE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	Sash - Tilt-and-Turn	X		X		10

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NP SUPRA - TILT-AND-TURN HARDWARE

Functions

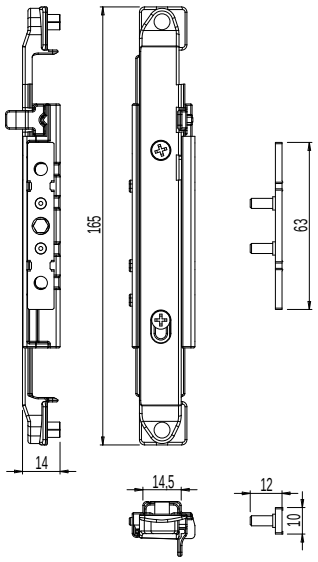
One-way window handle, can be operated with the NP SUPRA window handle, for operating Tilt-and-Turn fastening window handles.

Technical Features

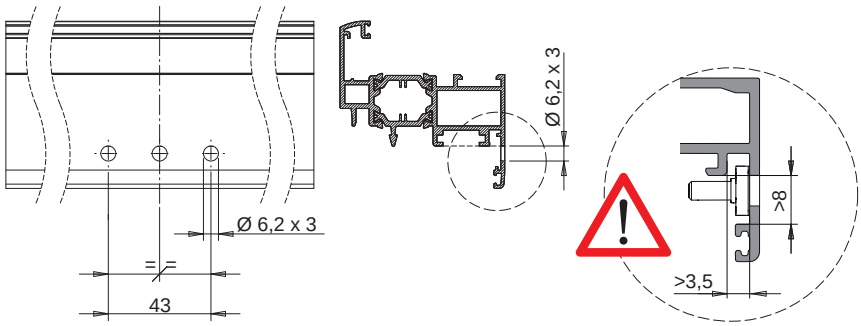
Used in combination with the NP SUPRA window handle (5 mm hexagon).
It is locked to the profile with the 2 self-tapping screws supplied.
There is no need for any milling on the sash tubular profile, it only requires straightforward machining on the profile wall (3 holes Ø6.2 mm).
The mechanism is two-way and is equipped with an incorrect movement safety device, which prevents turning the window handle while the sash is open.

Materials

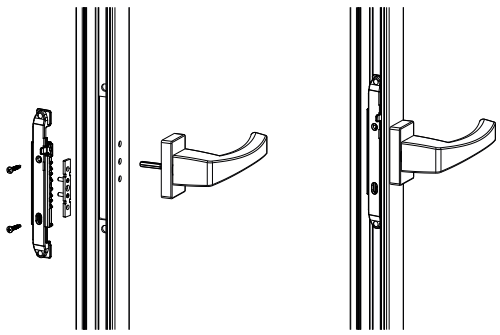
Body, Drive Rod and incorrect movement safety lug made of zamak with GS SILVER PLUS finish.
Pinion and screws 3.9 x 19 made of zinc plated steel.
Stainless steel fixing plate.



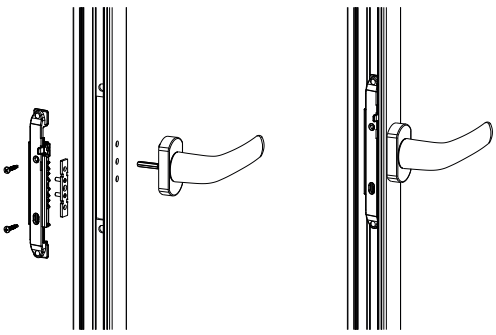
Machining



Asia window handle



Prima window handle



Item code	Description	PROFILE CROSS - SECTION	Type	Operation	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0395301	NP - TILT-AND-TURN HARDWARE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	Tilt-and-turn window	one-way	X				10

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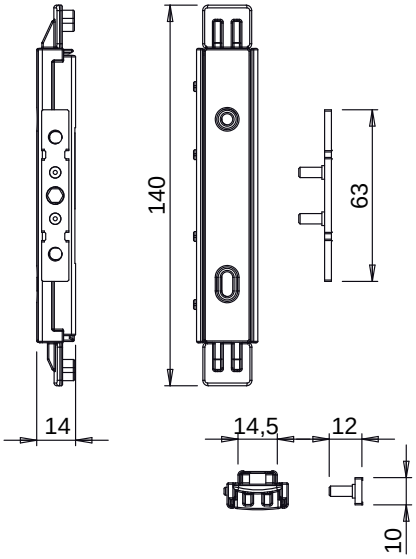


NP SUPRA - SASH HARDWARE

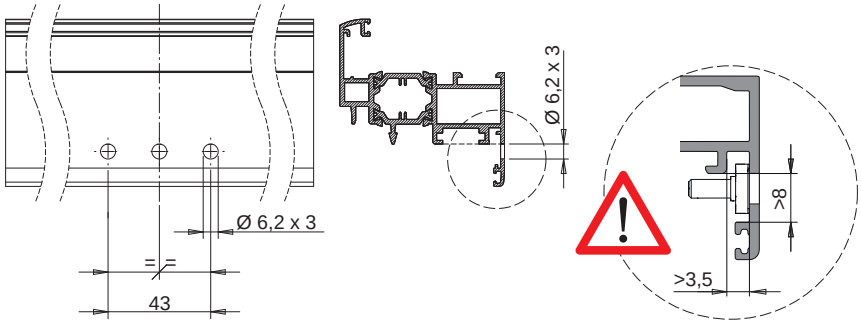
Functions
Two-way window handle, can be operated with the NP SUPRA window handle, for operating Sash fastening window handles.

Technical Features
Used in combination with the NP SUPRA window handle (5 mm hexagon).
It is locked to the profile with the 2 self-tapping screws supplied.
There is no need for any milling on the sash tubular profile, it only requires straightforward machining on the profile wall (3 holes Ø6.2 mm).
The mechanism is two-way.

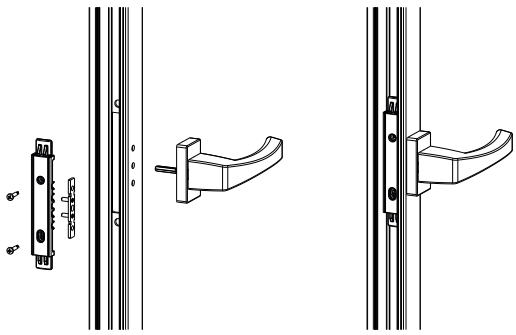
Materials
Body, Drive Rod (top and bottom) made of zamak with GS SILVER PLUS finish.
Pinion and screws 3.9 x 19 made of zinc plated steel.
Stainless steel fixing plate.



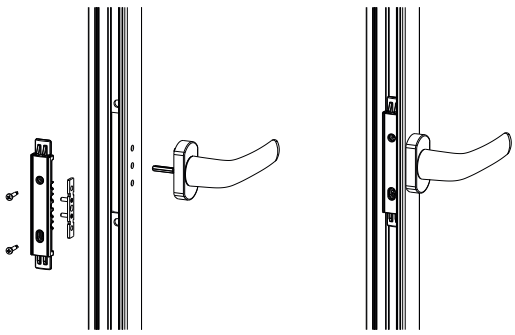
Machining



Asia window handle



Prima window handle



Item code	Description	PROFILE CROSS - SECTION	Type	Operation	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03954	NP - SASH MECHANISM	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	Sash	two-way	X				10

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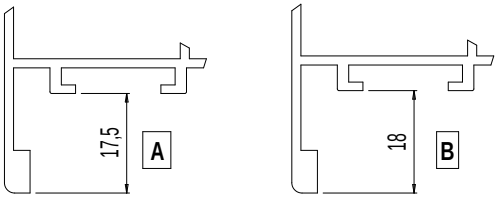


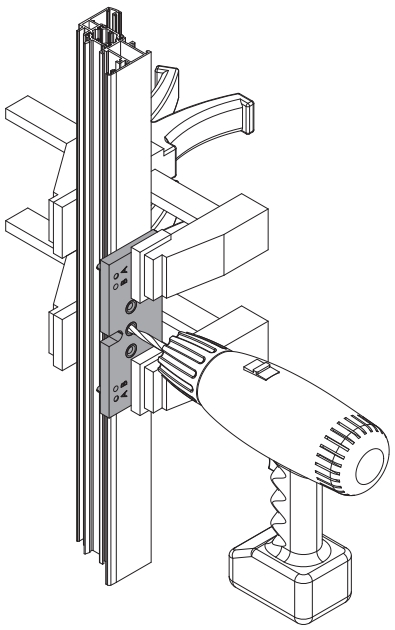
NP SUPRA - DRILLING TEMPLATE

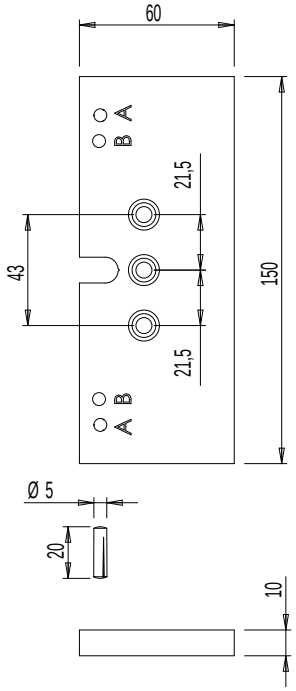
Functions
Drilling template for carrying out machining on the NP SUPRA window handle.

Technical Features
The pin supplied makes it possible to set the template for profiles with tabs 17.5 mm (A) or 18.0 mm (B) in length.
To improve machining precision, we recommend holding it in place using a clamp.

Materials
Aluminium template
Steel bushes and pins







Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03536	NP SUPRA - DRILLING TEMPLATE		X				1

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EURO CREMONE

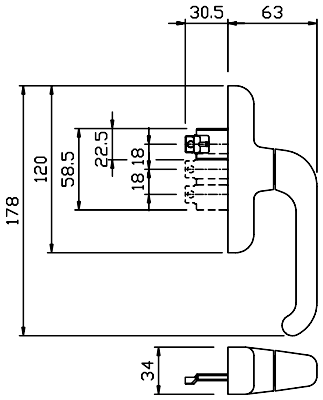
Functions
Reversible cremone handle for operating GIESSE Sash, Tilt-and-Turn Window and Tilt-and-Turn Window with Microventilation mechanisms.

Technical Features
The use of high quality die-cast materials and the GIESSE painting system guarantee excellent mechanical performance, together with colour uniformity and good abrasion resistance.
Depending on the version, they are available with snap positioning of the pull handle at 0°, 90°, 135° and 180°.
The EURO cremone is supplied pre-assembled right-handed.
Available in both one-way and two-way versions.
Depending on the version, the C/C distances of 84, 92, 96, 98, 104 and 130 mm are possible.

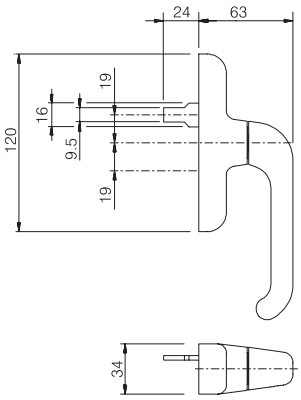
Materials
Handle in die-cast aluminium
Cremone case, gear racks in die-cast zamak
Internal sheath and Hostaform plate
Spring, screws and fixing plate in stainless steel

Parts
1 fixing plate
2 HSHC screws M5x14

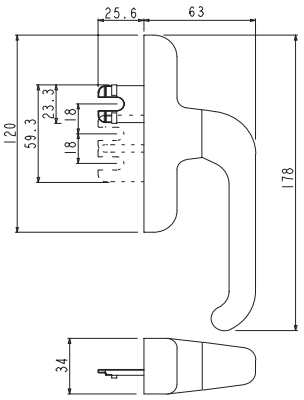
A. One-way version



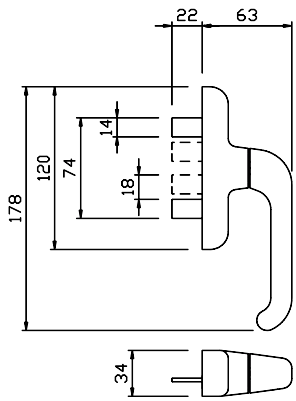
B. One-way version



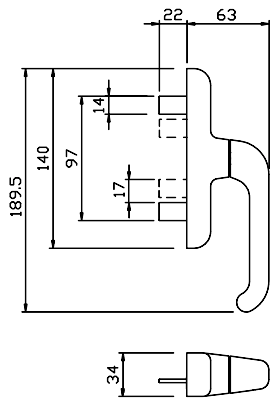
C. One-way version



D. Two-way version (C/C distance 84.5 - 98 - 104 mm)

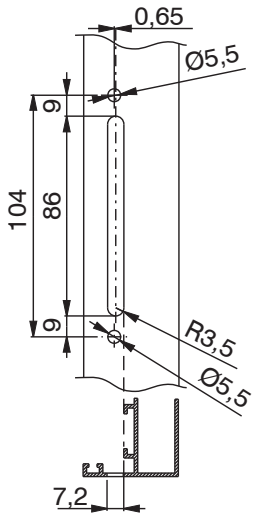


E. Two-way version (C/C distance 130 mm)

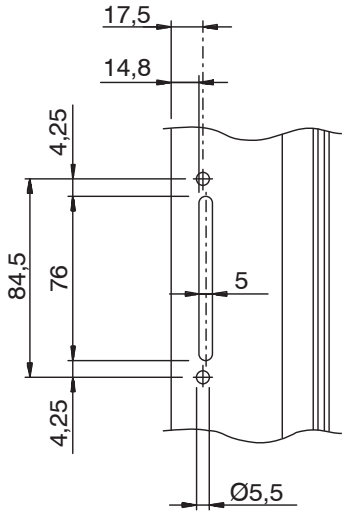


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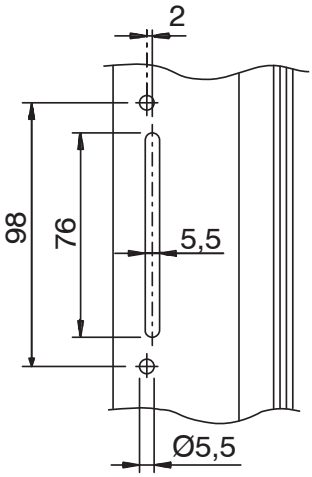
C/C distance machining 104 mm



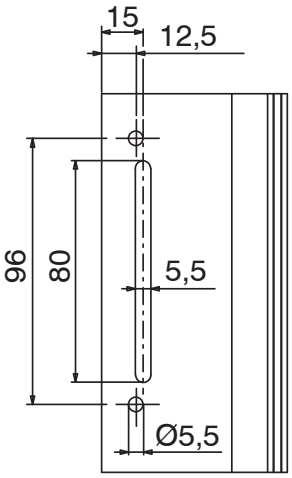
C/C distance machining 84.5 mm



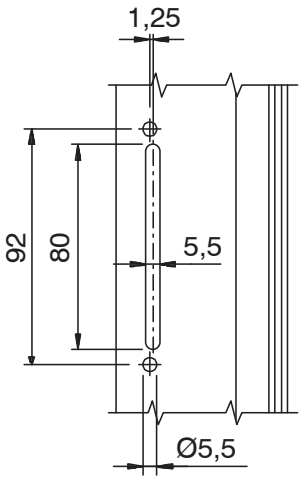
C/C distance machining 98 mm



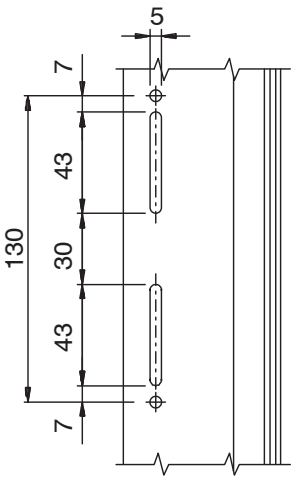
C/C distance machining 96 mm



C/C distance machining 92 mm



C/C distance machining 130 mm



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CREMONES
EURO CREMONE

Item code	Description	PROFILE CROSS - SECTION	Type	C/C dis-tances	Operation	Figure	Pull handle 0°	Pull handle 90°	Pull handle 135°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01000U	EURO CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	Sash	104 - 98 - 84	Two-way	D	Closed	open	-	-	X		X		10
01008	EURO CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	Sash	130	Two-way	E	Closed	open	-	-	X		X		20
01094	EURO 900 MICRO CREMONE	C001-C002-C003-C004-C005-C006-C012-C013-C014-C015-C016-C017	Tilt-and-turn window (microven-tilation)	104 - 98 - 84	One-way	A	Closed	open	Micro	bot-tom-hung windows	X		X		10
01108	EURO 900 CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	Tilt-and-turn window	98	One-way	B	Closed	open	-	bot-tom-hung windows	X		X		20
01109	EURO 900 CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	Tilt-and-turn window	104 - 98 - 84	One-way	C	Closed	open	-	bot-tom-hung windows	X		X		20

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EURO KEY CREMONE

Functions

Reversible cremone handle, with key lockable pull handle, with 90° rotation (side-hung window) or 90° and 180° (tilt-and-turn window) and opening/closing positioning notch.

Technical Features

The use of high quality die-cast materials and the GIESSE painting system guarantee excellent mechanical performance, together with colour uniformity and good abrasion resistance.
The EURO KEY cremones, supplied right-hand, have a fixing C/C distance of 104 mm and 84 mm, but can be easily adapted for mounting with a C/C distance of 98 mm.
Uses a cylinder made to European standard dimensions. When necessary you can replace the cylinder, product 01045.

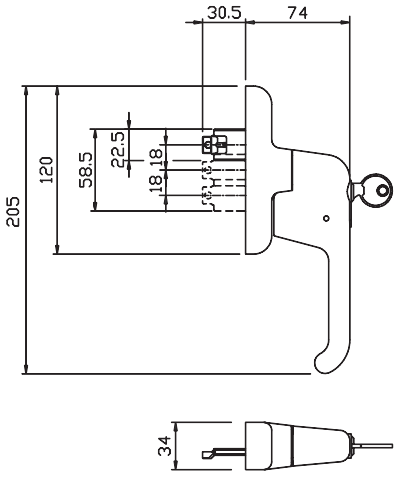
Materials

Handle in die-cast aluminium
Cremone case and gear in die-cast zamak
Internal sheath and Hostaform plate
Spring, screws and fixing plate in stainless steel
Brass cylinder

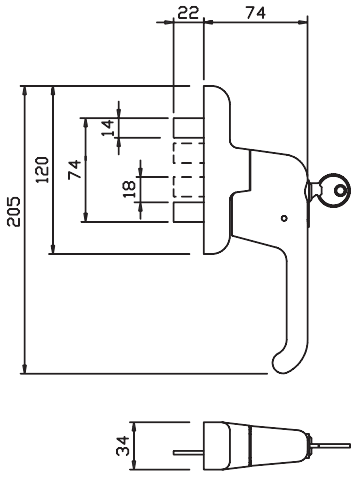
Parts

1 fixing plate
2 HSHC screws M5x14
3 Keys

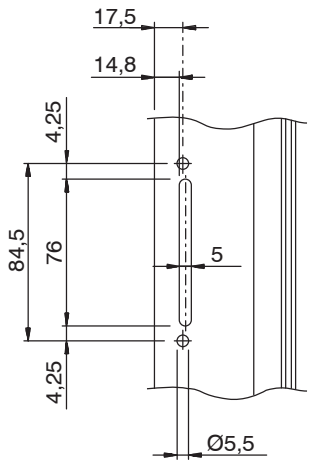
One-way version



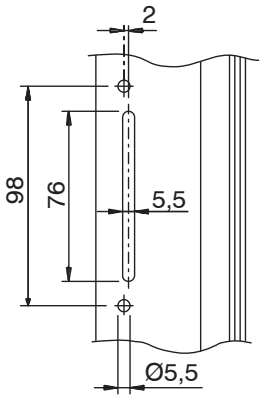
Two-way



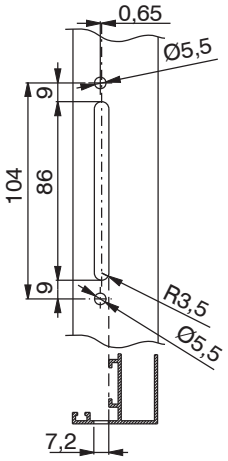
C/C distance machining 84.5 mm



C/C distance machining 98 mm



C/C distance machining 104 mm



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CREMONES
EURO KEY CREMONE

Item code	Description	PROFILE CROSS - SECTION	Type	C/C distances	Operation	Pull handle 0°	Pull handle 90°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01002	EURO KEY CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	Sash	104 - 98 - 84	Two-way	Closed	Open	-	X		X		5
01092K	EURO KEY CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	Tilt-and-turn window	104 - 98 - 84	One-way	Closed	Open	Bottom-hung windows	X		X		5

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EURO UNIVERSAL CREMONE

Functions

Reversible cremone handle for central gasket systems with one-way mechanism, equipped with 90°, 135° (microventilation) and 180° rotation and snap positioning.

Technical Features

The use of high quality die-cast materials and the GIESSE painting system guarantee excellent mechanical performance, together with colour uniformity and good abrasion resistance.
The cremone is specific to one-way mechanisms such as the tilt-and-turn window and for the side-hung window it also enables using micro-ventilation.
Product designed as part of the GIESSE SPACE Project, for use in combination with GIESSE automatic machines.
The incorrect movement safety device necessary for tilt-and-turn windows is contained in the SPAZIO GIESSE tilt-and-turn mechanism.
Available also in a version with the Rapid 104 hook, which is a patented system, fast both to assemble and disassemble.

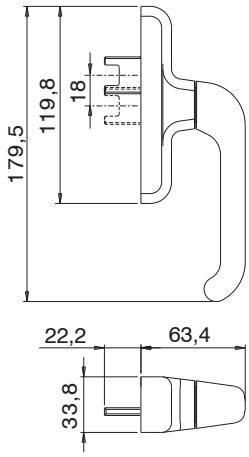
Materials

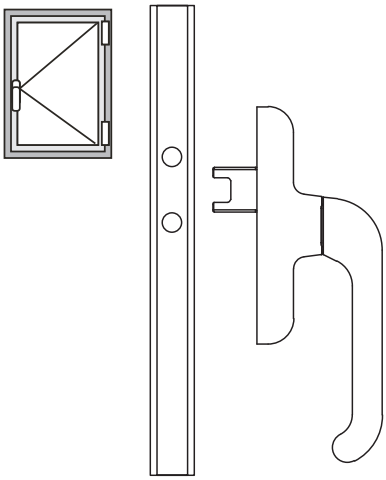
Handle in die-cast aluminium
Cremone case, gear, racks and sliding parts in die-cast zamak
Internal sheath and Hostaform plate
Spring, screw and fixing plate in stainless steel

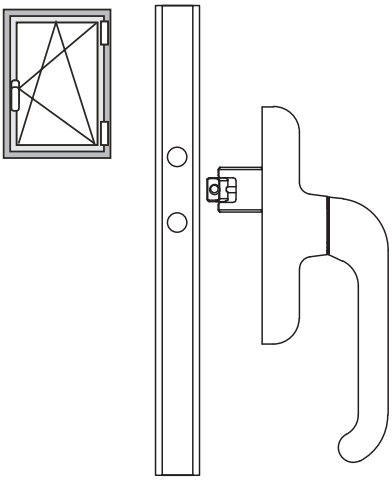
Parts

1 fixing plate
2 HSHC screws M5x14

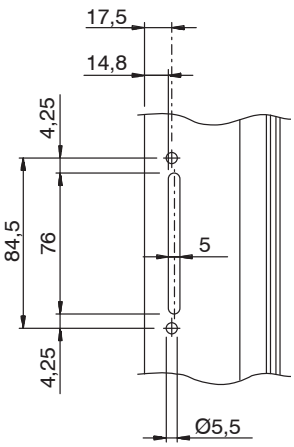
Version for sash and tilt-and-turn windows



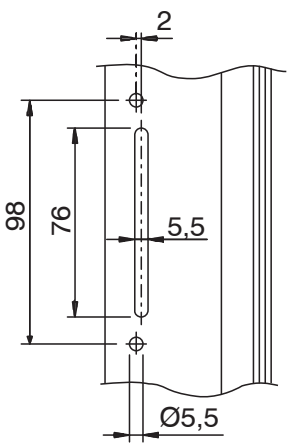




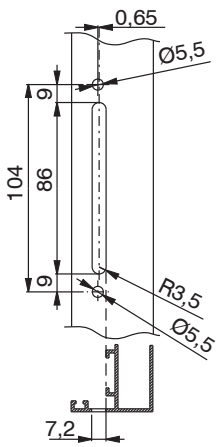
C/C distance machining 84.5 mm



C/C distance machining 98 mm



C/C distance machining 104 mm



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Item code	Description	PROFILE CROSS - SECTION	Version	C/C distances	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01037	EURO UNIVERSAL CREMONE	C001-C002-C003-C004-C005-C006-C012-C013-C014-C015-C016-C017	Micro-ventilation	104 - 98 - 84			X		10

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EURO AWAY CREMONE

Functions

Reversible cremone handle for operating the GIESSE Sash and Tilt-and-Turn Window mechanisms. Enables operating casements and removing the handle for security requirements.

Technical Features

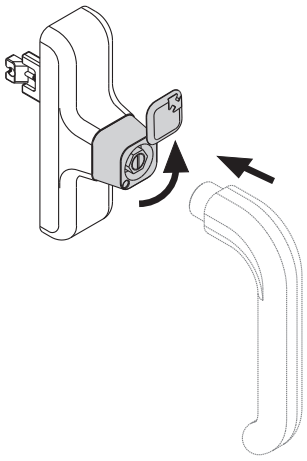
The use of high quality die-cast materials and the GIESSE painting system guarantee excellent mechanical performance, together with colour uniformity and good abrasion resistance.
Depending on the version, they are available with snap positioning of the pull handle at 0°, 90° and 180°.
The EURO AWAY cremone, supplied right-handed, has fixing C/C distance of 104 mm (for alternative C/C distance see the table).
Available in both one-way and two-way versions.
For use in combination with the adjustable pull handle art. 01130.

Materials

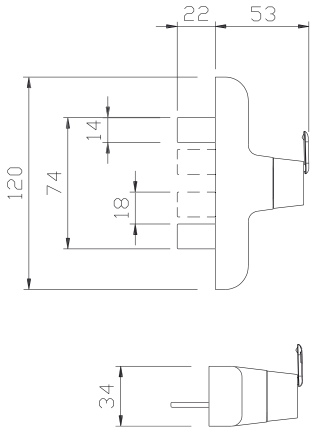
Cremone case, gear
Racks and die-cast zamak sliders
Internal sheath and Hostaform plate
Stainless steel screws and fixing plate
Away turret and cap in black polyamide

Parts

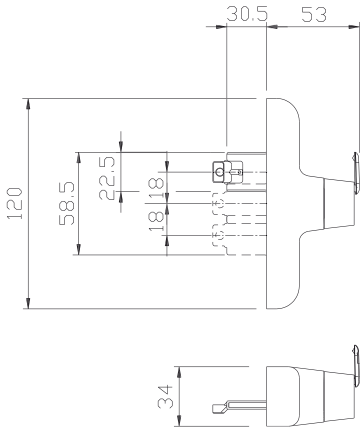
1 fixing plate
2 HSHC screws M5x14



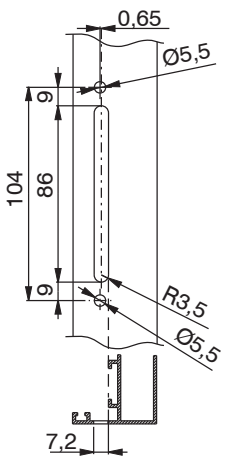
Sash version



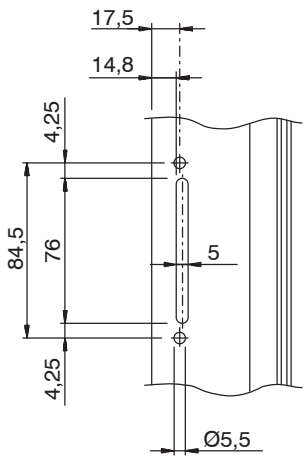
Tilt-and-turn window version



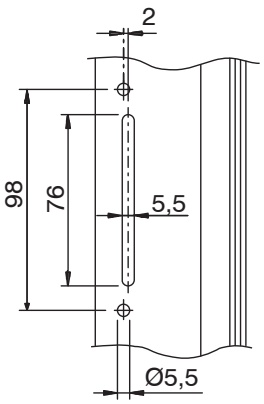
C/C distance machining 104 mm



C/C distance machining 84.5 mm



C/C distance machining 98 mm



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CREMONES
EURO AWAY CREMONE

Item code	Description	PROFILE CROSS - SECTION	Version	C/C distances	Operation	Pull handle 0°	Pull handle 90°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01001	EURO AWAY CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002	Sash	104 - 98 - 84	Two-way	Closed	Open	-	X		X		5
01091K	EURO AWAY CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	Tilt-and-turn window	104 - 98 - 84	One-way	Closed	Open	Bottom-hung windows	X		X		5
01130	EURO REMOVABLE PULL HANDLE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	-	-	-	-	-	-	X				1

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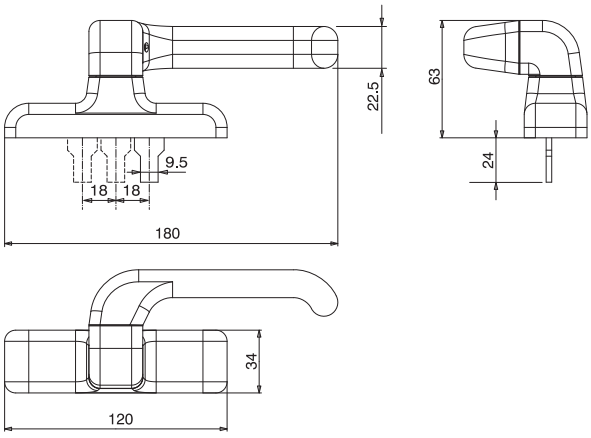
EURO CW CREMONE

Functions
Cremone for curtain walls with 90° (two-way) and 90° – 180° (one-way) rotation and opening/closing positioning notch.

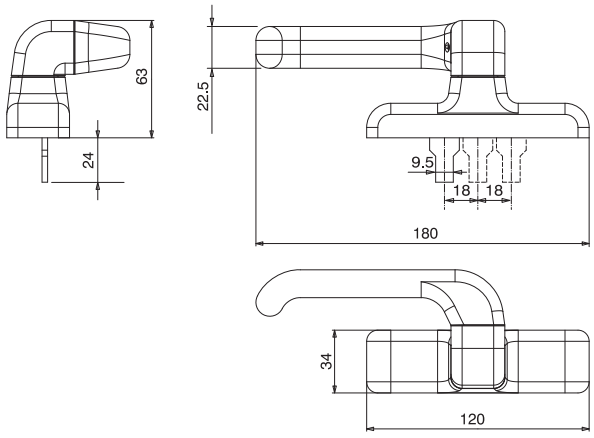
Technical Features
The use of high quality die-cast materials and the GIESSE painting system guarantee excellent mechanical performance, together with colour uniformity and good abrasion resistance.
EURO CW cremones are designed for installation with C/C distance 98 mm, but can easily be adapted for fixing with a C/C distance of 104 mm and 84 mm. The special form of the pull handle makes it easy to insert the hand, thus allowing the handling of large-size sashes.

Materials
Handle in die-cast aluminium
Cremone case, gear, racks and sliding parts in die-cast zamak.
Offset block and plate in die-cast zamak
Hostaform internal sheathing
Spring, screw and fixing plate in stainless steel

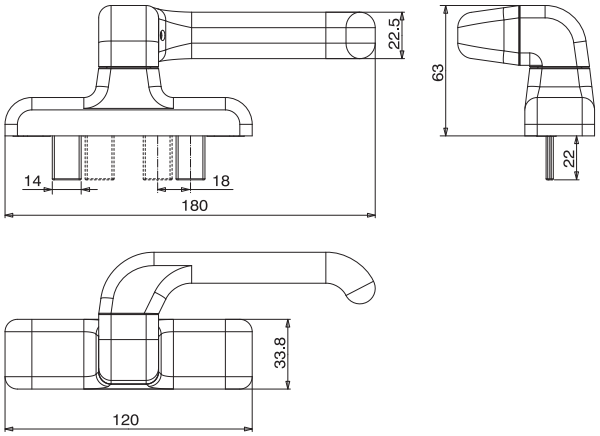
050062 - LX



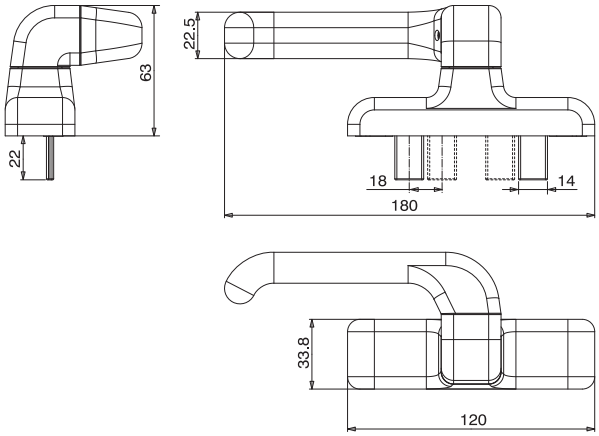
050061 - RX



050072 - LX

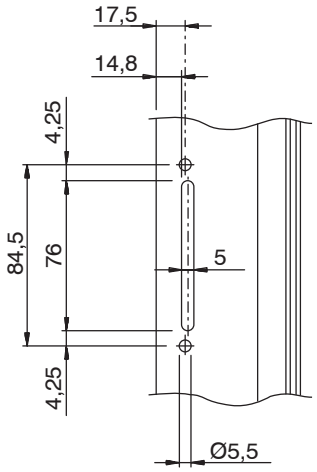


050071 - RX

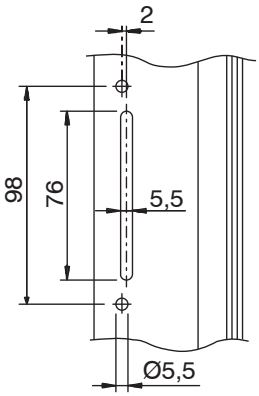


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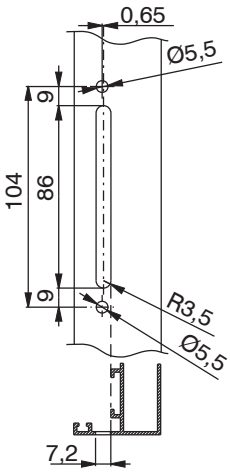
C/C distance machining 84.5 mm



C/C distance machining 98 mm



C/C distance machining 104 mm



Item code	Description	Version	Hand	C/C distances	Operation	Pull handle 0°	Pull handle 90°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
050061	EURO CW1 CREMONE-RIGHT		rx	104 - 98 - 84	one-way	Closed	open	X		X		5
050062	EURO CW1-LEFT CREMONE		lx	104 - 98 - 84	one-way	Closed	open	X		X		5
050071	EURO CW2 CREMONE-RH		rx	104 - 98 - 84	two-way	Closed	open	X		X		5
050072	EURO CW2-LEFT CREMONE		lx	104 - 98 - 84	two-way	Closed	open	X		X		5
050081	EURO KEY CW2 CREMONE-RH	Key	rx	104 - 98 - 84	two-way	Closed	open	X		X		5

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PRIMA CREMONE

Functions

Reversible cremone handle for operating the GIESSE Sash, Tilt-and-Turn Window and Tilt-and-Turn Window with Microventilation mechanisms.

Technical Features

The use of high quality die-cast materials, together with the GIESSE painting system, guarantees excellent mechanical performance, as well as colour uniformity and strong resistance to abrasion.
Depending on the version, they are available with snap positioning of the pull handle at 0°, 90°, 135° and 180°.
The PRIMA cremone is supplied pre-assembled right-handed.
Available in both one-way and two-way versions.
Depending on the version, the C/C distances of 84, 98 and 104 mm are possible.

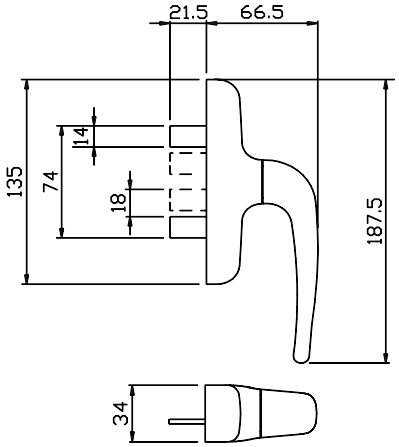
Materials

Handle in die-cast aluminium
Cremone case, gear, racks and sliding parts in die-cast zamak
Internal sheath and Hostaform plate
Spring, screws and fixing plate in stainless steel
On the Brass version, the case and handle are made of brass

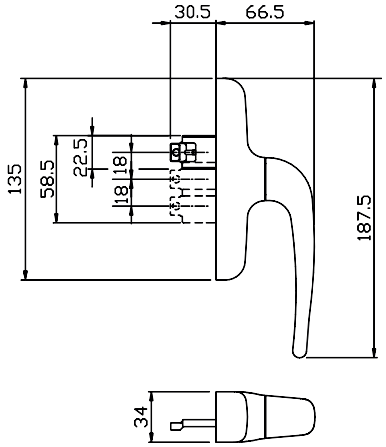
Parts

1 fixing plate
2 HSHC screws M5x14

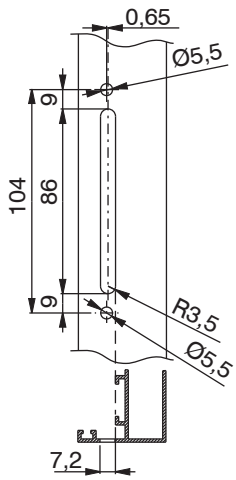
Version for sash



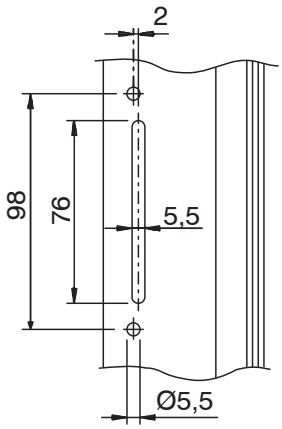
Version for tilt-and-turn window



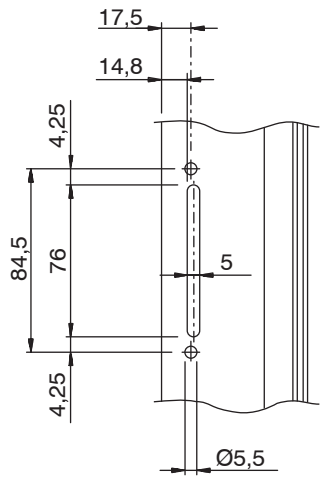
C/C distance machining 104 mm



C/C distance machining 98 mm



C/C distance machining 84.5 mm



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CREMONES
PRIMA CREMONE

Item code	Description	PROFILE CROSS - SECTION	Material	Type	C/C distances	Operation	Pull handle 0°	Pull handle 90°	Pull handle 135°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01024U	PRIMA CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010		Sash	104 - 98 - 84	two-way	closed	open			X		X	X	10
01039	PRIMA CREMONE	C001-C002-C003-C004-C005-C006-C012-C013-C014-C015-C016-C017		Tilt-and-turn window (microventilation)	104 - 98 - 84	one-way	closed	open	micro	bottom-hung windows	X		X	X	10
01120	PRIMA CREMONE	C001-C002-C003-C004-C005-C006-C012-C013-C014-C015-C016-C017	Brass	Tilt-and-turn window (microventilation)	104 - 98 - 84	one-way	closed	open	micro	bottom-hung windows				X	2
01121	PRIMA CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	Brass	Sash	104 - 98 - 84	two-way	closed	open						X	2

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PRIMA KEY CREMONE

Functions

Reversible cremone handle, with key lockable pull handle, with 90° rotation (side-hung window) or 90° and 180° (tilt-and-turn window) and opening/closing positioning notch.

Technical Features

The use of high quality die-cast materials and the GIESSE painting system guarantee excellent mechanical performance, together with colour uniformity and good abrasion resistance.
The cylinders of the FIRST KEY cremones have homogeneous coding, on request it is in any case possible to fulfill specific job orders with customized coding.
The cylinder of the PRIMA KEY Logica and Microventilation cremones has the Giesse Key Capture system.
The cylinder, depending on the version, allows locking the handle of the cremone to 90°, 135° and 180°. When the handle is at 90° or 135° it is possible to remove the key and then leave the sash in the tilt-and-turn or micro-ventilation position, in safety.
When the pull handle is at 180°, and therefore the sash is in the fully open position, it is not possible to remove the key from the cylinder.

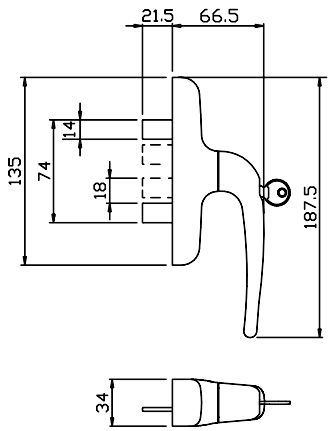
Materials

Handle in die-cast aluminium
Die-cast Zamak case, gears, racks and sliding parts
Nickel-plated brass cylinder
Internal sheath and Hostaform plate
Spring, screws and fixing plate in stainless steel

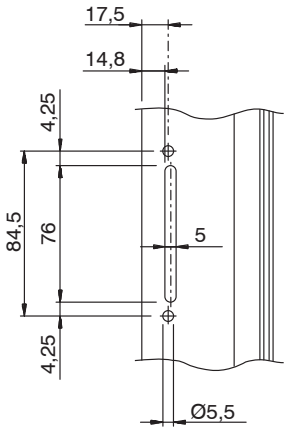
Parts

1 fixing plate
2 HSHC screws M5x14

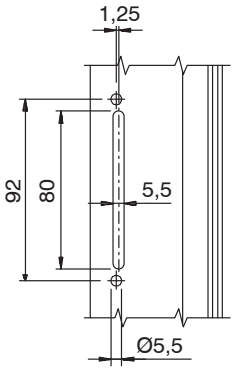
Two-way version



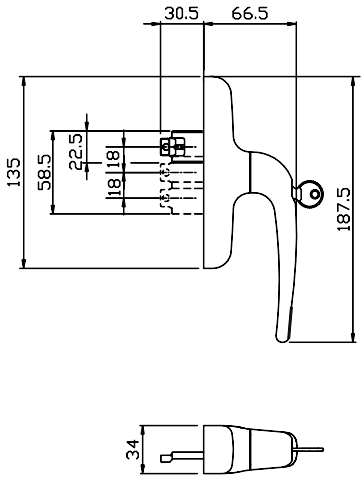
C/C distance machining 84.5 mm



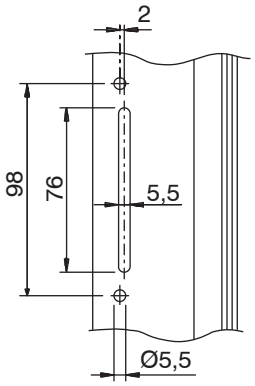
C/C distance machining 92 mm



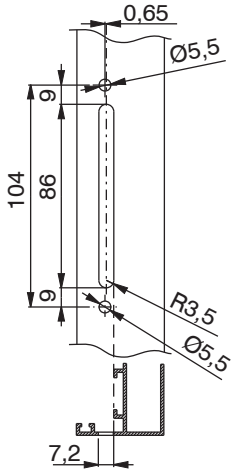
One-way version



C/C distance machining 98 mm



C/C distance machining 104 mm



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Item code	Description	PROFILE CROSS - SECTION	Material	Type	Version	C/C distances	Performance	Operation	Pull handle 0°	Pull handle 90°	Pull handle 135°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01011	PRIMA KEY CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010		Sash		104 - 98 - 92 - 84	> 100 N/m	Two-way	Closed	Open	-	-	X		X		5
01019	PRIMA KEY CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	Brass	Sash		104 - 98 - 84		Two-way	Closed	Open	-	-				X	2
0114901	PRIMA KEY CAPTURE CREMONE	C001-C002-C003-C004-C005-C006-C007-C012-C013-C014-C015-C016-C017		Tilt-and-turn window		104 - 92		One-way	Closed	Bottom-hung windows	-	Open key not removable	X		X		5
01192	PRIMA KEY CAPTURE LGC CREMONE	C001-C002-C003-C004-C005-C006-C007-C012-C013-C014-C015-C016-C017		Tilt-and-turn window	Logica	104 - 92	> 100 N/m	One-way	Closed	Bottom-hung windows	-	Open key not removable	X		X		5
01194	PRIMA KEY CAPTURE MICRO CREMONE	C001-C002-C003-C004-C005-C006-C007-C012-C013-C014-C015-C016-C017		Tilt-and-turn window	Micro	104 - 92	> 100 N/m	One-way	Closed	Bottom-hung windows	Micro	Open key not removable	X		X		5

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PRIMA UNIVERSAL CREMONE

Functions

Reversible cremone handle for central gasket systems with one-way mechanism, equipped with 90°, 135° (microventilation) and 180° rotation and snap positioning.

Technical Features

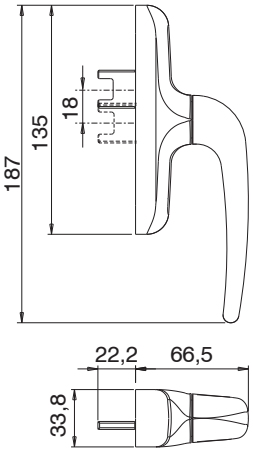
The use of high quality die-cast materials and the GIESSE painting system guarantee excellent mechanical performance, together with colour uniformity and good abrasion resistance.
The cremone is specific to one-way mechanisms such as the tilt-and-turn window and for the side-hung window it also enables using micro-ventilation.
Product designed as part of the GIESSE SPACE Project, for use in combination with GIESSE automatic machines.
The incorrect movement safety device necessary for tilt-and-turn windows is contained in the SPAZIO GIESSE tilt-and-turn mechanism.
Available also in a version with the Rapid 104 hook, which is a patented system, fast to assemble.

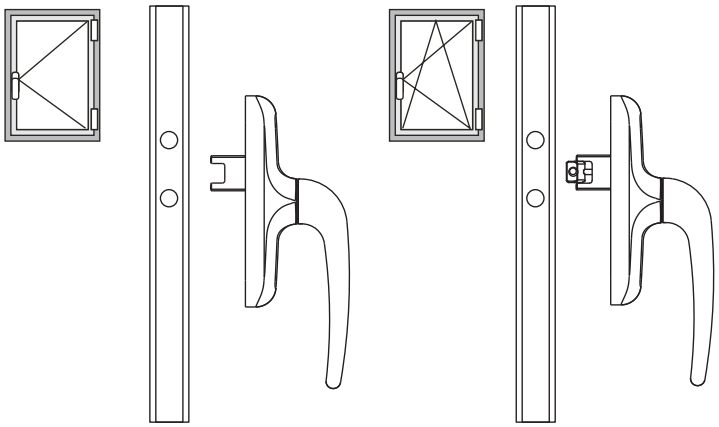
Materials

Handle in die-cast aluminium
Cremone case, gear, racks and sliding parts in die-cast zamak
Internal sheath and Hostaform plate
Spring, screw and fixing plate in stainless steel

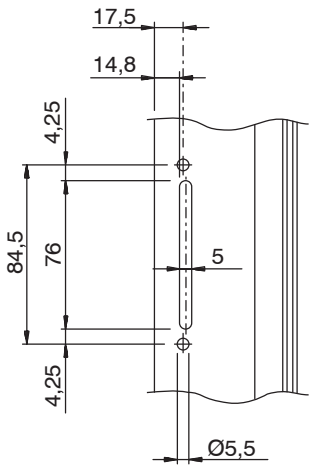
Parts

1 fixing plate
2 HSHC screws Mx14

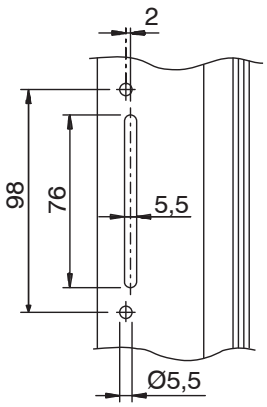




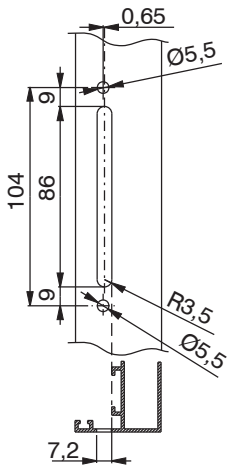
C/C distance machining 84.5 mm



C/C distance machining 98 mm



C/C distance machining 104 mm



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Item code	Description	PROFILE CROSS - SECTION	Material	Version	C/C distances	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01038	PRIMA UNIVER.MICROVENTILA-TION CREMONE	C001-C002-C003-C004-C005-C006-C012-C013-C014-C015-C016-C017		Micro-ventilation	104 - 98 - 84	X		X		10

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ASIA CREMONE

Functions

Reversible cremone handle for operating the GIESSE Sash, Tilt-and-Turn Window and Tilt-and-Turn Window with Microventilation mechanisms.

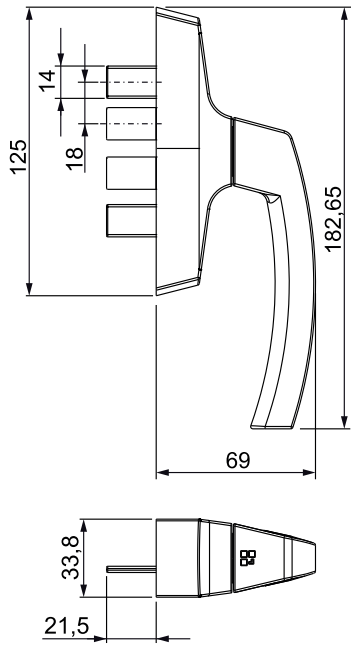
Technical Features

The use of high quality die-cast materials and the GIESSE painting system guarantee excellent mechanical performance, together with colour uniformity and good abrasion resistance.
The Asia cremone has a fixing C/C distance of 104 mm and 92 mm, but can be easily adapted for fixing with a C/C distance of 84 and 98 mm.

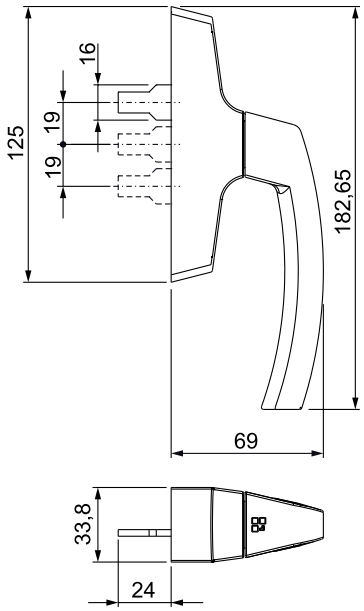
Materials

Handle in die-cast aluminium
Cremone case, gear racks in die-cast zamak
Internal sheath and Hostaform plate
Steel spring
Stainless steel screws and fixing plate

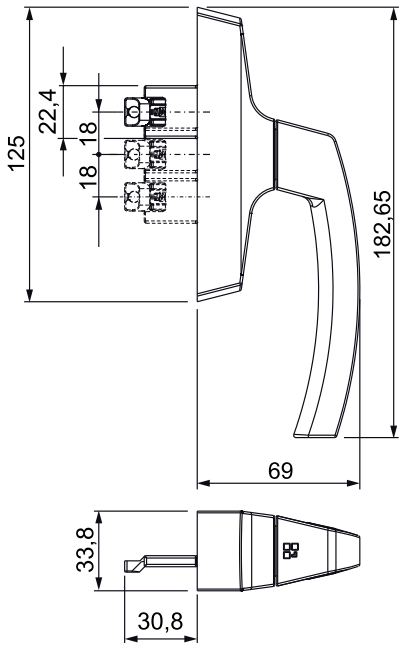
Overall dimensions of cremone for sash



Overall dimensions of cremone for MP tilt-and-turn

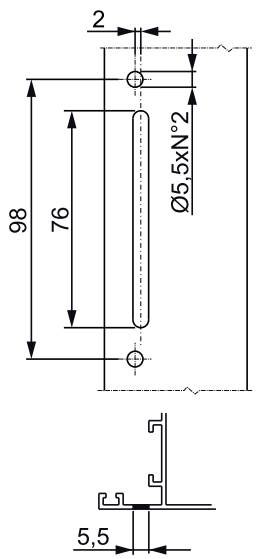


Overall dimensions of cremone for tilt-and-turn

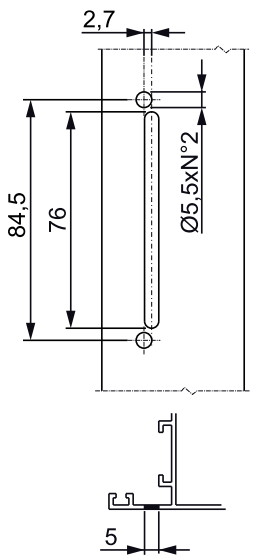


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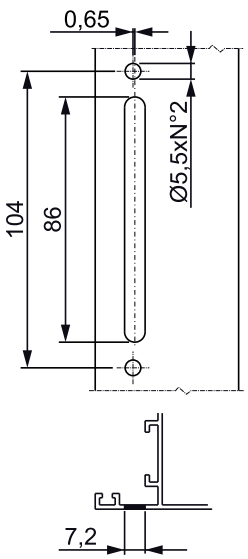
C/C distance machining 98 mm



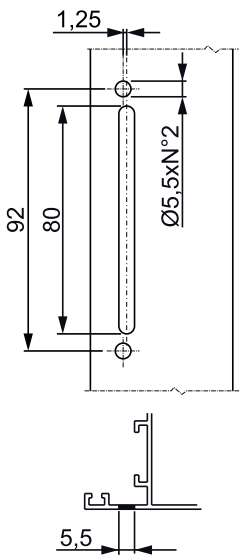
C/C distance machining 84.5 mm



C/C distance machining 104 mm



C/C distance machining 92 mm



Item code	Description	PROFILE CROSS - SECTION	Type	C/C distances	Operation	Pull handle 0°	Pull handle 90°	Pull handle 135°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01064	ASIA MP CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	Tilt-and-turn window	104 - 98 - 92 - 84	one-way	closed	open	-	bot-tom-hung windows	X		X		20
01076	ASIA CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	Sash	104 - 98 - 92 - 84	two-way	closed	open	-	-	X		X		10
01084	ASIA CREMONE	C001-C002-C003-C004-C005-C006-C012-C013-C014-C015-C016-C017	Tilt-and-turn window (microventi-lation)	104 - 98 - 92 - 84	one-way	closed	open	micro	bot-tom-hung windows	X		X		10

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ASIA KEY CREMONE

Functions

Reversible cremone, with key lockable handle, with rotation through 90°, 135° (micro-ventilation version) and 180° and opening/closing positioning notch.

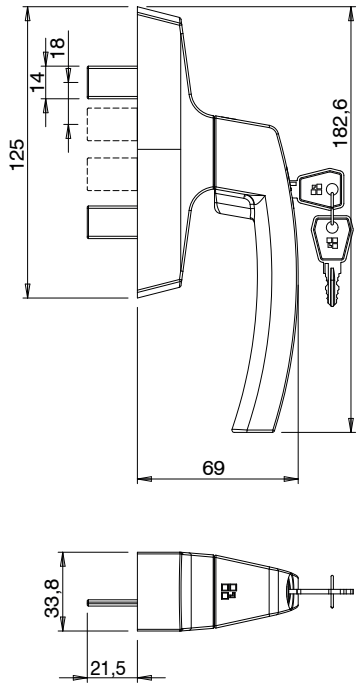
Technical Features

The use of high quality die-cast materials and the GIESSE painting system guarantee excellent mechanical performance, together with colour uniformity and good abrasion resistance.
The cylinders of the ASIA KEY cremones have homogeneous coding, on request it is in any case possible to fulfill specific job orders with customized coding.
The cylinder of the ASIA KEY Logica and Microventilation Logica cremones has the Giesse Key Capture system.
The cylinder, depending on the version, allows locking the handle of the cremone to 90°, 135° and 180°. When the handle is at 90° or 135° it is possible to remove the key and then leave the sash in the tilt-and-turn or micro-ventilation position, in safety.
When the pull handle is at 180°, and therefore the sash is in the fully open position, it is not possible to remove the key from the cylinder.

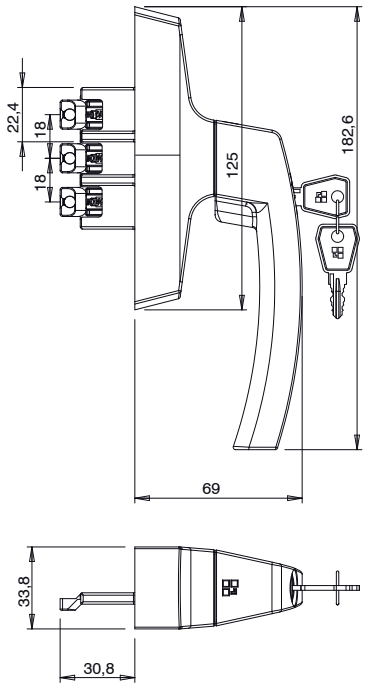
Materials

Handle in die-cast aluminium
Die-cast Zamak case, gears, racks and sliding parts
Nickel-plated brass cylinder
Hostaform plate
Spring, screws and fixing plate in stainless steel

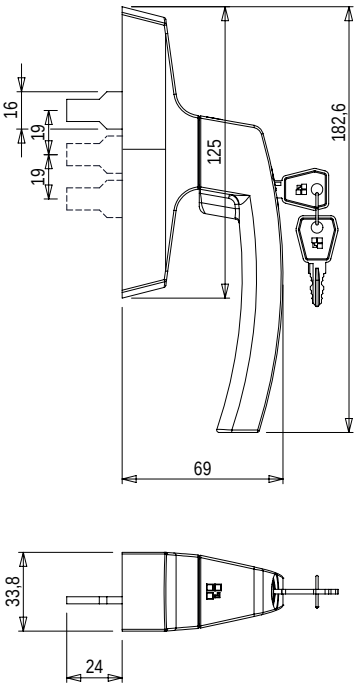
Overall dimensions art. 01065



Overall dimensions art. 01085

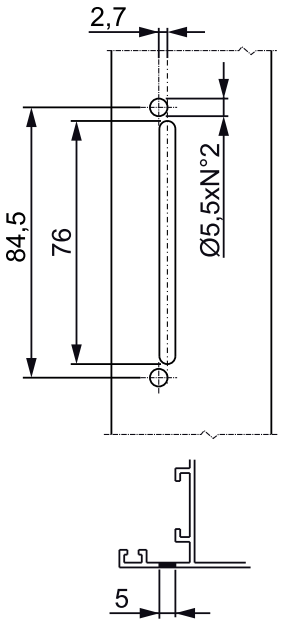


Overall dimensions art. 01196

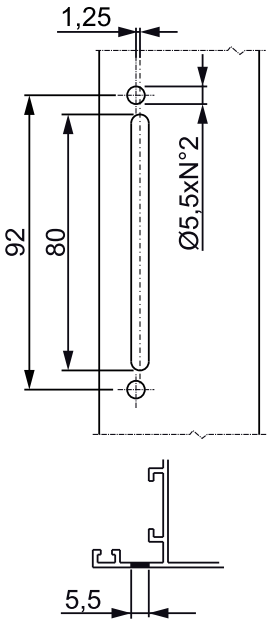


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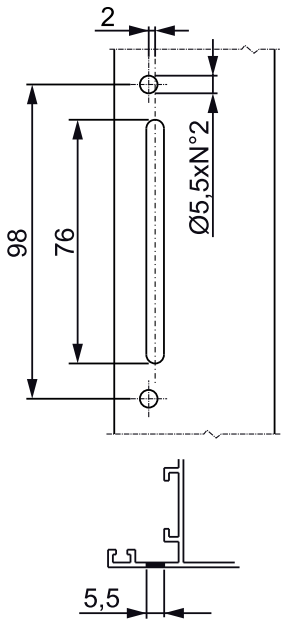
C/C distance machining 84.5 mm



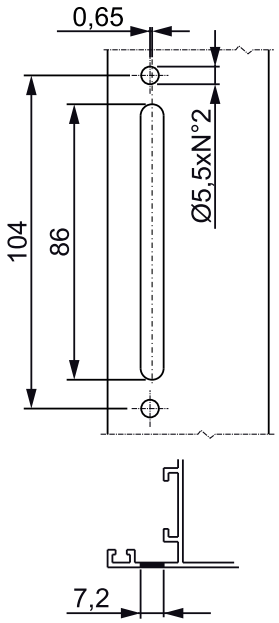
C/C distance machining 92 mm



C/C distance machining 98 mm



C/C distance machining 104 mm



Item code	Description	PROFILE CROSS - SECTION	Type	Version	C/C distances	Performance	Operation	Pull handle 0°	Pull handle 90°	Pull handle 135°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01065	ASIA KEY CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	Sash	-	104 - 98 - 92 - 84	> 100 N/m	two-way	closed	open	-	-	X		X		5
01086	ASIA KEY CAPTURE LGC CREMONE	C001-C002-C003-C004-C005-C006-C007-C012-C013-C014-C015-C016-C017	Tilt-and-turn window	Logica	104 - 92	> 100 N/m	one-way	closed	bottom-hung windows	-	open	X		X		5
01087	ASIA KEY CAPTURE MICRO CREMONE	C001-C002-C003-C004-C005-C006-C007-C012-C013-C014-C015-C016-C017	Tilt-and-turn window	Micro	104 - 92	> 100 N/m	one-way	closed	bottom-hung windows	micro	open	X		X		5
01196	ASIA KEY T/T MONOPINNA CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	Tilt-and-turn window	-	104 - 98 - 92 - 84	> 100 N/m	One-way	closed	open	-	bottom-hung windows	X		X		5

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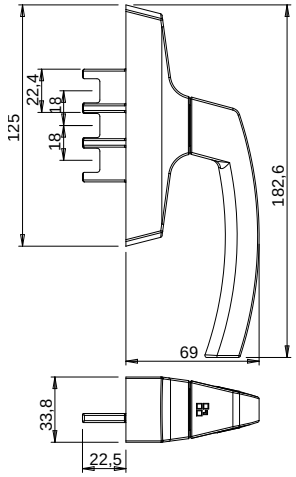


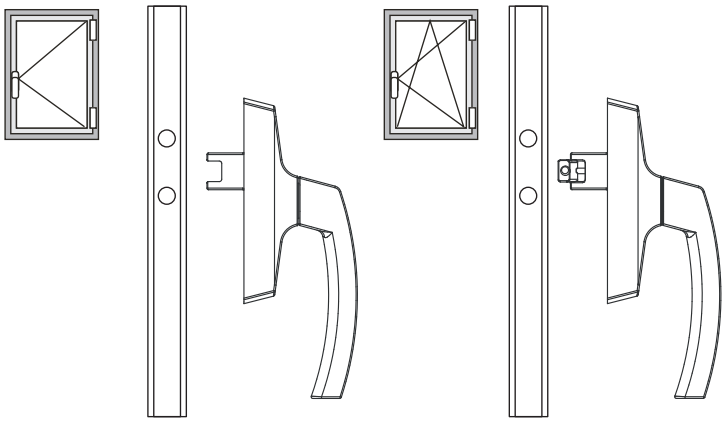
ASIA UNIVERSAL CREMONE

Functions
Reversible cremone for central gasket systems with one-way mechanism, equipped with 90°, 180° rotation and positioning notch.

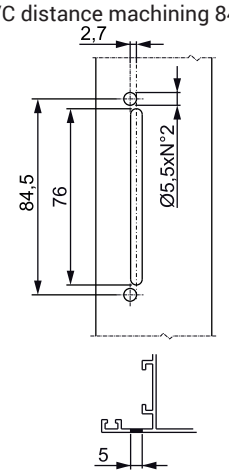
Technical Features
The cremone is specific to one-way closing systems such as tilt-and-turn and side-hung.
Product designed as part of the GIESSE SPACE Project, for use in combination with GIESSE automatic machines.
The incorrect movement safety device necessary for tilt-and-turn windows is contained in the SPAZIO GIESSE tilt-and-turn mechanism.
The use of high quality die-cast materials and the GIESSE painting system guarantee excellent mechanical performance, together with colour uniformity and good abrasion resistance.

Materials
Handle in die-cast aluminium
Cremone case, gear, racks and sliding parts in die-cast zamak
Internal sheath and Hostaform plate
Spring, screw and fixing plate in stainless steel

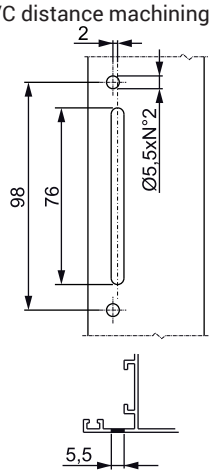




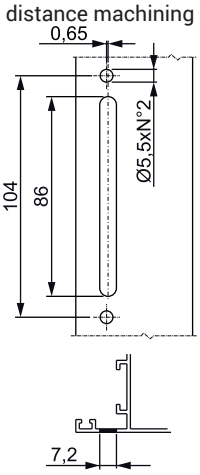
C/C distance machining 84.5



C/C distance machining 98



C/C distance machining 104



Item code	Description	PROFILE CROSS - SECTION	C/C distances	Operation	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01005	ASIA UNIVERSAL CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	104 - 98 - 84	one-way	X		X		10

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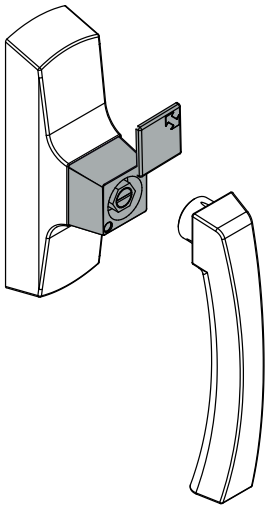


ASIA AWAY CREMONE

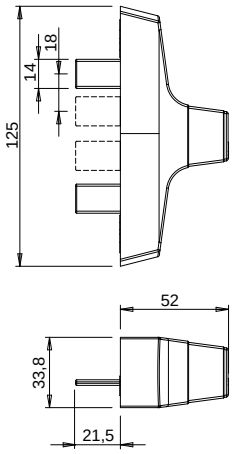
Functions
Reversible cremone handle for operating GIESSE Sash and Tilt-and-Turn with micro-ventilation mechanisms. Enables operating casements and removing the handle for security requirements.

Technical Features
The use of high quality die-cast materials and the GIESSE painting system guarantee excellent mechanical performance, together with colour uniformity and good abrasion resistance.
Depending on the version, they are available with snap positioning of the handle at 0°, 90°, 135° and 180°.
The ASIA cremone is supplied pre-assembled right-handed.
Available in both one-way and two-way versions.
The Asia cremone has a fixing C/C distance of 104 mm and 92 mm, but can be easily adapted for fixing with a C/C distance of 84 and 98 mm.
For use in combination with the removable handle.

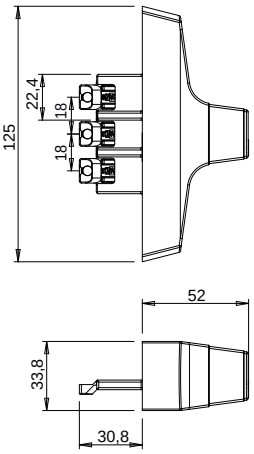
Materials
Cremone case, gear racks in die-cast zamak
Internal sheath and Hostaform plate
Stainless steel screws and fixing plate
Away turret and cap in black polyamide
Handle in die-cast aluminium



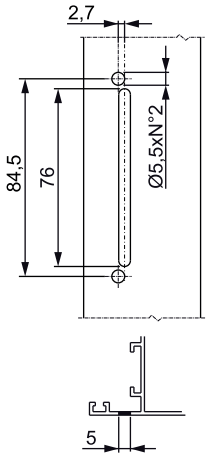
Overall dimensions art. 01078



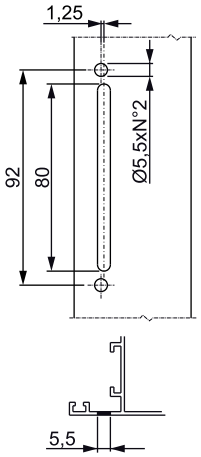
Overall dimensions art. 01079



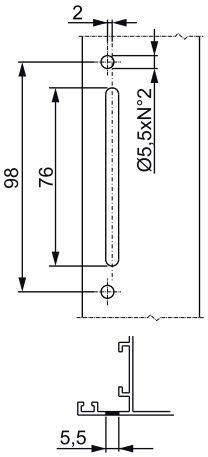
C/C distance machining 84.5 mm



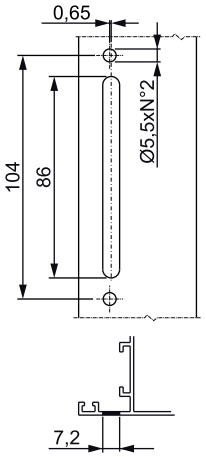
C/C distance machining 92 mm



C/C distance machining 98 mm



C/C distance machining 104 mm



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Item code	Description	PROFILE CROSS - SECTION	Type	C/C distances	Operation	Pull handle 0°	Pull handle 90°	Pull handle 135°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01078	ASIA AWAY CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002	Sash	104 - 98 - 92 - 84	two-way	closed	open	-	-	X		X		10
01079	ASIA AWAY CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	Tilt-and-turn window (microventilation)	104 - 98 - 92 - 84	one-way	closed	open	micro	bottom-hung windows	X		X		10
01111	ASIA REMOVABLE HANDLE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	-	-	-	-	-	-	-			X		1

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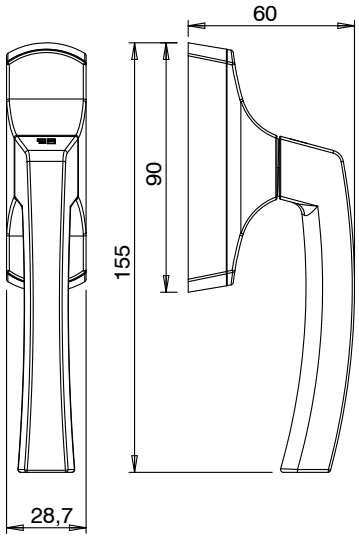
ASIA OUTWARD 0-90 CREMONE

Functions
Reversible cremone for outward opening with space saving.

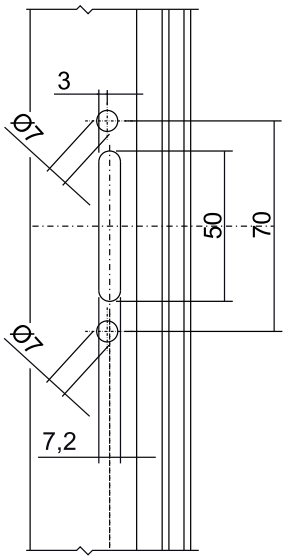
Technical Features
The cremone is specific to one-way closing systems with handle positioning at 0° and 90°.
The use of high quality die-cast materials and the GIESSE painting system guarantee excellent mechanical performance, together with colour uniformity and good abrasion resistance.
The Asia Outward 0-90 cremone has a fixing C/C distance of 70 mm.
The cremone is to be matched with the outward opening casement kits and the drive rod devices.

Materials
Handle in die-cast aluminium
Case, case cover and rotor in zamak
Spring and screw of stainless steel

Dimensions art. 01077



C/C distance machining 70 mm



Item code	Description	Type	C/C distances	Operation	Pull handle 0°	Pull handle 90°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01077	ASIA OUTWARD 0-90 CREMONE	Outward Opening	70	One-way	Closed	Open	X		X		10

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PULL DEVICES

Components for connecting the one-way cremones to the connection rods of the window.

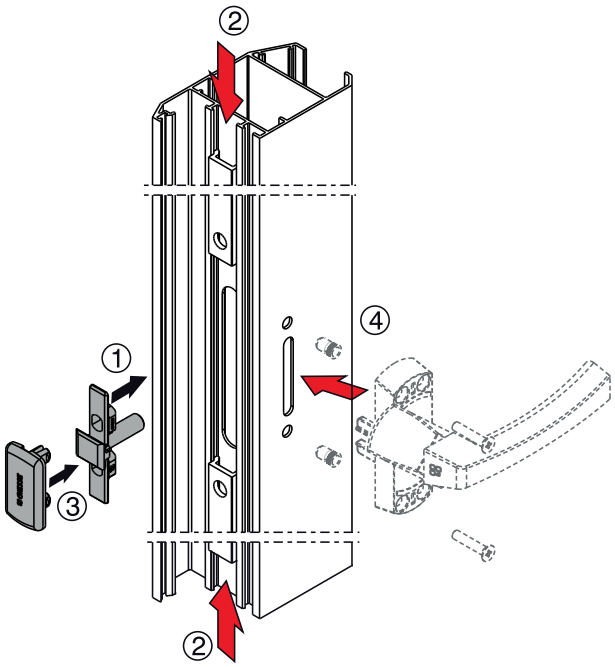


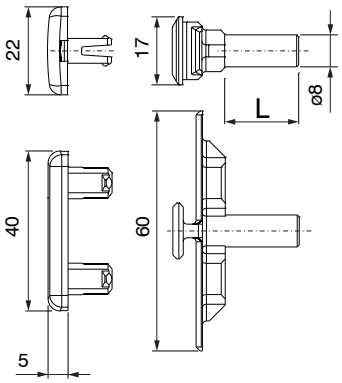
Technical features

It is used to connect the cremones with one-way movement (in pre-assembled or disassembled versions) to the closing rod of an aluminium window.
This generally concerns Shutter-type outward or Side Hung openings.
The Giesse patented rod pull device has a pin of diameter 8 mm of different lengths depending on the article.

Materials

Driving pin in zamak
Rod joining plug in black polyamide





Item code	Description	Type of Opening	L pin	Rod Type	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04091	ROD PULL DEVICE	External - Shutters	40	Euro Groove	X				20
04097001	ROD PULL DEVICE	External - Shutters	26	Erre	X				20
04098001	ROD PULL DEVICE	External - Shutters	9,5	Euro Groove	X				20
04099001	ROD PULL DEVICE	External - Shutters	18,5	Euro Groove	X				20
04104	ROD PULL DEVICE	External - Shutters	19	Euro Groove	X				20
04105	ROD PULL DEVICE	External - Shutters	28	Euro Groove	X				20

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ASIA 0-90 OUTWARD OPENING KIT



Components that, added to the Asia 0-90 Cremone, without internal components, enable converting it into the finished product.

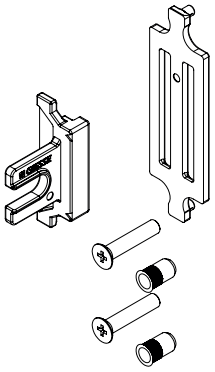
Technical features

Completion kit that allows you to connect the cremone to the rod for fastening the window.
Composed of the internal components and fixing components (screws and rivets) that must be suitably mounted by the window maker.

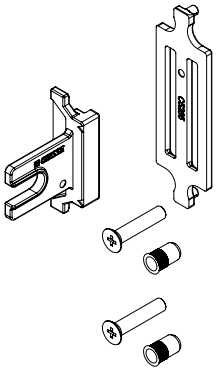
Materials

Black polyamide plate
Zamak slider
Screws and rivets of stainless steel

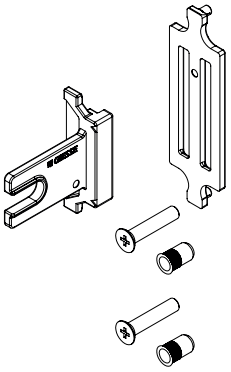
art. 02495



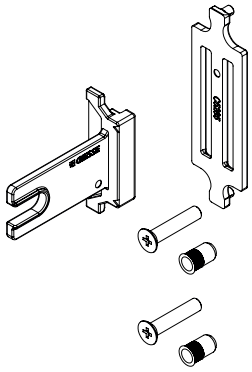
art. 02496



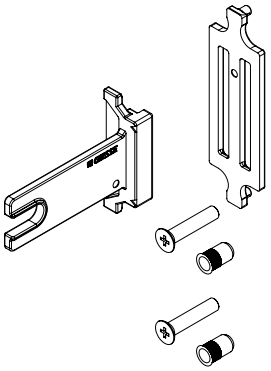
art. 02497



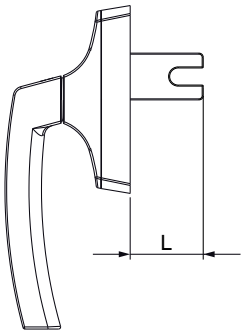
art. 02498



art. 02499



L= Slider length



Item code	Description	Slider length	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02495	OUTWARD OPENING KIT	20 mm	X				10
02496	OUTWARD OPENING KIT	28 mm	X				10
02497	OUTWARD OPENING KIT	35 mm	X				10
02498	OUTWARD OPENING KIT	45 mm	X				10
02499	OUTWARD OPENING KIT	55 mm	X				10

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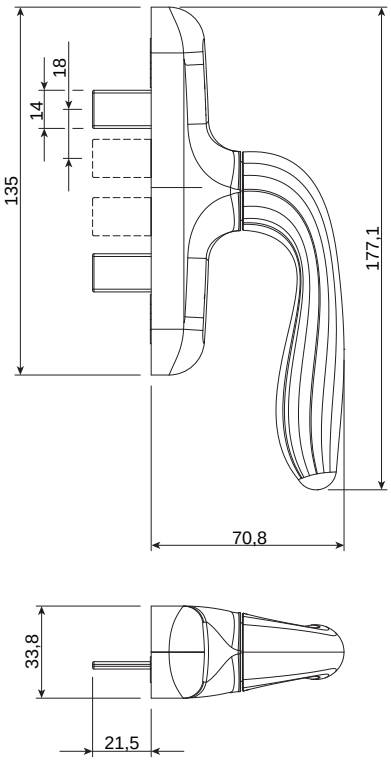
ESSEN CREMONE

Functions
Reversible cremone handle for operating the GIESSE Sash and Tilt-and-Turn Window mechanisms.

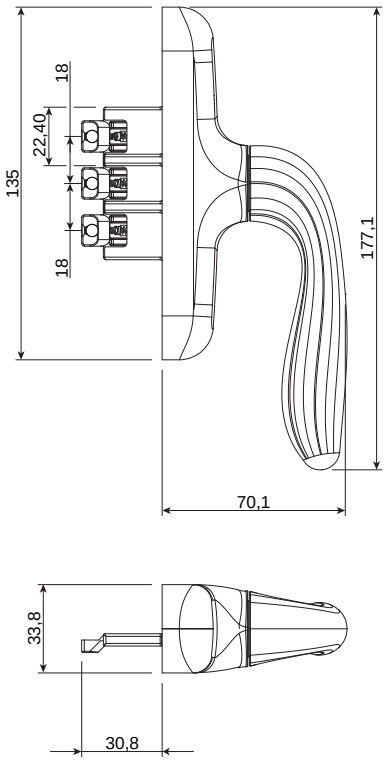
Technical Features
The use of high quality die-cast materials and the GIESSE painting system guarantee excellent mechanical performance, together with colour uniformity and good abrasion resistance.
The Essen cremone has a fixing C/C distance of 104 mm, but can be easily adapted for fixing with a C/C distance of 84 and 98 mm.

Materials
Handle in die-cast aluminium
Cremone case, gear racks in die-cast zamak
Internal sheath and Hostaform plate
Steel spring
Stainless steel screws and fixing plate

Overall dimensions of cremone for sash

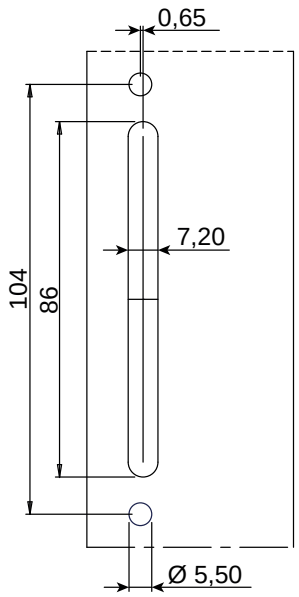


Overall dimensions of cremone for tilt-and-turn

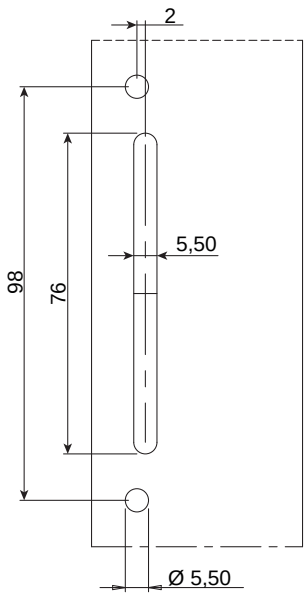


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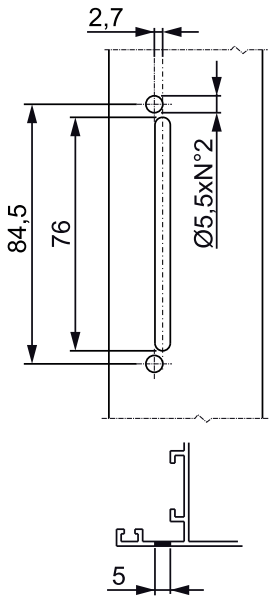
C/C distance machining 104 mm



C/C distance machining 98 mm



C/C distance machining 84.5 mm



Item code	Description	PROFILE CROSS - SECTION	Material	Type	C/C distances	Operation	Pull handle 0°	Pull handle 90°	Pull handle 135°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
06980	ESSEN CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010		Sash	104 - 98 - 84	two-way	closed	open			X		X		20

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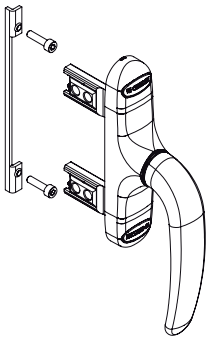
UNICA CREMONE

Functions
Reversible cremone handle for actioning Giesse mechanisms.

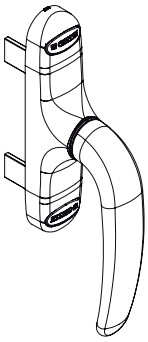
Technical Features
With the Unica Cremone it is possible to have the same stylish operation on casements for Inward Opening, Outward Opening and Tilt-and-Turn Window Shutter.
The Unica cremone, supplied right-handed, has a fixing C/C distance of 104 mm.
Available both with two-way and one-way mechanism, with handle positioning notches at 0°, 90° and 180° and in the APEX version.
The Unica Apex Cremone can be fitted on shutter profiles or with outward opening and does not require using the internal connection kit.
The Apex system, patented by Giesse, is easily and quickly mounted on the sash profile after doing the appropriate machining.
The possible range of the telescopic slider is from 16 mm to 35 mm.
The pins to be used to transfer the motion from the cremone sliders to the rod depend on the specific geometry of the profile and must be chosen from the available Giesse ones.

Materials
Handle in painted die-cast aluminium
Case in paint-finished die-cast zamak
Steel spring
Zinc plated steel screw
Shim in Hostaform
Rotor, racks and sliders in die-cast zamak.

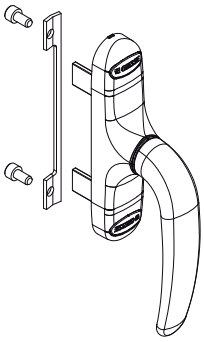
Art. 01154001



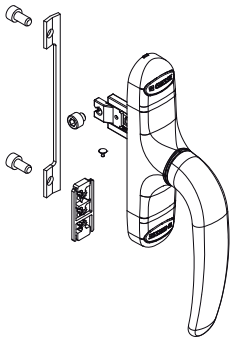
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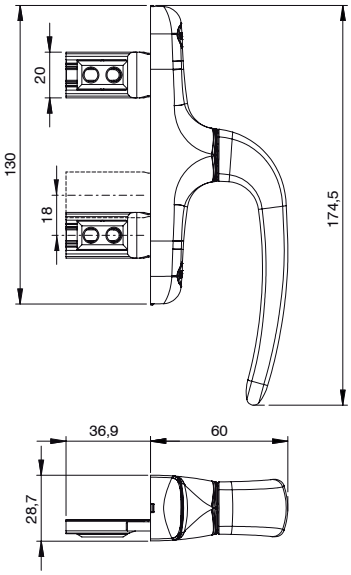
Art. 01157001



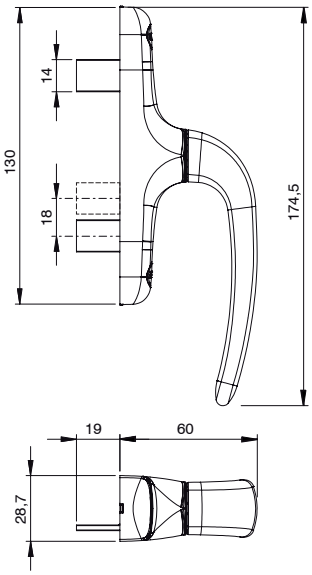
Art. 01159001



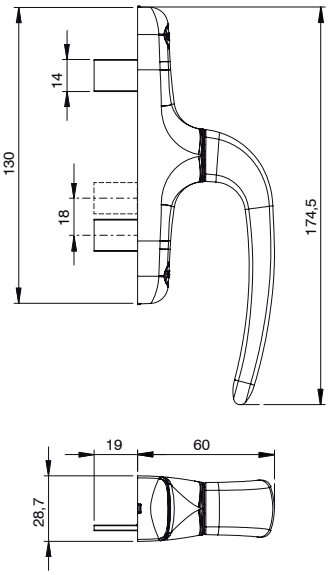
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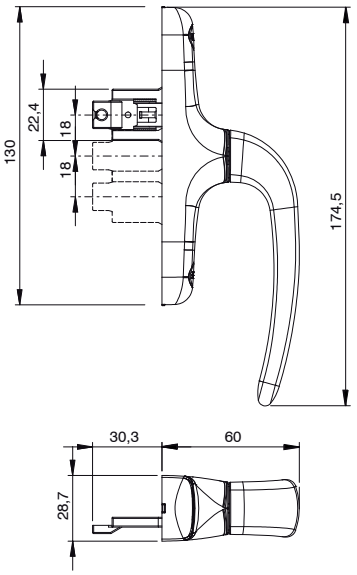
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Art. 01157001

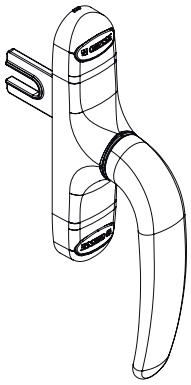


Art. 01159001

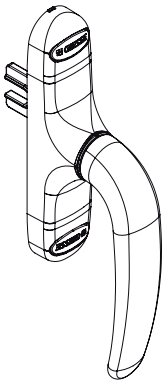


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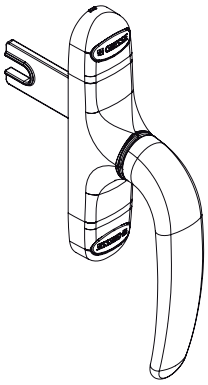
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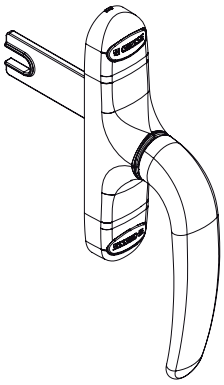
Art. 01165N



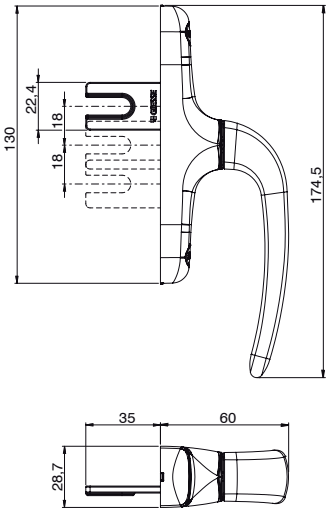
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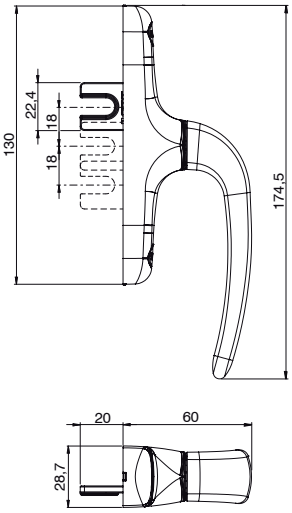
Art. 01173N



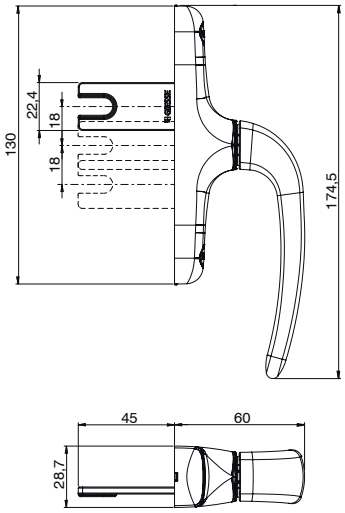
Art. 01164N



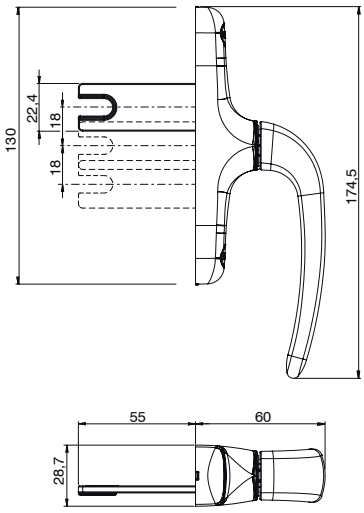
Art. 01165N



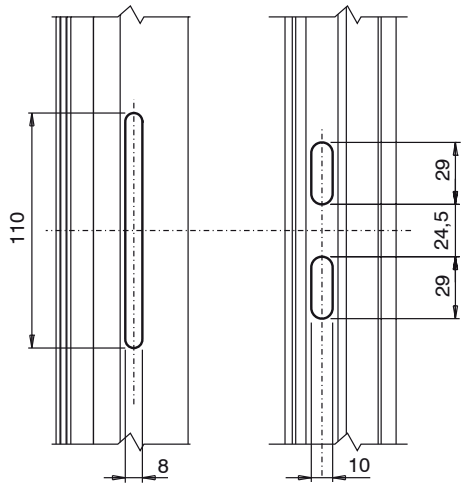
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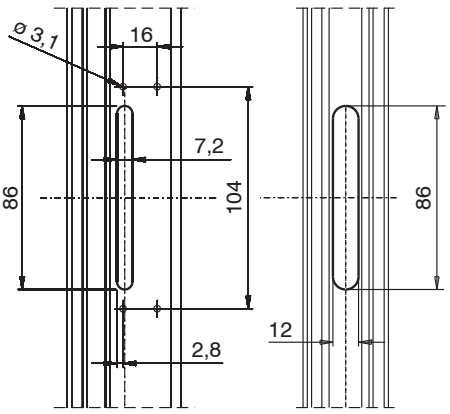
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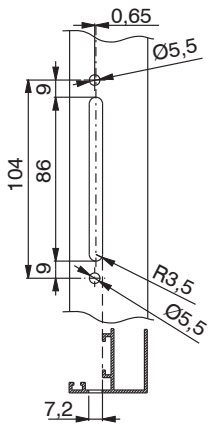
Cremone machining art. 01154001, 01155001



Cremone machining art. 01164N, 01165N, 01166N, 01173N



Cremone machining art. 01157001, 01159001



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Item code	Description	PROFILE CROSS - SECTION	Type of Opening	Operation	Pull handle 0°	Pull handle 90°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01154001	UNICA APEX CREMONE	-	External - Shutters	Two-way	closed	open		X		X	X	10
01155001	UNICA CREMONE	-	External - Shutters	Two-way	closed	open				X	X	10
01157001	UNICA CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	Internal	Two-way	closed	open				X	X	10
01159001	UNICA CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	Tilt-and-turn window	One-way	closed	open	bottom-hung windows			X	X	10
01164N	UNICA ONE-WAY CREMONE	-	External - Shutters	One-way	closed	open		X		X		20
01165N	UNICA ONE-WAY CREMONE	-	External - Shutters	One-way	closed	open		X		X		10
01166N	UNICA ONE-WAY CREMONE	-	External - Shutters	One-way	closed	open		X		X		10
01173N	UNICA ONE-WAY CREMONE	-	External - Shutters	One-way	closed	open		X		X		10

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PULL DEVICES

Components for connecting the one-way cremones to the connection rods of the window.

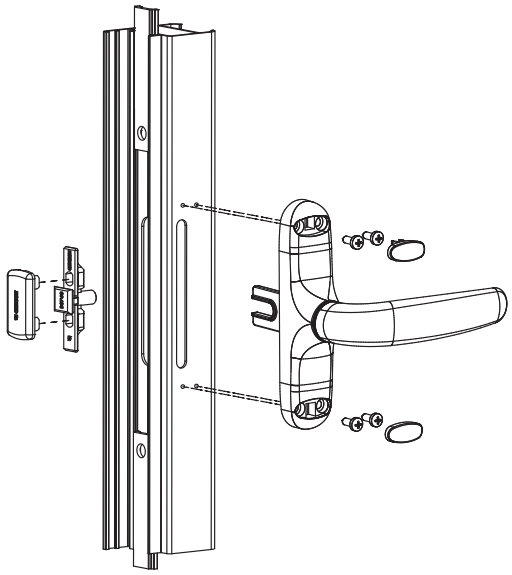
Technical Features

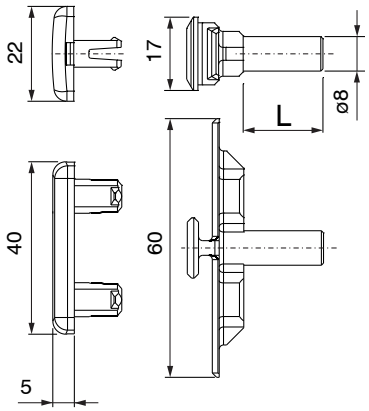
It is used to connect the cremones with one-way movement (in pre-assembled or disassembled versions) to the closing rod of an aluminium window.
This generally concerns Shutter-type outward or Side Hung openings.
The Giesse patented rod pull device has a pin of diameter 8 mm of different lengths depending on the article.

Materials

Driving pin in zamak
Rod joining plug in black polyamide







Item code	Description	Type of Opening	L pin	Rod Type	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04091	ROD PULL DEVICE	External - Shutters	40	Euro Groove	X				20
04097001	ROD PULL DEVICE	External - Shutters	26	Erre	X				20
04098001	ROD PULL DEVICE	External - Shutters	9,5	Euro Groove	X				20
04099001	ROD PULL DEVICE	External - Shutters	18,5	Euro Groove	X				20
04104	ROD PULL DEVICE	External - Shutters	19	Euro Groove	X				20
04105	ROD PULL DEVICE	External - Shutters	28	Euro Groove	X				20

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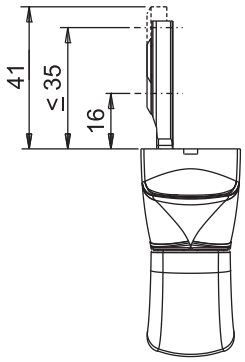
CONNECTION PINS

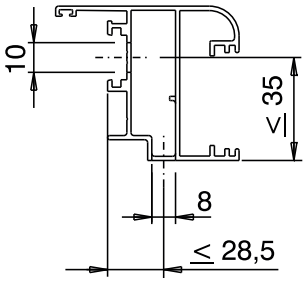


Functions
Zinc plated steel pin to move the mechanism from the cremone to the closing rods.

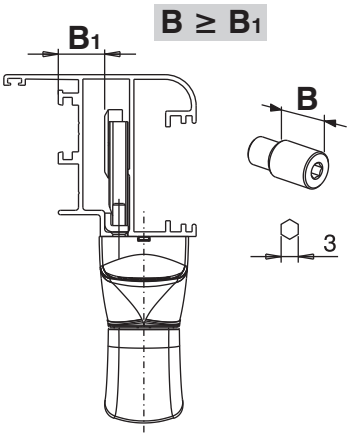
Technical features
To be inserted in the telescopic sliders of Unica Apex cremones, in the position shown in the fitting instructions.

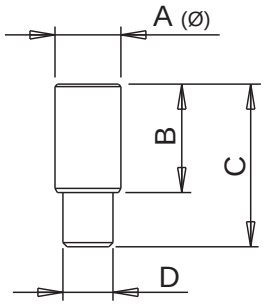
Materials
Zinc-nickel plated steel

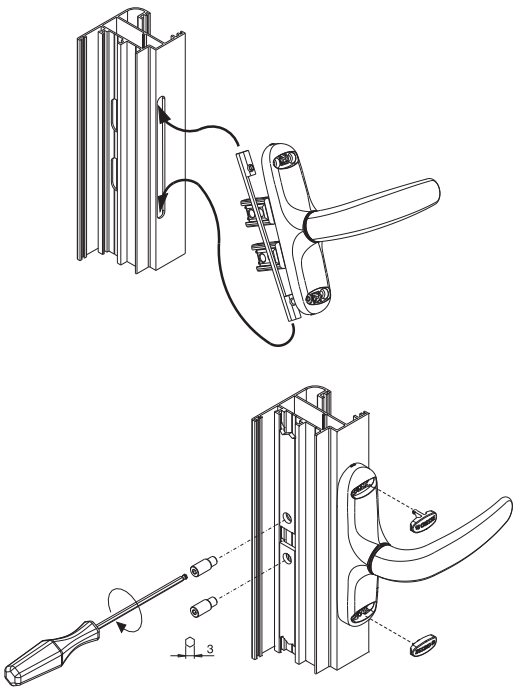




Example of application with Unica Apex cremone







Item code	Description	A (mm)	B (mm)	C (mm)	D	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02251K	CONNECTION PIN	7,9	10	16,5	M6	X				200
02252K	CONNECTION PIN	7,9	13	19,5	M6	X				200
02253K	CONNECTION PIN	7,9	16	22,5	M6	X				200
02254K	CONNECTION PIN	7,9	24	30,5	M6	X				200
02255K	CONNECTION PIN	7,9	20	26,5	M6	X				200

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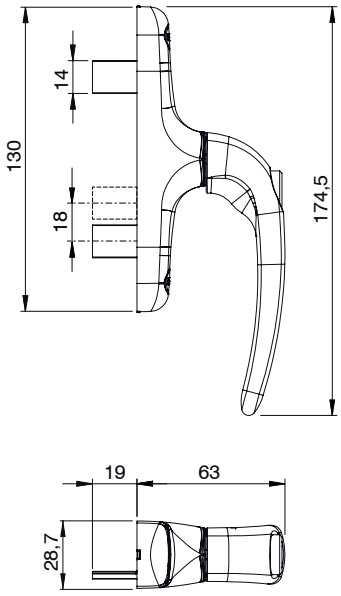


UNICA KEY CREMONE

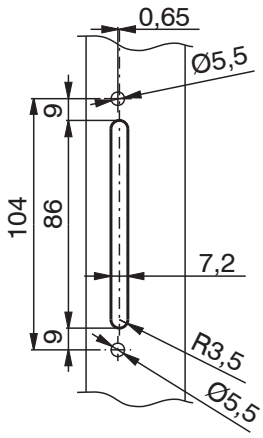
Functions
Reversible cremone handle with key for operating the Giesse mechanisms.

Technical Features
The Unica Key cremone has a fixing C/C distance of 104 mm.
Supplied right-hand pre-assembled it is easily converted into left-hand.
The pull handle is lockable with a key in both the closed and open position.

Materials
Handle in painted die-cast aluminium.
Case in paint-finished die-cast zamak.
Spring in harmonic steel.
Stainless steel screws and fixing plate.
Rotor, racks and sliders in die-cast zamak.



C/C distance machining 104 mm



Item code	Description	Type	C/C distances	Operation	Pull handle 0°	Pull handle 90°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01163N	UNICA KEY CREMONE	Outward Opening Casement - Shutters	104	Two-way	closed	open	X		X		10

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UNICA AWAY CREMONE

Functions

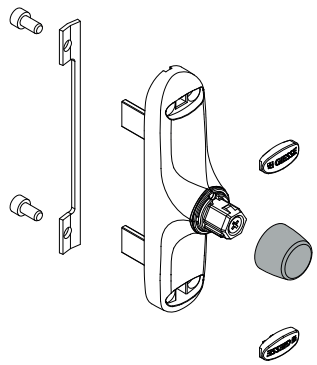
Reversible cremone handle, with removable pull handle supplied separately, for operating the Giesse mechanisms.
Ideal for hospitals, schools and all other locations in which operation of the casements is not to be left to the discretion of the end user.

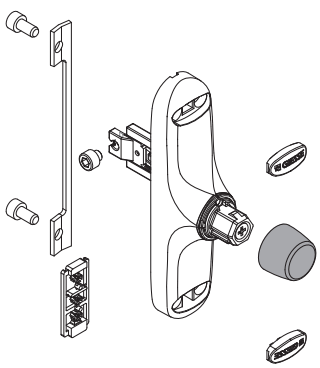
Technical Features

The Unica Away cremone is available both right and left handed and has a fixing C/C distance of 104 mm.
The Unica Away Cremone does not have a removable pull handle which is supplied separately.
The removable handle can be used in conjunction with all Unica Away Cremones.
It is fixed on the snap-mounting cremone by pressing on its hexagon and it stays attached there during operation.
The part of the pull handle which mounts to the cremone is designed to engage in such a way that it is always in phase with the mechanism.
The design and elongated shape of the handle (172 mm) make it easy to handle in any application.

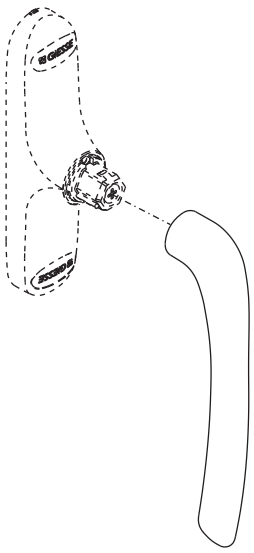
Materials

Handle in painted die-cast aluminium
Case in paint-finished die-cast zamak
Steel spring
Stainless steel screws and fixing plate.
Rotor, racks and sliders in die-cast zamak.

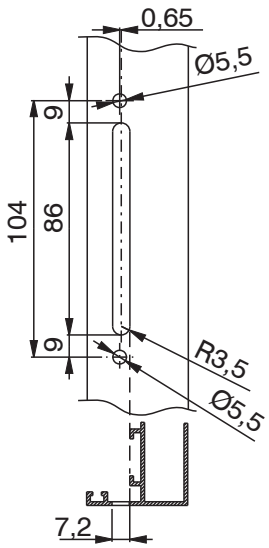




Handle application

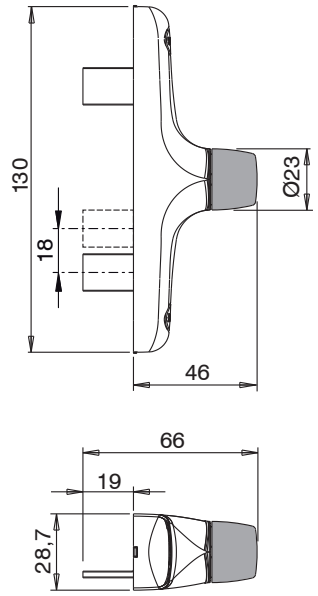


C/C distance machining 104 mm

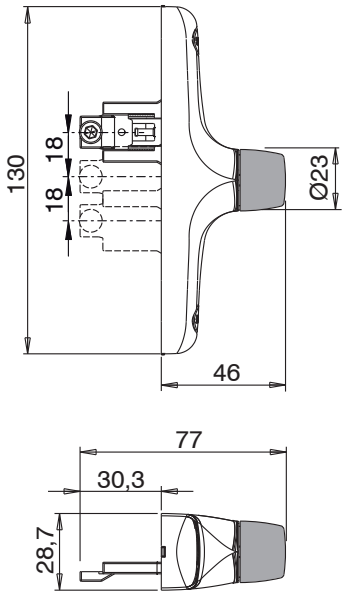


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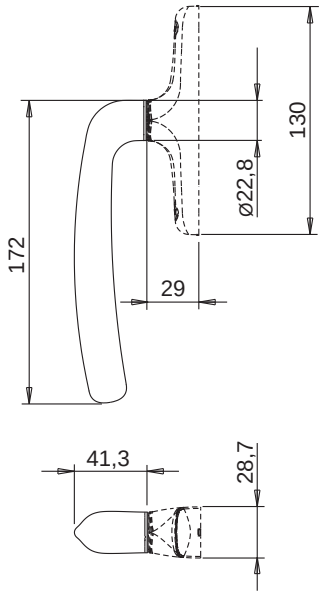
Dimensions art. 01138



Dimensions art. 01139



Dimensions art. 01129



Item code	Description	PROFILE CROSS - SECTION	Type	C/C distances	Operation	Pull handle 0°	Pull handle 90°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01129	PULL HANDLE FOR UNICA AWAY	-	-	-	-	-	-	-			X		10
01138	UNICA AWAY CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	Inward opening	104	two-way	closed	open				X		10

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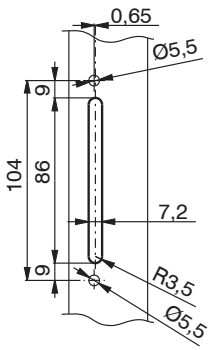
UNICA CW 2 CREMONE

Functions
Reversible cremone handle for actioning Giesse curtain wall mechanisms.

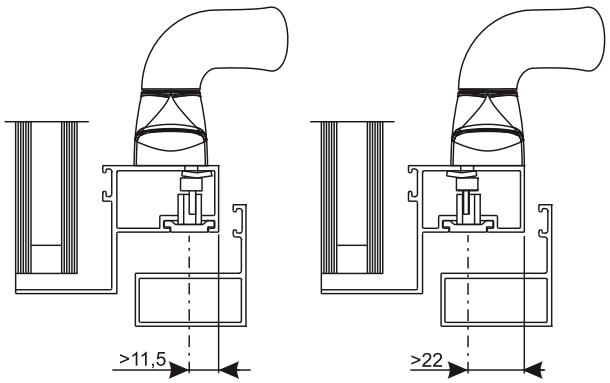
Technical Features
The Unica CW2 cremone is available both right and left handed and has a fixing C/C distance of 104 mm.
Available with two-way mechanism, with pull handle positioning notch at 0° and 90°.
The special form of the pull handle makes it easy to insert the hand, thus allowing the handling of large-size sashes.

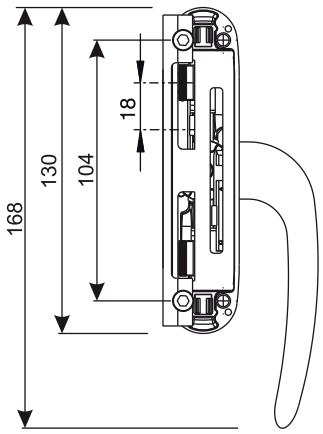
Materials
Handle in painted die-cast aluminium
Case in paint-finished die-cast zamak
Steel spring
Stainless steel screws and fixing plate
Rotor, racks and sliders in die-cast zamak

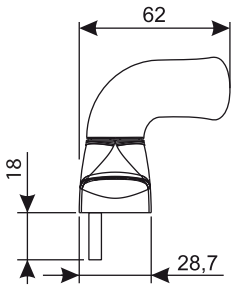
C/C distance machining 104 mm



Assembly scheme







Item code	Description	Hand	Type	C/C distances	Operation	Pull handle 0°	Pull handle 90°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
011701	UNICA OFFSET HANDLE CW2 CREMONE	rx	Curtain wall	104	two-way	closed	open	X		X		5
011702	UNICA OFFSET HANDLE CW2 CREMONE	lx	Curtain wall	104	two-way	closed	open	X		X		5

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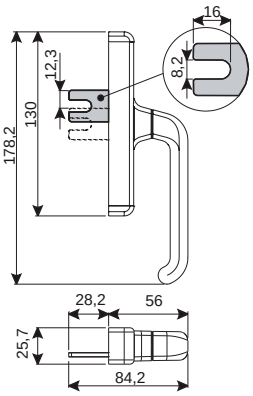
NOVA CREMONE

Functions
Reversible cremone handle, ideal for outward opening systems and shutters, with handle rotation to 90° and opening/closing positioning notch.

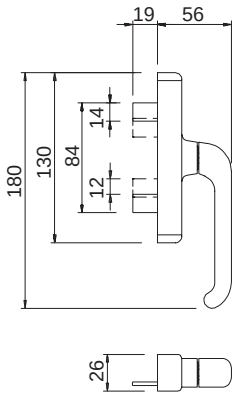
Technical Features
Available in both one-way and two-way versions.
For both versions there is the version with pull handle locking to make the window more secure: on the back of the pull handle there is a button that the end user needs to press to be able to turn the pull handle.
Supplied right-hand pre-assembled it has a stroke of 12 mm for the sliders.
The NOVA cremone has machining with a C/C distance of 104 mm.

Materials
Handle in die-cast aluminium.
Die-cast Zamak case, gears, racks and sliding parts.
Extruded aluminium body cover.
Fibreglass reinforced polyamide plate.

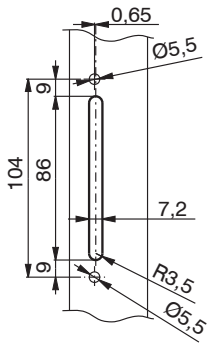
One-way version



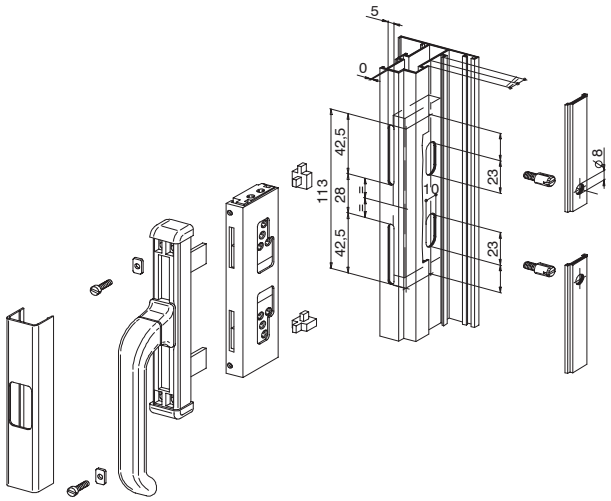
Two-way version



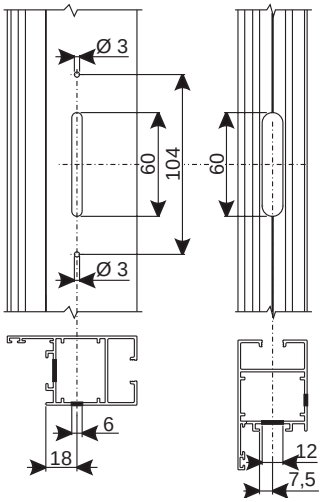
C/C distance machining 104 mm one-way version



C/C distance machining 108 mm two-way version



Two-way version machining



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Item code	Description	Type	Functions	C/C distances	Operation	Slider length	Pull handle 0°	Pull handle 90°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01004	NOVA CREMONE	Outward opening		Figure 1	Two-way	19 mm	Closed	open	X		X		20
01006	NOVA CREMONE - with block	Outward opening	pull handle lock	Figure 1	Two-way	19 mm	Closed	open	X		X		20
01009	NOVA CREMONE with ext. slid.	Outward opening		Figure 1	Two-way	25 mm	Closed	open	X		X		20
01114	NOVA CREMONE SINGLE-SLIDER	Outward opening		Figure 2	One-way	16 mm	Closed	open	X		X		20
01116	NOVA CREMONE W/ SINGLE-SLID-ER BLOCK	Outward opening	pull handle lock	Figure 2	One-way	16 mm	Closed	open	X		X		20

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SUPERNOVA CREMONE

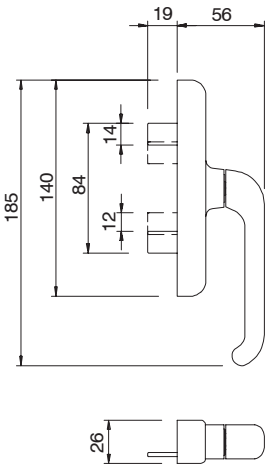
Functions
Reversible cremone handle, for inward-opening systems with handle rotation to 90° and opening/closing positioning notch.

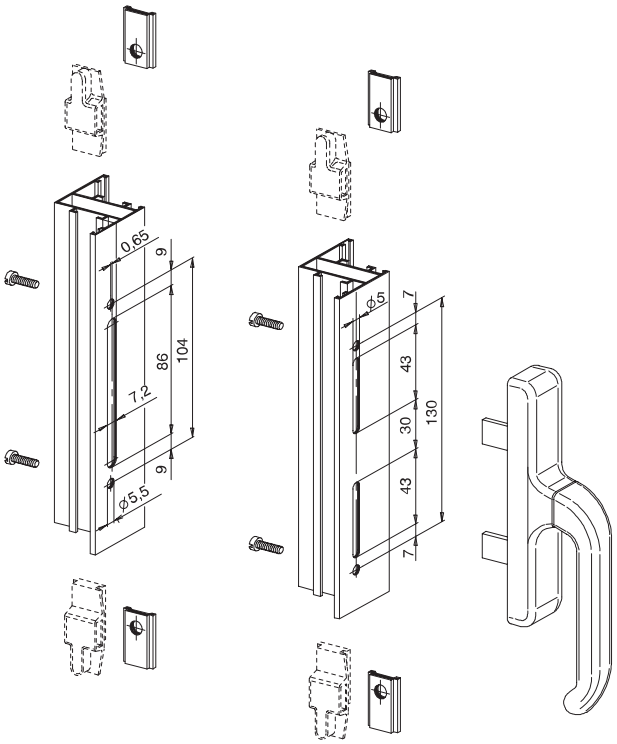
Technical Features
As for the EURO Cremones, whose stylish design it incorporates, the use of quality die-cast materials together with the high reliability of the GIESSE painting system gives the SUPERNOVA Cremone high surface quality and strong resistance to external agents.
The SUPERNOVA cremone is supplied right-handed, with a fixing C/C distance of mm. 130 and revives the concept of unification also using the standard EURO machining of 104 mm.

Materials
Handle in die-cast aluminium.
Die-cast Zamak case, gears, racks and sliding parts.
Stainless steel screws

Parts
2 CH screws M4x10

C/C distance machining 104 mm and 130 mm.





Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01007	SUPERNOVA CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	X		X		20

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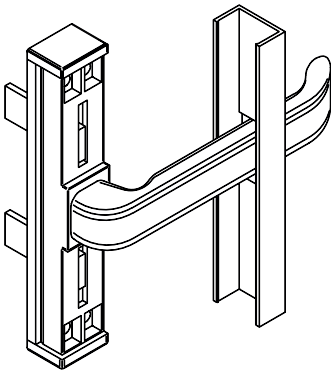


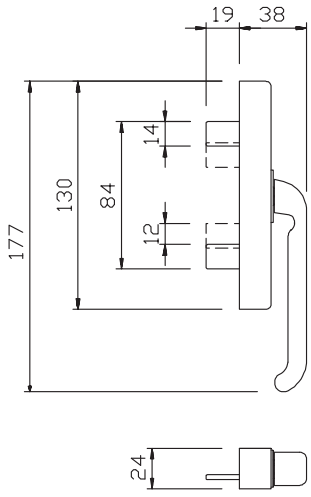
COUPE' CREMONE

Functions
Reversible cremone handle, with lowered handle and rotation of 120°, designed for outward opening and shutters that, because of the interior dimensions, require a mechanism with a particularly compact size.

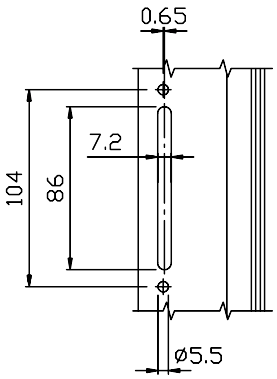
Technical Features
The COUPE' Cremone, supplied right-hand, revives the concept of unification by using the standard EURO 104 mm machining and the 108 mm machining. It is only 38 mm high, with a line that allows you to match it with the EURO, NOVA and SUPERNOVA Cremones.

Materials
Handle in die-cast aluminium
Gears, racks and sliders in die-cast zamak.
Case and plate in reinforced polyamide.
Extruded aluminium body cover.

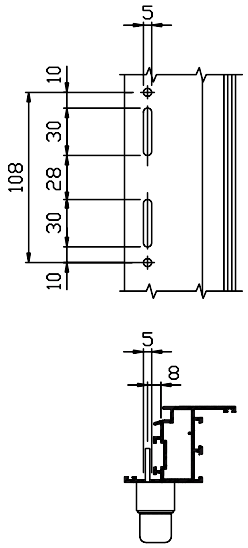




C/C distance machining 104 mm



C/C distance machining 108 mm



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01056	COUPE' CREMONE		X		X		20

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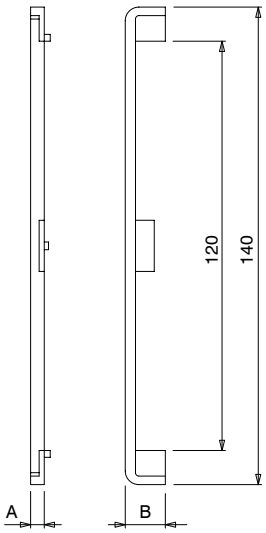
SHIMS AND STEPS

Functions
Shims and steps in polyamide for mounting Giesse cremones on rounded or stepped profiles

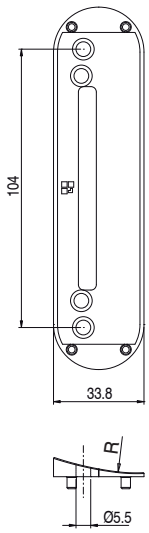
Technical Features
The shims and steps ensure perfect functionality and hold of the cremones on certain corner-rounded profiles or profiles with a step.

Materials
Polyamide

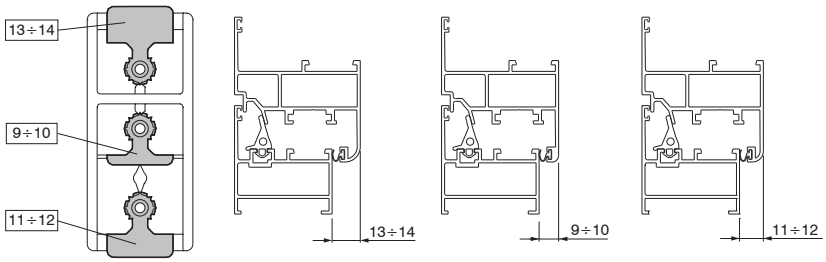
D1 - Step for Cremone



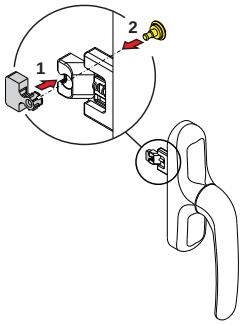
D2 - Shim for cremone
(R = radius)



D3 - Shims for incorrect movement safety device

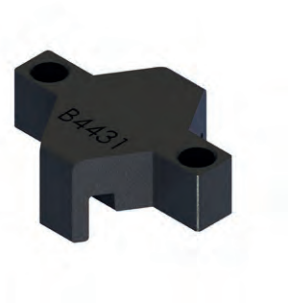


D3 - Mounting shims for incorrect movement safety device



Item code	Description	A (mm)	B (mm)	Radius (mm)	Drawing	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01123	INCORRECT MOVEMENT SAFETY DEVICE SHIM KIT	-	-	-	D3	X				50
01137	SHIM FOR CREMONE	-	-	120	D2	X				100

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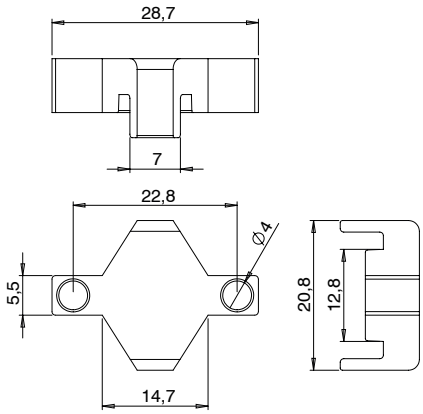


STOP BLOCK

Functions
Component to be inserted in the mechanism of a one-way cremone to lock its rotation at 90°.

Technical Features
This device must be inserted within the mechanism of one-way cremones if you want to block the stroke of the sliders at 90°.

Materials
Polyamide



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02235	90° CREMONE STOP BLOCK	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	X				100

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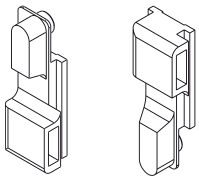


DRIVE ROD COMPONENTS

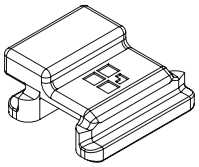
Functions

Polyamide reversible components for the connection between the cremones and the rods of the profile of a central gasket aluminium sash window.

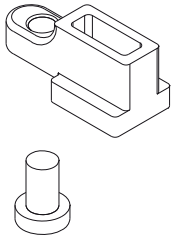
drawing 1



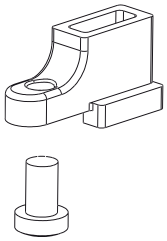
drawing 2



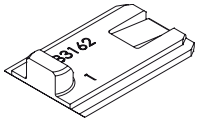
drawing 3



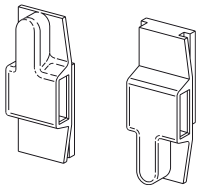
drawing 4



drawing 5



drawing 6

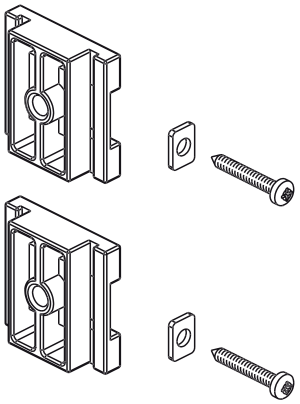


Item code	Description	PROFILE CROSS - SECTION	Material	Colour	Drawing	Ø rod	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02119	CONNECTING BLOCKS	C003	Polyamide	Black	drawing 1	6 mm	X				100
02236	CONNECTING BLOCKS	(FOR CURTAIN WALL)	Zamak	Grey	drawing 4	6 ÷ 8 mm	X				50
02262	CONNECTING BLOCKS	(FOR CURTAIN WALL)	Zamak	Grey	drawing 3	6 ÷ 8 mm	X				50
02307	CONNECTING BLOCKS	C001-C002-C003-C004-C005-C006-C009-C010-C012-C013-C014-C015-C016-C017	Polyamide	Black	drawing 6	8 mm	X				100
02385	CONNECTING BLOCKS	C007	Polyamide	Black	drawing 1	8 mm	X				100
02385K	CONNECTING BLOCKS	C007	Polyamide	Grey	drawing 1	8 mm	X				100
02386	CONNECTING BLOCKS	C008	Polyamide	Black	drawing 1	8 mm	X				100
02387	CONNECTING BLOCKS	C001-C002-C003-C004-C005-C006-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	Polyamide	Black	drawing 1	8 mm	X	X			100
02387K	CONNECTING BLOCKS	C001-C002-C003-C004-C005-C006-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	Polyamide	Grey	drawing 1	8 mm	X				100

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Item code	Description	PROFILE CROSS - SECTION	Material	Colour	Drawing	Ø rod	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03474	DRIVE ROD COMPONENT	C001-C002-C003-C004-C005-C006-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	Zamak	Black	drawing 2	-	X				20
03474K	DRIVE ROD COMPONENT	C001-C002-C003-C004-C005-C006-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	Zamak	Grey	drawing 2	-	X				20
03475K	DRIVE ROD COMPONENT	C001-C002-C003-C004-C005-C006-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	Zamak	Grey	drawing 5	8 mm	X				100

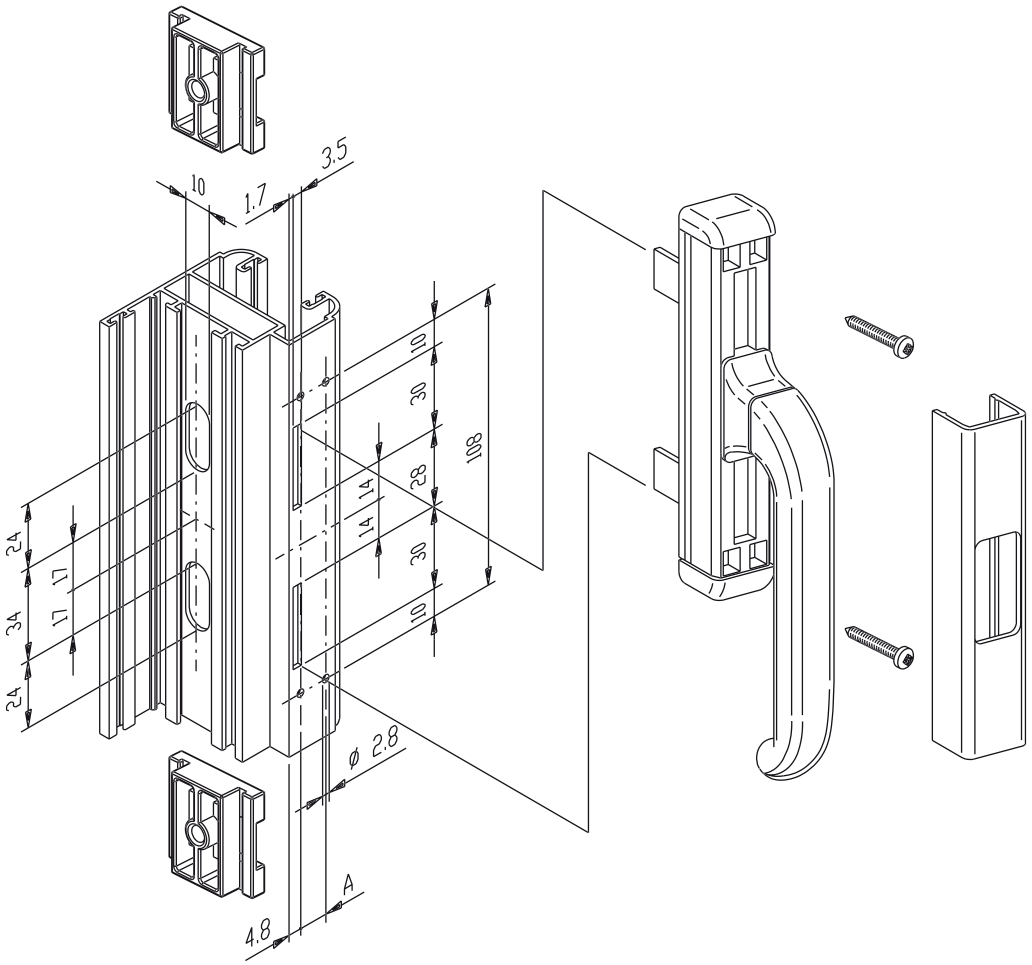
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NOVA CONNECTION KIT

Component for connecting the NOVA cremone with the rods of the profile of a window made of aluminium with outward opening.

Materials
Guide blocks in polyamide with fibreglass
Washers and screws in zinc plated steel



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02248	NOVA CONNECTION KIT		X				100

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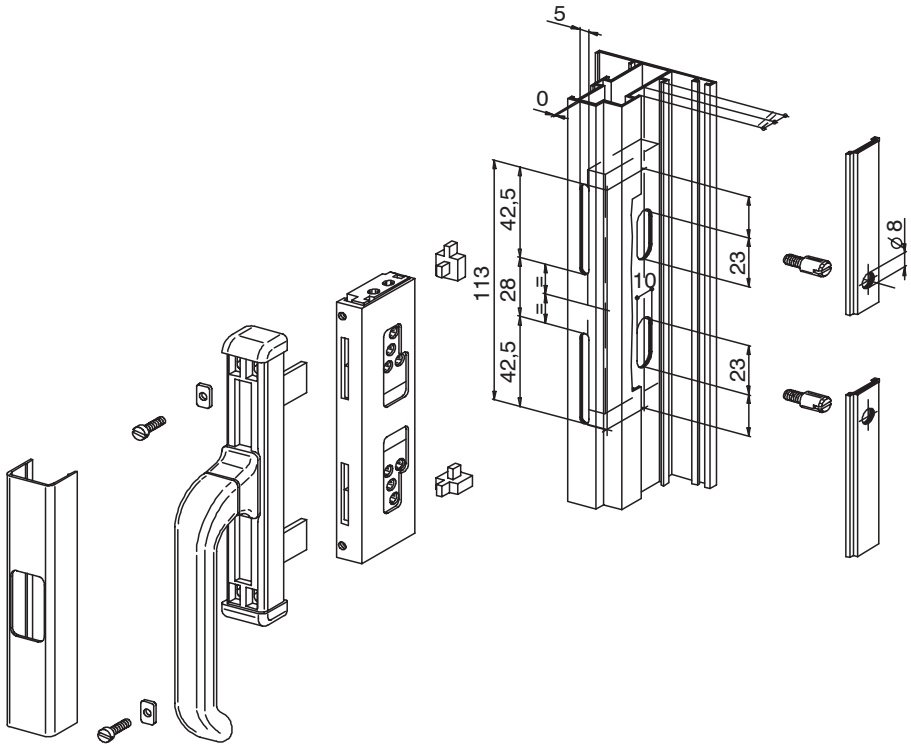


NOVA CONNECTION KIT

Set of parts for connecting the NOVA cremone with the rods of the profile of a window made of aluminium with outward opening.

Materials

Sliders box in extruded aluminium
Guide blocks and shims in black polyamide
Washers and screws in zinc plated steel



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02250	NOVA CONNECTION KIT		X				20

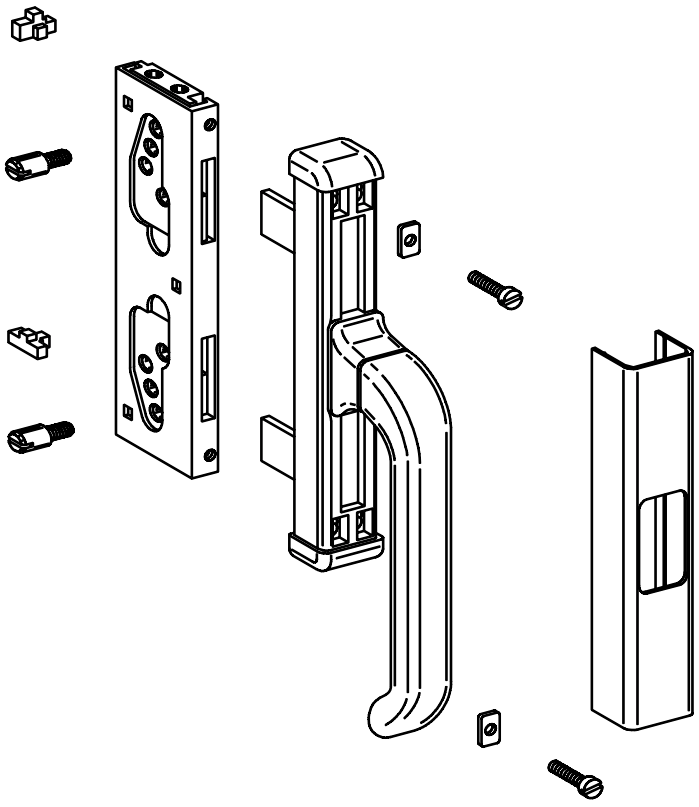
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NOVA CONNECTION KIT

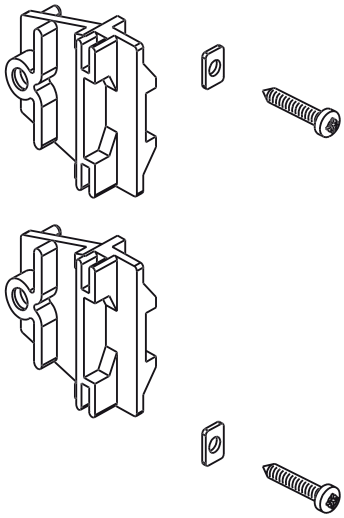
Set of parts for connecting the NOVA cremone with the rods of the profile of a window made of aluminium with outward opening.

Materials
Sliders box in extruded aluminium
Guide blocks and shims in black polyamide
Washers, screws and pins in zinc plated steel



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02260	NOVA CONNECTION KIT		X				20

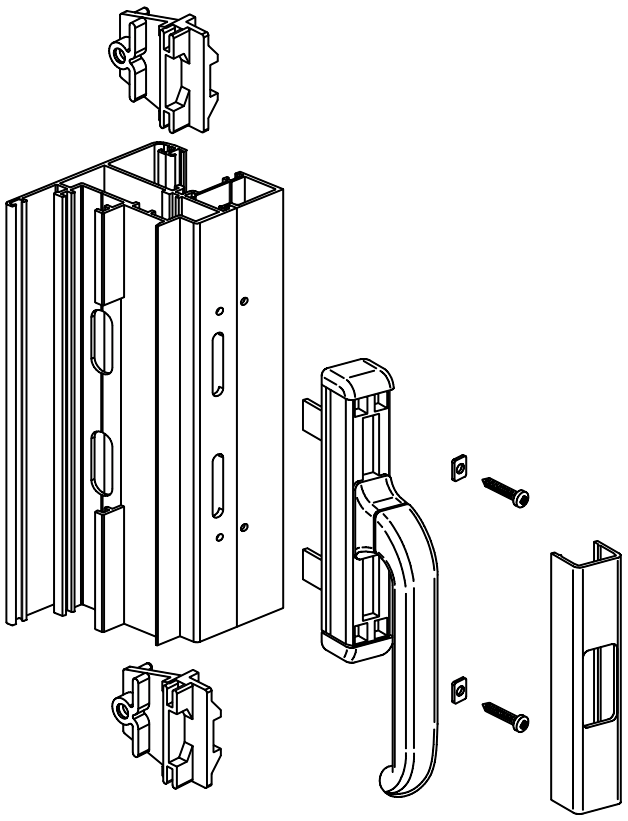
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NOVA CONNECTION KIT

Kit for connecting the NOVA cremone with the rods of the profile of a window made of aluminium with outward opening.

Materials
Guide blocks in black polyamide
Fixing screws, zinc-coated steel



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02261	NOVA CONNECTION KIT		X				20

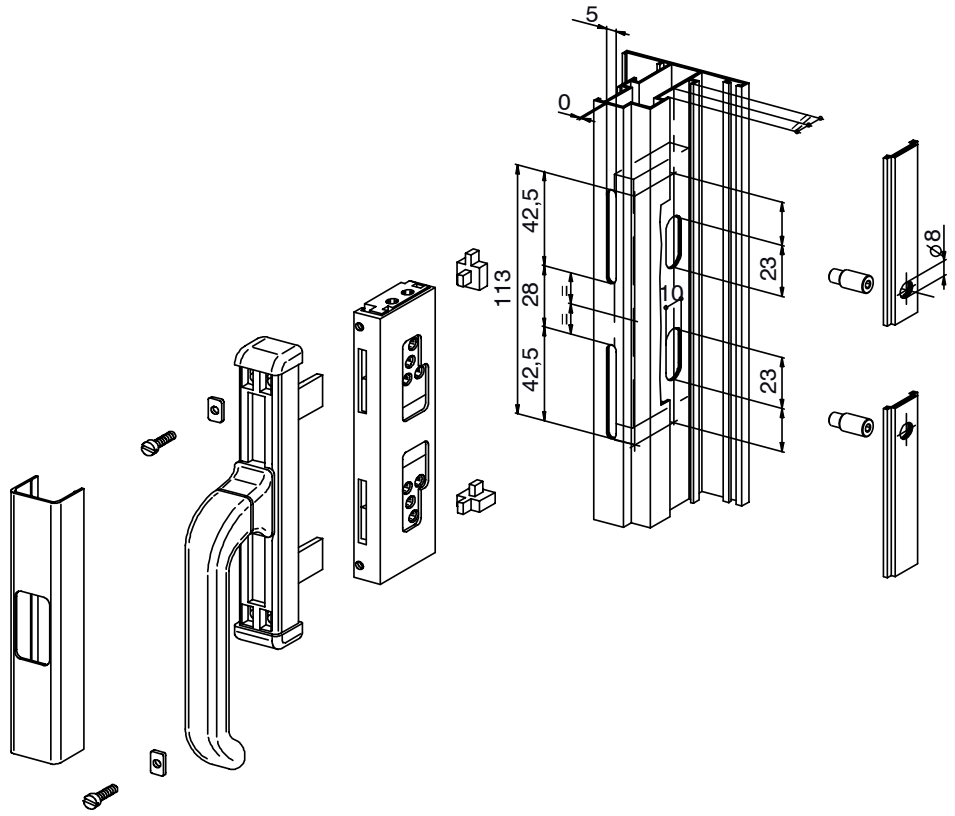
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NOVA CONNECTION KIT

Set of parts for connecting the NOVA and COUPE' cremones with the rods in the series.

Materials
Sliders box in extruded aluminium
Guide blocks and shims in black polyamide
Washers, screws and pins in zinc plated steel



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02296	NOVA CONNECTION KIT		X				20

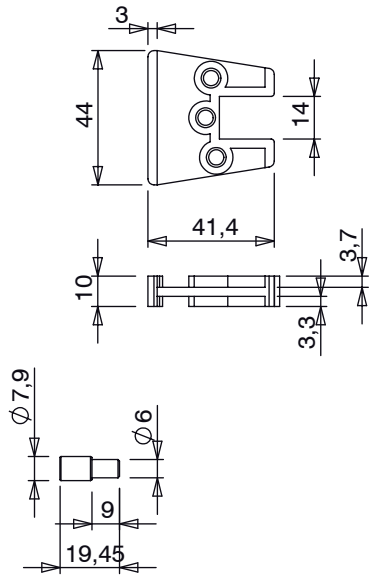
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NOVA CONNECTION KIT

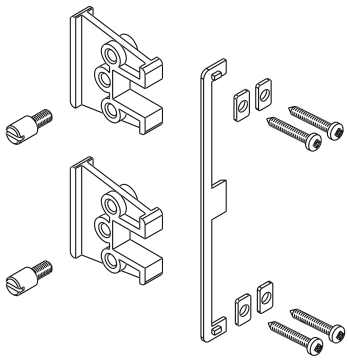
Set of parts for fixing and connecting the NOVA cremone with the rods in the series.

Materials
Guide blocks in polyamide with fibreglass.
Washers and screws of zinc-nickel plated steel.



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02353	NOVA CONNECTION KIT		X				20

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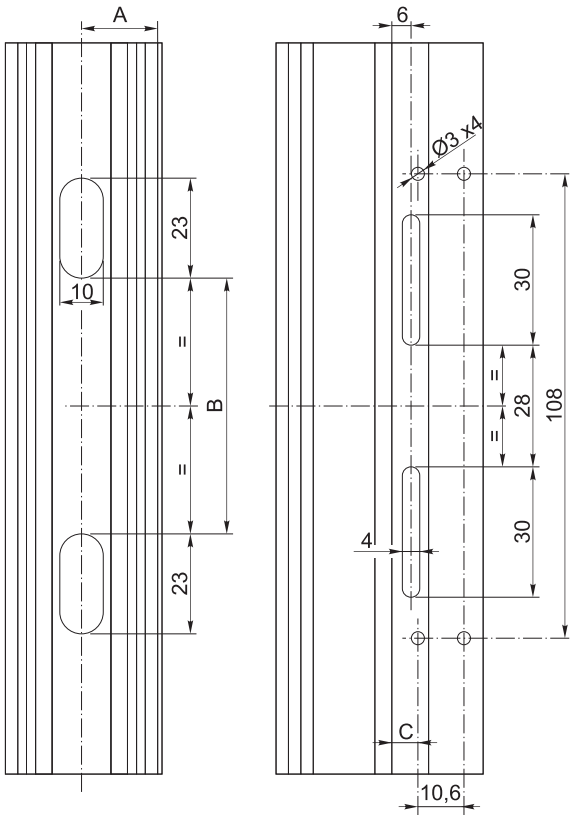


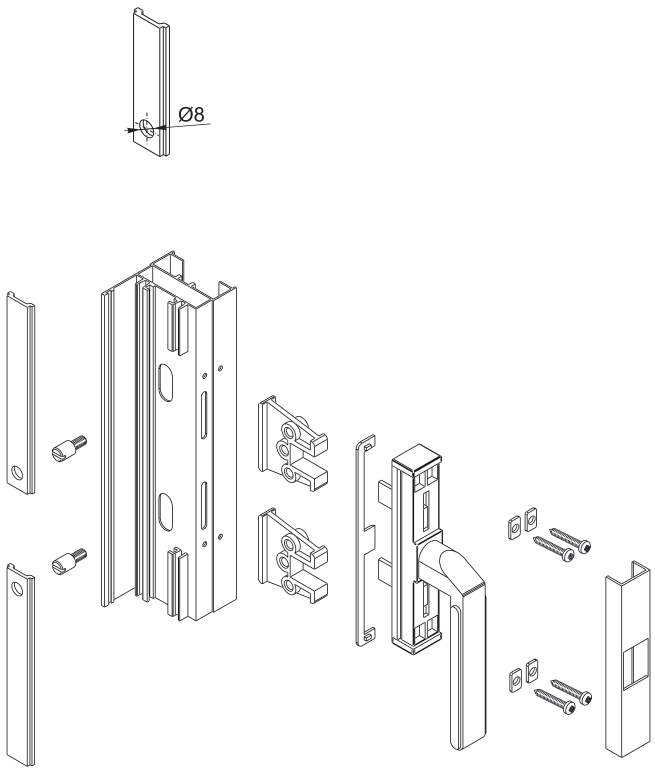
NOVA CONNECTION KIT

Kit for connecting the NOVA cremone with the rods of the profile of a sash window made of aluminium with outward opening.

Materials

Guide blocks in black polyamide with fibreglass.
Washers and screws in zinc plated steel.





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02377	NOVA CONNECTION KIT	ALLCO5 - R40	X				20

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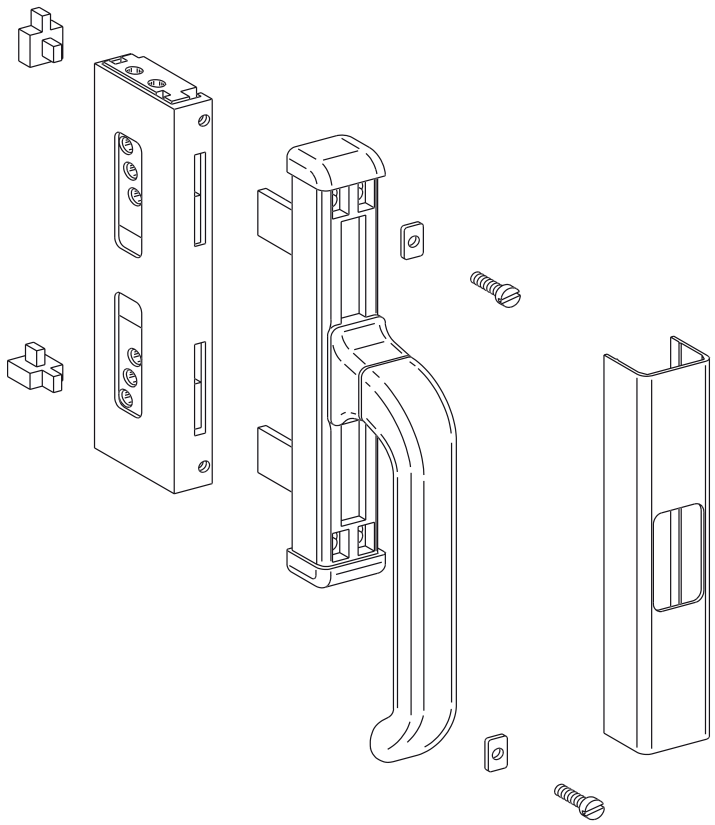


NOVA CONNECTION KIT

Set of parts for connecting the NOVA cremone with the rods in the series.

Materials

Sliders box in extruded aluminium.
Guide blocks and spacers in black polyamide with fibreglass.
Washers and screws in zinc plated steel.



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02379	NOVA CONNECTION KIT		X				20

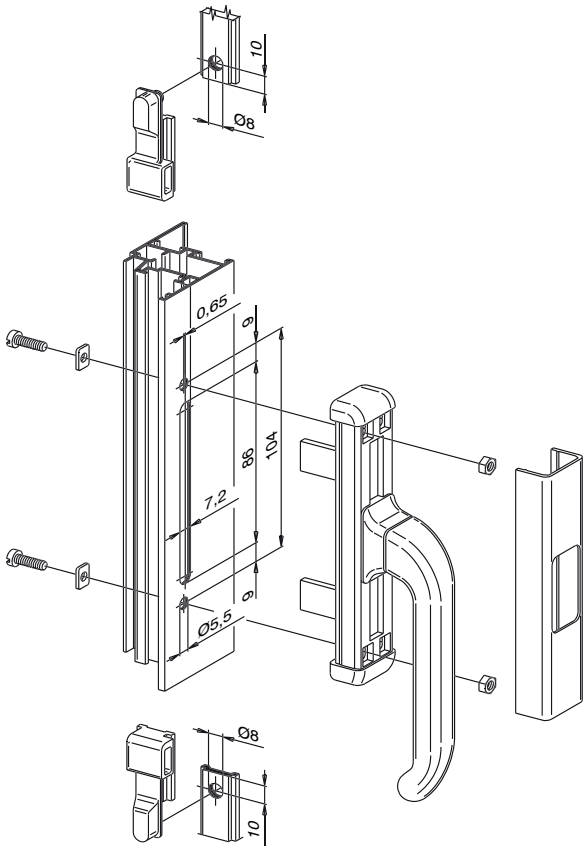
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NOVA CONNECTION KIT

Components for connecting the NOVA cremone with the rods of the profile of a sash window made of aluminium with inward opening.

Materials
Blocks in black polyamide
Zinc plated steel screws, rectangular washers and nuts



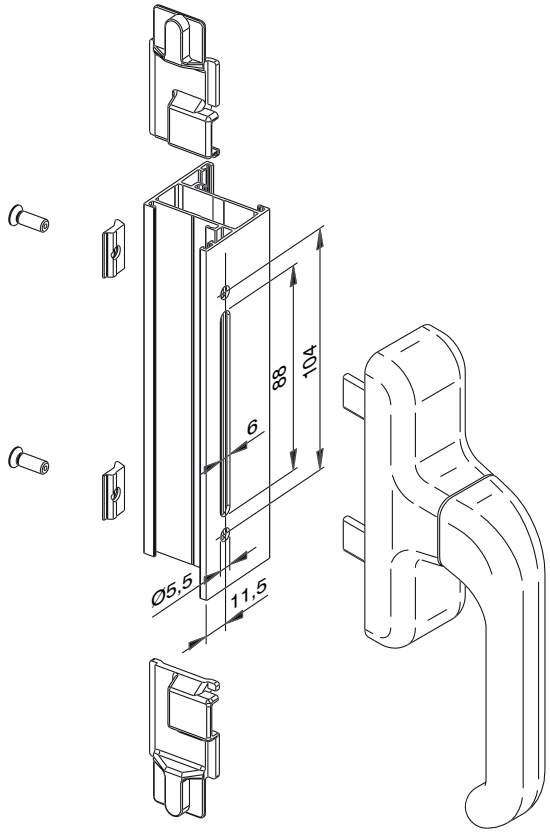
Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02382N	NOVA CONNECTION KIT		X				20

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EURO CONNECTION KIT

Set of parts for fixing and connecting the EURO and NOVA cremones with the rods in the series.



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02383	EURO CONNECTION KIT		X				20

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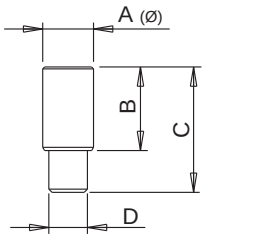
CONNECTION PINS

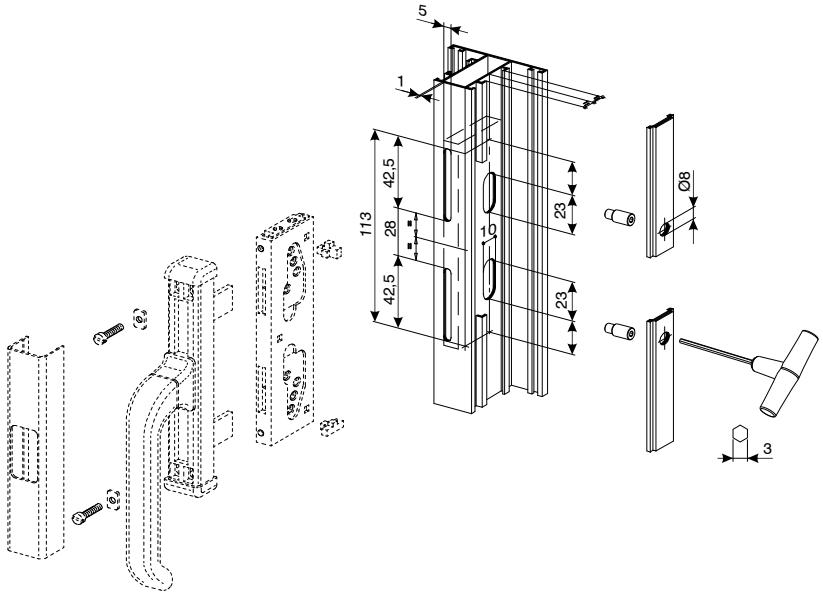
Functions
Zinc plated steel pin to move the mechanism from the cremone to the closing rods.

Technical Features
To be inserted in the guide blocks of Article 02250 in the position shown on the instruction sheet.

Materials
Zinc-nickel plated steel

Example of application with Nova connection kit





Item code	Description	A (mm)	B (mm)	C (mm)	D	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02251K	CONNECTION PIN	7,9	10	16,5	M6	X				200
02252K	CONNECTION PIN	7,9	13	19,5	M6	X				200
02253K	CONNECTION PIN	7,9	16	22,5	M6	X				200
02254K	CONNECTION PIN	7,9	24	30,5	M6	X				200
02255K	CONNECTION PIN	7,9	20	26,5	M6	X				200

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BLANK CREMONE ASSEMBLY

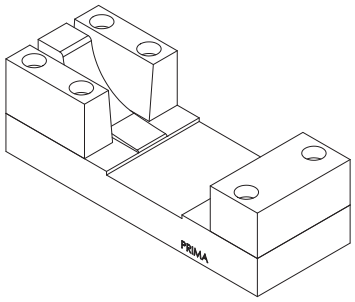
Functions

Specific equipment for assembling the case and handle of the GIESSE Cremone purchased blank.

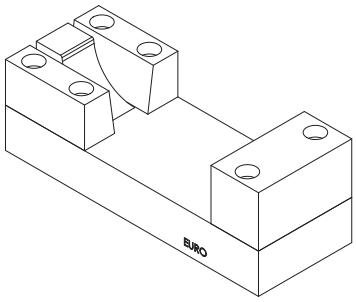
Technical Features

To make it possible to assemble cremones after final painting, GIESSE has developed specific equipment: the manual lever press and pallets to support the cremone pull handles.
Using an appropriate pallet, for Prima, Euro or Unica, accomplishes the delicate phase of driving in the rotor without damaging the case and handle.
The press punch can be adjusted to have an appropriate pressure on the rotor depending on the cremone to be assembled.

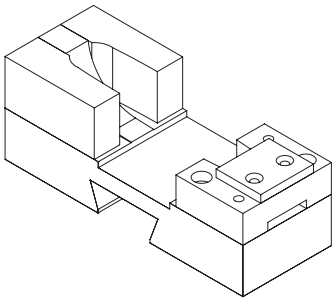
Pallet for PRIMA cremone



Pallet for EURO cremone



Pallet for UNICA cremone



Item code	Description	For articles	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04085	SUPPORT COVER FOR PAINTING	-	X				10
07000	MANUAL LEVER PRESS	07002000 - 07003000 - 07005000	X				1
07002	PRIMA CREMONE PALLET	01033000K - 01024000U - 01038005 - 01039005	X				1
07003	EURO CREMONE PALLET	01090000K - 01000000U - 01037005 - 01094005	X				1
07005	UNICA CREMONE PALLET	01150000N - 01157000N - 01159000N - 01155000N - 01164000N - 01165000N - 01166000N - 01173000N	X				1
07006	UNICA CW2 LH CREMONE PALLET	011700052	X				1
07008	ASIA CREMONE PALLET	01064005 - 01076005 - 01083005 - 01084005 -	X				1
07009	PRIMA KEY CREMONE PALLET	01191005 - 01192005 - 01193005 - 01194005 - 01195005	X				1
07012	PALLET FOR ASIA OUTWARD CREMONE	01077005 - 01063005	X				1

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ASIA WINDOW HANDLE

Functions

Reversible window handle for operating the GIESSE Sash and Tilt-and-Turn Window closing systems via the M90 and M180 mechanisms.

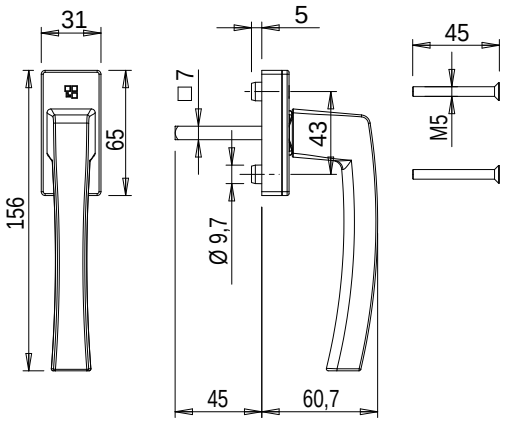
Technical Features

The handle is made of die-cast aluminium and blends in seamlessly with the Asia cremone line.
The handle is equipped with a positioner to stop rotation at 90° and 180° and has a square pin, 7 mm cross section, for the transmission of the movement.

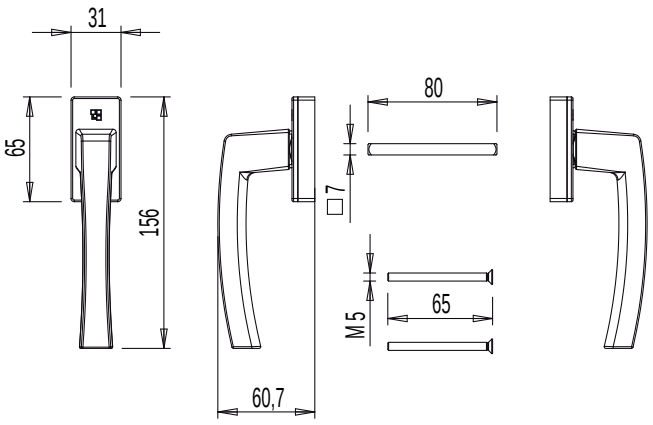
Materials

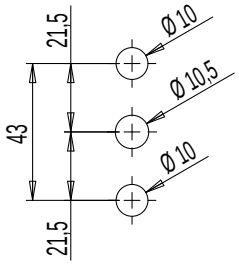
Handle in die-cast aluminium
Rotor in zinc plated zamak
Aluminium cover
Sub-rosette in plastic resin
Square spindle and screws in zinc plated steel

02415



02416





Item code	Description	Version	Square spindle L (mm)	Case anti-rotation turrets	PROFILE CROSS - SECTION	Pull handle 0°	Pull handle 90°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02415	ASIA WINDOW HANDLE	Single	45	Yes	C001-C002-C003-C004-C005-C006-C007-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	closed	open	bot-tom-hung windows	X		X		10
02416	ASIA WINDOW HANDLE	Double	26-46	No	-	closed	open	-	X		X		5

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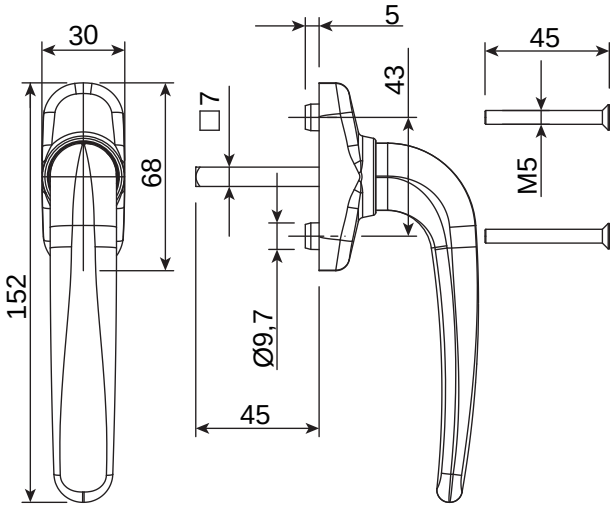
PRIMA PLUS WINDOW HANDLE

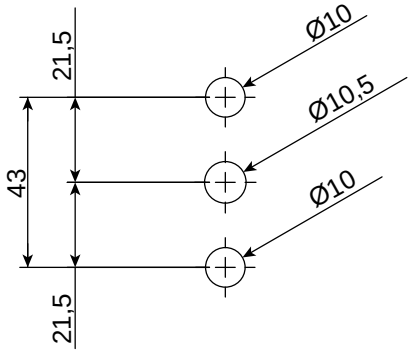
Functions
Reversible window handle for operating the GIESSE Sash and Tilt-and-Turn Window mechanisms.
Tilt-and Turn with M90 and M180 mechanisms.

Technical Features
The handle is made of die-cast aluminium and blends in seamlessly with the Prima cremone line.
It is equipped with a positioner for stopping the rotation at 90° and 180° and has a square pin, for the transmission of the movement, with a cross section of 7 mm and a length of 45 mm.
Available in both single and double versions.

Materials
Handle in die-cast aluminium
Rotor in zinc plated zamak
Die-cast aluminium cover
Sub-rosette in plastic resin
Square spindle and screws in zinc plated steel

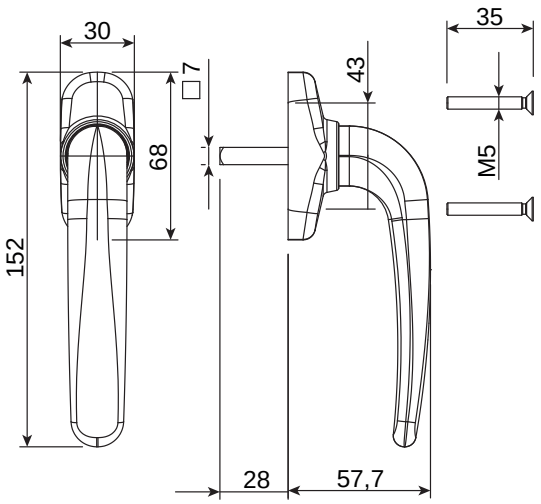
Art. 02476



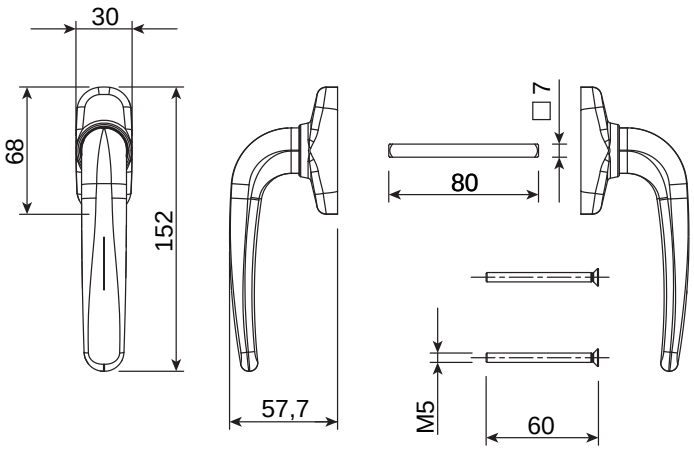


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Art. 02762



Art. 02763



Item code	Description	Version	Square spindle L (mm)	Case anti-rotation turrets	PROFILE CROSS - SECTION	Pull handle 0°	Pull handle 90°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02476	PRIMA PLUS WINDOW HANDLE	Single	45	Yes	C001-C002-C003-C004-C005-C006-C007-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	closed	open	bot-tom-hung windows	X		X	X	10
02762	PRIMA PLUS WINDOW HANDLE	Single	27	No	C001-C002-C003-C004-C005-C006-C007-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	closed	open	bot-tom-hung windows	X		X	X	5
02763	PRIMA PLUS WINDOW HANDLE	Double	26-46	No	-	closed	open	-	X		X	X	5

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PRIMA KEY WINDOW HANDLE

Functions

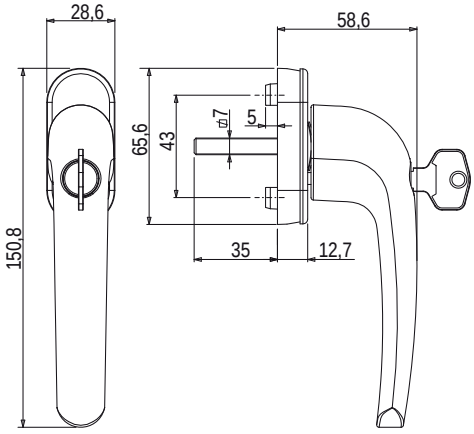
PRIMA window handle with suitable key for operating the GIESSE M90 and M180 mechanisms.
The window handle has a security mechanism that prevents turning the handle from the outside.

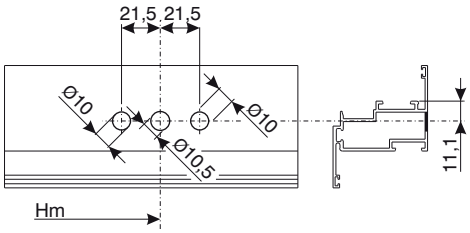
Technical Features

The handle is made of die-cast aluminium and blends in seamlessly with the PRIMA cremone line.
It is equipped with a positioner for stopping the rotation at 90° and 180° and has a square pin, for the transmission of the movement, with a cross section of 7 mm and a length of 45 mm.
Prima Key: By turning the key through 180° it is possible to lock the handle (1).
Prima Key Logica: By turning the key through 180° it is possible to lock the handle (1). By unlocking the key you can open the bottom-hung window with the handle at 90° or close the sash with the handle at 0° (2). By turning the key through 45° and the handle 180° you can open the sash. On returning the handle to 90° the window handle returns to safety, preventing 180° rotation and therefore full opening of the sash (3).

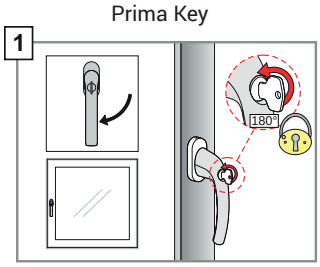
Materials

Handle in aluminium
Rotor in zinc plated zamak
Aluminium cover
Sub-rosette in plastic resin
Square spindle and screws in zinc plated steel

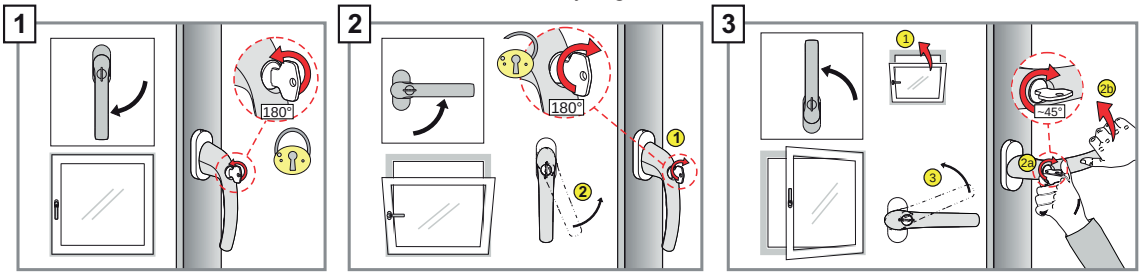




Prima Key



Prima Key Logica



Item code	Description	PROFILE CROSS - SECTION	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02485	PRIMA KEY WINDOW HANDLE	C001-C002-C003-C004-C005-C006-C007-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	-			X	X	5
02486	PRIMA KEY WINDOW HANDLE	C001-C002-C003-C004-C005-C006-C007-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	Logica			X	X	5

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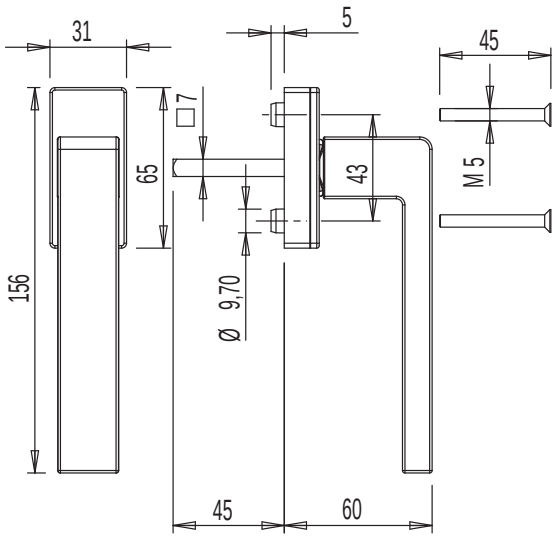


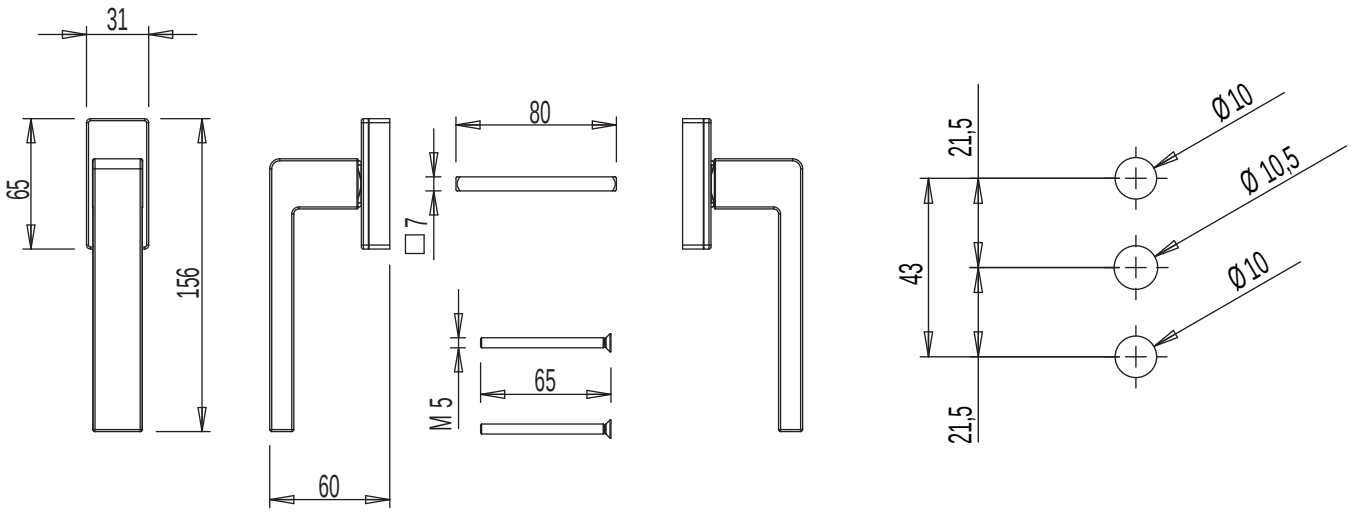
KORA WINDOW HANDLE

Functions
Reversible window handle for operating GIESSE Side-hung, Tilt-and-Turn, and Tilt-and-Turn with Micro-ventilation fastening mechanisms, via M90 and M180 mechanisms.

Technical Features
The handle is equipped with a positioner to stop rotation at 90° and 180° and has a square pin, 7 mm cross section and 40 mm length, for transmission of the movement.

Materials
Zamak handle
Square pin, screws and grub screw in zinc plated steel





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Item code	Description	Version	Square spindle L (mm)	Case anti-rotation turrets	PROFILE CROSS - SECTION	Pull handle 0°	Pull handle 90°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00997	KORA WINDOW HANDLE	Single	45	Yes	C001-C002-C003-C004-C005-C006-C007-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	closed	open	bottom-hung windows	X		X		10
00998	KORA WINDOW HANDLE	Double	26-46	No	-	closed	open	-	X		X		5

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KORA OFFSET WINDOW HANDLE

Functions

Right-hand or left-hand window handle for the use of GIESSE Sash, Tilt-and-Turn, Sliding and Top-Hung internal movement fastening mechanisms.

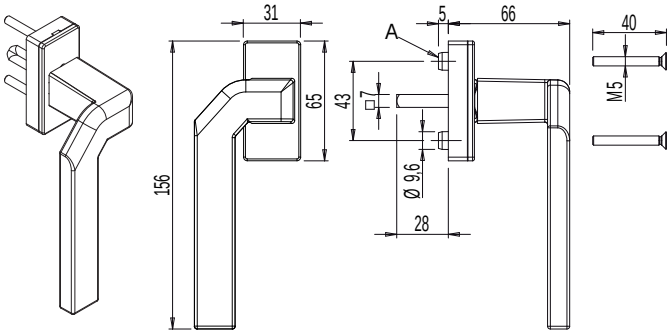
Technical Features

The offset Kora window handles are sold in right-hand or left-hand versions and are used in conjunction with Giesse internal mechanisms.
They are equipped with a positioner for stopping the rotation at 90° and 180° and configure the transmission of the movement of a non-removable 7 mm square pin.
The length of the pin can be varied on request. The c/c fixing distance for the window handles is 43 mm (standard).
The case for the offset Kora window handles with a large plate features 2 additional holes in case you want to use 2 self-threading screws (not supplied) to strengthen the window handle fixing on the sash profile.

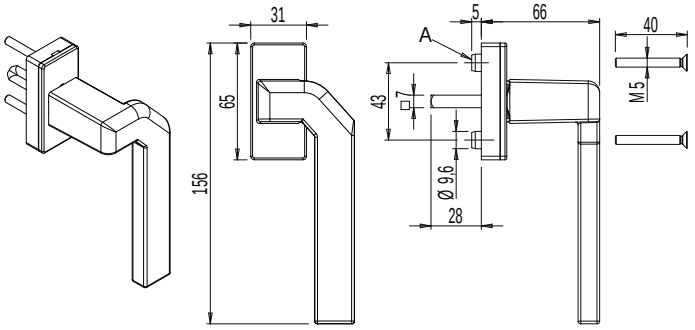
Materials

Handle in aluminium
Square spindle and screws in zinc plated steel

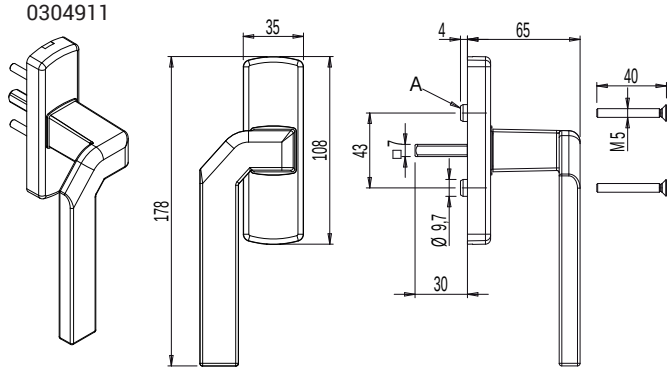
0099611



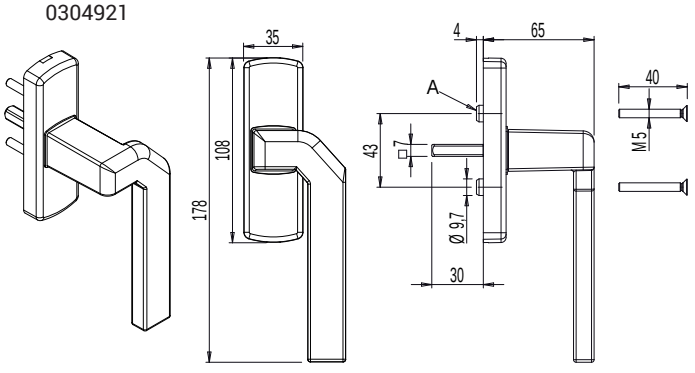
0099621



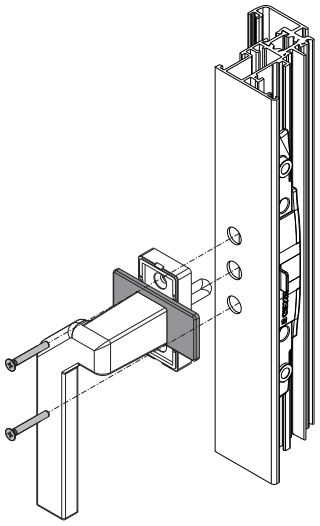
0304911



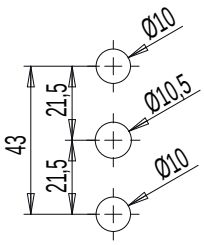
0304921



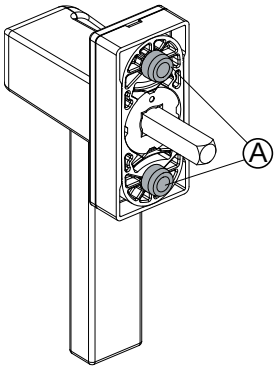
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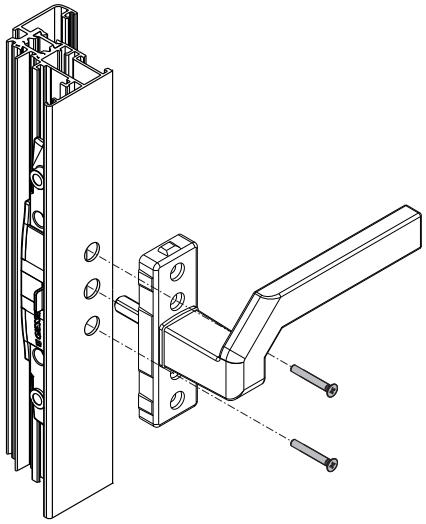


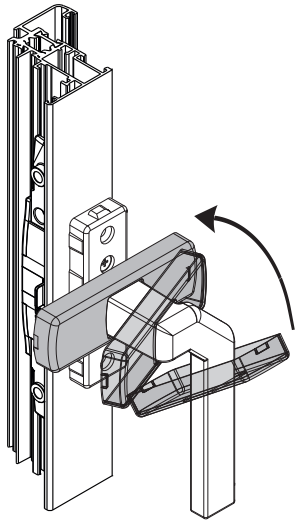
Machining



A = Case anti-rotation turrets







Item code	Description	Version	Case anti-rotation turrets (A)	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0099611	KORA OFFSET WINDOW HANDLE	Right	Yes	C001-C002-C003-C004-C005-C006-C007-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	X		X	X	5
0099621	KORA OFFSET WINDOW HANDLE	Left	Yes	C001-C002-C003-C004-C005-C006-C007-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	X		X	X	5
0304911	OFFSET KORA WINDOW HANDLE WITH LARGE PLATE	Right	Yes	C001-C002-C003-C004-C005-C006-C007-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	X		X	X	5
0304921	OFFSET KORA WINDOW HANDLE WITH LARGE PLATE	Left	Yes	C001-C002-C003-C004-C005-C006-C007-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	X		X	X	5

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BAS WINDOW HANDLE

Functions

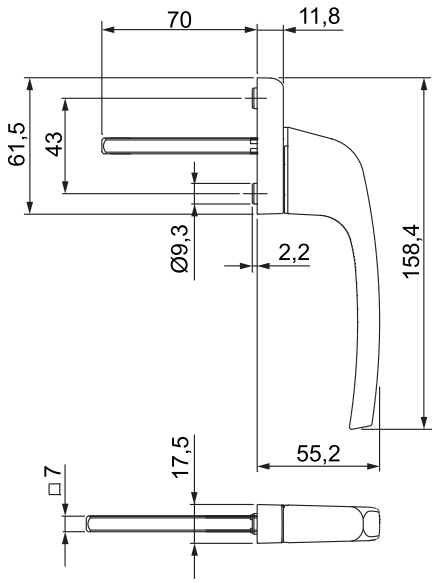
The Bas window handle is ideal for operating mechanisms with rotors designed to be actuated by a 7 mm square pin, such as the Champion Plus multilock or the M90 or M180 internal mechanisms.

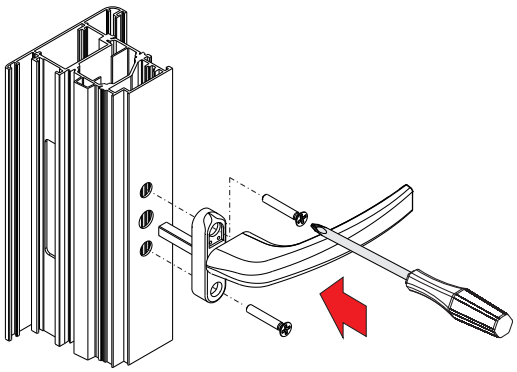
Technical Features

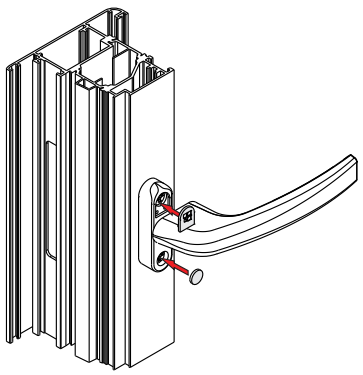
The Bas window handle is naturally applied on outward opening casements that require a particularly short width of the plate of the window handle. As a matter of fact, on this product the plate is just 17.5 mm.
The square pin with a length of 70 mm enables fitting the product on outward opening casements where the mechanism is far away from the window handle (on the inside).
The c/c distance for fixing the product to the hardware is 43 mm, used on most hardware with a rotor for 7 mm square pins.

Materials

Handle of aluminium, plate of zamak
Trip spring of spring steel
Retaining washer and square pin of zinc plated steel
Polyamide caps







Item code	Description	PROFILE CROSS - SECTION	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02491	BAS WINDOW HANDLE	C001-C002-C003-C004-C005-C006-C007-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010				X		5

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COMPA WINDOW HANDLE

Functions

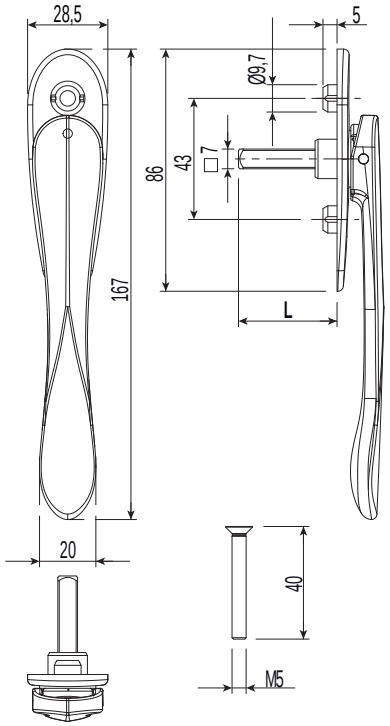
The Compa window handle is ideal for operating mechanisms with rotors designed to be actuated by a 7 mm square pin, such as the Champion Plus multilock.

Technical Features

The window handle is ergonomic and easy to grip for handy operation.
The product's lowered handle means that its application is ideal for folding doors, sliding casements and outward opening.
The c/c distance for fixing the product to the hardware is 43 mm, used on most hardware with a rotor for 7 mm square pins.

Materials

Handle, washer and pin support of zamak
Spring of spring steel
Square pin and pin of zinc plated steel
Polyamide caps



Item code	Description	L (pin length)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0249201	COMPA WINDOW HANDLE	35 mm	X		X		5
02494	COMPA WINDOW HANDLE	50 mm	X		X		5
02500	COMPA WINDOW HANDLE	70 mm	X		X		5

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TWO-WAY INTERNAL MECHANISMS

Functions

Two-way mechanism, operated by a window handle, to be inserted in the tubular section of the profile.

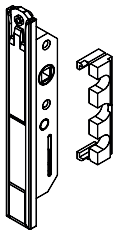
Technical Features

The two-way mechanisms are reversible and designed to be combined with all the window handles made by GIESSE, both in aluminium and brass (with 7 mm square spindle).
The shim, when supplied, is to be placed inside the tubular section of the profile, between the mechanism and the window handle, to enable perfect alignment of the parts.
Connected to the rod, it allows opening/closing inward-opening, pivoting or awning casements.

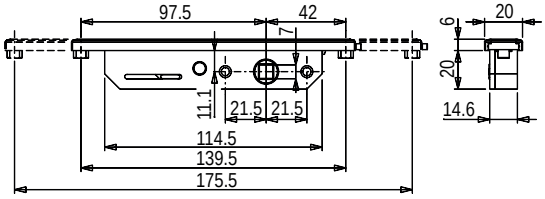
Materials

Case, cover and racks in die-cast zamak
Main and secondary gear in die-cast zamak
Shims in black polyamide
Stainless steel screws

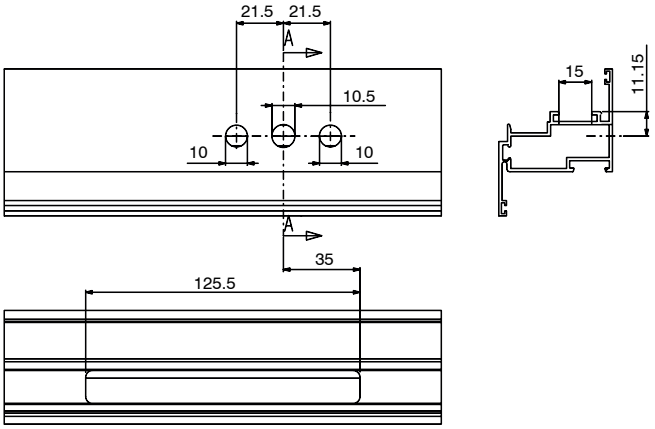
Type A



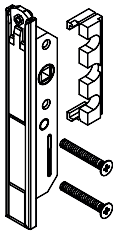
Type A: dimensions



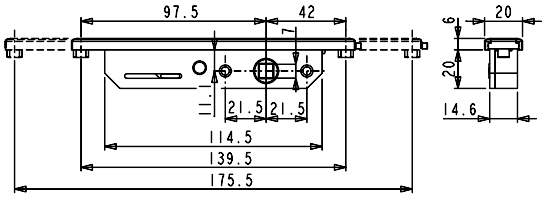
Type A: machining



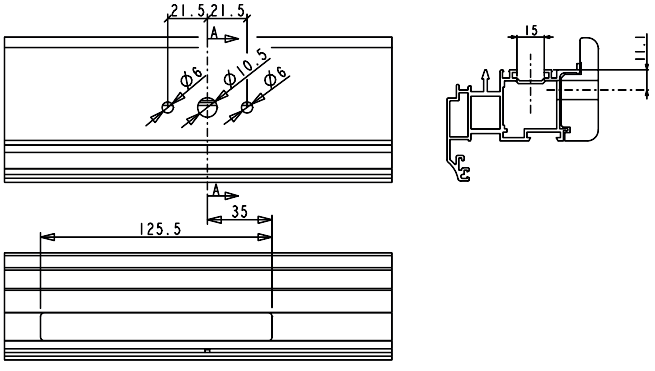
Type B



Type B: dimensions

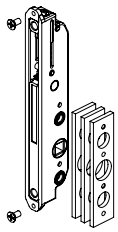


Type B: machining

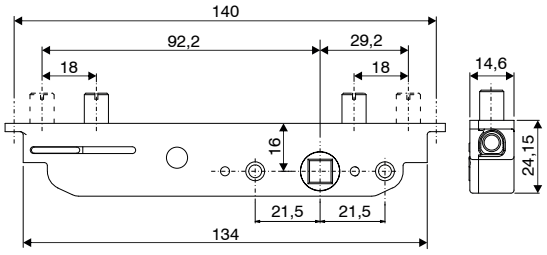


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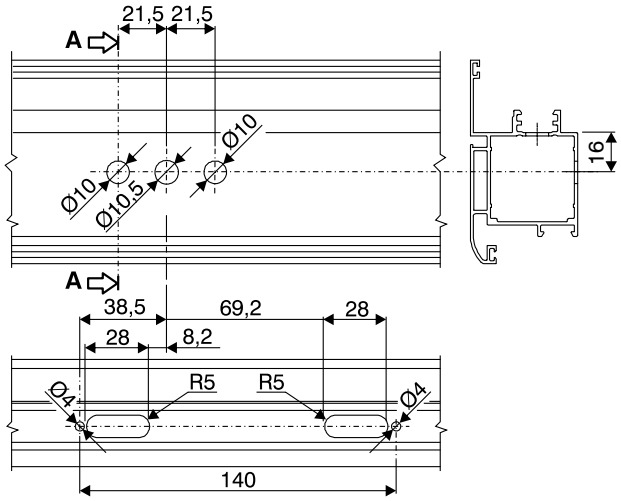
Type C



Type C: dimensions



Type C: machining



Item code	Description	Type	Opening	PROFILE CROSS - SECTION	Pins/Screws	Finish	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01020K	TWO-WAY INTERNAL MECHANISM	A	Inward opening	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	-	GS Silver Plus	X				5
0102101	TWO-WAY INTERNAL MECHANISM	B	Inward opening	C011	M5x60	GS Silver Plus	X				5
0102301	TWO-WAY INTERNAL MECHANISM	B	Inward opening	*	M5x35	GS Silver Plus	X				5
01025K	TWO-WAY INTERNAL MECHANISM	C	Pivoting, Awning	*	-	GS Silver Plus	X				5
01026K	TWO-WAY INTERNAL MECHANISM	C	Pivoting, Awning	*	-	GS Silver Plus	X				5
01066K	TWO-WAY INTERNAL MECHANISM	A	Inward opening	C007	-	GS Silver Plus	X				5

* For an exact series/code match, see the on-line catalog on www.giesse.it

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ONE-WAY INTERNAL MECHANISMS

Functions

One-way mechanism, operated by window handle, to be inserted in the tubular section of the profile to operate the GIESSE tilt-and-turn sash fastening mechanisms.

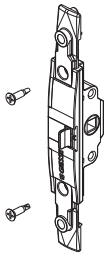
Technical Features

The mechanisms are reversible and designed to be combined with all the window handles made by GIESSE, both in aluminium and brass (with 7 mm square spindle).
The shim supplied, to be placed inside the tubular section of the profile, between the mechanism and the window handle, enables perfect alignment of the parts.

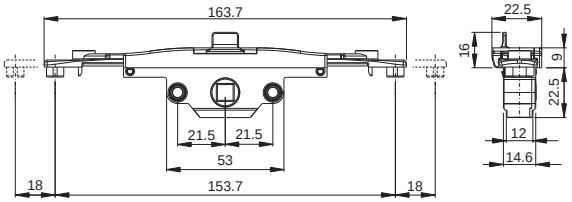
Materials

Rack, case, incorrect movement safety device slide, cover for mechanism and gear in die-cast zamak.
Shims in black polyamide.
Screws and spring of zinc-nickel plated steel.

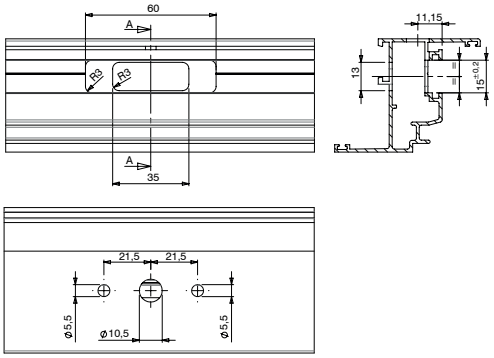
Type A



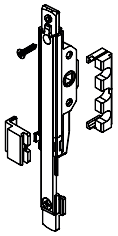
Type A: dimensions



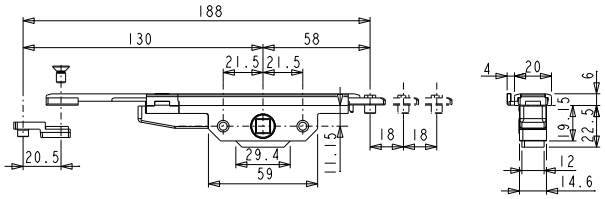
Type A: machining



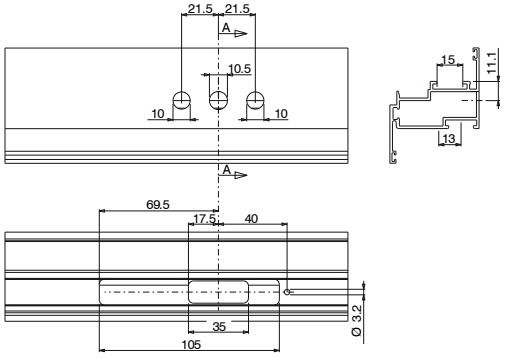
Type B



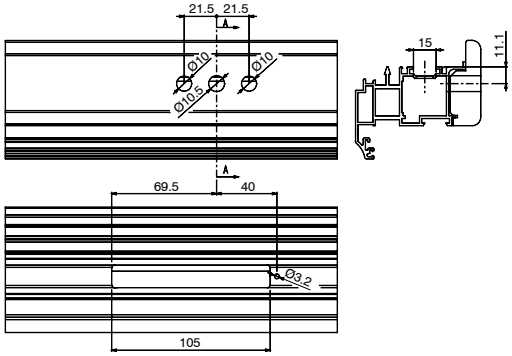
Type B: dimensions



Type B: machining



Type B: machining



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Item code	Description	Type	PROFILE CROSS - SECTION	Screws	Finish	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01029K	ONE-WAY MECHANISM M180	B	C001-C002-C003-C004-C005-C006-C012-C013-C014-C015-C016-C017	-	GS Silver Plus	X				5
01061	ONE-WAY MECHANISM M180	A	C001-C002-C003-C004-C005-C006-C012-C013-C014-C015-C016-C017	-	GS Silver Plus	X				10
01062	ONE-WAY MECHANISM M180	A	C007	-	GS Silver Plus	X				10

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TWO-WAY MECHANISM FOR GHIBO OUT OUTWARD OPENING

Functions

Ghibo out is a two-way device, to be housed in the tubular profile that, via a window handle, moves the rods and locking points of outward-opening side-hung windows.

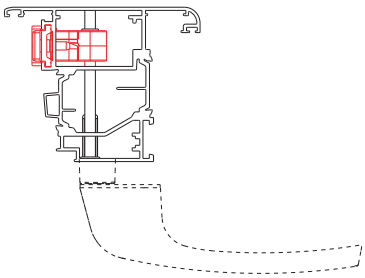
Technical Features

Ideal for outward-opening side-hung windows (Side Hung, shutters, etc.).
These devices are reversible and are ready to be fitted on either right or left sashes.
The long two-way stroke of the hardware of 18 mm thus allows plenty of overlap of the fastening components.
It is recommended to use these mechanisms in combination with fastening bolt tips type art. 02114K and sill strikers type art. 02159.
The mechanisms are designed to accommodate a 7 mm square pin and to be combined with all the window handles made by GIESSE, both of aluminium and brass, with a 43 mm fixing C/C distance.
The product is secured to the sash profile with the two screws supplied.
The two polyamide tubes supplied are to be placed inside the tubular profile and they perform the function of a spacer between the base of the window handle and the mechanism, allowing the mechanism to maintain perfect alignment of the parts.

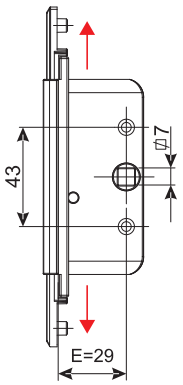
Materials

Case and connection devices to transmit motion in silver painted zamak
Rotor in zinc plated zamak
Tubes and bushings of black polyamide
Stainless steel fixing screws

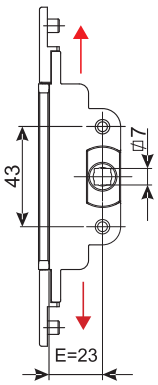
Example of application



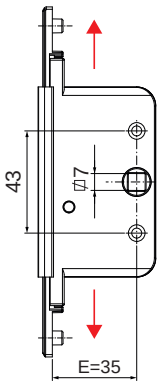
art. 04093 E= 29
stroke 18 mm



art. 04094 E= 23
stroke 17 mm



art. 04108 E= 35
stroke 18 mm



Item code	Description	Opening	Stroke	Backset	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04093	GHIBO OUT TWO-WAY MECHANISM - BS 29	Outward-opening side-hung window	18 mm	29 mm	Compatible with Window Handles with 7 mm square pin - fixing c/c distance 43 mm	X				5
04094	GHIBO OUT TWO-WAY MECHANISM - BS 23	Outward-opening side-hung window	17 mm	23 mm	Compatible with Window Handles with 7 mm square pin - fixing c/c distance 43 mm	X				5

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ONE-WAY MECHANISM FOR GHIBO OUT OUTWARD OPENING

Functions

The one-way Ghibo out internal mechanism is housed in the hollow section of the profile and, via a window handle, moves the rods and locking points of outward-opening side-hung windows.

Technical Features

Ideal for outward-opening side-hung windows (Side Hung, doorways, etc.).
This device is reversible and is ready to be fitted on either right or left sashes.
The depths of the mechanisms are:
- 22 mm
- 27 mm
- 32 mm

Products make a one-way stroke of 18 mm thus allowing plenty of overlap of the fastening components.
It is recommended to use this mechanism in combination with fastening pawls type art. 04030K and strikers type art. 01343K.
The mechanism is designed to accommodate a 7 mm square pin and to be combined with all the window handles made by GIESSE, both of aluminium and brass, with a 43 mm fixing C/C distance.
The product is secured to the sash profile with screws, not supplied.
It is possible to combine the mechanisms Art. 04082/04083/04084 with the Ghibo Key Out mechanism Art. 04086/04087/04088. With these products you can lock the sliding of the fastening rod via a Euro cylinder (not supplied).

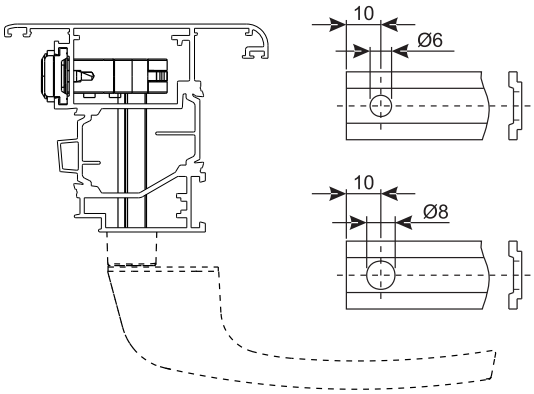
Materials

Front plate and sliding component of zinc plated steel
Case, rotor and connection devices to transmit motion in silver painted zamak
Tubes and bushings of black polyamide

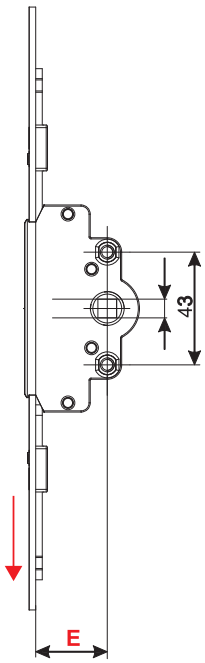
Parts

2 polyamide tubes
2 rod - mechanism connection components
2 bushings for coupling on rods with 8 mm hole

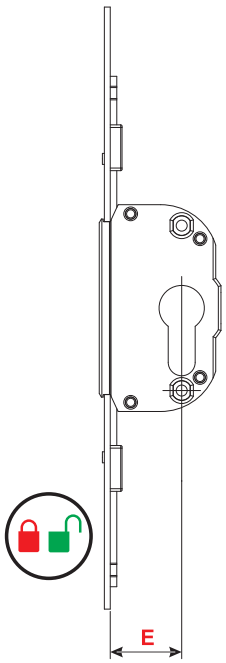
Example of application



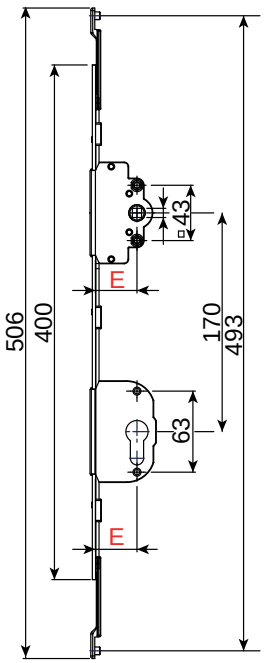
Type A



Type B

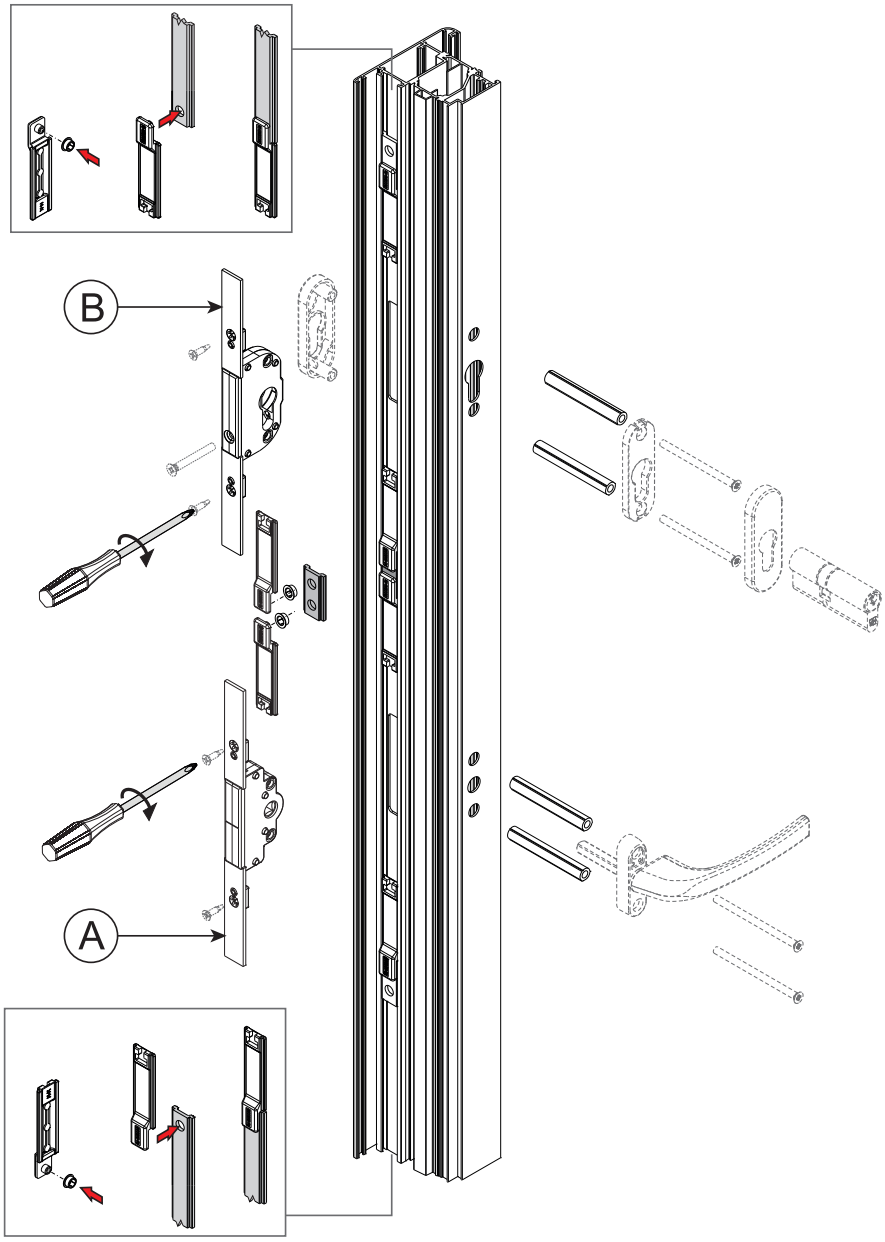


Type C



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A = Ghibo Out mechanism
B = Hardware for Ghibo Out mechanism



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Item code	Description	Opening	Drawing	Technical notes	Backset	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04082	GHIBO OUT ONE-WAY MECHANISM - BS 22	Outward-opening side-hung window	Type A	stroke 18 mm	E=22 mm		X				5
04083	GHIBO OUT ONE-WAY MECHANISM - BS 27	Outward-opening side-hung window	Type A	stroke 18 mm	E=27 mm		X				5
04084	GHIBO OUT ONE-WAY MECHANISM - BS 32	Outward-opening side-hung window	Type A	stroke 18 mm	E =32 mm		X				5
04086	MECHANISM FOR GHIBO OUT KEY ONE-WAY MECHANISM - BS 22	Outward-opening side-hung window	Type B	for art. 04082 - Compatible with standard European cylinders and Art. 04095-04096	E=22 mm		X				5
04087	MECHANISM FOR GHIBO OUT KEY ONE-WAY MECHANISM - BS 27	Outward-opening side-hung window	Type B	for art. 04083 - Compatible with standard European cylinders and Art. 04095-04096	E=27 mm		X				5
04088	MECHANISM FOR GHIBO OUT KEY ONE-WAY MECHANISM - BS 32	Outward-opening side-hung window	Type B	for art. 04084 - Compatible with standard European cylinders and Art. 04095-04096	E =32 mm		X				5

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GHIBO ONE-WAY M180 OUTWARD OPENING MECHANISMS

Functions

The one-way Ghibo out internal mechanism is housed in the hollow section of the profile and, via a window handle, moves the rods and locking points of outward-opening side-hung windows.
It is equipped with an incorrect movement safety device.

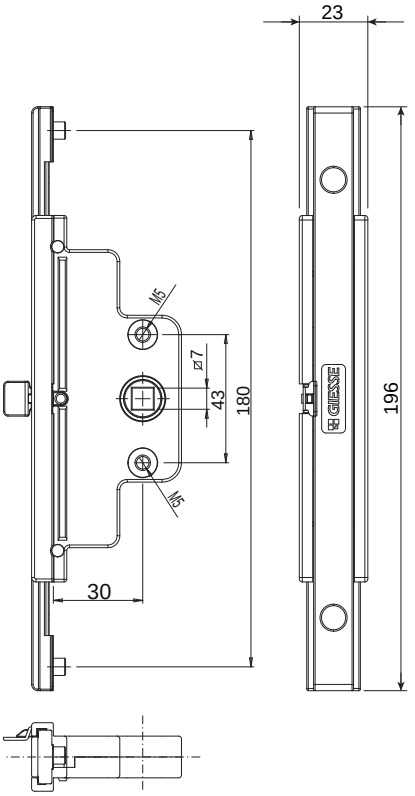
Technical Features

Ideal for outward-opening side-hung windows (Side Hung, doorways, etc.).
This device is reversible and is ready to be fitted on either right or left sashes.
The mechanism is equipped with an incorrect movement safety device and has a stroke of 36 mm (18 + 18).
It is designed to accommodate a 7 mm square spindle and to be combined with all the window handles made by GIESSE, both of aluminium and brass, with a 43 mm fixing C/C distance.
The product is secured to the sash profile with the screws supplied.

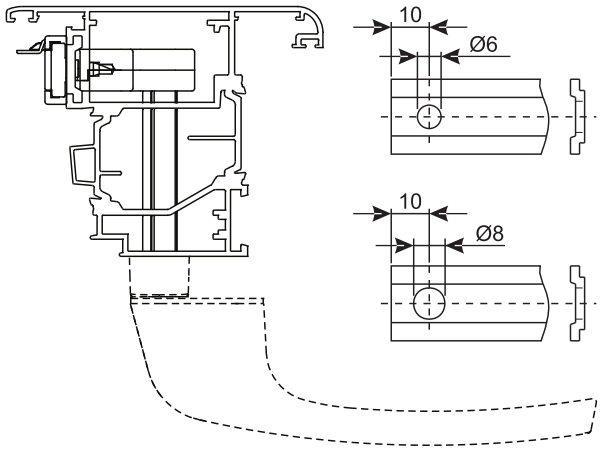
Materials

Case and connection devices to transmit motion and rotor made of zamak
Incorrect movement safety device made of stainless steel
Tubes and bushings of black polyamide
Stainless steel fixing screws

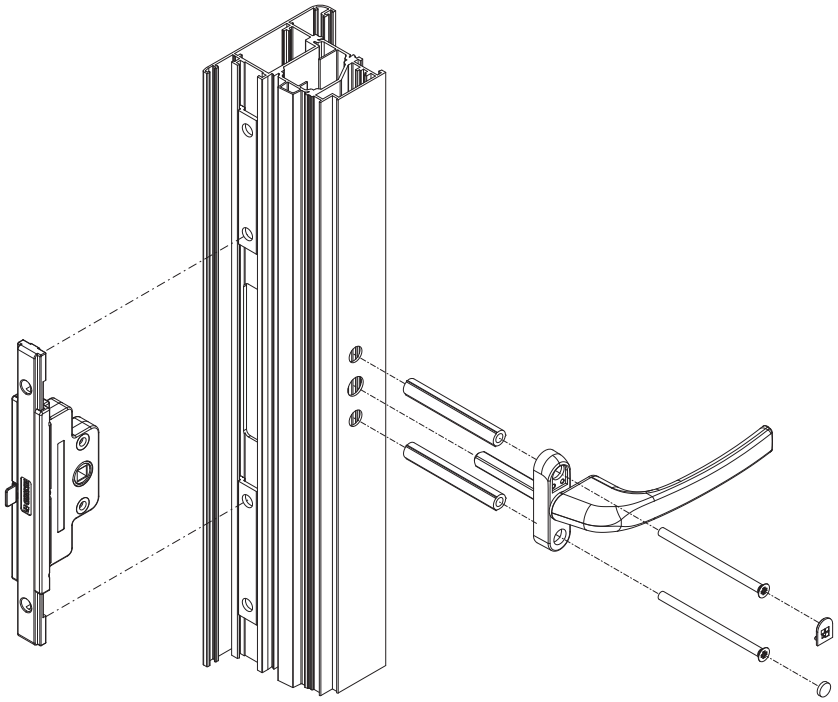
Overall dimensions



Example of application



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Item code	Description	Opening	Technical notes	Backset	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04089	ONE-WAY MECHANISM M180 BS 30	Outward-opening side-hung window	stroke 36 mm	E= mm 30	X				5

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GHIBO CW1 ONE-WAY MECHANISM

Functions

The Ghibo mechanism is a one-way device, to be housed on a sash profile of a curtain wall for moving the fastening pawls and rods with a window handle.

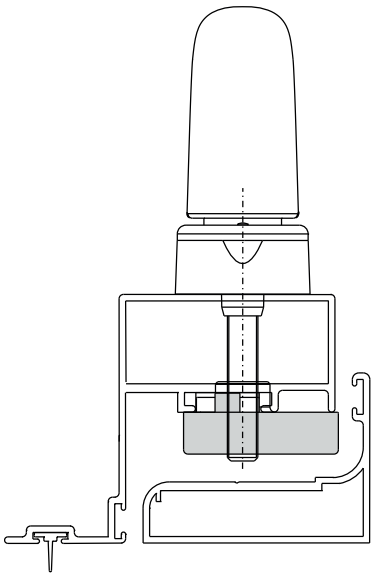
Technical Features

The mechanism has a stroke of 26 mm and ensures an excellent grip of the pawls (sash) on the strikers (frame).
The mechanism is particularly strong and has a cover made of stainless steel.
The C/C distance of the fixing holes is 43 mm and the rotor has a square hole of 7 mm: this ensures the mechanism is compatible with all the window handles on the market.
The mechanism is compatible with rods with a 6 mm hole or, by using the 2 bushings supplied, it is applicable with rods with an 8 mm hole.

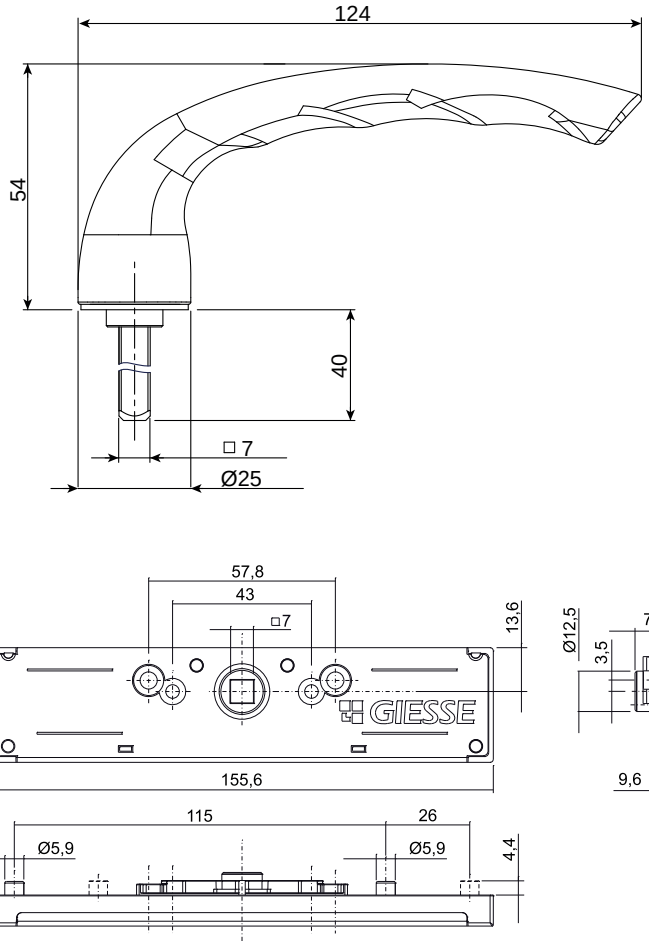
Materials

Housing in Zamak
Stainless steel cover
Polyamide bushes

Example of application



art. 02016



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Item code	Description	Opening	Stroke	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02013	GHIBO CW1 ONE-WAY MECHANISM	Top Hung	26 mm	Compatible with Window Handles with 7 mm square pin, not removable - fixing c/c distance 43 mm	X				5
02016	AWAY WINDOW HANDLE	Top Hung		only finish 500 - Pin length = 40 mm			X		5

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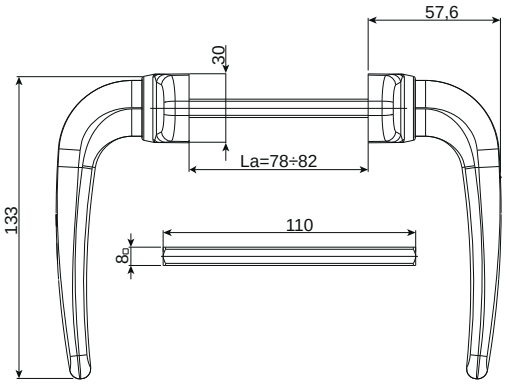


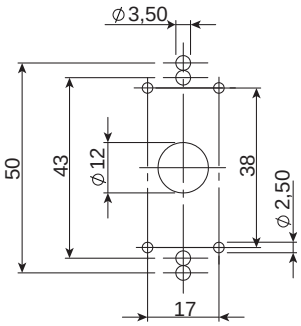
PRIMA PLUS HANDLE

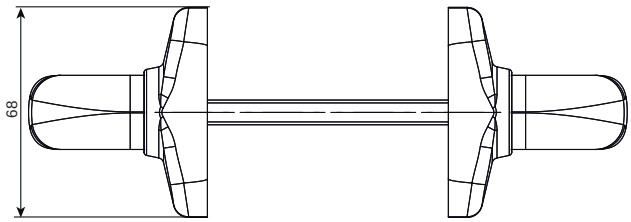
Functions
Pair of aluminium handles, reversible with stop, for fitting on the upright or centre rail of the door.

Technical Features
The PRIMA PLUS handle comprises a case, plate and rotor which, combined with a return spring, enables reversible operation and horizontal positioning of the handle.
Instant access to the fixing screws by simply rotating the plate cover.
The double C/C distance of the drilling, 43 and 50 mm, enables the handle to be fitted on the majority of profiles available on the market. Fixing to the profile is done with the self-tapping screws Ø4.2x16 supplied with the handle.
The base has 4 holes, with c/c distance 38 mm, for using additional screws (not provided) when changing the handle.
The handle rotor is equipped with a mechanical stop that safeguards the end stroke of the spring, preventing damage and consequent breakage, in case of incorrect operation.
The 110 mm square pin supplied lets you install the handle on profiles from 78 to 82 mm wide (without cutting the pin).
The handle is protected and finished using the GIESSE painting system, which guarantees high quality surfaces, uniformity of colour and excellent resistance to abrasions.
The components are pretreated to guarantee resistance to surface scaling.

Materials
Handle made of die-cast aluminium (painted versions) or zamak (Trend finishes)
Expansion rotor and plate made of galvanised zamak
Self-forming screw for fixing to the rotor made of zinc-plated steel
Plate cover made of zamak
Compression spring made of stainless steel
Steel return spring
Screws for fixing to the profile and square pin 8x8x110 in zinc plated steel
Shim washers made of acetal resin







Item code	Description	Note	Square spindle [mm]	X [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02792	PRIMA HANDLE	pair	8x8x110	78÷82	X		X	X	10

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PRIMA RAPID HANDLE

Functions

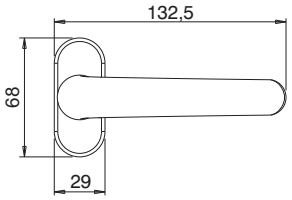
Pair of aluminium handles, with quick-fit fixing system, for fitting on the upright or centre rail of the door.

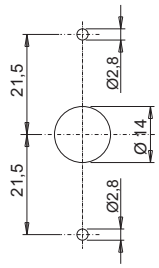
Technical Features

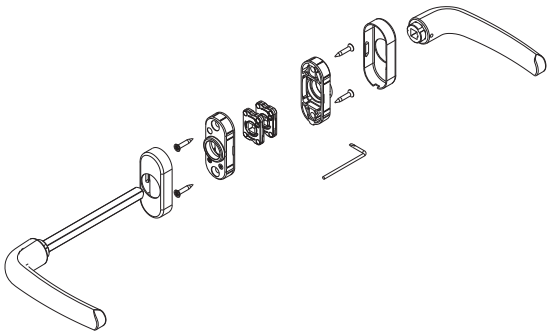
Handle suitable for doors subject to frequent use (use category 3 - Complies with EN1906 - high frequency of use with a high probability of misuse).
The product consists of a handle to be positioned inside the door and a handle to be positioned outside. The outside handle is integral with a square pin of 8 mm, which engages inside the coupling mechanism in the inside handle.
The PRIMA handle is burglar-proof, since it can only be removed by using the key supplied on the special spring in the inner handle.
The handle can be applied to profiles from 70 to 80 mm wide without cutting the spindle, a procedure which is actually necessary for profiles under 70 mm wide.
The handle is equipped with reversible reversible internal mechanisms, which enable reversible (top/bottom) operation of the handle.
The PRIMA handle has been classed in conformity with the DIN EN 1906 standard.

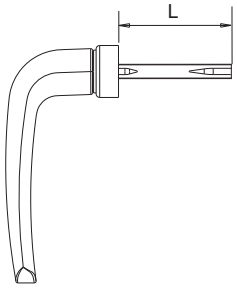
Materials

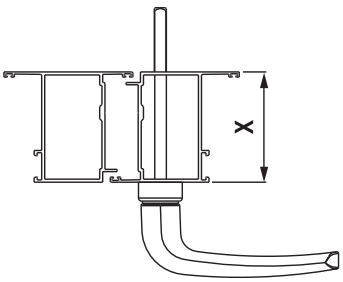
Internal and external aluminium handle
Polyamide oval plates
Square pin 8 mm in zinc plated steel
Plate covers in aluminium
Self-tapping fixing screws and internal mechanisms in zinc plated steel











Item code	Description	Note	Square spindle length L [mm]	X [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02424N	QUICK-FIT PRIMA HANDLE	pair	130	70÷80		X	X	X	1
02426	QUICK-FIT PRIMA HANDLE	pair	150	90÷100		X	X	X	1

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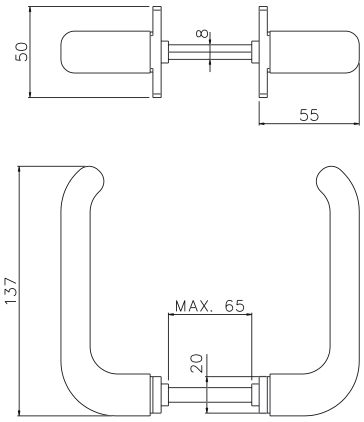
MASTERMONT HANDLE

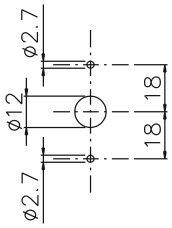
Functions
Pair of reversible aluminium handles for fitting on the upright or centre rail of the door.

Technical Features
The MASTER MONT handle is composed of two handles, two flat pins and two fixing plates.
The aluminium pull handle has the same styling as the EURO line of cremones.
The handle is applicable on profiles of up to 65 mm wide without cutting the spindle.

Materials
Handle in aluminium
Flat pins 8x4x122 in zinc plated steel
Polyamide fixing plate
Fixing screws, zinc-coated steel
Nickel-plated steel grub screws

Parts
2 Pins 8x4x112 mm
4 CSH self-tapping screws 3.5x13
2 Grub screws M6x10





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02458	MASTERMONT HANDLE	pair	X		X		20

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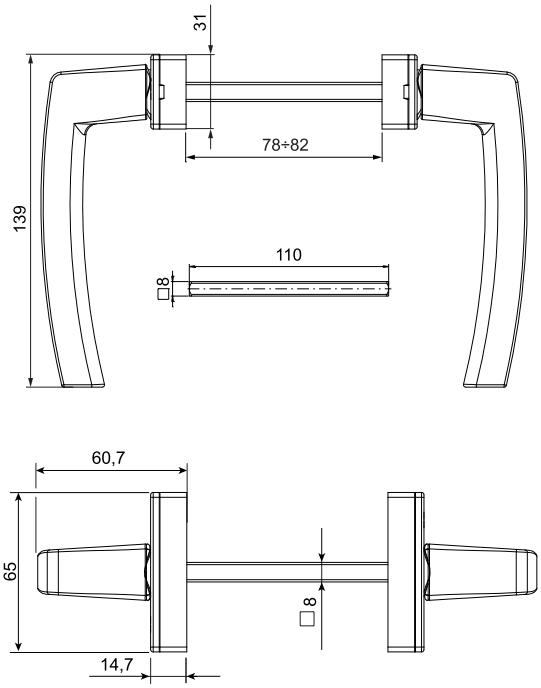


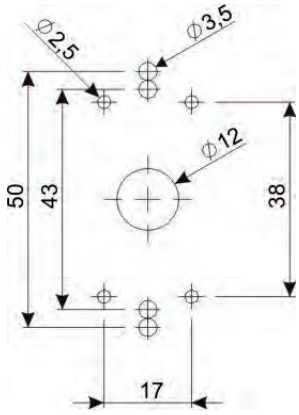
ASIA HANDLE

Functions
Pair of aluminium handles, reversible with stop, for fitting on the upright or centre rail of the door.

Technical Features
The ASIA door handle comprises a base and a rotor which, combined with a return spring, enables reversible operation and horizontal positioning of the handle.
Instant access to the fixing screws by simply rotating the plate cover.
The double C/C distance of the drilling, 43 and 50 mm, enables the handle to be fitted on the majority of profiles available on the market. Fixing to the profile is done with the self-tapping screws Ø 4.2x16 supplied with the handle.
The base has 4 holes, with c/c distance 38 mm, for using additional screws (not provided) when changing the handle.
The handle rotor is equipped with a mechanical stop that safeguards the end stroke of the spring, preventing damage and consequent breakage, in case of incorrect operation.
The 110 mm square pin supplied lets you install the handle on profiles from 78 to 82 mm wide (without cutting the pin).
The handle is protected and finished using the GIESSE painting system, which guarantees high quality surfaces, uniformity of colour and excellent resistance to abrasions.
The components are pretreated to guarantee resistance to surface scaling.

Materials
Handle in die-cast aluminium
Rotor in zinc plated zamak
Self-forming screw for fixing to the rotor made of zinc-plated steel
Base and cover made of painted zamak
Compression spring made of stainless steel
Steel return spring
Screws for fixing to the profile and square pin 8x8x110 in zinc plated steel
Shim washers made of acetal resin





Item code	Description	Note	Square spindle [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02414	ASIA HANDLE	pair	8x8x110	X		X		10

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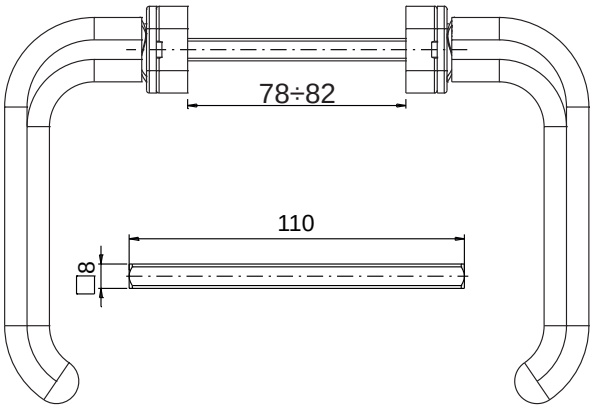


MASTER PLUS HANDLE

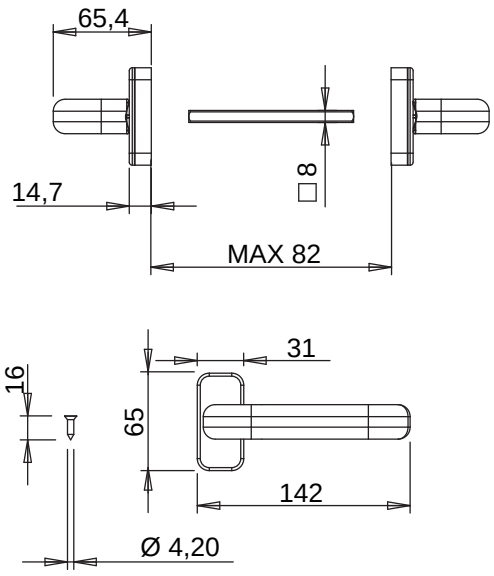
Functions
Pair of aluminium handles, reversible with stop, for fitting on the upright or centre rail of the door.

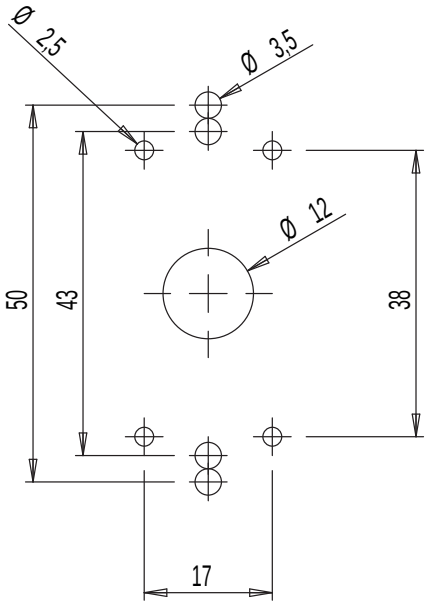
Technical Features
The MASTER PLUS door handle comprises a base and a rotor which, combined with a return spring, allows reversible operation and horizontal positioning of the handle.
Instant access to the fixing screws by simply rotating the plate cover.
The double C/C distance of the drilling, 43 and 50 mm, enables the handle to be fitted on the majority of profiles available on the market.
Fixing to the profile is carried out using the Ø 4.2x16 self-threading screws supplied with the handle.
The base has 4 holes, with c/c distance 38 mm, for using additional screws (not provided) when changing the handle.
The handle rotor is equipped with a mechanical stop that safeguards the end stroke of the spring, preventing damage and consequent breakage, in case of incorrect operation.
The 110 mm square pin supplied lets you install the handle on profiles from 78 to 82 mm wide (without cutting the pin).
The handle is protected and finished using the GIESSE painting system, which guarantees high quality surfaces, uniformity of colour and excellent resistance to abrasions.
The components are pretreated to guarantee resistance to surface scaling.

Materials
Handle in die-cast aluminium
Rotor in zinc plated zamak
Self-forming screw for fixing to the rotor made of zinc-plated steel
Base and cover made of painted zamak
Compression spring made of stainless steel
Steel return spring
Screws for fixing to the profile and square pin 8x8x110 in zinc plated steel
Shim washers made of acetal resin



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Item code	Description	Note	Square spindle [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02422	MASTER PLUS HANDLE	pair	8x8x110	X		X		10

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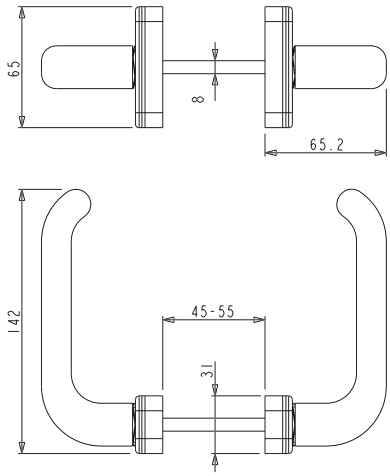
MASTERPLAST HANDLE

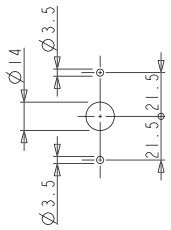
Functions
Pair of polyamide handles, reversible with stop, for fitting on the upright or centre rail of the door.

Technical Features
The MASTERPLAST handle is composed of a pair of handles, completely pre-assembled, and an 8 mm square pin.
The pull handle is pre-assembled to the plate for fixing to the profile, to the screw cap cover and to the rotor with the spring which enables reversible operation, stopping and horizontal positioning of the handle.
The pull handle of the handle has the same styling as the EURO line cremones.
The handle is applicable on profiles of from 45 to 55 mm wide without cutting the spindle.

Materials
Base, cover and handle made of polyamide (red/black)
Rotor in zinc plated zamak
Acetal resin spring
Square pin 8x8x110 and fixing screws in zinc plated steel.

Parts
1 Square pin mm. 8x8X110
4 Self-tapping zinc plated cross-slotted screws 4.2x19





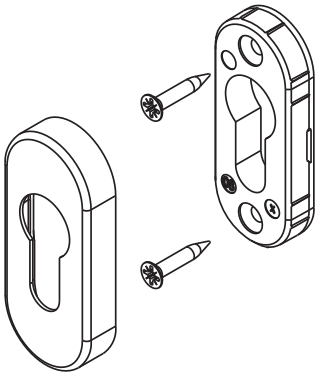
Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02456	MASTERPLAST HANDLE	black polyamide	X				20

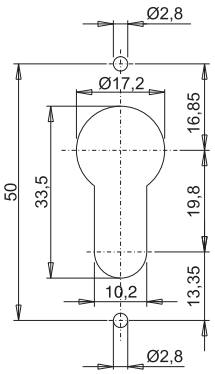
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CYLINDER COVER PLATE

Cylinder cover plate with European profile.
The sub-base of the polyamide cylinder cover plate is fitted to the profile with fixing screws.
The aluminium cover that can be painted is fitted into the polyamide plate.
C/C distance for drilling 50 mm.





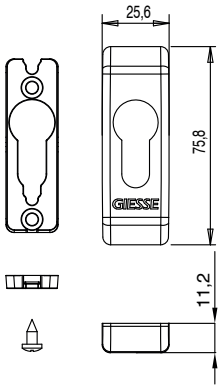
Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02430	CYLINDER COVER PLATE	1 set= 1 cover + 1 cover plate			X	X	20

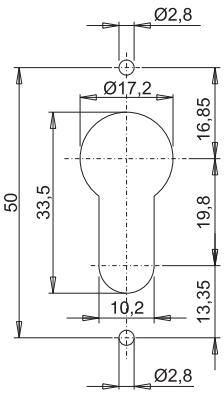
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CYLINDER COVER PLATE

Cylinder cover plate for European profile cylinder.
The rectangular plate is composed of a support that is fixed to the profile by self-tapping screws and a zamak cover that is snap-fitted on the support.
C/C distance for drilling 50 mm.





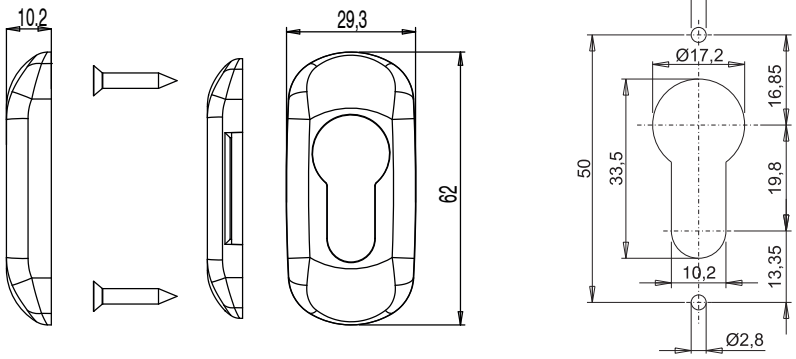
Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04476N	CYLINDER COVER PLATE		X		X		20

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OVAL ROSETTE FOR MACHINED CYL.

Cylinder cover plate for European profile cylinder.
The oval plate is composed of a plate that is fixed to the profile by self-tapping screws and a cover that is snap-fixed on the plate.
The plate design matches that of the Flora handle.
C/C distance for drilling 49 mm.



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07058N	OVAL ROSETTE FOR MACHINED CYL.	1 set= 2 covers + 2 cover plates	X		X		20

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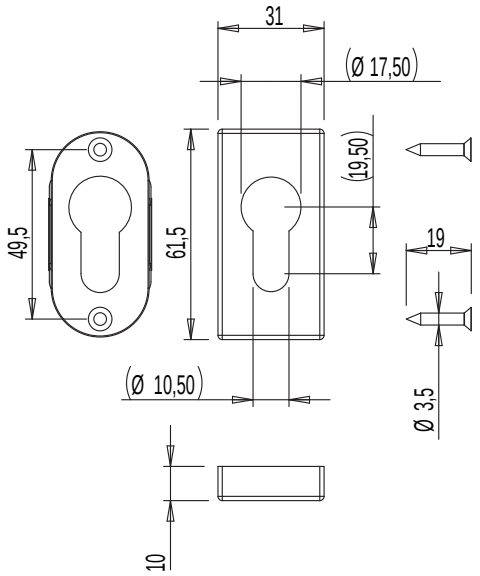
ASIA CYLINDER COVER PLATE

Cylinder cover plate for European profile cylinder.

Technical Features
Rectangular cover plate for European profile cylinders, composed of a sub-plate to be fixed to the profile with self-threading screws and a cover for snap-mounting to the sub-plate.
The plate design matches that of the Asia handle.

Materials
External cover plate of painted aluminium
Polyamide cover plate sub-base
Zinc plated steel screws

Overall dimensions



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02431	ASIA CYLINDER COVER PLATE	1 set= 1 cover + 1 cover plate	X		X		20

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GHIBO OUT KEY CYLINDER COVER PLATE

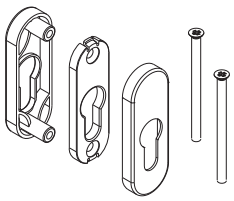
Cylinder cover plates for European profile cylinder.

Technical Features
Cylinder cover plates with European profile for GHIBO OUT KEY mechanisms.
Available in the following versions:
- IN cylinder cover plate to cover the cylinder on the inside only
- IN/OUT cylinder cover plate to cover the through-cylinder, that is protruding on both sides of the sash profile

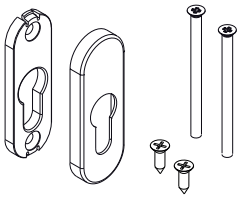
The external part of the plate cannot be removed except by unscrewing the screws from inside the balcony-door.
The product is compatible only with mechanisms that have a fixing c/c distance of 63 mm such as GHIBO OUT KEY products.

Materials
External cover plate of painted zamak
Internal cover plate of painted aluminium
Polyamide sub-plate
Zinc plated steel screws

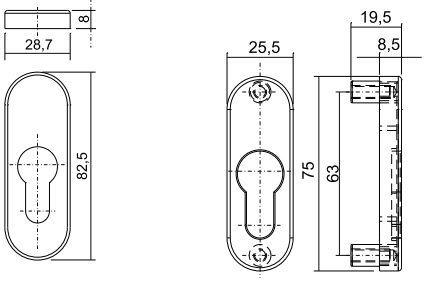
Art. 04095



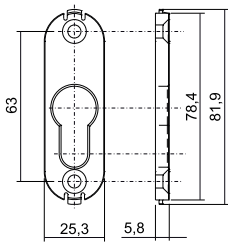
Art. 04096



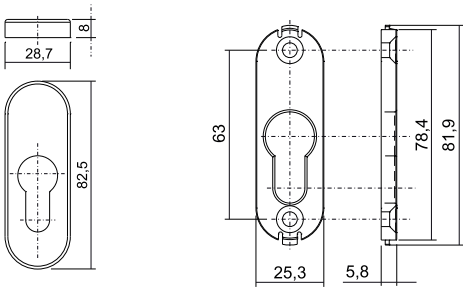
IN/OUT cylinder cover plate



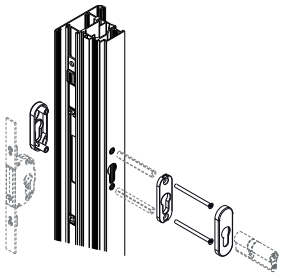
IN cylinder cover plate



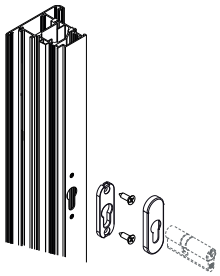
IN cylinder cover plate



Assembly sequence Art. 04095



Assembly sequence Art. 04096



Item code	Description	Technical notes	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04095	IN-OUT cylinder cover plate	for art. 04086/87/88 - Compatible with standard European cylinders	X		X		5
04096	IN cylinder cover plate	for art. 04086/87/88 - Compatible with standard European cylinders	X		X		5

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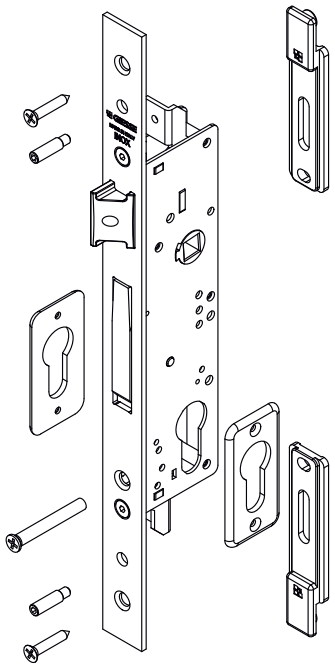


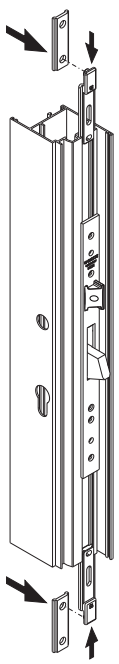
LOCKS FOR TOP-BOTTOM LOCKING

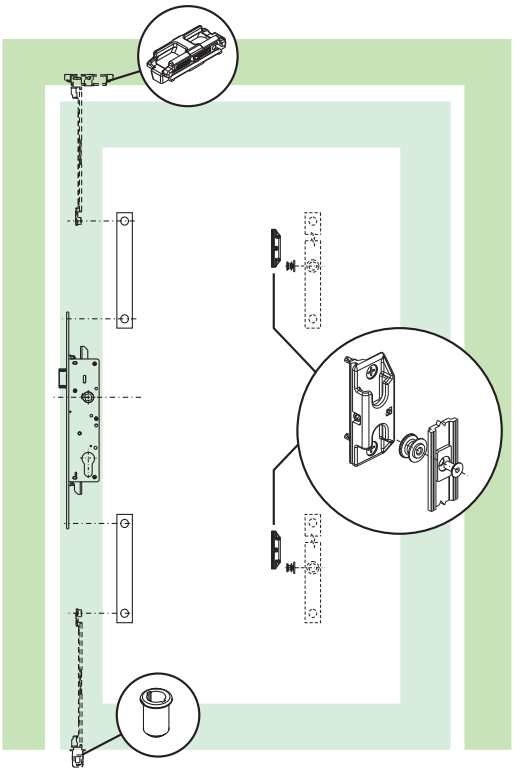
Functions
Central lock, slip-on version for aluminium stiles, with adjustable spring latch and tilting bolt, ready for rod connection for top/bottom fastening mechanism.

Technical Features
Lock compatible with European profile cylinders, has a burglar-proof tilting bolt and a reversible spring latch (RH or LH), adjustable from 10 to 15 mm.
Bolts operated with the cylinder.
Spring latch operated with the cylinder and with the 8 mm handle spindle.
Cylinder handle C/C distance 85 mm.
Bolt with thickness of 10 mm and minimum protrusion of 24 mm.
Spring latch with 10 to 15 mm protrusion.
The pair of two-way adapters supplied with the lock, for connecting to the polyamide rod, enables making top bottom locking at several points.
Stroke is 15.5 mm.
The adapters for connecting to the rod have connecting pins size 8 mm.

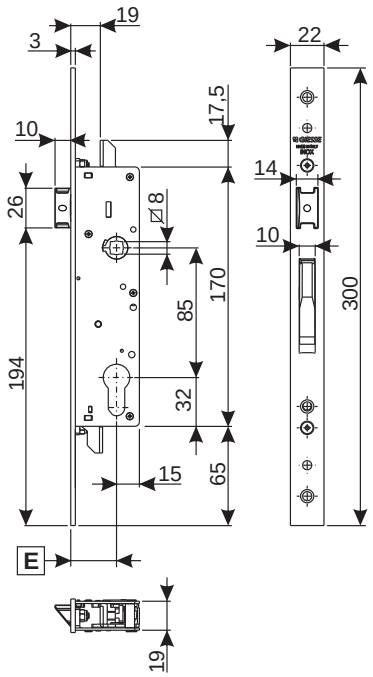
Materials
Lock cover plate and case plate in zinc plated steel
Flat front in stainless steel
Spring latch and bolts in nickel-plated steel
Rod connection adapters in zamak
Polyamide cylinder machining cover studs
Pins for fixing adapters and screw for fixing cylinder in zinc plated steel
Lock fixing screws in stainless steel



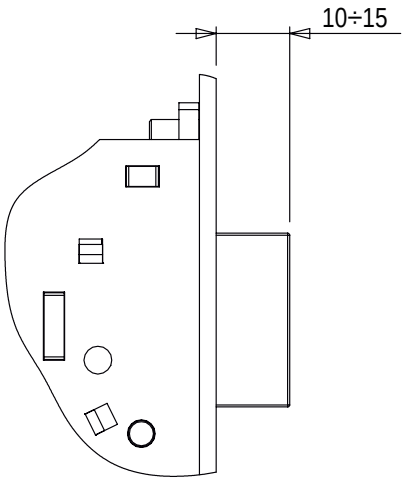




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spring latch adjustment



Item code	Description	BACKSET E [mm]	FRONT WIDTH [mm]	PROFILE CROSS - SECTION	Compatible counter-plates	Base Raw	Anodised Eiox	Painted	Trend/Gold Brass	Pieces per pack
0462701	LOCK FOR TOP/BOTTOM FAS-TENING	30	22	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C016-C017	04630 - 04639 - 04859 - 04860	X				10
0462801	LOCK FOR TOP/BOTTOM FAS-TENING	35	22	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C016-C017	04630 - 04639 - 04859 - 04860	X				10

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LOCKS FOR PERIMETER LOCKING

Functions

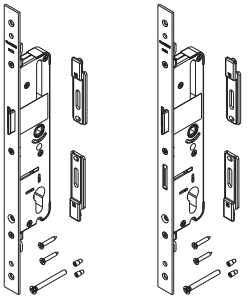
Central lock with spring latch and bolt, slip-on version for aluminium uprights , with two-way mechanism operated by handle.

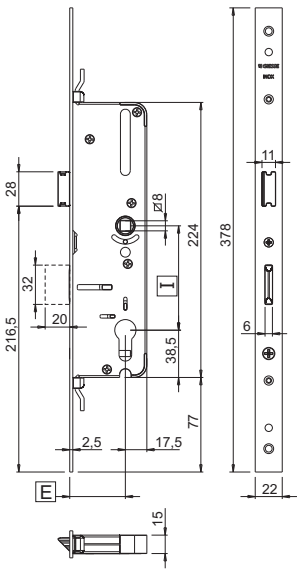
Technical Features

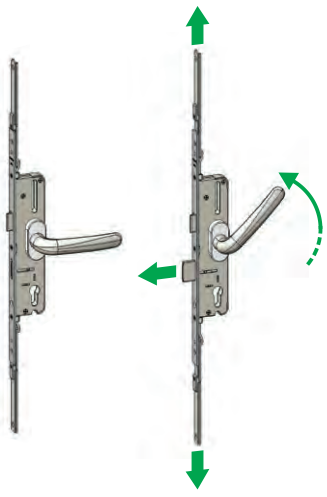
Lock compatible with European profile cylinders, available in version with or without bolt.
Coupled with the polyamide rod, via the specific connection adapters, the lock enables making multipoint locking by suitably choosing the number and the position of the lock points on the various sides of the door.
Operation of the spring latch, bolt (on the version fitted with them) and adapters using the 8 mm handle spindle.
Locking and unlocking the handle using the key.
Cylinder handle C/C distance 85 mm and 92 mm.
Bolt with thickness of 6 mm and stroke of 20 mm.
Reversible spring latch (left/right) with 10 mm protrusion.
Stroke is 18 mm.
The adapters for connecting to the rod have connecting pins size 8 mm.
Note: For the lock to function properly it is mandatory to fit a pair of internal/external handles

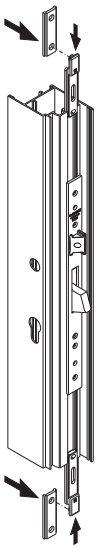
Materials

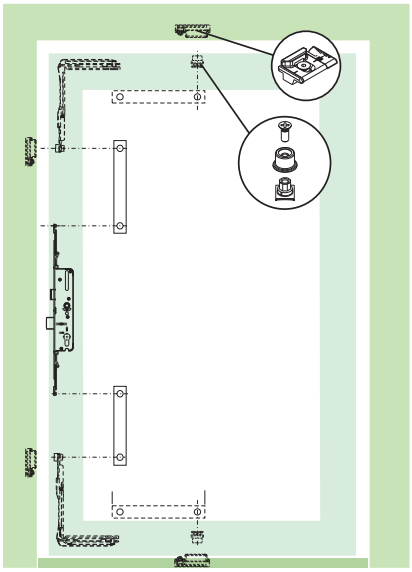
Lock cover plate and case plate in zinc plated steel (except for Article 04699 that has a stainless steel body)
Internal components in zinc plated steel
Flat front in stainless steel
Spring latch and bolt in zinc plated zamak
Rod connection adapters in zamak
Pins for fixing adapters and screws for fixing lock in zinc plated steel
Stainless steel cylinder fixing screw











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Item code	Description	BACKSET [mm]	CYLINDER HANDLE C/C DISTANCE [mm]	FRONT WIDTH [mm]	BOLT	PROFILE CROSS - SECTION	COMPATIBLE COUNTER-PLATES	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04645	LOCK FOR PERIMETER FASTENING	35	85	22	NO	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C016-C017	04655	X				1
04646	LOCK FOR PERIMETER FASTENING	35	85	22	YES	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C016-C017	04655	X				1
04649	LOCK FOR PERIMETER FASTENING	45	85	22	NO	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C016-C017	04655	X				1
04650	LOCK FOR PERIMETER FASTENING	45	85	22	YES	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C016-C017	04655	X				1
04698	LOCK FOR PERIMETER FASTENING	45	92	22	NO	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C016-C017	04655	X				1
04699	LOCK FOR PERIMETER FASTENING	45	92	22	YES	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C016-C017	04655	X				1

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LOCKS WITH SPRING LATCH

Functions

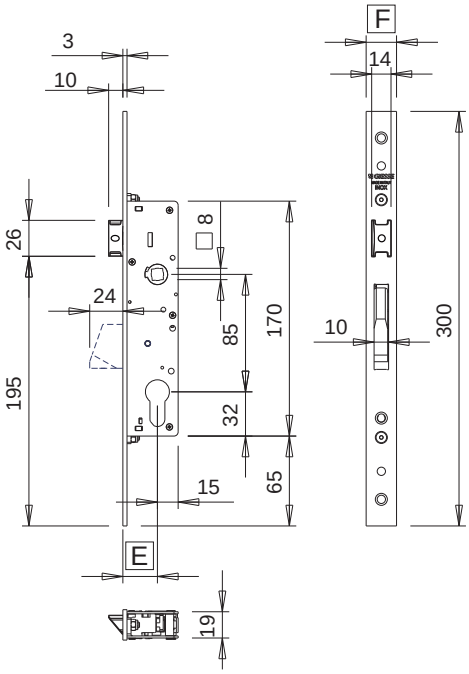
Central lock with front closing, slip-on version for aluminium uprights, with adjustable spring latch and tilting bolt.

Technical Features

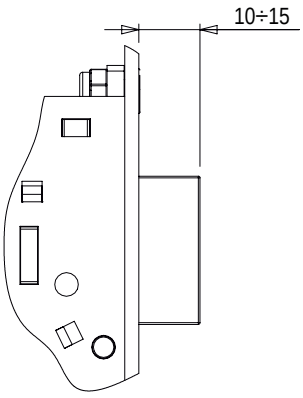
Lock compatible with European profile cylinders, has a burglar-proof tilting bolt and a reversible spring latch (RH or LH), adjustable from 10 to 15 mm.
Bolts operated with the cylinder.
Spring latch operated with the cylinder and with the 8 mm handle spindle.
Cylinder handle C/C distance 85 mm.
Bolt with thickness of 10 mm and minimum protrusion of 24 mm.
Spring latch with 10 to 15 mm protrusion

Materials

Lock cover plate and case plate in zinc plated steel
Flat front in stainless steel
Spring latch and bolts in nickel-plated steel
Polyamide cylinder machining cover studs
Zinc plated steel cylinder fixing screw
Lock fixing screws in stainless steel



Spring latch adjustment



Item code	Description	Backset E [mm]	Front width F [mm]	Compatible counterplates	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0461301	CENTRAL LOCK WITH SPRING LATCH	25	22	04630 - 04639 - 04859 - 04860	X				10
0461401	CENTRAL LOCK WITH SPRING LATCH	30	22	04630 - 04639 - 04859 - 04860	X				10
0461501	CENTRAL LOCK WITH SPRING LATCH	35	22	04630 - 04639 - 04859 - 04860	X				10
0461901	CENTRAL LOCK WITH SPRING LATCH	25	24	04630 - 04639 - 04859 - 04860	X				10
0462001	CENTRAL LOCK WITH SPRING LATCH	30	24	04630 - 04639 - 04859 - 04860	X				10
0462101	CENTRAL LOCK WITH SPRING LATCH	35	24	04630 - 04639 - 04859 - 04860	X				10

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LOCKS WITH DEAD BOLT AND SPRING LATCH

Functions

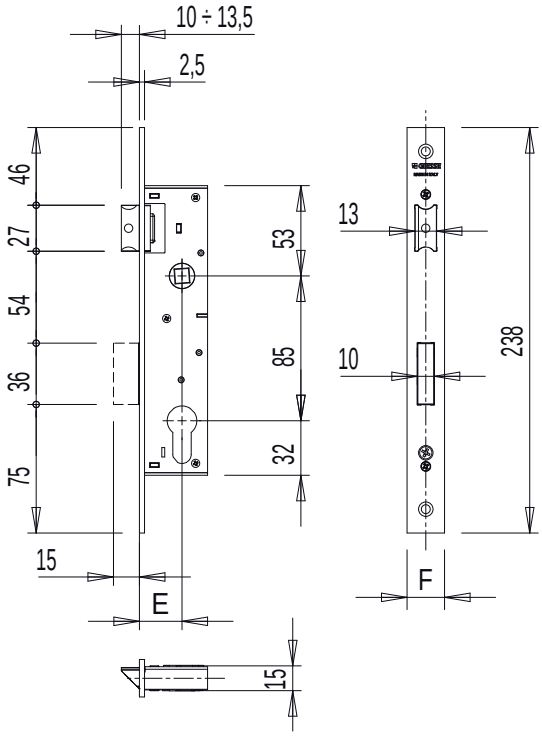
Central lock with front closing, slip-on version for aluminium uprights , with spring latch and sliding bolt.

Technical Features

Lock compatible with European profile cylinders, has a dead bolt and a reversible spring latch (RH or LH).
Bolts operated with the cylinder.
Spring latch operated with the cylinder and with the 8 mm handle spindle.
Cylinder handle C/C distance 85 mm.
Dead bolt with thickness of 10 mm and protrusion of 15 mm.
10 to 13,5 mm adjustable spring latch.

Materials

Lock cover plate and case plate in zinc plated steel
Flat front in stainless steel
Nickel plated brass spring latch and bolt
Nickel-plated steel bolt
Zinc plated steel cylinder fixing screw



Item code	Description	Backset E [mm]	Front width F [mm]	Compatible counterplates	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0763001	CENTRAL LOCK FRONT E.25 mm	25	22	0465801	X				1
0763101	CENTRAL LOCK FRONT E.30 mm	30	22	0465801	X				1
0763201	CENTRAL LOCK FRONT E.35 mm	35	22	0465801	X				1

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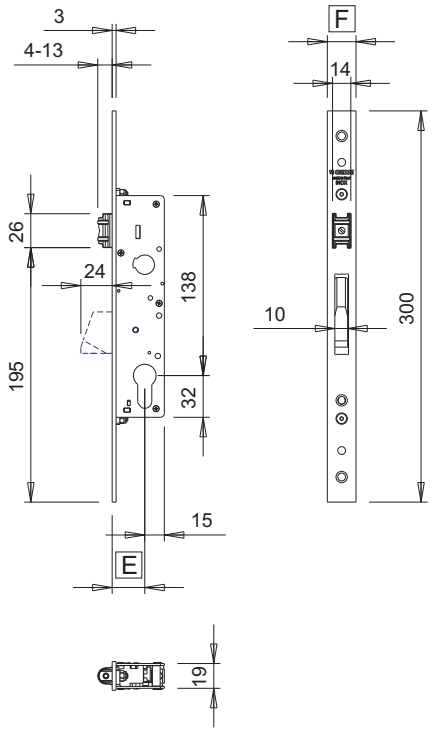


ROLLER AND BOLT LOCKS

Functions
Central lock, slip-on version for aluminium uprights , with roller and pivoting bolt.

Technical Features
Lock compatible with European profile cylinders, has a burglar-proof pivoting bolt and a protrusion adjustable roller.
Bolts operated with the cylinder.
Bolt with thickness of 10 mm and minimum protrusion of 24 mm.
Roller protrusion adjustable from 4 mm to 13 mm.

Materials
Lock cover plate and case plate in zinc plated steel
Flat front in stainless steel
Nickel-plated zamak roller
Nickel-plated steel bolt
Polyamide cylinder machining cover studs
Zinc plated steel cylinder fixing screw
Lock fixing screws in stainless steel



Item code	Description	Backset E [mm]	Front width F [mm]	Compatible counterplates	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04616	CENTRAL LOCK WITH ROLLER	25	22	04630 - 04639 - 04859 - 04860	X				10
04617	CENTRAL LOCK WITH ROLLER	30	22	04630 - 04639 - 04859 - 04860	X				10
04618	CENTRAL LOCK WITH ROLLER	35	22	04630 - 04639 - 04859 - 04860	X				10
04622	CENTRAL LOCK WITH ROLLER	25	24	04630 - 04639 - 04859 - 04860	X				10
04623	CENTRAL LOCK WITH ROLLER	30	24	04630 - 04639 - 04859 - 04860	X				10
04624	CENTRAL LOCK WITH ROLLER	35	24	04630 - 04639 - 04859 - 04860	X				10

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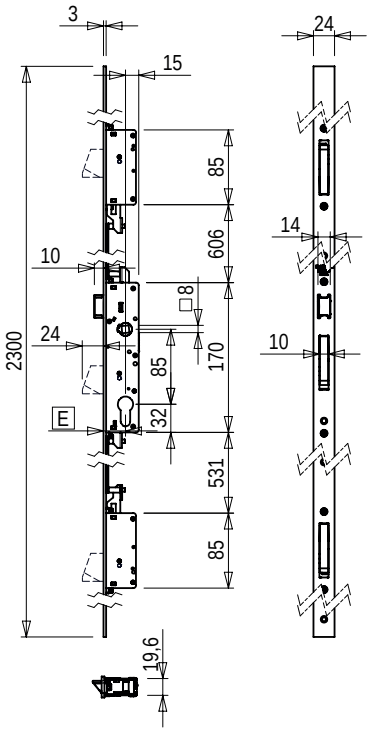


MULTIPOINT LOCKS FLAT FRONT

Functions
Multipoint lock with central lock and two additional locks, flat front plate, with pivoting bolt and spring latch

Technical Features
Lock compatible with European profile cylinders, has burglar-proof pivoting bolts and a reversible spring latch (RH or LH).
Bolts operated with the cylinder.
Spring latch operated with the cylinder and with the 8 mm handle spindle.
Cylinder handle C/C distance 85 mm.
Bolts with thickness of 10 mm and minimum protrusion of 24 mm.
Spring latch with 10 mm protrusion.

Materials
Lock cover plates and case plate in zinc plated steel
Flat front in stainless steel
Spring latch and bolts in nickel-plated steel
Zinc plated steel cylinder fixing screw
Lock fixing screws in stainless steel



Item code	Description	Backset E [mm]	Front width [mm]	Compatible counterplates	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04854	MULTIPOINT LOCK WITH FLAT FRONT	30	24	04861 - 04862	X				1
04855	MULTIPOINT LOCK WITH FLAT FRONT	35	24	04861 - 04862	X				1

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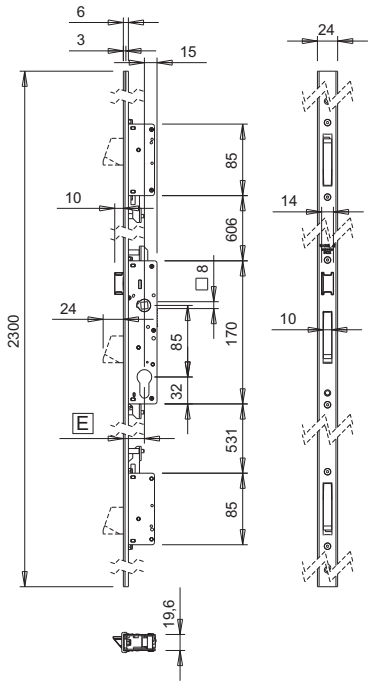


MULTIPOINT DOOR LOCKS U-SHAPED FRONT

Functions
Multipoint lock with central lock and additional locks, front "U"shaped plate, with pivoting bolt and spring latch.

Technical Features
Lock compatible with European profile cylinders, has burglar-proof pivoting bolts and a reversible spring latch (RH or LH).
Bolts operated with the cylinder.
Spring latch operated with the cylinder and with the 8 mm handle spindle.
Cylinder handle C/C distance 85 mm.
Bolts with thickness of 10 mm and minimum protrusion of 24 mm.
Spring latch with 10 mm protrusion.

Materials
Lock cover plates and case plate in zinc plated steel
Stainless steel "U" front
Spring latch and bolts in nickel-plated steel
Zinc plated steel cylinder fixing screw
Lock fixing screws in stainless steel



Item code	Description	Backset E [mm]	Front width [mm]	Compatible counterplates	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04850	MULTIPOINT LOCK WITH "U" FRONT	25	24	04861 - 04862	X				1
04851	MULTIPOINT LOCK WITH "U" FRONT	30	24	04861 - 04862	X				1
04852	MULTIPOINT LOCK WITH "U" FRONT	35	24	04861 - 04862	X				1

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COUNTERPLATES

Functions
Counterplates to be combined with the central locks and multipoint locks per doors.

Technical Features

Type 1 and 2
Adjustable stainless steel counterplates to be combined with the door locks.
Front fixing in a channel with a cam system for coupling in the channel.
Side adjustment ± 2mm with the two adapters ready-assembled to the counterplate

Type 3, 4 and 5
Counterplates and set of flat counterplates to be combined with the single and multi-point locks.
Front fixing with self-tapping screws.
Side adjustment with slots.

Type 6 and 7
Counterplates and set of "U"shaped counterplates to be combined with the single and multi-point locks.
Front fixing with self-tapping screws.
Side adjustment with slots.

Type 8
Shim under the front to be used on profile cross-sections with a large stack to improve the grip of the spring latch of the lock on the counterplate.

Type 9
Flat counterplateto be combined with the locks with dead bolt and latch.
Front fixing with self-tapping screws.

Materials

Type 1 and 2
Front plate, cams and screws for fixing to the profile made of stainless steel
Adapters for side adjustment made of zamak

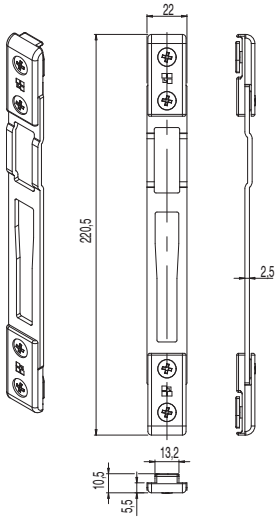
Type 3, 4 and 5
Counterplates and screws for fixing to the profile made of stainless steel

Type 6 and 7
Counterplates and screws for fixing to the profile made of stainless steel
Polyamide concealer caps

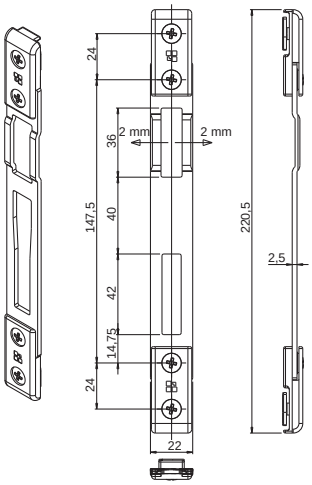
Type 8
Polyamide shim

Type 9
Counterplates and screws for fixing to the profile made of stainless steel

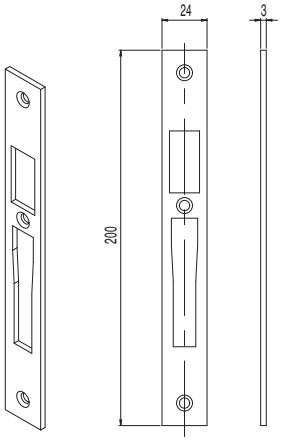
Counterplate Type 1



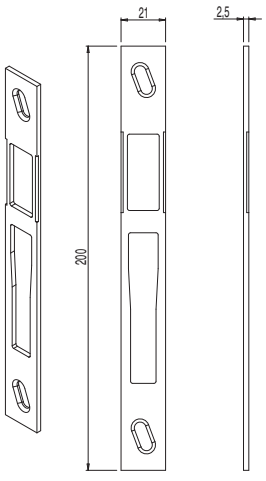
Counterplate Type 2



Counterplate Type 3

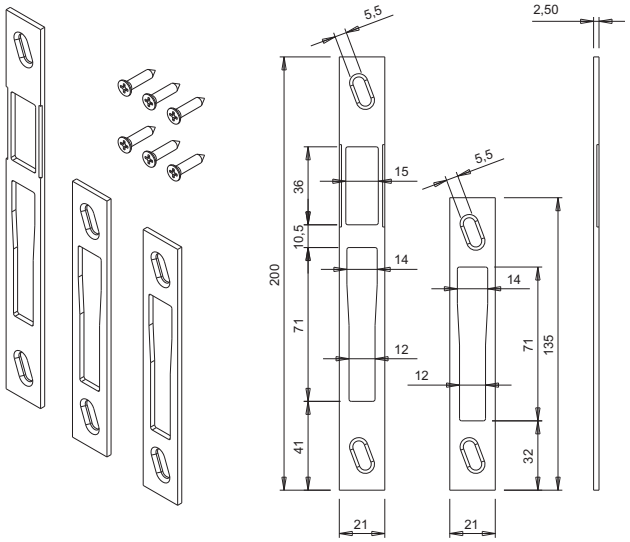


Counterplate Type 4

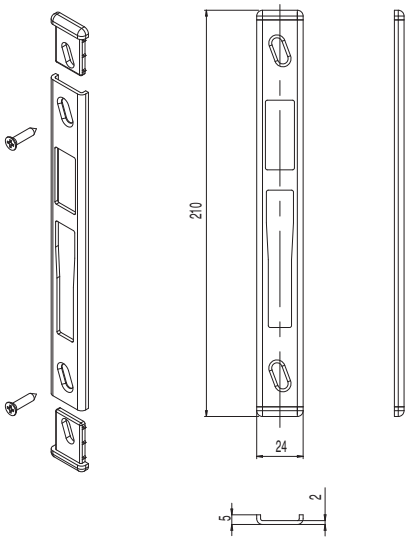


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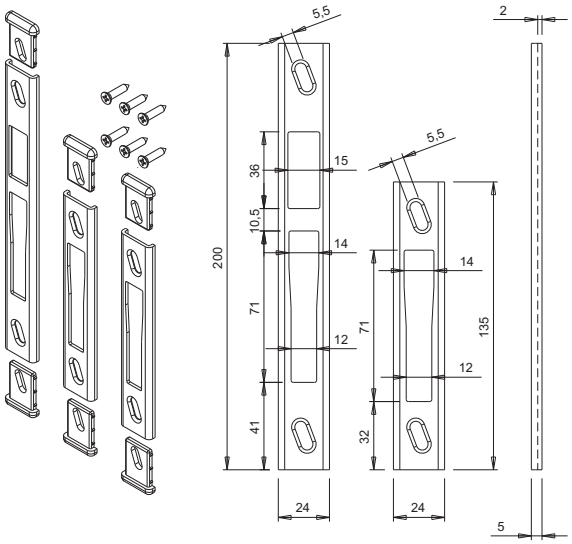
Counterplate Type 5



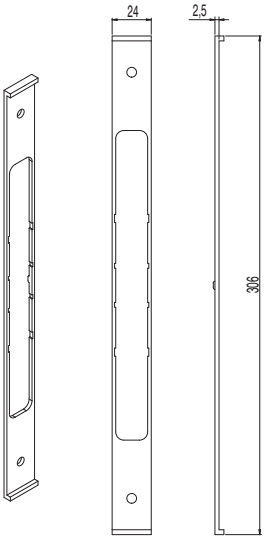
Counterplate Type 6



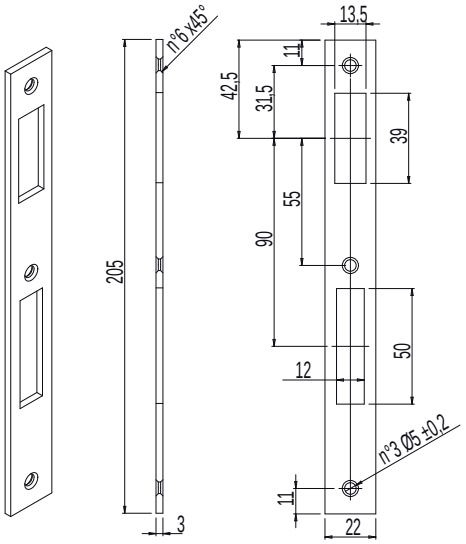
Counterplate Type 7



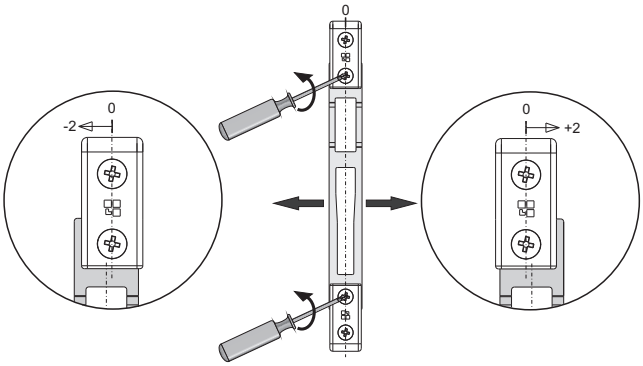
Counterplate Type 8



Counterplate Type 9



Adjustments



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Item code	Descriptions	Note	Adjustment	Width [mm]	PROFILE CROSS - SECTION	Can be combined with lock	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04630	COUNTERPLATE FOR DOOR LOCKS	Type 1	± 2 mm	22	C001-C002-C004-C011-C012-C013-C014-C015-C016-C017	0462701 - 0462801 - 0461301 - 0461401 - 0461501 - 04616 - 04617 - 04618 - 0461901 - 0462001 - 0462101 - 04622 - 04623 - 04624	X				5
04639	UNIVERSAL COUNTERPLATE	Type 3	-	24		0462701 - 0462801 - 0461301 - 0461401 - 0461501 - 04616 - 04617 - 04618 - 0461901 - 0462001 - 0462101 - 04622 - 04623 - 04624	X				10
04655	COUNTERPLATE FOR LOCKS FOR PERIMETER LOCKING	Type 2	± 2 mm	22	C001-C002-C004-C011-C012-C013-C014-C015-C016-C017	04645 - 04646 - 04649 - 04650 - 04699	X				5
0465801	FLAT COUNTERPLATE	Type 9	-	22		0763001 - 0763101 - 0763201	X				10
04859	COUNTERPLATE W/ FLAT FRONT	Type 4	± 1.5 mm	21		0462701 - 0462801 - 0461301 - 0461401 - 0461501 - 04616 - 04617 - 04618 - 0461901 - 0462001 - 0462101 - 04622 - 04623 - 04624	X				5
04860	COUNTERPLATE W/ U FRONT	Type 6	± 1.5 mm	24		0462701 - 0462801 - 0461301 - 0461401 - 0461501 - 04616 - 04617 - 04618 - 0461901 - 0462001 - 0462101 - 04622 - 04623 - 04624	X				5
04861	FLAT FRONT COUNTERPLATE KIT	Type 5	± 1.5 mm	21		04850 - 04851 - 04852 - 04853 - 04854 - 04855	X				5
04862	U FRONT COUNTERPLATE KIT	Type 7	± 1.5 mm	24		04850 - 04851 - 04852 - 04853 - 04854 - 04855	X				5
04863	SHIM UNDER FRONT	Type 8	-	-		0461901 - 0462001 - 0462101	X				5

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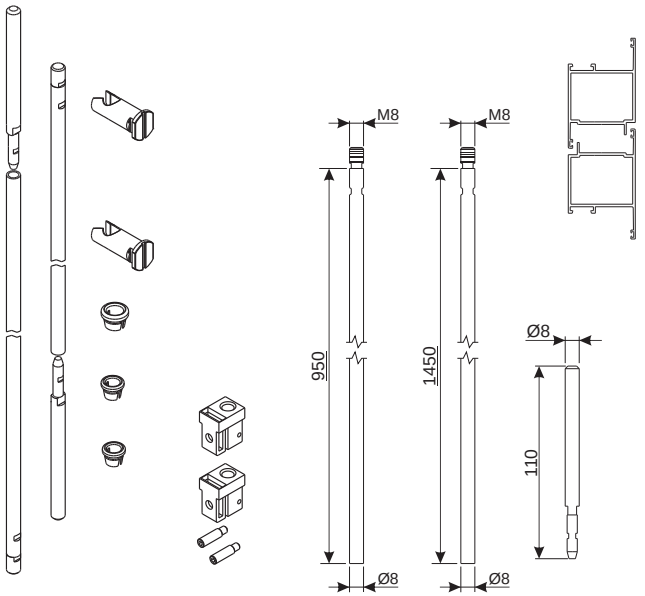


RODS AND ACCESSORIES

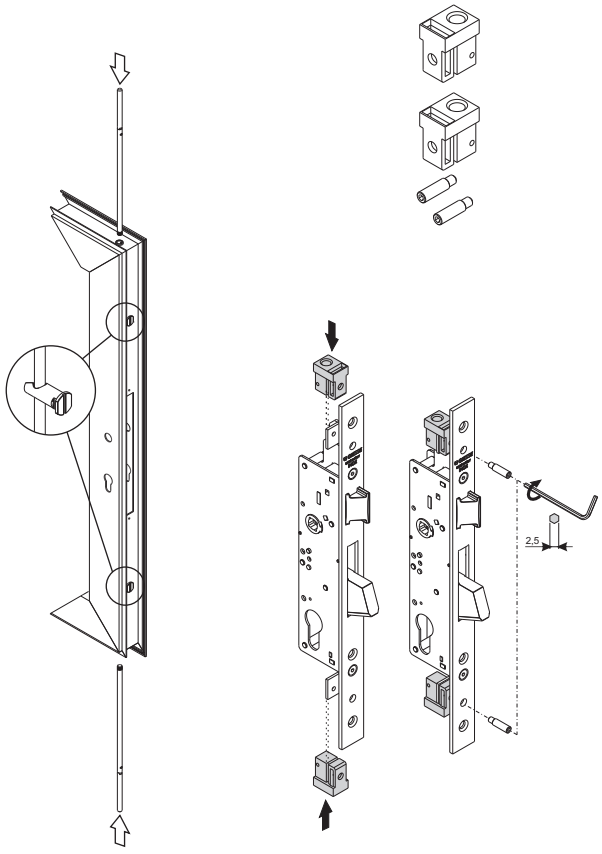
Functions
Internal rod kit for central locks designed for rod connection.

Technical Features
Kit of internal rods and specific adapters to fix the locks for top/bottom fastening mechanisms on door-type profiles (with or without a channel).
The internal rod kit comprises:
• a pair of rods of diameter 8 mm, to be cut to the desired length depending on the size of the door
• a pair of M8 threaded bolt tips to be assembled to the rods after cutting
• anti-noise bushings, rod guide clamps and bushing/striker to insert on the cross beam of the door frame
The rod kit is to be combined with the special adapters, to replace the ones supplied with the locks, which fixed with a grub screw to the top/bottom drives of the lock allow top and bottom locking.

Materials
Rods and bolt tips made of zinc plated steel
Bushes, rod guide clamps and bush/striker in polyamide
Zinc plated zamak adapters
M4 threaded pins in zinc plated steel



Internal rod adapters



Item code	Description	Compatible lock	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04642	INTERNAL ROD KIT FOR LOCKS	0462701-0462801	X				10
04643	INTERNAL ROD ADAPTER KIT	0462701-0462801	X				10

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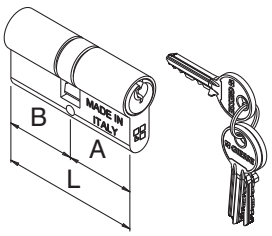


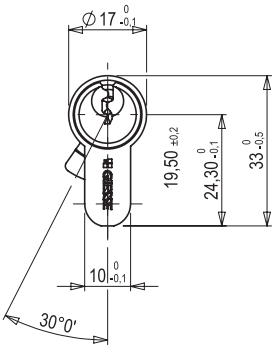
EUROPEAN PROFILE DOUBLE CYLINDER

Functions
Double cylinder with European profile

Technical Features
Double cylinder with European profile with 5-pin coding system.
Projecting DIN cam.
Stack 0.5 mm.
The product is supplied with a set of 3 keys in a ring and countersunk flat head fixing screw.

Materials
Cylinder body in nickel-plated brass
Nickel-plated brass cylinder
DIN cam in sintered steel
Pins and counter-pins in brass
Springs in stainless steel
Nickel-plated brass key
Zinc plated steel fixing screw





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DOOR CYLINDERS
EUROPEAN PROFILE DOUBLE CYLINDER

Item code	Description	L	A	B	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04469N	Double cylinder with European profile 35/35	70	35	35	X				10
04491N	Double cylinder with European profile 30/40	70	30	40	X				10
07675	Double cylinder with European profile (27/27)	54	27	27	X				10
07680	Double cylinder with European profile 31/31	62	31	31	X				10
07681	Double cylinder with European profile 27/37	64	27	37	X				10
07682	Double cylinder with European profile 35/35	70	35	35	X				10
07683	Double cylinder with European profile 31/41	72	31	41	X				10
07684	Double cylinder with European profile 41/41	82	41	41	X				10
07685	Double cylinder with European profile 31/51	82	31	51	X				10
07687	Double cylinder with European profile 31/61	92	31	61	X				10
07688	Double cylinder with European profile 51/41	92	51	41	X				10
07689	Double cylinder with European profile 31/91	122	31	91	X				10
07697	Double cylinder with European profile (55/55)	110	55	55	X				10
07698	Double cylinder with European profile 37/37	74	37	37	X				10
07699	Double cylinder with European profile 37/47	84	37	47	X				10

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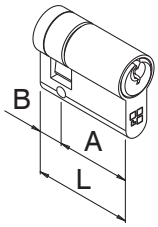


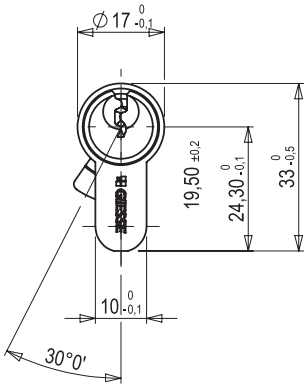
HALF CYLINDER EUROPEAN PROFILE

Functions
Half cylinder with European profile

Technical Features
European profile half cylinder with 5-pin coding system.
Projecting DIN cam.
Stack 0.5 mm.
The product is supplied with a set of 3 keys in a ring and countersunk flat head fixing screw.

Materials
Cylinder body in nickel-plated brass
Nickel-plated brass cylinder
DIN cam in sintered steel
Pins and counter-pins in brass
Springs in stainless steel
Nickel-plated brass key
Zinc plated steel fixing screw





Item code	Description	L	A	B	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
05995	Half cylinder with European profile 45/10	55	45	10	X				10
05996	Half cylinder with European profile 55/10	65	55	10	X				10
07674	Half cylinder with European profile 27/10	37	27	10	X				10
07686	Half cylinder with European profile 31/10	41	31	10	X				10

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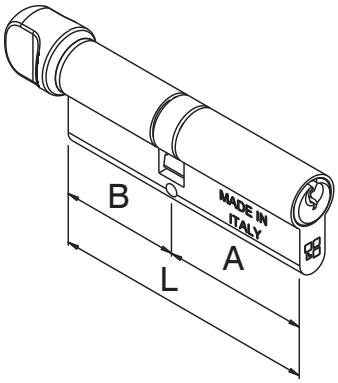


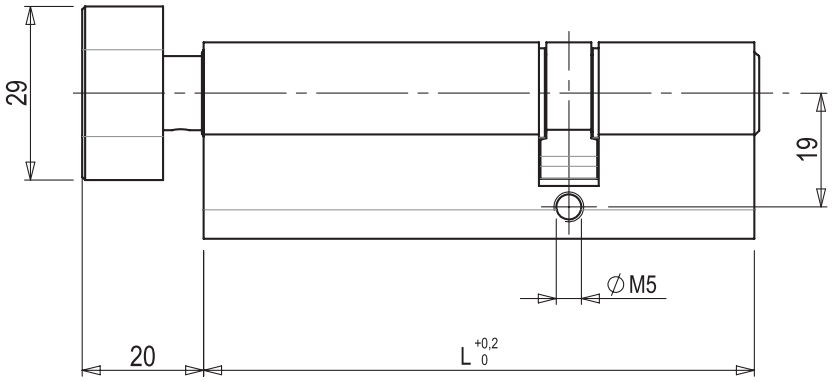
EUROPEAN PROFILE CYLINDER WITH KNOB

Functions
European profile cylinder with knob.

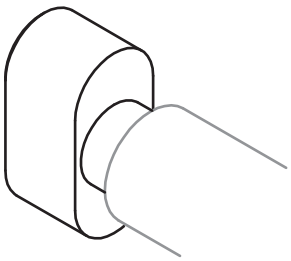
Technical Features
European profile cylinder with knob with 5-pin coding system.
Projecting DIN cam.
Stack 0.5 mm.
The product is supplied with a set of 3 keys in a ring and countersunk flat head fixing screw.

Materials
Cylinder body in nickel-plated brass
Nickel-plated brass cylinder
DIN cam in sintered steel
Pins and counter-pins in brass
Springs in stainless steel
Nickel-plated brass key
Nickel-plated brass knob
Zinc plated steel fixing screw

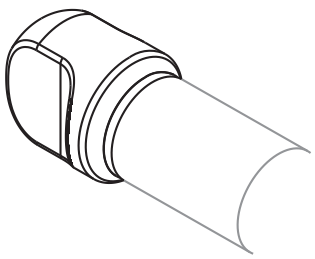




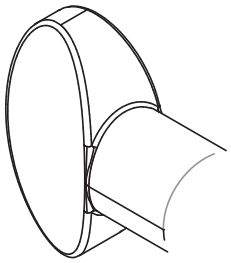
Knob type 1



Knob type 2



Knob type 3



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Item code	Description	L	A	B (knob side)	Knob type	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04463N	European profile cylinder with knob 35/35	70	35	35	1	X				10
04633	European profile cylinder with knob 51/41	92	51	41	2	X				10
04634	European profile cylinder with knob 30/30	62	31	31	2	X				10
04636	European profile cylinder with knob 30/30	92	31	61	2	X				10
04637	European profile cylinder with knob 30/30	92	61	31	2	X				10
04647	European profile cylinder with knob 30/30	92	61	31	3	X				10
05979	European profile cylinder with knob 45/30	75	45	30	1	X				10
05980	European profile cylinder with knob 30/45	75	30	45	1	X				10
05981	European profile cylinder with knob 30/50	80	30	50	1	X				10
05982	European profile cylinder with knob 55/30	85	55	30	1	X				10
05983	European profile cylinder with knob 30/55	85	30	55	1	X				10
05984	European profile cylinder with knob 35/60	95	35	60	1	X				10
05985	European profile cylinder with knob 70/30	100	70	30	1	X				10
05986	European profile cylinder with knob 65/45	110	65	45	1	X				10
07678	European profile cylinder with knob 30/30	122	31	91	2	X				10
07679	European profile cylinder with knob 30/30	122	91	31	2	X				10

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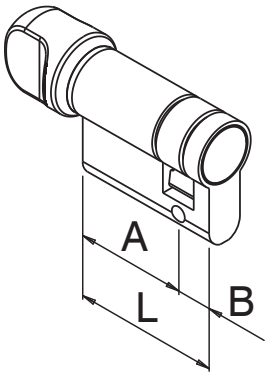


HALF CYLINDER WITH KNOB

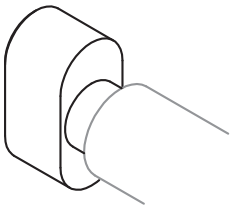
Functions
European profile half cylinder with knob.

Technical Features
European profile half cylinder with knob with 5-pin coding system.
Projecting DIN cam.
Stack 0.5 mm.
The product is supplied with a set of 3 keys in a ring and countersunk flat head fixing screw.

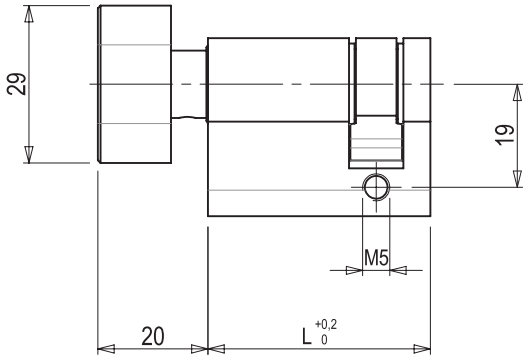
Materials
Cylinder body in nickel-plated brass
Nickel-plated brass cylinder
DIN cam in sintered steel
Pins and counter-pins in brass
Springs in stainless steel
Nickel-plated brass key
Nickel-plated brass knob
Zinc plated steel fixing screw



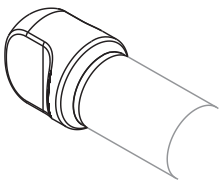
Knob type 1



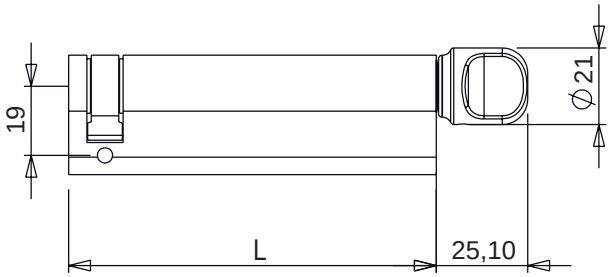
Knob type 1 overall dimensions



Knob type 2



Knob type 2 overall dimensions



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Item code	Description	L	A (knob side)	B	Knob type	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04635	Half cylinder with knob 31/10	41	31	10	2	X				10
04666N	Half cylinder with knob 50/10	60	50	10	1	X				10
05990	Half cylinder with knob 40/10	50	40	10	1	X				10
05991	Half cylinder with knob 45/10	55	45	10	1	X				10
05992	Half cylinder with knob 55/10	65	55	10	1	X				10

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EVO DESIGN

Functions

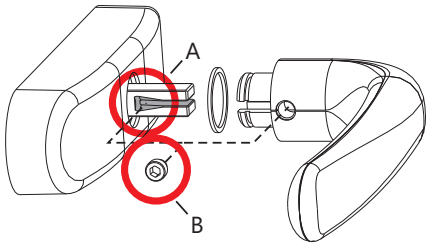
GIESSE EvoDesign is a complete program for doors and windows, designed to meet any styling requirements for design, materials and finishes.
EvoDesign offers the same design for all the locks in the house: Cremones, Window Handles or Handles.

Technical Features

The EvoDesign products are available in the "finished product" version for handles and window handles or in the "Giesse Cover" version.



SISTEMA COVER



COVER SYSTEM

Functions

Mechanism that is completed by a cover and the chosen pull handle.

Technical Features

The mechanism is the technological core of the system. The cover and handle are its customization features that allow a wide choice of finishes and the possibility for the window maker to apply the mechanism in the workshop and to install the cover and handle after installation, thus avoiding any damage to the valuable surface finish.
There are four GIESSE COVER mechanisms:
• sash cremone
• tilt-and-turn window cremone
• window handle
• door handle with oval rosette
The spindle, onto which the pull handle is fitted, measures 8 mm and is provided with a slot (detail A) which receives the grub screw (detail B) which prevents the pull handle slipping and has a geometry that takes up any play.

Mechanisms



Covers

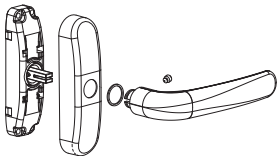


Pull handles



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CREMONE MECHANISM AND COVER



Internal reversible (left/right) devices for Cremone of sash, tilt-and-turn window and outward opening casement (shutters).

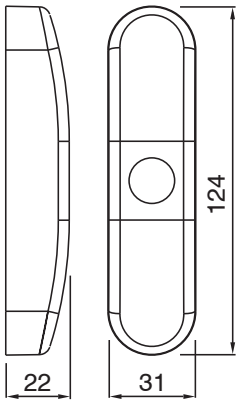
Materials

Mechanism

Die-cast zamak case, rotor, racks and sliders
POM bull ring and stoppers
Polyamide plate
Positioning springs in nickel-plated steel
Plate and screws in stainless steel

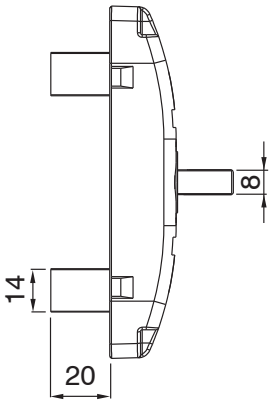
Cover

Made of brass, aluminium or stainless steel



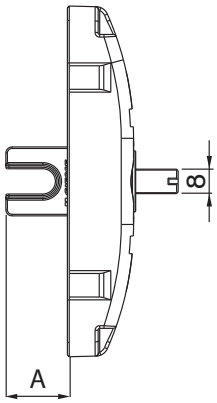
Machining for side-hung and tilt-and-turn windows

Sash

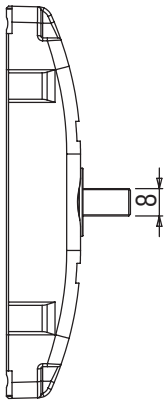


Machining for shutters

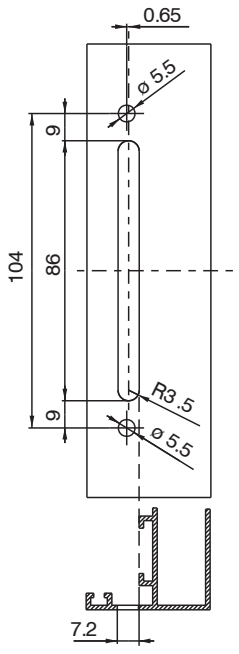
Shutter

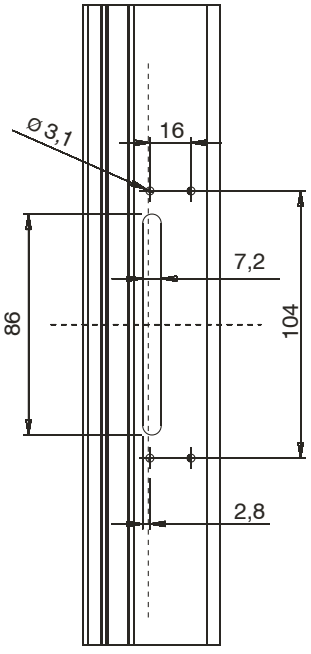


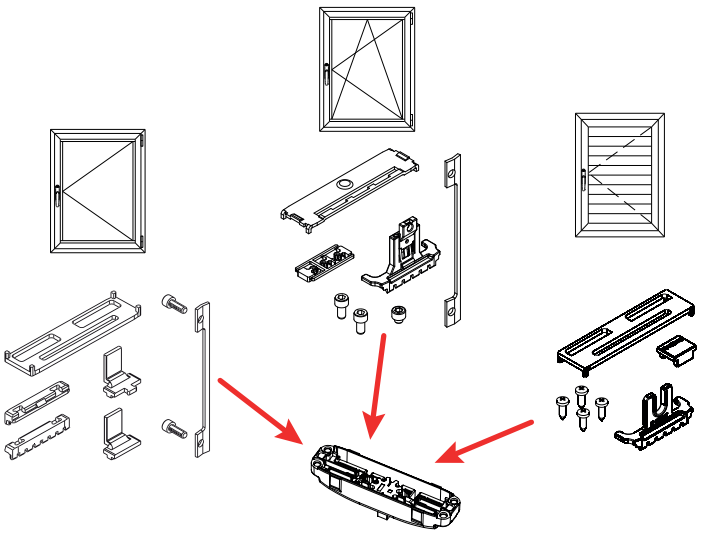
Mechanism 04103V



The 04103V mechanism is compatible with the Unica system kit (See Unica System section)







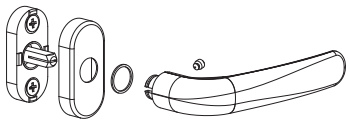
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Item code	Description	PROFILE CROSS - SECTION	Type	Type	Distance A (mm)	Operation	Notes	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0410001	SASH CREMONE MECHANISM	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	Sash	Mechanism		Two-way		X				20
04101V	SINGLE SLIDER MECHANISM 20mm	-	Shutter	Mechanism	20	One-way		X				20
04103V	CREMONE COVER	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010		Cover			with no internal components	X				20
04111V	SINGLE SLIDER MECHANISM	-	Shutter	Mechanism	55	One-way		X				20
04112V	SINGLE SLIDER MECHANISM 35mm	-	Shutter	Mechanism	35	One-way		X				20
04135	CREMONE COVER	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010		Cover				X		X	X	20

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WINDOW HANDLE MECHANISM AND COVER

Internal device for window handle with positioning notch at 90° and 180° suitable for operating one-way mechanisms (tilt-and-turn window) and two-way mechanisms (sash).
Available also in an AWAY version, with lowered square spindle which allows you to extract the handle and cover the hole with special cap.



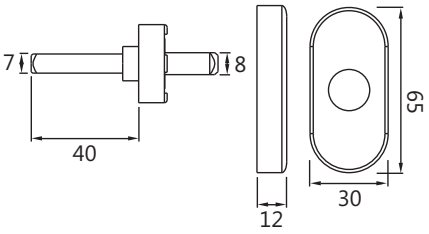
Materials

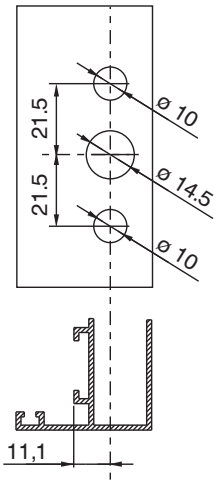
Mechanism

Pre-assembled zinc plated steel body and square pin (supplied as a single component).
Brass rotor body (inserted in the window handle element).
Notch positioning device in spring steel.
Zinc plated steel screws.

Cover

Made of brass, aluminium or stainless steel

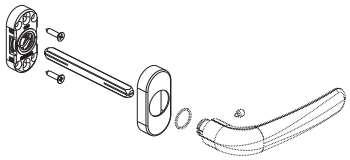




Item code	Description	PROFILE CROSS - SECTION	Type	Type	Operation	Notes	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04142	WINDOW HANDLE COVER	C001-C002-C003-C004-C005-C006-C007-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010		Cover			X		X	X	20

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HANDLE MECHANISM AND COVER



Door handle mechanism with oval rosette, right/left handed and packaged in pairs.
The standard supply comprises, for each pair, an 8 mm square pin, 105 mm long.
To guarantee the horizontal position of the handle, the pull handle is provided with a return spring.

Materials

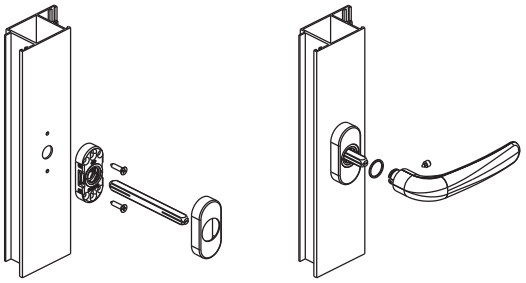
Mechanism

Body in Polyamide PA6 reinforced with fibreglass.
Rotor in die-cast zamak.
Square pin in zinc plated steel.
Pull handle return spring and retaining spring in stainless steel.
Stainless steel screws

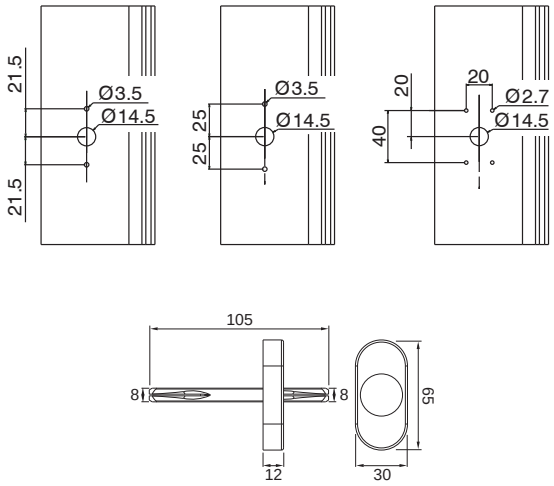
Cover

Made of brass, aluminium or stainless steel

Application



Machinings



Item code	DESCRIPTION	Type	Type	Notes	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04141	COVER HANDLE SQUARE SPINDLE	Door	Mechanism	Only square spindle L = 120	X				20
04150	HANDLE COVER	Door	Cover		X		X	X	20

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HANDLE COVER SECURITY DEVICE



Device for handle in Cover version for security locks.
The special fixing system locks the pull handle from the outside of the door, preventing its removal.
The system is available in a version with an external plate without a cylinder (art. 04210) and in a version with a plate with an external cylinder (art. 04133).
The system should always be combined with the standard handle mechanism art. 04130 to be applied on the outside of the door and with the square pin available in different lengths.
The system is compatible with European profile cylinders and allows utilising all the pull handles of the Evodesign programme.

Materials

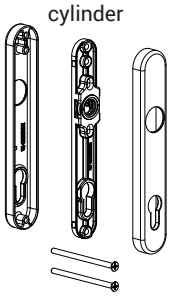
Mechanism

Body in Polyamide PA6 reinforced with fibreglass.
Rotor in die-cast zamak.
Pull handle return spring and retaining spring in stainless steel.
Square pin in zinc plated steel.
Zinc plated steel screws.

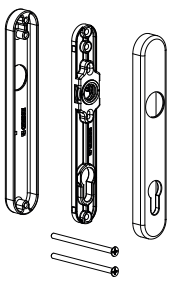
Cover

Die-cast aluminium

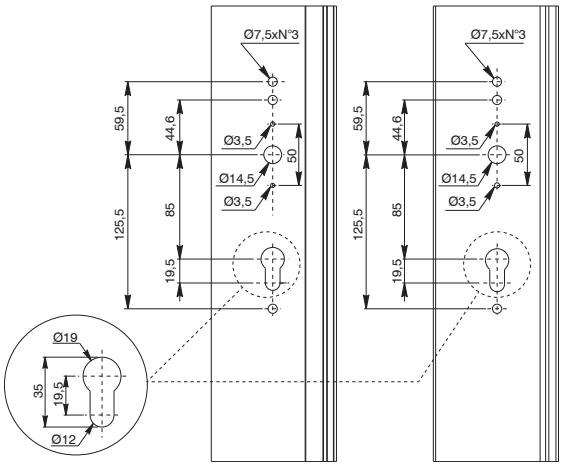
Version for internal/external cylinder

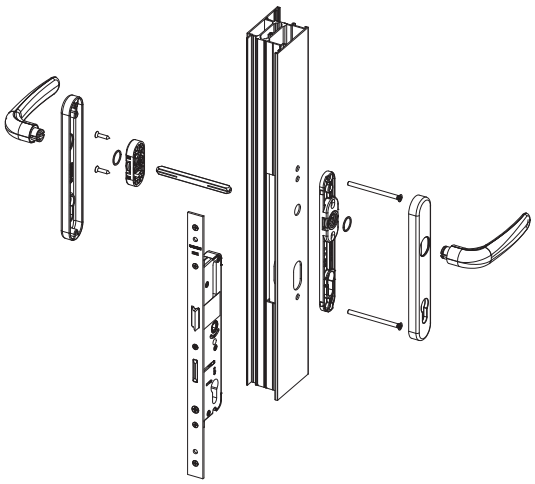


Version for internal cylinder



Internal and external profile machining





Item code	DESCRIPTION	Type	Type	Notes	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04133	COVER SECURITY COVER	Door	Mechanism + cover		X		X		20
04141	COVER HANDLE SQUARE SPINDLE	Door	Mechanism	Only square spindle L = 120	X				20
04210	COVER SECURITY COVER W/O CYLINDER	Door	Mechanism + cover		X		X		20

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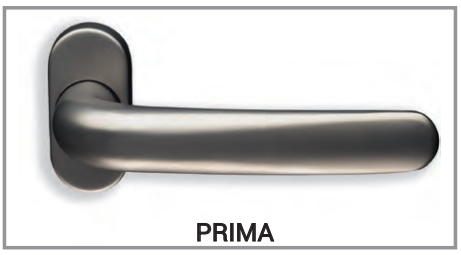
PULL HANDLES



Common to all the mechanisms, the pull handle is the element that diversifies the GIESSE Cover range.
The same pull handle can be applied on doors, windows and shutters.
On the Customer's request, as well as brass the pull handles may be made of aluminium or stainless steel.


ELENA


ELISA


PRIMA

Item code	Description	Note	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04160	PRIMA PULL HANDLE		C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	X		X	X	20
04194	ELENA PULL HANDLE		C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010				X	5

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WINDOW HANDLES AND HANDLES

Functions

Range of door and window handles packaged "finished", Evo Design range.

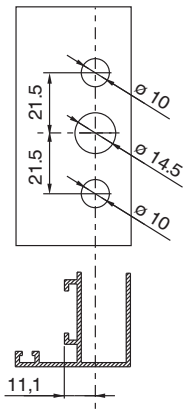
BRASS WINDOW HANDLES

Reversible window handle for operating the M90 two-way and M180 one-way mechanisms on side-hung and tilt-and-turn windows.
It is equipped with a positioner for stopping the rotation at 90° and 180° and has a square pin, for the transmission of the movement, size 7 mm with a stand-out of 40 mm.
The pull handle is hot forged, starting from a brass bar, with particular care that makes for excellent results.
The processes of cleaning, polishing and burnishing enhance the aesthetic characteristics of the brass, while the subsequent transparent, high-resistance painting ensures its durability.

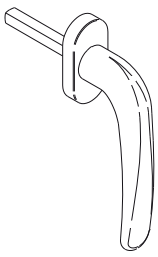
Materials

Handle, cover and rotor in brass
Square spindle and plate in zinc plated steel

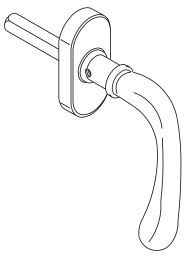




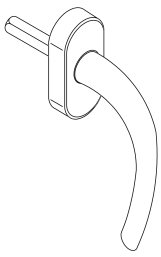
Prima window handle



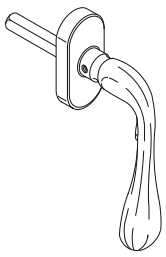
Letizia window handle

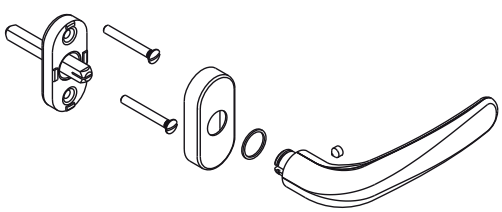


Martina window handle



Margherita window handle





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Item code	Description	PROFILE CROSS - SECTION	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02481N	PRIMA WINDOW HANDLE	-	square pin 7x40 mm				X	4
02482N	PRIMA WINDOW HANDLE	-	square pin 7x70 mm				X	4
02483	TREND WINDOW HANDLE	-	EVODESIGN				X	5
02522N	MARTINA WINDOW HANDLE	C001-C002-C003-C004-C005-C006-C007-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010					X	4
02542N	MARGHERITA WINDOW HANDLE	C001-C002-C003-C004-C005-C006-C007-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010					X	4
02560N	LETIZIA WINDOW HANDLE	C001-C002-C003-C004-C005-C006-C007-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010					X	4

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BRASS HANDLES

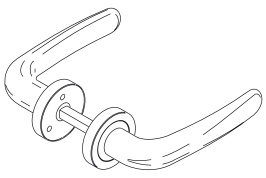


Pair of handles, with stop device, reversible, for fitting on the upright or centre rail of the door.
To guarantee the horizontal position of the handle, the pull handle is equipped with a return coil spring.
The plate cover is screwed onto the plate, while final tightening is done with an Allen screw on the handle that packs everything together.
The pull handle is hot forged, starting from a brass bar, with particular care that makes for excellent results.
The processes of cleaning, polishing and burnishing enhance the aesthetic characteristics of the brass, while the subsequent transparent, high-resistance painting ensures its durability.

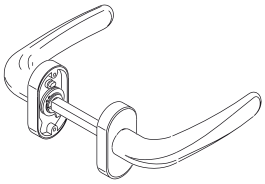
Materials

Handle and case cover in brass
Spring in harmonic steel
Square spindle, screws and Allen screw in zinc plated steel

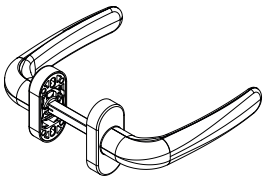
Round rosette
Prima handle



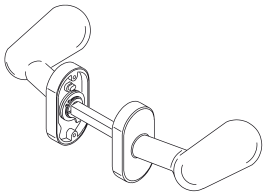
Oval rosette
Prima handle



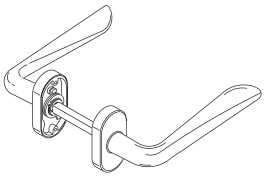
Oval rosette
Marina handle



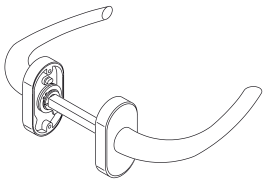
Golf knob



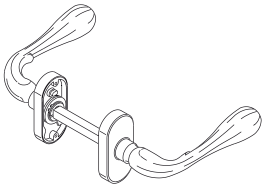
Oval rosette
Simona handle



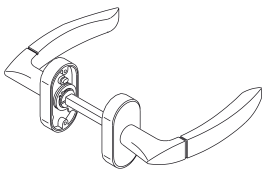
Oval rosette
Martina handle



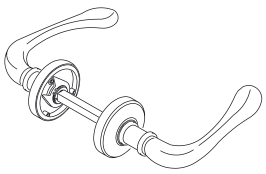
Oval rosette
Margherita handle



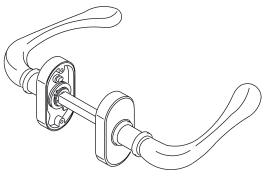
Oval rosette
Alba handle



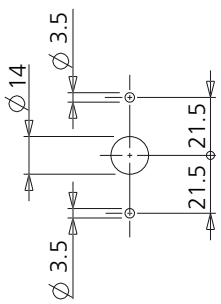
Round rosette
Letizia handle



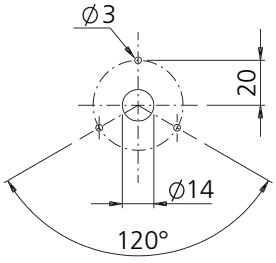
Oval rosette
Letizia handle



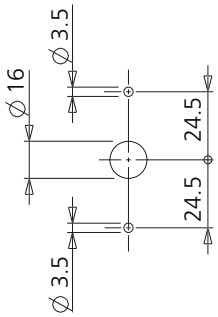
Machining type 1



Machining type 2



Machining type 3



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Item code	Description	Machining	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02473N	OVAL ROSETTE BRASS PRIMA HANDLE-CP	3				X	2
02474N	ROUND ROSETTE BRASS PRIMA HANDLE-CP	2				X	2
02487	OVAL ROSETTE TREND HANDLE	1				X	5
02505	BRASS GOLF KNOB-CP	3				X	2
02518N	BRASS SIMONA HANDLE-CP	3				X	2
02521N	OVAL ROSETTE BRASS MARTINA HANDLE-CP	3				X	2
02541N	OVAL ROSETTE BRASS MARGHER-ITA HANDLE-CP	3				X	2
02553N	OVAL ROSETTE BRASS ALBA HANDLE-CP	3				X	2
02558N	ROUND ROSETTE BRASS LETIZIA HANDLE-CP	2				X	2
02559N	OVAL ROSETTE BRASS LETIZIA HANDLE-CP	3				X	2

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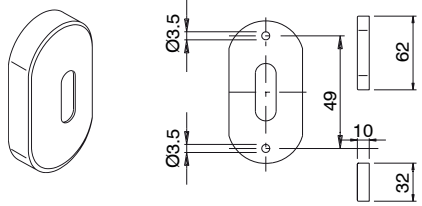


BRASS PLATES

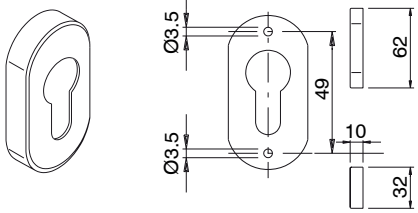
Functions

Round cylinder cover plates in brass for European profile cylinder and Patent cylinder.

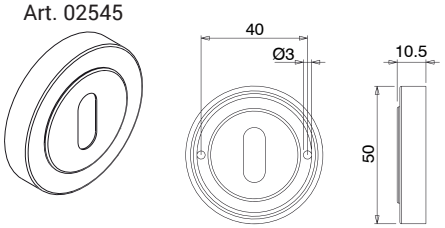
Art. 02543



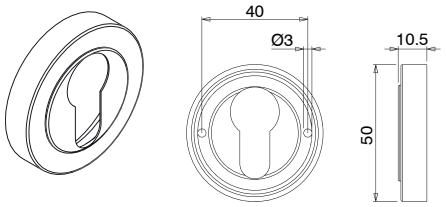
Art. 02544



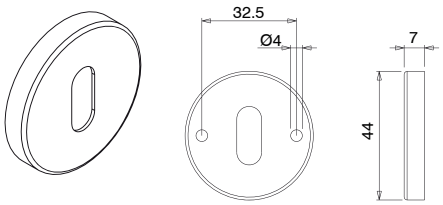
Art. 02545



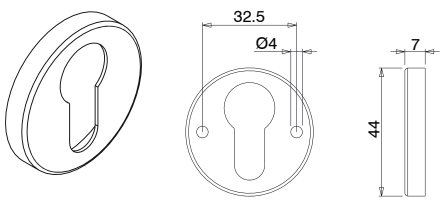
Art. 02546



Art. 02547



Art. 02548



Item code	Description	Materials	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02543	BRASS OVAL ROSETTE-CP	Polyamide plate and brass cover				X	10
02544	BRASS OVAL ROSETTE-CP	Polyamide plate and brass cover	X			X	10
02545	BRASS ROUND ROSETTE-CP	Brass plate and cover				X	10
02546	BRASS ROUND ROSETTE-CP	Brass plate and cover				X	10
02547	BRASS ROUND ROSETTE-CP	Polyamide plate and brass cover				X	10
02548	BRASS ROUND ROSETTE-CP	Polyamide plate and brass cover				X	10

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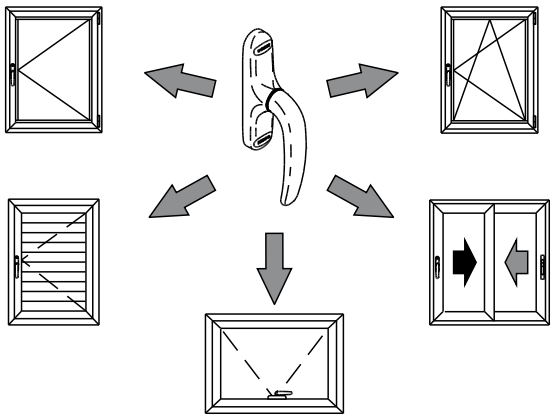
UNICA SYSTEM

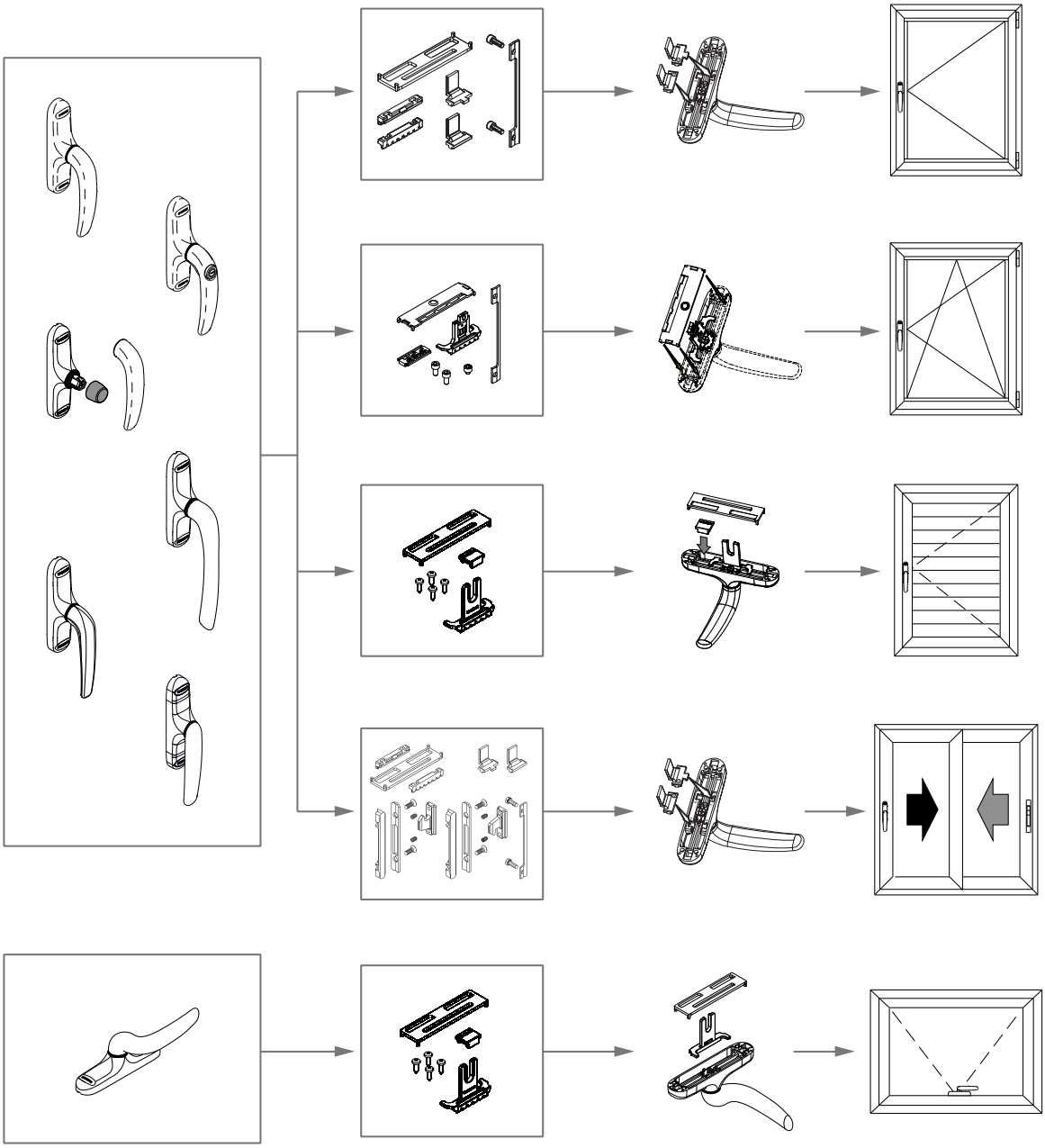
Functions

Complete system of mechanisms for operating inward and outward opening casement windows, shutters, tilt-and-turn, sliding and top-hung windows.

Technical Features

The system features a mechanism supplied without internal components.
Based on the requirements, using the completion kit, it becomes a one-way or two-way Cremone.
The kit, in its turn, can be completed with locking elements.





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UNICA SYSTEM CREMONE

Functions

Cremone with no internal components.
Depending on need, it can be transformed into a Cremone for inward opening, outward opening casement or tilt-and-turn by using the specific kits (also supplied complete with the lock points).

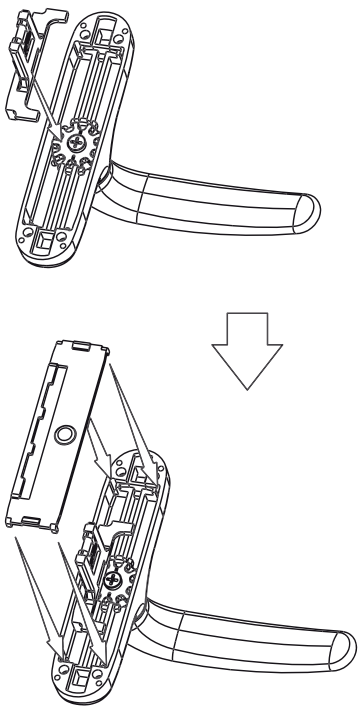
Technical Features

The UNICA cremone mechanism is available in different versions and is supplied without the internal parts. The procedure for mounting them, contained in the customization kit, is for the window maker, but is quick and straightforward.
All Unica cremones have a fixing C/C distance of 104 mm.

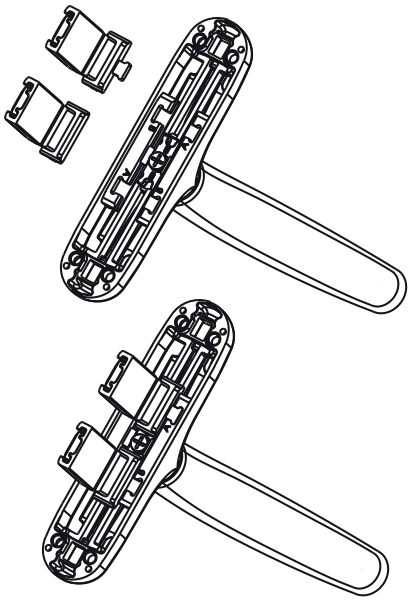
Materials

Handle in die-cast aluminium
Cases and gear in die-cast zamak
Steel spring
Zinc plated steel screw
Shim in Hostaform

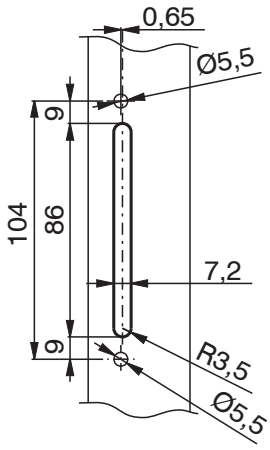
Example of mounting the tilt-and-turn window Cremone (01150N+04071N)



Example of mounting the Apex Cremone (01150N+02259)

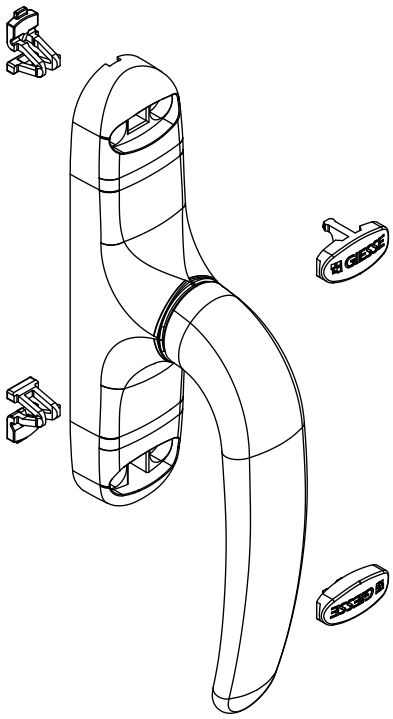


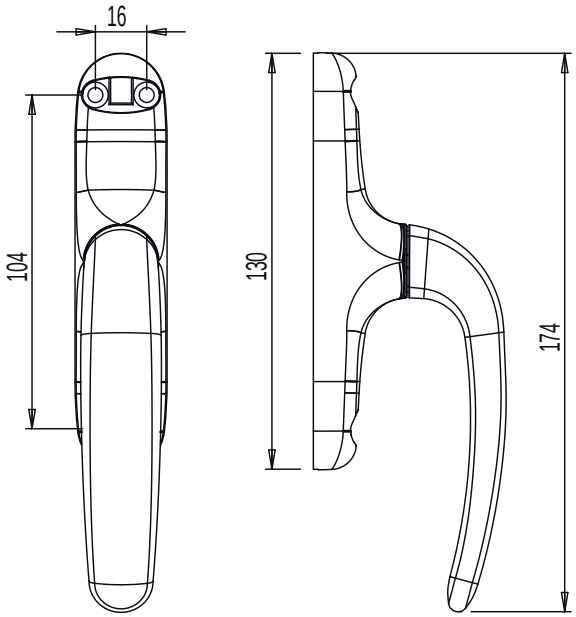
C/C distance machining 104 mm

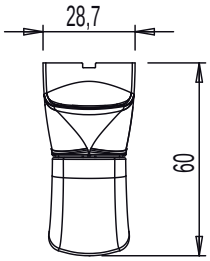


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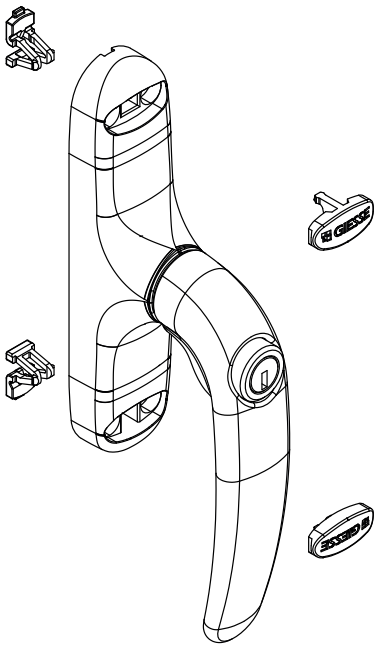
011500001

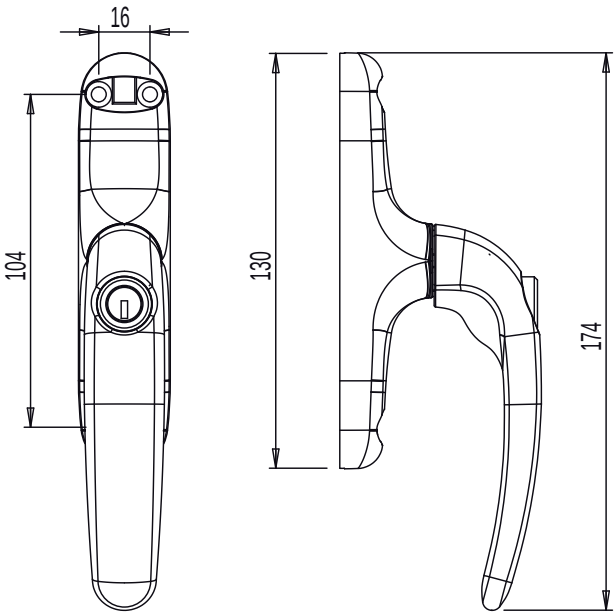


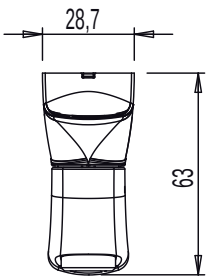




01151001

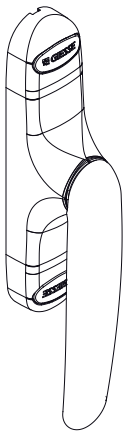


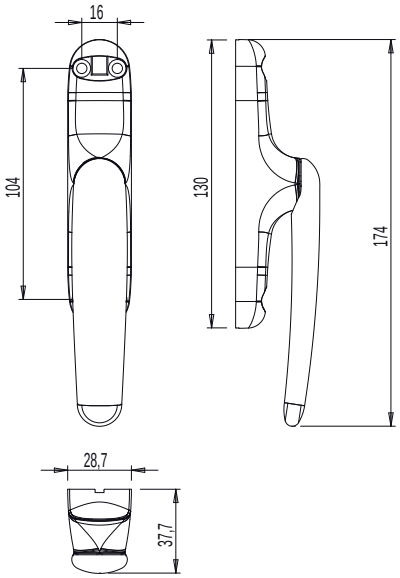




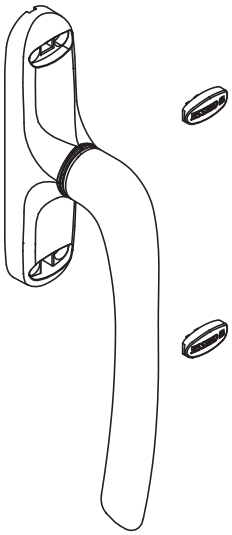
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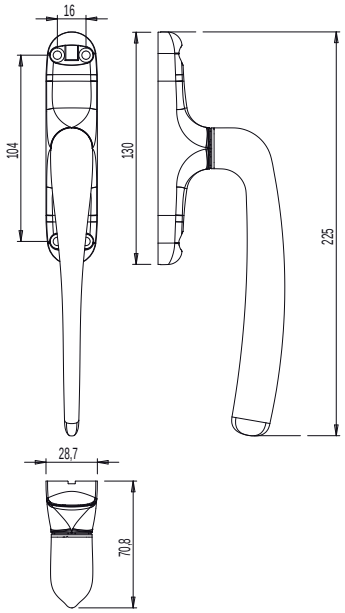
01230



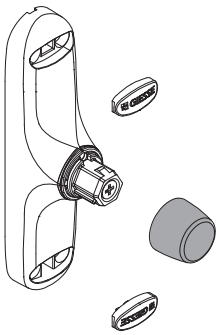


01125

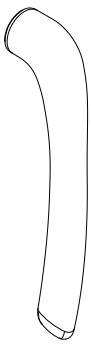


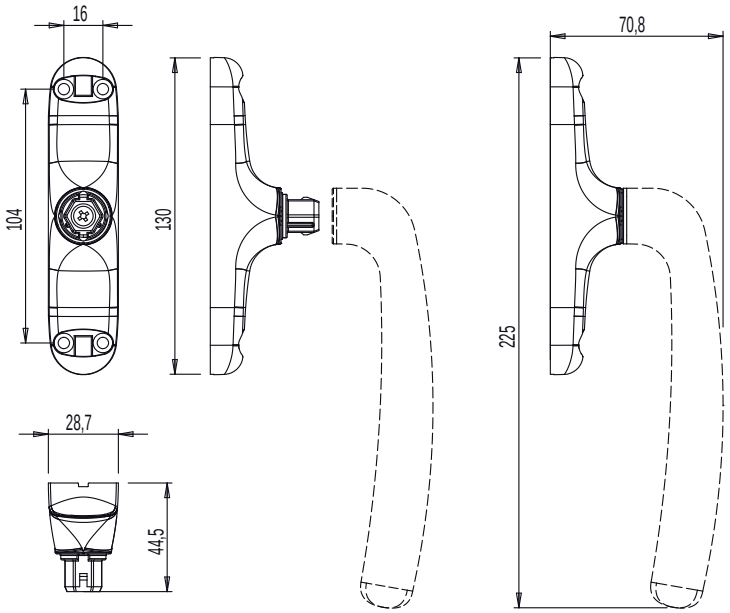


01126



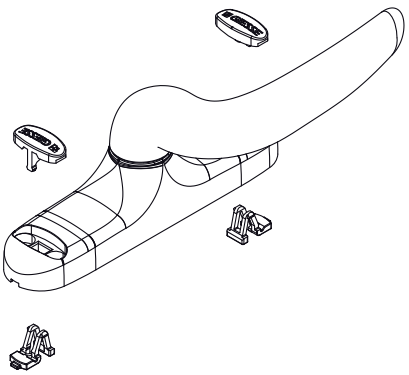
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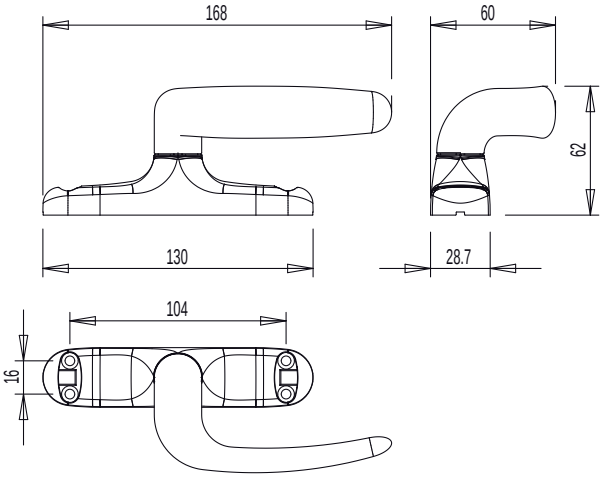




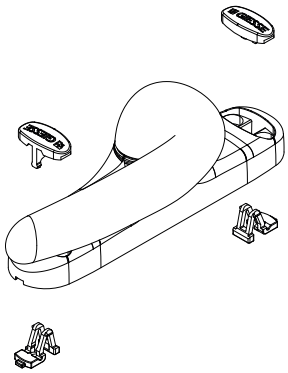
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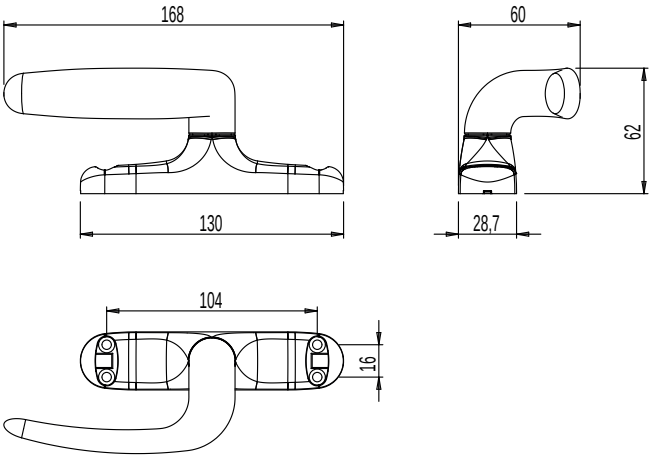
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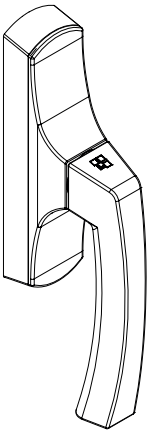


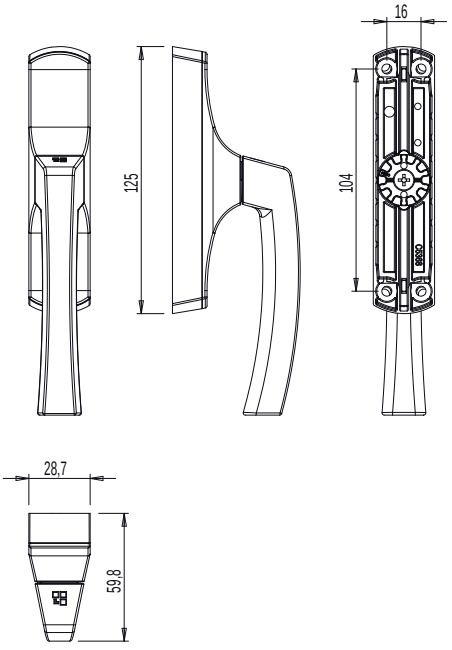
011692





01063





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Item code	Description	PROFILE CROSS - SECTION	Hand	C/C distances	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01063	ASIA OUTWARD 0-180° CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010		104 mm	X		X		10
01125001	UNICA SYS. CREMONE PULL HANDLE L=172	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017		104 mm			X		10
01126	UNICA AWAY CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017		104 mm			X		10
01129	PULL HANDLE FOR UNICA - AWAY	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017		-			X		10
01150001	UNICA SYSTEM CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010		104 mm	X		X	X	10
01151001	UNICA KEY CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010		104 mm	X		X	X	10
011691	UNICA OFFSET HANDLE CW2 CREMONE	-	Right	104 mm	X		X		5
011692	UNICA OFFSET HANDLE CW2 CREMONE	-	Left	104 mm	X		X		5
01230	UNICA CREMONE LOWERED HANDLE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010		104 mm	X		X	X	5

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UNICA SYSTEM CREMONE KIT

Functions

Components that, added to the Unica Cremone without internal components, enable converting them into the finished product.

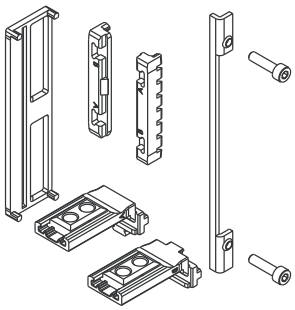
Technical Features

Completion kit that, in combination with the Unica mechanism, enables creating a finished cremone (sash, tilt-and-turn window, etc.). Composed of the internal components and any fixing components (screws and plate), it must be suitably mounted by the window maker.
After the assembly phase the cremone is ready to be installed.
The method of assembly of the kit is adequately explained in the fitting instructions.

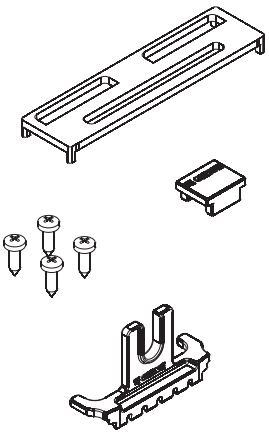
Materials

Black polyamide plate (zinc plated steel for tilt-and-turn window version)
Sliders and Racks in zinc plated die-cast zamak
Stainless steel screws and fixing plate

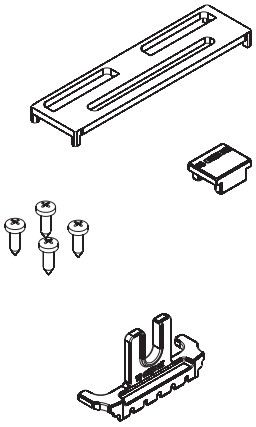
Art. 02259



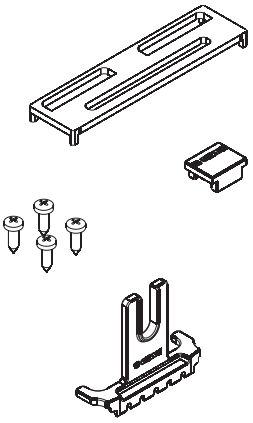
Art. 02403



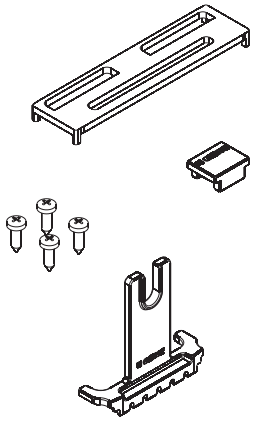
Art. 02407



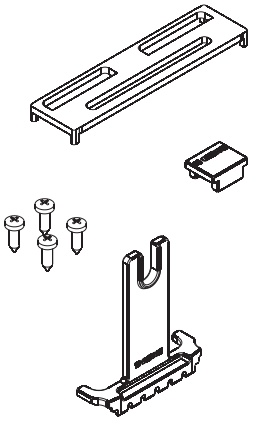
Art. 02408



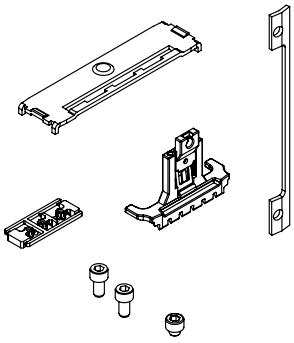
Art. 02409



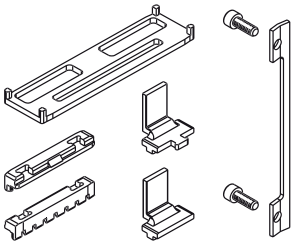
Art. 02410



Art. 04071N



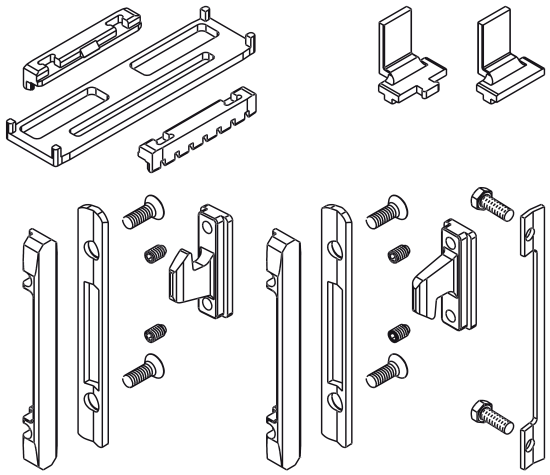
Art. 04080



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Item code	Description	PROFILE CROSS - SECTION	Type	Can be combined with	Operation	Pull handle 0°	Pull handle 90°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02259	APEX KIT FOR UNICA CREMONE	-	Outward Opening	01063 - 01125 - 01126 - 01150N - 01151N	Two-way	closed	open		X				20
02407	KIT FOR OUT. OPENING UNICA SYSTEM SLIDER 20	-	Outward Opening	01063 - 01125 - 01126 - 01150N - 01151N - 011691 - 011692	One-way	closed	open		X				50
02408	KIT FOR OUT. OPENING UNICA SYSTEM SLIDER 35	-	Outward Opening	01063 - 01125 - 01126 - 01150N - 01151N - 011691 - 011692	One-way	closed	open		X				50
02409	KIT FOR OUT. OPENING UNICA SYSTEM SLIDER 45	-	Outward Opening	01063 - 01125 - 01126 - 01150N - 01151N - 011691 - 011692	One-way	closed	open		X				50
02410	KIT FOR OUT. OPENING UNICA SYSTEM SLIDER 55	-	Outward Opening	01063 - 01125 - 01126 - 01150N - 01151N - 011691 - 011692	One-way	closed	open		X				50
04071N	UNICA SYSTEM TILT-AND-TURN WINDOW KIT	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	Tilt-and-turn window	01063 - 01125 - 01126 - 01150N - 01151N	One-way	closed	open	bottom-hung windows	X				50
04080	KIT FOR IN. OPENING UNICA SYSTEM	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	Sash	01063 - 01125 - 01126 - 01150N - 01151N	Two-way	closed	open		X				50

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UNICA SYSTEM SLIDING KIT

Functions

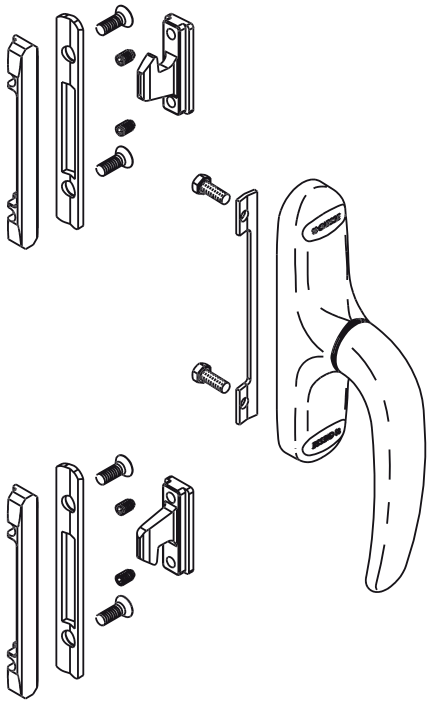
Kit to be combined with the UNICA and UNICA KEY cremones, composed of all the elements necessary to make the fastening mechanism of a sliding door or window.

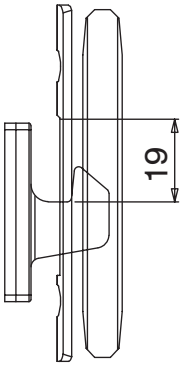
Technical Features

Using this kit allows you to convert the UNICA mechanism into a cremone for sliders.
Composed of the elements inside the Cremone (rack, sliders and plate) to be assembled easily by hand, all completed by the elements (2 nibs, 2 counterplates and 2 shutters) needed to close the sash.

Materials

Polyamide plate
Sliders, racks, nibs and shutters in zinc plated zamak





Item code	Description	Type	Can be combined with	Operation	Pull handle 0°	Pull handle 90°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03056	UNICA SYSTEM SLIDER KIT	Slider	01063 - 01150N - 01151N - 01126	Two-way	closed	open	X				25

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UNICA SYSTEM OUTWARD OPENING KIT

Functions

Kit to be combined with the UNICA and UNICA KEY cremones, composed of all the elements necessary to make the fastening mechanism of an outward-opening casement.

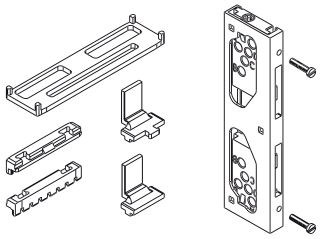
Technical Features

Using this kit allows you to convert the UNICA cremone mechanism into a cremone for outward opening casements. Composed of the elements inside the Cremone (rack, sliders and plate) to be assembled easily by hand, all completed by the Outward Opening mechanism and in some cases by the fastening mechanisms (strikers and terminals).

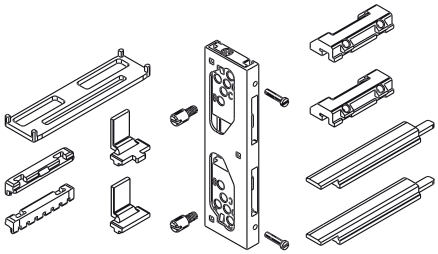
Materials

Black polyamide plate
Sliders and racks in zinc plated zamak
Zinc plated steel screws
Mechanism in extruded aluminium
Connecting block in black polyamide

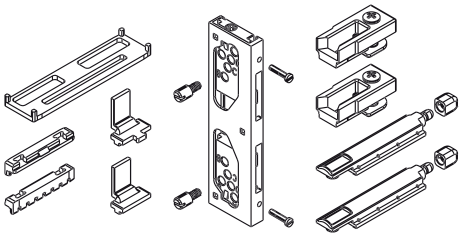
Art. 02237



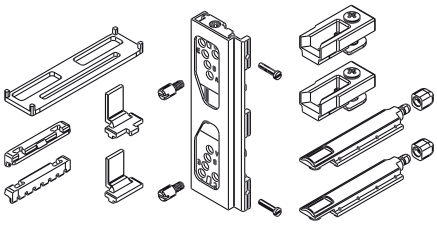
Art. 02238



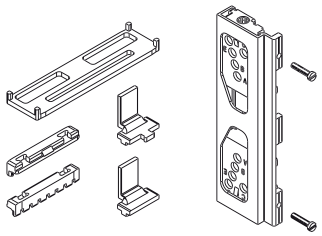
Art. 02240



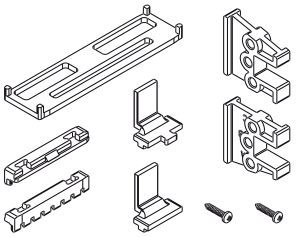
Art. 02241



Art. 02243

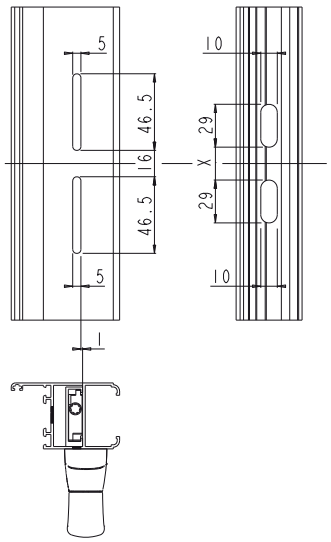


Art. 02244

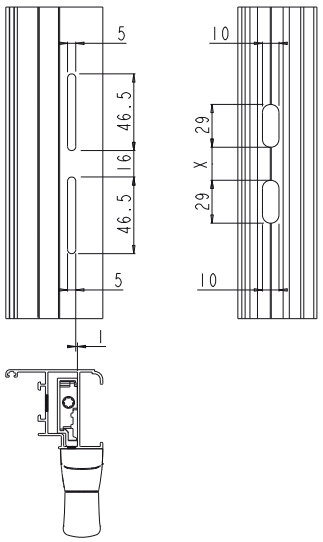


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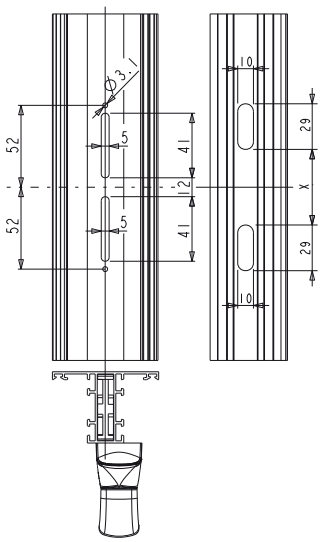
Machining type 1



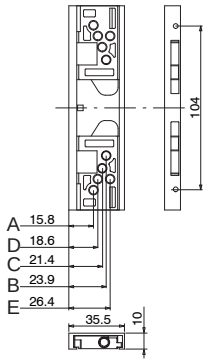
Machining type 2



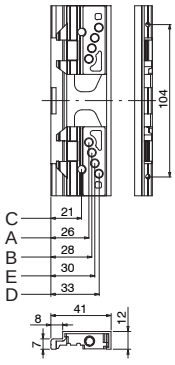
Machining type 3



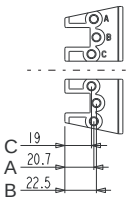
Type 1



Type 2



Type 3



Item code	Description	Type	Can be combined with	Machinings	Operation	Pull handle 0°	Pull handle 90°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02237	KIT FOR OUTWARD OPENING UNICA SYSTEM	Outward Opening	01063 - 01150N - 01151N - 01126	1	Two-way	closed	open	X				50
02240	KIT FOR OUTWARD OPENING UNICA SYSTEM	Outward Opening	01063 - 01150N - 01151N - 01126	1	Two-way	closed	open	X				50
02241	KIT FOR OUTWARD OPENING UNICA SYSTEM	Outward Opening	01063 - 01150N - 01151N - 01126	2	Two-way	closed	open	X				50
02243	KIT FOR OUTWARD OPENING UNICA SYSTEM	Outward Opening	01063 - 01150N - 01151N - 01126	2	Two-way	closed	open	X				50
02245	KIT FOR OUTWARD OPENING UNICA SYSTEM	Outward Opening	01063 - 01150N - 01151N - 01126		Two-way	closed	open	X				20
02246	KIT FOR OUTWARD OPENING UNICA SYSTEM	Outward Opening	01063 - 01150N - 01151N - 01126		Two-way	closed	open	X				20

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UNICA SYSTEM INWARD OPENING KIT

Functions

Kit to be combined with the UNICA and UNICA KEY cremones, composed of all the elements necessary to make the fastening mechanism of an inward-opening casement.

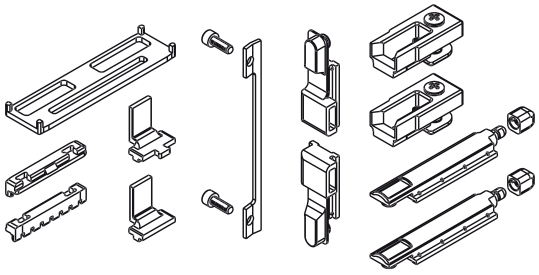
Technical Features

Using this kit allows you to convert the UNICA mechanism into a cremone for inward opening.
All this is complemented by the elements (2 blocks, 2 terminals and 2 strikers) needed to make the sash fastening mechanism.

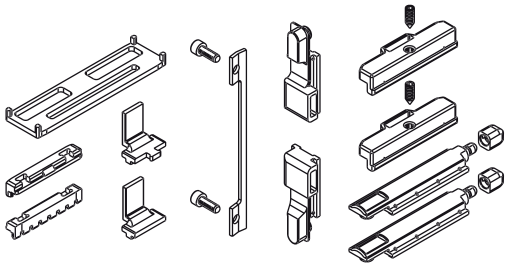
Materials

Plate, blocks, terminals and strikers in black polyamide
Sliders and racks in zinc plated zamak
Stainless steel screws

Art. 04070



Art. 0407601



Item code	Description	PROFILE CROSS - SECTION	Type	Can be combined with	Operation	Pull handle 0°	Pull handle 90°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04070	KIT FOR INWARD OPENING UNICA SYSTEM	C001-C012-C013-C015-C016	Sash	01063 - 01150N - 01151N - 01126	Two-way	closed	open	X				50
0407601	KIT FOR IN. OPENING UNICA SYSTEM	C009	Sash	01063 - 01150N - 01151N - 01126	Two-way	closed	open	X				50

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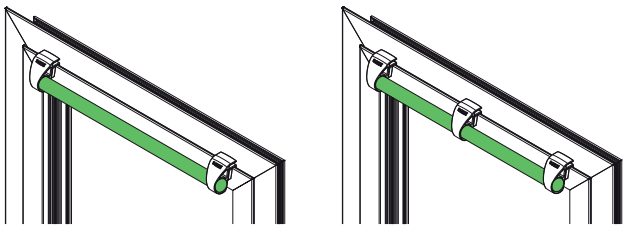
TWIN CATCH

Functions
Device for closing bottom-hung windows for front mounting, it requires no machining on the profile.

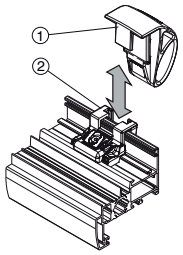
Technical Features
Quick fixing on the sash channel by means of contrast grubscrews.
The TWIN catch is compression adjustable on the seals.
A lever control is available for use in conjunction with the corresponding supports. The lever actuates the opening of the catch but it is not snap fitting on the base. This enables using it as if it were an away lever: to open the bottom-hung window you will need to insert the lever into place.
Once opened the lever can be extracted from the base.
The use of closing plugs, on bottom-hung windows with a number of TWIN catches connected together by a GIESSE antipanic bar, enables closing and simultaneously fixing the bar to the catches.

Materials
Coupling tooth and bottom recess in polyamide
Support for tooth and catch body in zamak
ABS/polycarbonate catch mechanism
Stainless steel screws, grub screws and spring
Polyamide caps

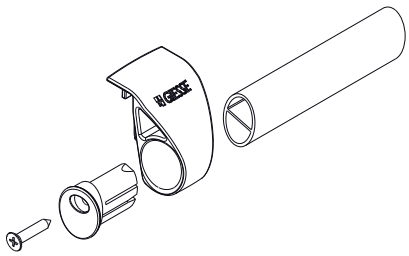
Bar application

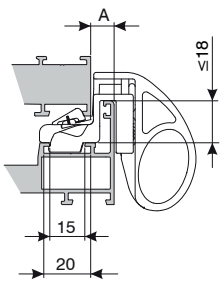


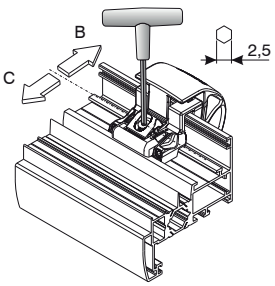
Lever Away (1) and support (2)



Bar-closing cap application







Item code	Description	PROFILE CROSS - SECTION	A (mm)	B (mm)	C (mm)	Length (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01704	TWIN CATCH	C001-C002-C003-C004-C005-C006-C012	7 ÷ 10 mm	+ 2.1 mm	+ 1.4 mm	-	X		X	X	40
0170601	TWIN CATCH	C007-C008	8 mm	+ 1.4 mm	+ 1.4 mm	-	X		X	X	40
0171601	TWIN SUPPORT	C007-C008	8 mm	+ 1.4 mm	+ 1.4 mm	-	X				40
02317	TWIN BAR CLOSING PLUG	C001-C002-C003-C004-C005-C006-C007-C008-C012	-	-	-	-			X		10
07843	HANDLE BAR	-	-	-	-	950			X		1
07844	HANDLE BAR	-	-	-	-	1150			X		1
07845	HANDLE BAR	-	-	-	-	1450			X		1

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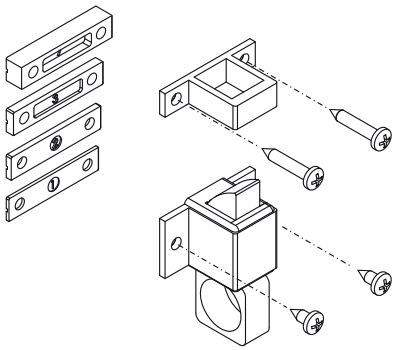


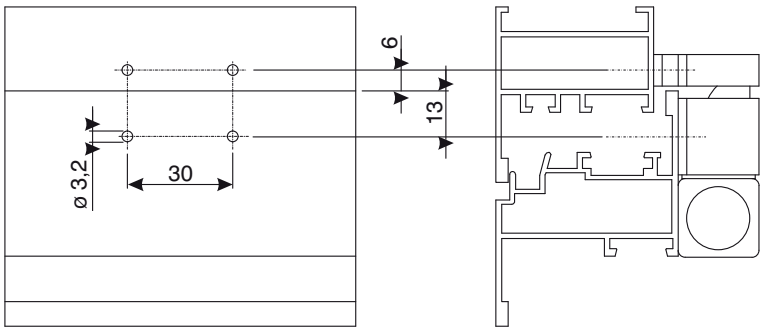
GRISBI CATCH

Functions
Fastening mechanism of bottom-hung windows for external application, made of extruded aluminium with internal guide of polyamide

Technical Features
Fast mounting, it can be applied on all types of profile using the 4 polyamide shims alternately or in combination.
The combinations of the shims require using the catch in steps of (mm):
3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 -12 - 13
Note: For very thin thickness, it is recommended to decrease the diameter of the hole that receives the self-tapping screw.

Materials
Body, ring and counterplate in extruded aluminium
Shims and internal guide in polyamide
Zinc-nickel plated steel screws





Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01701N	GRISBI CATCH	C001-C002-C003-C004-C005-C006-C007-C008-C009-C012	X	X	X		50

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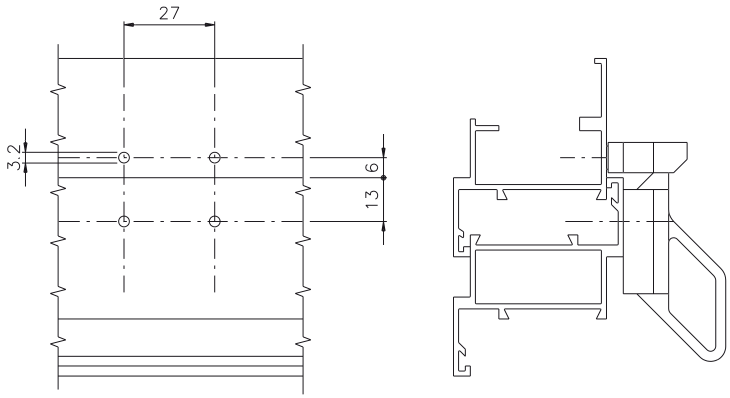
RIVO CATCH

Functions
Fastening mechanism of windows for external application, completely made of polyamide reinforced with fibreglass.

Technical Features
Fast assembly, it can be applied on all types of profile using the 3 polyamide shims alternately or in combination.
The combinations of the shims require using the catch in steps of 4.5 - 5.5 - 7 mm.

Materials
Body, drawer, counterplate and shims in polyamide
Zinc-nickel plated steel screws

Parts
4 Self-tapping screws 3.9x16
3 Polyamide shims



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01711	RIVO CATCH		X				50

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BRAVO FLAT HANDLE - EURO LINE

Functions

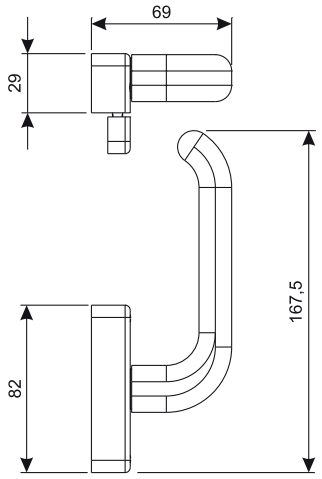
Reversible lever handle for outdoor application for top-hung windows and pivoting windows. The BRAVO flat handle provides continuity for the EURO line also for top-hung and pivoting windows.

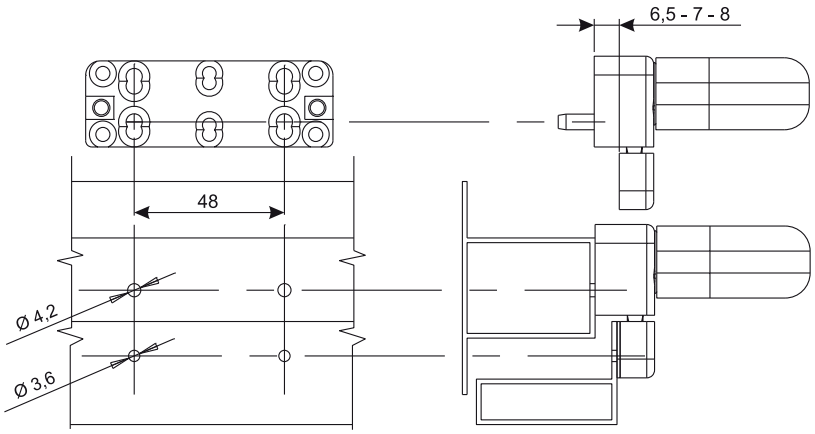
Technical Features

Specific for step 6.5-7-8 mm.
Side reversal possible by reversing the handle and the limit stop inside the case.
Reduced machining on the profiles.

Materials

Handle and case in painted die-cast aluminium
Die-cast zamak plate
Nib in white die-cast zinc plated Zamak
Zamak keeper plate
Black polyamide shims, bush and stop
Zinc plated steel plate and keeper plate fixing screws
Stainless steel case fixing screws





Item code	Description	Profile	Step (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01650N	BRAVO FLAT HANDLE-EURO LINE	Overlap	6,5 - 7 - 8	X		X		20
01652N	BRAVO FLAT HANDLE-EURO LINE	Flush		X		X		20

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BRAVO FLAT HANDLE - PRIMA LINE

Functions

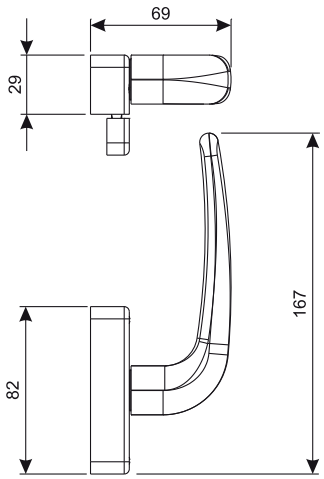
Reversible lever handle for outdoor application for top-hung windows and pivoting windows. The BRAVO flat handle provides continuity for the PRIMA line also for top-hung and pivoting windows.

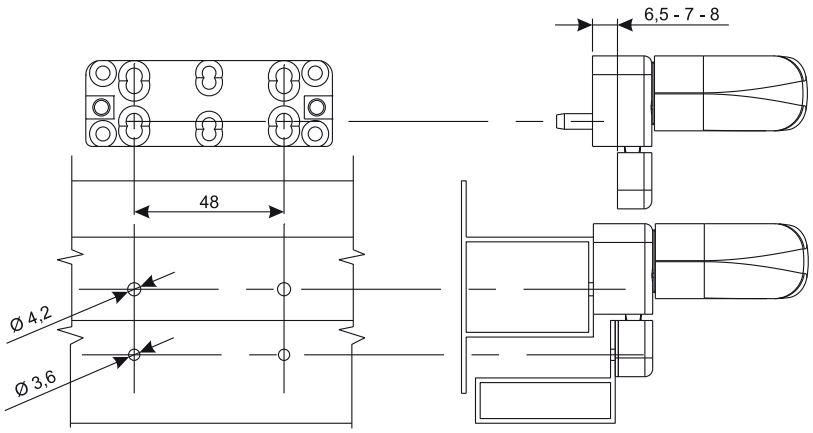
Technical Features

Specific for step 6.5-7-8 mm.
Side reversal possible by reversing the handle and the limit stop inside the case.
Reduced machining on the profiles.

Materials

Handle and case in painted die-cast aluminium
Die-cast zamak plate
Nib in white die-cast zinc plated Zamak
Zamak keeper plate
Black polyamide shims, bush and stop
Zinc plated steel plate and keeper plate fixing screws
Stainless steel case fixing screws





Item code	Description	Profile	Step (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01640N	BRAVO FLAT HANDLE-PRIMA LINE	Overlap	6,5 - 7 - 8	X		X		20
01641N	BRAVO FLAT HANDLE-PRIMA LINE	Overlap	4 - 5	X		X		20
01642N	BRAVO FLAT HANDLE-PRIMA LINE	Flush		X		X		20

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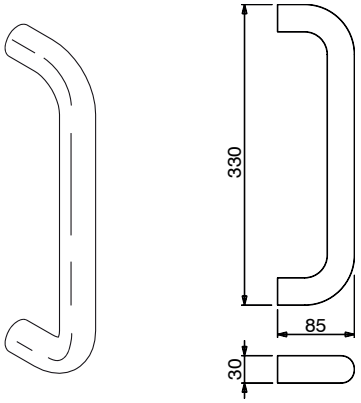
BRASS HANDLES

Functions
Straight tubular brass handle to be applied on aluminium doors.

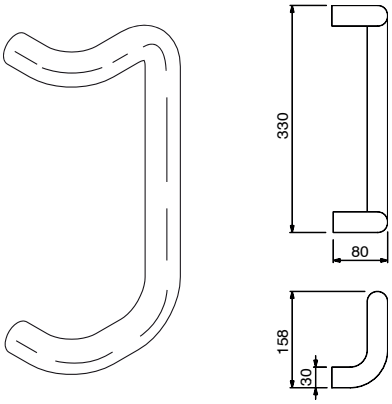
Technical Features
Thick brass tubular handle with a thick transparent electrostatic coating, fired at 150°.
The handle is fixed with the special connections art. 02668 – 02669 –02670 depending on the machining on the door or the number of handles to be fitted (single or pair).
Fixing to the connections is done with pins for external applications or grub screws for internal applications.
The handle can be mounted subsequently on site simply by inserting two pins, thus avoiding any damage during transportation or when installing the door.
Supplied with the handle there are two fixing grub screws.

Materials
Brass handle
Zinc plated steel grub screws

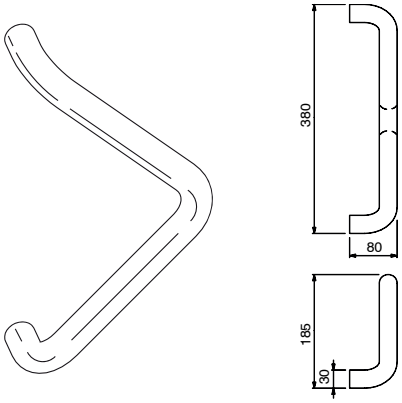
Straight brass handle

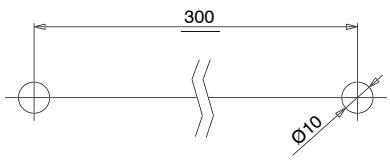


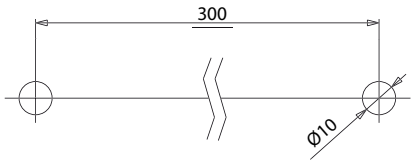
Double curved brass handle

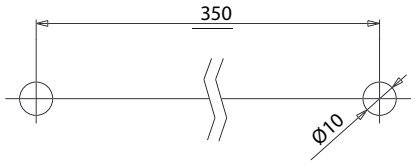


Brass elbow handle









Item code	Description	C/C distance for drilling [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02609	BIKE STRAIGHT brass HANDLE	300			X	X	2
02610	BIKE DOUBLE CURVED brass HANDLE	300			X	X	2
02611	BIKE brass ELBOW HANDLE	350			X	X	2

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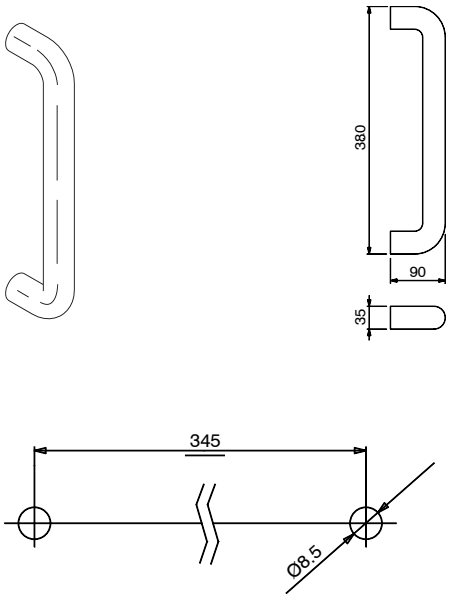
NYLON HANDLES

Functions
Tubular polyamide handle to be applied on aluminium doors.

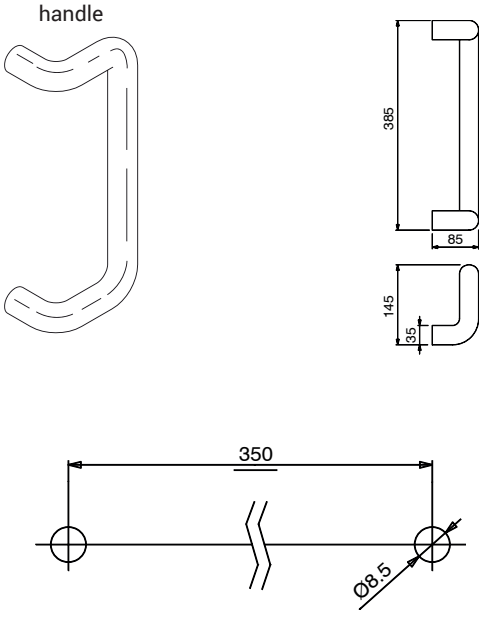
Technical Features
Tubular handle made of high density polyamide of coloured granules in a mix that provide unlimited durability over time. Available in straight and double curved versions.
The BIKE handle has a high resistance to abrasion and wear, it is unalterable under temperature changes and is weather resistant.
The handle is fixed with the special connections art. 02668 – 02669 –02670 depending on the machining on the door or the number of handles to be fitted (single or pair). The fitting instructions can be used as a template for doing the machining.
Fixing to the connections is done with pins for external applications or grub screws for internal applications.
The handle can be mounted subsequently on site simply by inserting two pins, thus avoiding any damage during transportation or when installing the door.
The handle is supplied with 5 mm shims for mounting to profiles with a step.

Materials
Polyamide handle
Washers and shims in polyamide

Straight polyamide handle



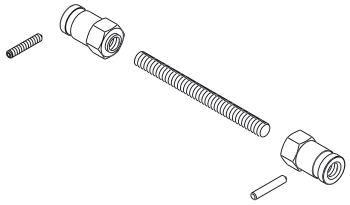
Double curved polyamide handle



Item code	Description	C/C distance for drilling [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02603	BIKE STRAIGHT polyamide HANDLE	345	X				2
02604	BIKE DOUBLE CURVED polyamide HANDLE	350	X				2

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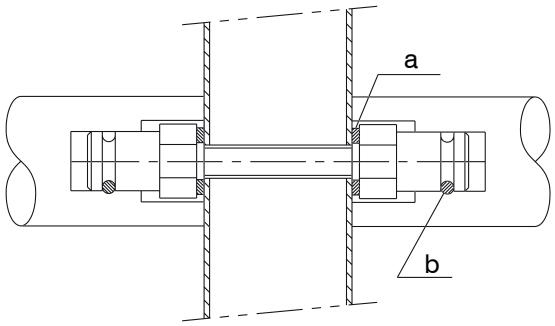
DOUBLE ALUMINIUM FIXING KIT



Kit of parts for fixing a pair of BIKE handles on an aluminium door.

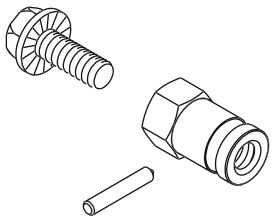
Technical features
The kit is fixed via 2 simple 8.5 mm through-holes at a distance equivalent to the C/C distance of the chosen handle.
From inside the BIKE handle is fixed to the connection with the grub screw.
This makes it possible to disassemble the handle for maintenance purposes.
The fixing kit enables mounting either polyamide or brass BIKE handles.

a) polyamide washer
b) pin or grub screw



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02668	DOUBLE ALUMINIUM FIXING KIT	EVODESIGN	X				10

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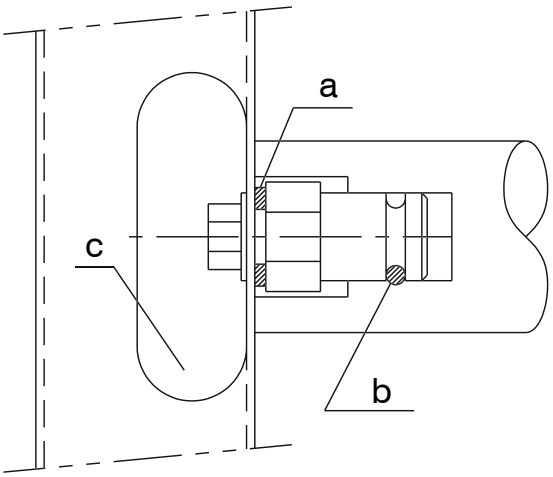
SINGLE ALUMINIUM FIXING KIT

Kit of parts for fixing a BIKE handle on an aluminium door

Technical features

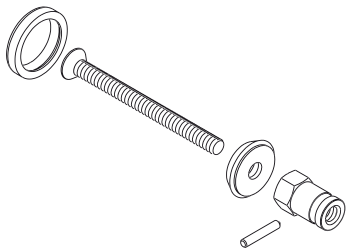
The kit is moreover fixed to the 8.5 mm holes on one side only by means of two side machinings on the profile, then covered by the glass and glazing bead, to allow access for the screws and the fixing wrench.
The fixing kit enables mounting either polyamide or brass BIKE handles.

a) polyamide washer
b) pin or grub screw
c) side machining



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02669	SINGLE ALUMINIUM FIXING KIT	EVODESIGN	X				10

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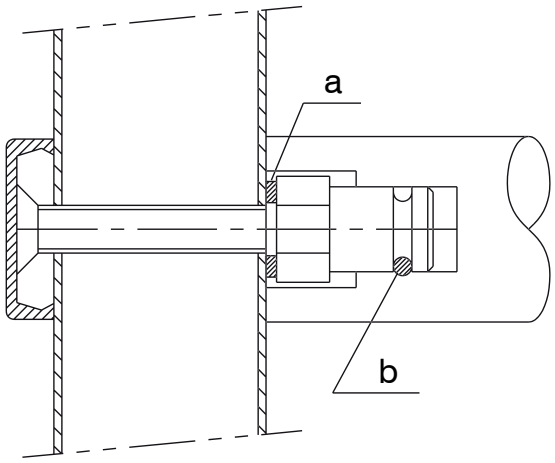


SINGLE ALUMINIUM FIXING KIT

Kit of parts for fixing a BIKE handle on an aluminium door.

Technical features
The kit is fixed via two simple 8.5 mm through-holes at a distance equivalent to the C/C distance of the chosen handle.
The fixing kit enables mounting either polyamide or brass BIKE handles.

a) polyamide washer
b) pin or grub screw



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02670	SINGLE ALUMINIUM FIXING KIT	EVODESIGN	X				10

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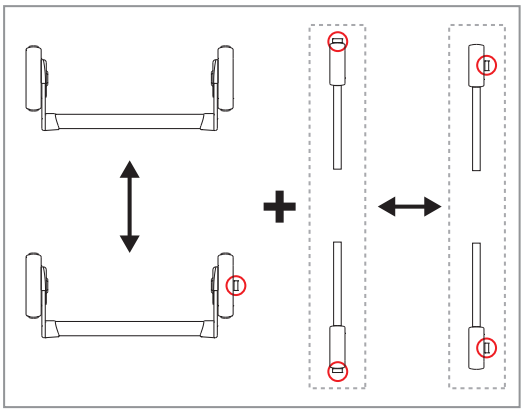


PANIC EXIT DEVICE AP001

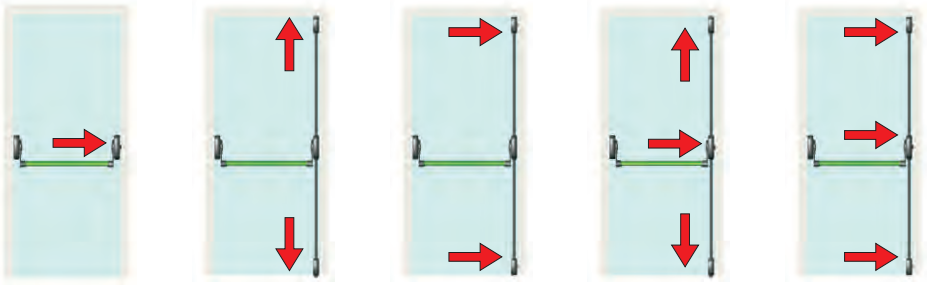
Functions
PUSH-BAR type of panic exit device for surface mounting.

Technical Features
The AP001 system is available in 3 versions:
• LATERAL (1 LOCKING POINT)
• TOP/BOTTOM
• MODULAR (3 LOCKING POINTS)
AP001 is to be coupled with the oval push-bar, sold separately, available in three different widths and additional locking mechanisms (top/bottom and lateral version).
The handle is easily reversible: rotation of the bracket allows its application on right-hand and left-hand doors, without any additional operation.
The product is supplied with the fitting instructions, containing paper templates for machining the profile and the product maintenance manual.
AP001 is ideal for use on fire doors when paired with accessories that are specific for this use

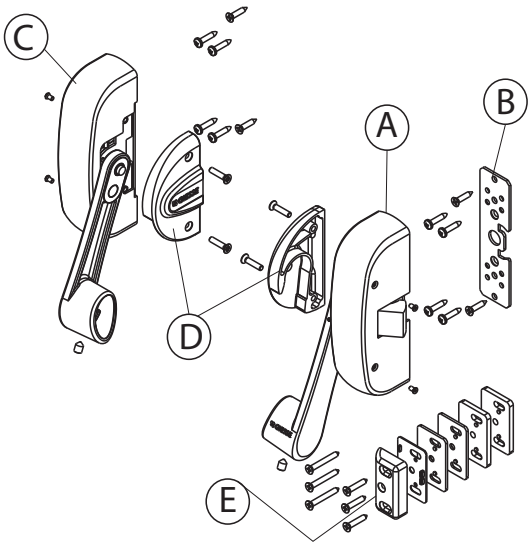
Certifications
The AP001 system is certified to UNI EN 1125:2008 standards and approved for CE marking, with the highest performance levels.
The field of application of these panic exit devices, referring to this standard, is the following:
• maximum weight of the door 250 kg
• maximum height of the door 2500 mm
• maximum width of the door 1300 mm
• temperature limits -10°C/+60°C



Configurations



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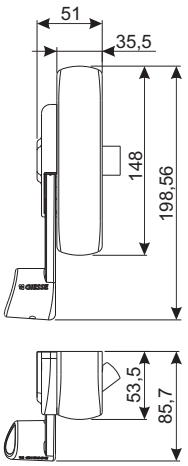


AP001 LATERAL

The lateral version AP001 system consists of:
• The main reversible mechanism (A) with a lateral spring latch and the mechanism protection plug
• the shimming plate (B) for the main mechanism
• the secondary reversible mechanism (C) and its mechanism protection plug
• the left and right bracket stop blocks (D)
• the adjustable lateral striker (E) to be installed by the lateral spring latch of the main mechanism and its stackable shims, to be placed under the striker for profiles with different steps (no. 1 shim size 1 mm, no. 2 shims size 2 mm and no. 2 shims size 4 mm)
The version suited for use on fire doors AP001F has a steel lateral striker (F) (instead of zamak as on the standard version) and a set of overlapping shims for use on profiles with different steps.
The lateral AP001 system is to be combined with the additional locking mechanisms.

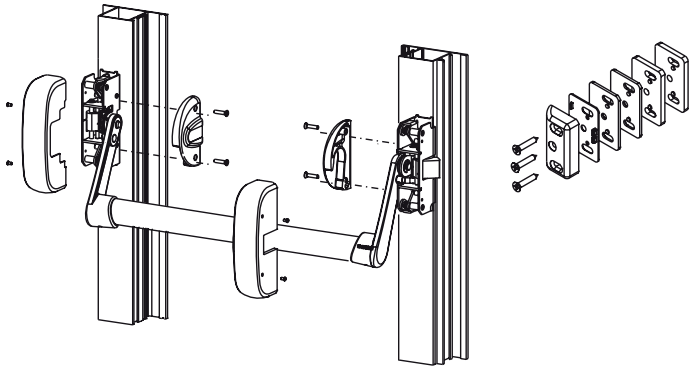
Materials

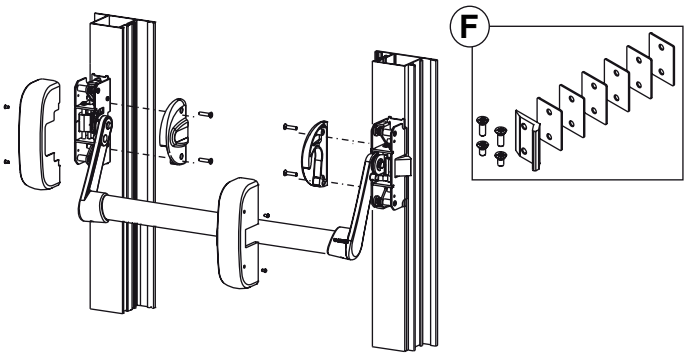
Mechanisms in zinc plated steel
Painted steel mechanism protection plug
Brackets and bracket stop blocks in zamak
Striker in zamak and polyamide shims for AP001 version
Striker and shims in stainless steel for AP001F version
Spring latch in stainless steel
Shimming plate in zinc plated steel
Grub screws and fixing screws in zinc plated steel



Standard version

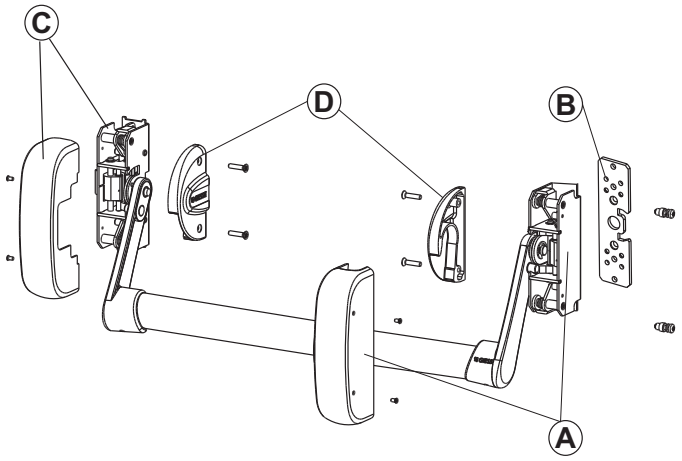
Fire version





Item code	Description	Striker provided	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07310	PANIC EXIT DEVICE AP001 F LATERAL	stainless steel			X		1
07830N	PANIC EXIT DEVICE AP001 LATERAL	zamak			X		1

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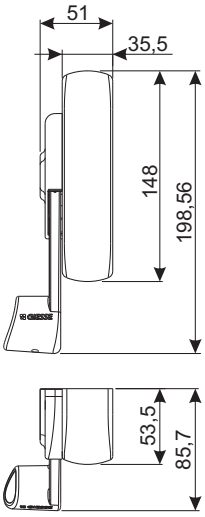
AP001 TOP-BOTTOM

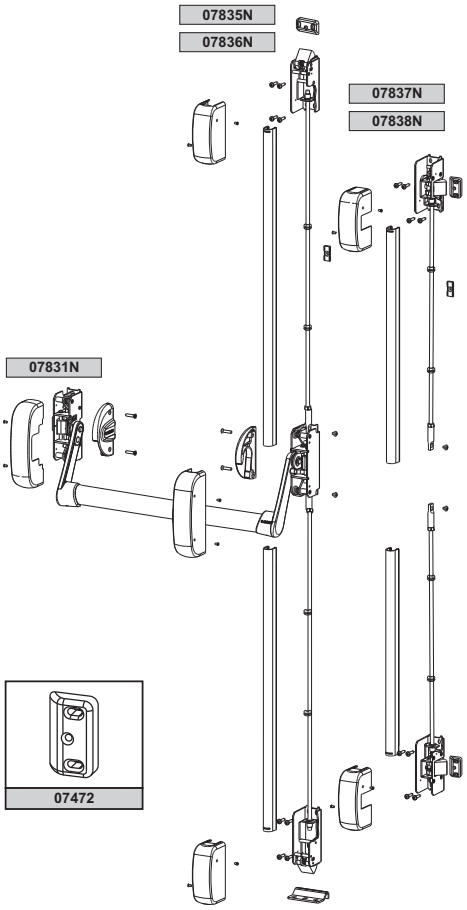
The top-bottom version AP001 system consists of:
• The main reversible mechanism (A) without a lateral spring latch that can be combined with additional locking mechanisms and the mechanism protection plug
• the shimming plate (B) for the main mechanism
• the secondary reversible mechanism (C) and its mechanism protection plug
• the left and right bracket stop blocks (D)
The top-bottom AP001 system is to be combined with the additional locking mechanisms.
AP001 is ideal for use on fire doors when paired with additional locking mechanisms that are specific for this use

Materials

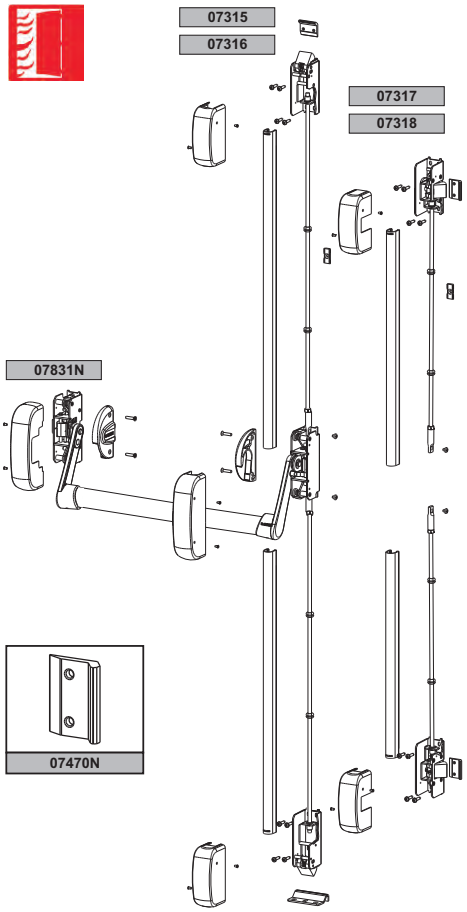
Mechanisms in zinc plated steel
Painted steel mechanism protection plug
Brackets and bracket stop blocks in zamak
Shimming plate in zinc plated steel
Grub screws and fixing screws in zinc plated steel

Standard version



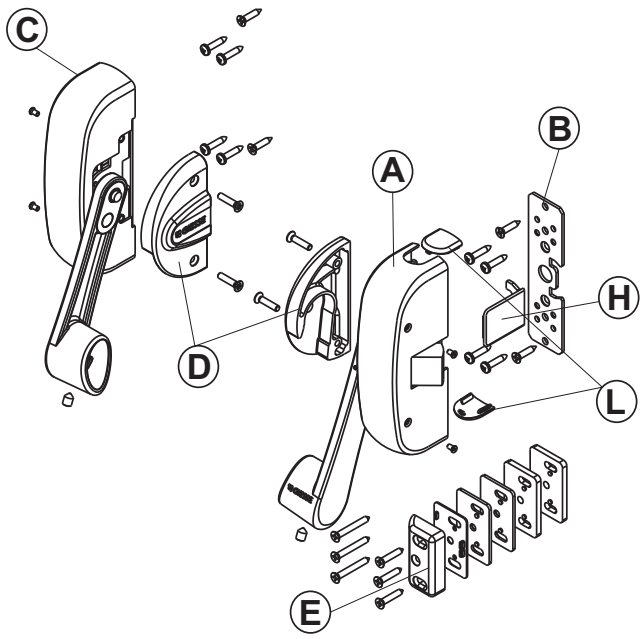


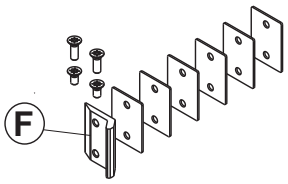
Fire version



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07831N	PANIC EXIT DEVICE AP001 F TOP/ BOTTOM				X		1

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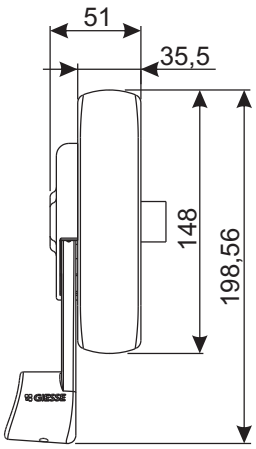


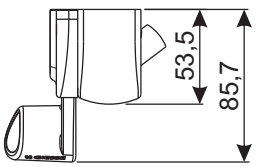
AP001 MODULAR

The modular version GS AP001 system enables, with a single product, both the lateral system configuration with one locking point and the top/bottom configuration with two or three locking points.
The modular AP001 system can be combined with the additional locking mechanisms and is composed of:
• The main reversible modular mechanism (A) with a lateral spring latch (which can be excluded) that can be combined with the additional locking mechanism kit and the mechanism protection plug
• the shimming plate (B) for the main mechanism
• the secondary reversible mechanism (C) and its mechanism protection plug
• the left and right bracket stop blocks (D)
• the adjustable lateral striker (E) to be installed by the lateral spring latch of the main mechanism and its stackable shims, to be placed under the striker for profiles with different steps (no. 1 shim size 1 mm, no. 2 shims size 2 mm and no. 2 shims size 4 mm)
• the disabling plug of the side spring latch (H)
• the caps for closing the slots of the main mechanism (L)
The version suited for use on fire doors AP001F has a steel lateral striker (F) (instead of zamak as on the standard version) and a set of overlapping shims for use on profiles with different steps

Materials

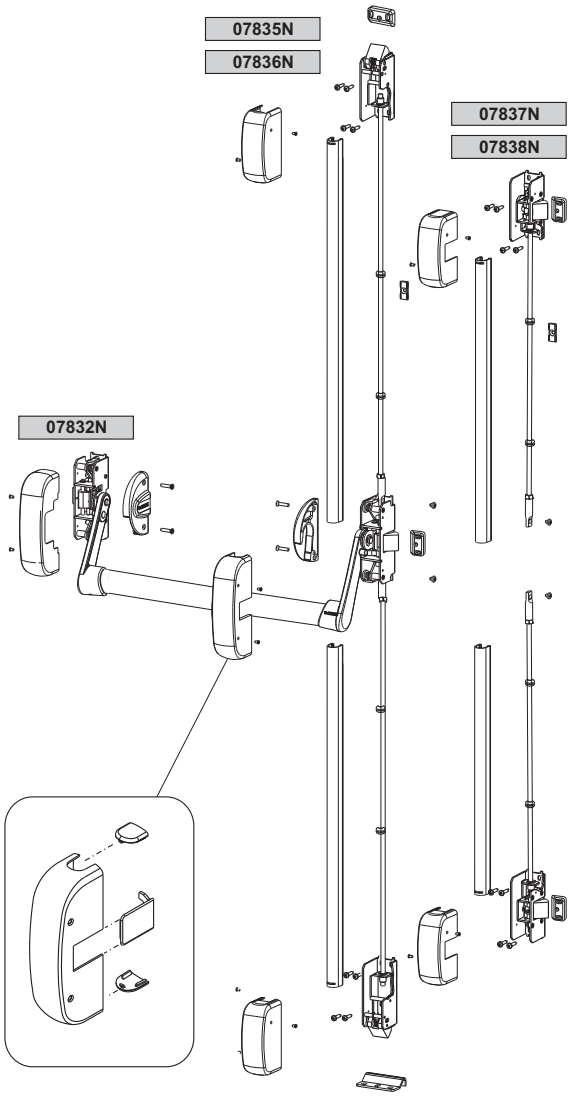
Mechanisms in zinc plated steel
Painted steel mechanism protection plug
Brackets and bracket stop blocks in zamak
Striker in zamak and polyamide shims for AP001 version
Striker and shims in stainless steel for AP001F version
Spring latch in stainless steel
Shimming plate in zinc plated steel
Plug for disabling spring latch and slot plugs in polyamide



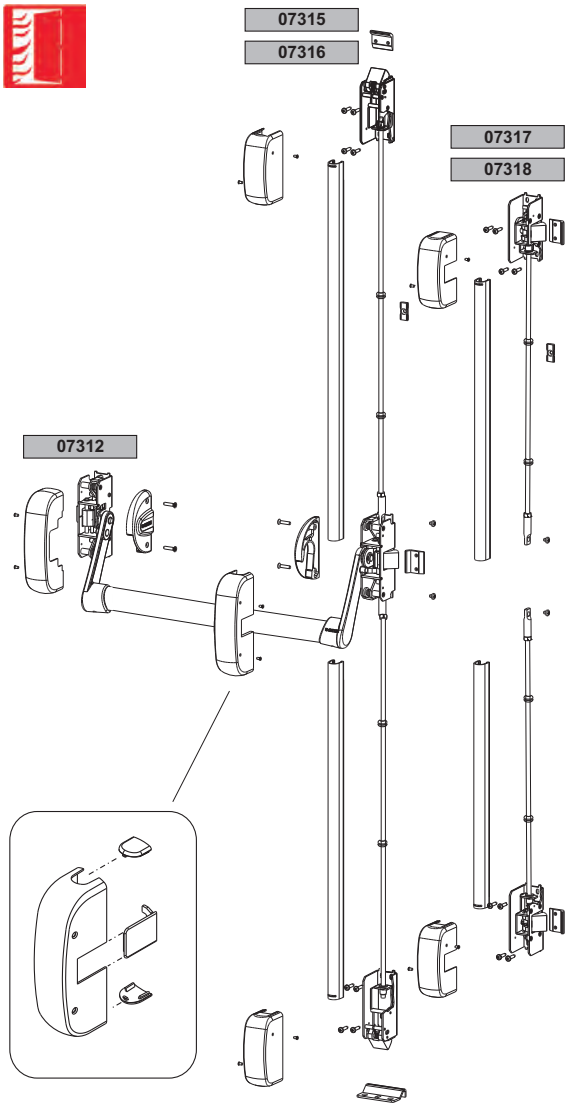


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Standard version



Fire version



Item code	Description	Striker provided	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07312	PANIC EXIT DEVICE AP001 F MODULAR	stainless steel			X		1
07832N	PANIC EXIT DEVICE AP001 MODULAR	zamak			X		1

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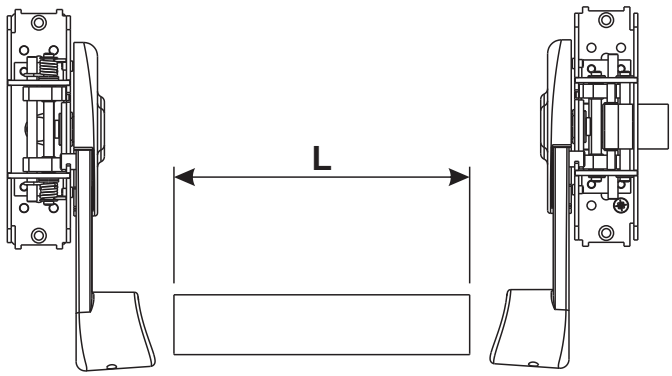


PUSH-BARS AP001

Push-bar for panic exit devices AP001 and AP100
Available in various lengths.
Fixing to the handle brackets by means of grub screws.

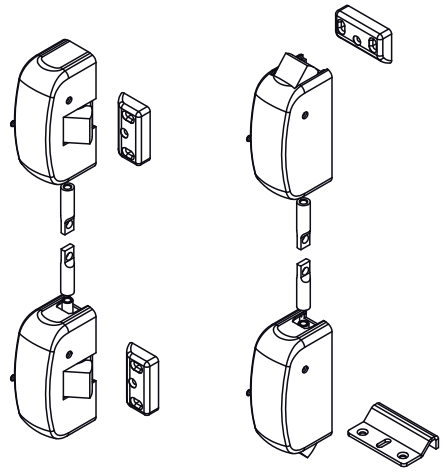
Materials

Painted extruded aluminium bar



Item code	Description	PROFILE CROSS - SECTION	A (mm)	B (mm)	C (mm)	Length (mm)	Base Raw	Special finishes	Pieces per pack
07843	HANDLE BAR	-	-	-	-	950			1
07844	HANDLE BAR	-	-	-	-	1150			1
07845	HANDLE BAR	-	-	-	-	1450			1

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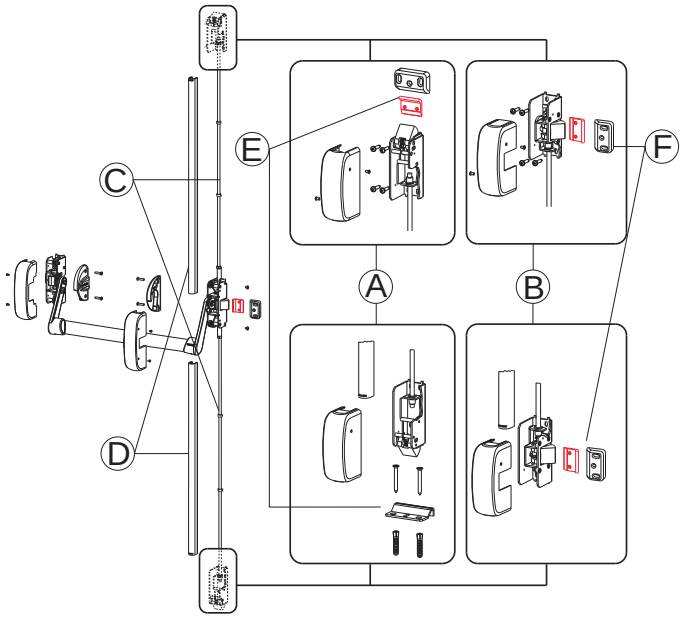


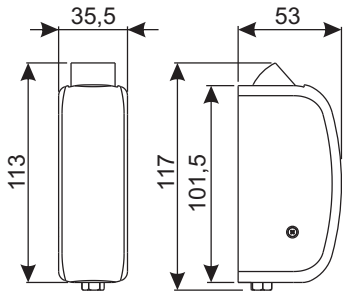
ADDITIONAL LOCKING MECHANISMS AP001

The kit of rods and spring latches for making additional lock points on the door is available in two versions:
• top/bottom for standard doors and fire doors, in a short version and long version. Ideal for one-sash doors that you want to close with greater security than with the lateral system or for the secondary sash of a two-sash door
• side for standard doors and fire doors, in a short version and long version.
Ideal for single leaf doors where you do not include floor striker plates or for tall doors where it is difficult to make the top lock point.
The kits consist of:
• the spring latches for top/bottom (A) or lateral (B) fastening mechanisms
• the threaded rods (C)
• the rod covering (D)
• the floor striker and the upper striker with their shims for the top/bottom version (E)
• the strikers with their shims for the side version (F)
• fixing components (screws, bushings, washers)

Materials

Mechanisms in zinc plated steel
Painted steel mechanism protection plug
Spring latch in stainless steel
Threaded rods in zinc plated steel
Painted steel rod casing
Screws and fixing elements in zinc plated steel
Top/side striker in zamak and polyamide shims

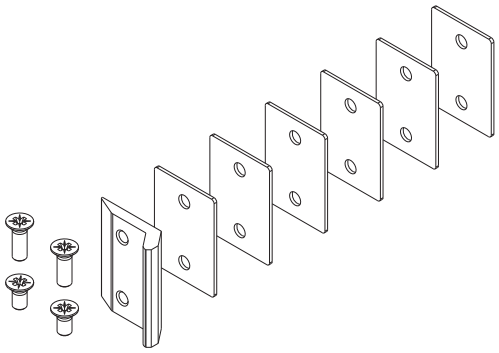




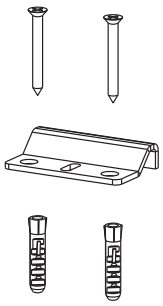
Item code	Description	Locking mechanism type	Version	Sash height [mm]	Strikers provided	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07315	FIRE-RATED ADDITIONAL LOCKING MECHANISMS	TOP/BOTTOM (2 LOCKING POINTS)	SHORT	up to 2640 mm	upper and floor in stainless steel			X		1
07316	FIRE-RATED ADDITIONAL LOCKING MECHANISMS	TOP/BOTTOM (2 LOCKING POINTS)	LONG	from 2641 mm to 3150 mm	upper and floor in stainless steel			X		1
07317	FIRE-RATED ADDITIONAL LOCKING MECHANISMS	LATERAL	SHORT	up to 2640 mm	side elements in stainless steel			X		1
07318	FIRE-RATED ADDITIONAL LOCKING MECHANISMS	LATERAL	LONG	from 2641 mm to 3150 mm	side elements in stainless steel			X		1
07835N	ADDITIONAL FASTENING MECHANISMS	TOP/BOTTOM (2 LOCKING POINTS)	SHORT	up to 2640 mm	upper in zamak and floor in stainless steel			X		1
07836N	ADDITIONAL FASTENING MECHANISMS	TOP/BOTTOM (2 LOCKING POINTS)	LONG	from 2641 mm to 3150 mm	upper in zamak and floor in stainless steel			X		1
07837N	ADDITIONAL FASTENING MECHANISMS	LATERAL	SHORT	up to 2640 mm	side elements in zamak			X		1
07838N	ADDITIONAL FASTENING MECHANISMS	LATERAL	LONG	from 2641 mm to 3150 mm	side elements in zamak			X		1

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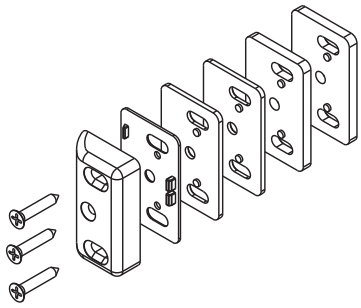
Type 1



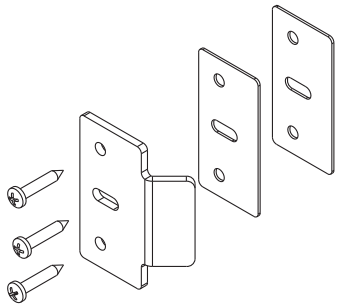
Type 2



Type 3



Type 4



STRIKERS FOR HANDLES AP001

Closing strikers to pair with the panic exit devices AP001 and AP002

Type 1

Lateral striker in stainless steel for panic exit devices in fire-rated version AP001F AP002F.
Ensures operation of the safety device and therefore operation of the door, also in the event of fire.
The striker has no. 6 shims of 1 mm, which can overlap, for adjusting the various series of profiles.
Fixing to the profile with self-tapping screws.

Materials

Striker and shims in stainless steel
Screws for fixing to the profile in stainless steel

Type 2

Floor striker to be placed at the bottom vertical spring latch of the panic exit devices AP001 and AP002.
Supplied with the additional spring latches, it can also be purchased separately.

Materials

Stainless steel striker
Screws for fixing to the profile in stainless steel
Plastic expansion dowels for fixing

Type 3

Adjustable side striker to be placed at the side or vertical spring latches of the panic exit devices AP001 and AP002.
Supplied with the handles and the additional spring latches, it can also be purchased separately.
The striker has no. 5 shims respectively of 1 mm, 2 mm and 4 mm, which can overlap with each other for fixing the various series of profiles.
Fixing to the profile with self-tapping screws.

Materials

Side striker in zamak
Polyamide side shims
Screws for fixing to the profile in stainless steel

Type 4

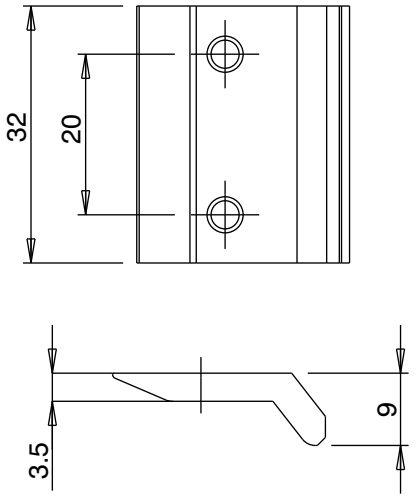
Side striker for PVC

Materials

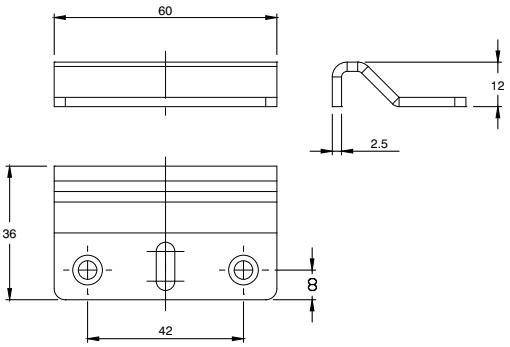
Stainless steel striker
Stainless steel fixing screws

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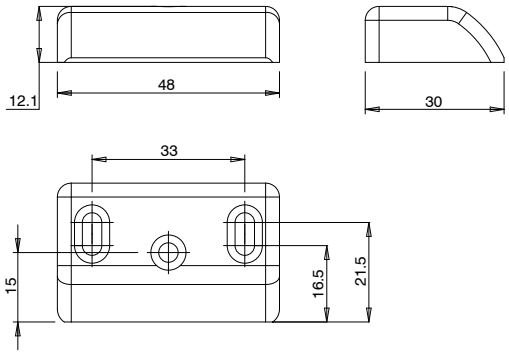
Type 1



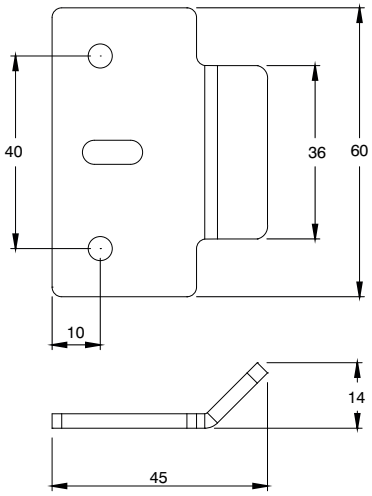
Type 2



Type 3



Type 4



Item code	Description	Type	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07470N	LATERAL STRIKER FOR HANDLES AP001F/AP002F	1	X				10
07471	FLOOR STRIKER FOR HANDLES AP001/AP002	2	X				10
07472	LATERAL STRIKER FOR HANDLES AP001/AP002	3	X				10
07473	LATERAL STRIKER FOR PVC FOR HANDLES AP001/AP002	4	X				10

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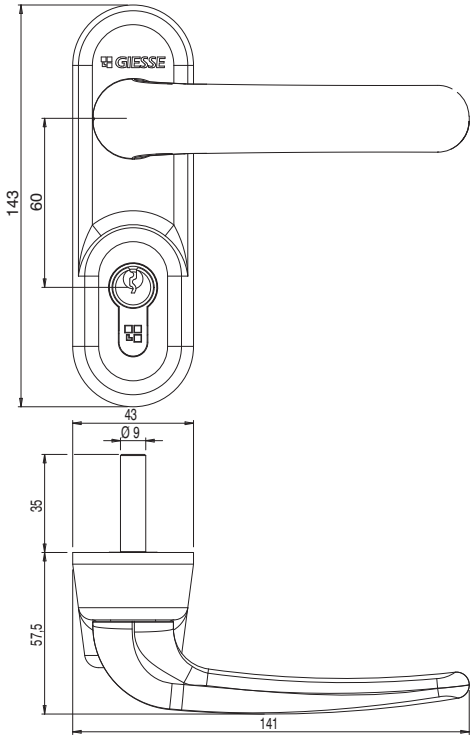


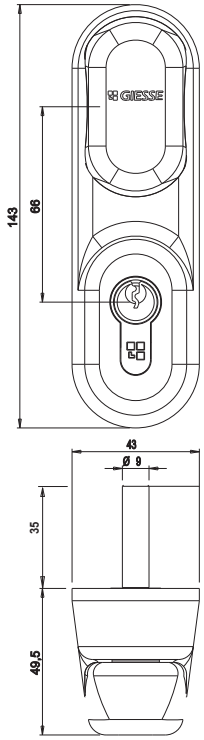
EXTERNAL CONTROLS

External handle to be fitted on the upright or centre rail of the door in conjunction with the panic exit devices AP001 and AP002.
The external control common to all GS AP001 and GS AP002 panic bars, enables the operating handle to be locked in position by way of the cylinder, thus preventing the door being opened from outside.
Available in versions with a handle and with a knob, with an integrated half cylinder 31/10 or without a cylinder.

Materials

Handle in aluminium/knob in zamak
Zamak casing
Shimming plate in zinc plated steel
Square pin 8x120 and fixing screws in zinc plated steel
Cylinder and key made of nickel-plated brass





Item code	Description	Square spindle [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07322	EXTERNAL CONTROL WITH KNOB	8x120			X		1
07324	EXTERNAL CONTROL WITH FREE HANDLE	8x120			X		1

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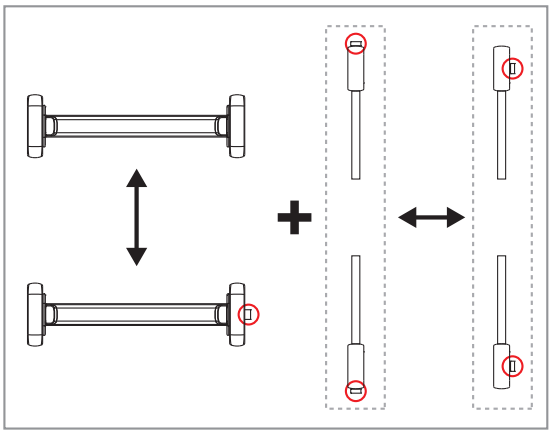


PANIC EXIT DEVICE AP002

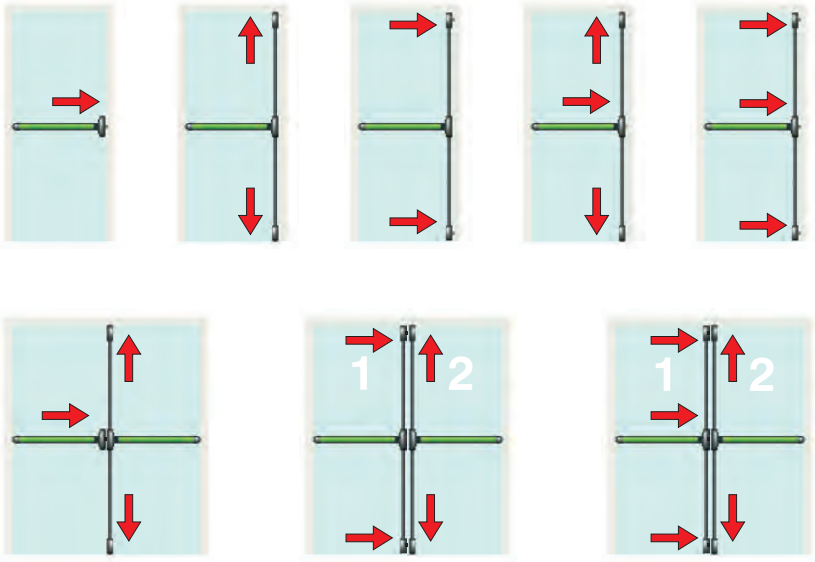
Functions
PUSH-BAR type of panic exit device for surface mounting

Technical Features
The AP002 system is available in 3 versions:
• LATERAL (1 LOCKING POINT)
• TOP/BOTTOM
• MODULAR (3 LOCKING POINTS)
Each of these versions is available in three different lengths:
• short version with bar size 840 mm
• medium version with bar size 1170 mm
• long version with bar size 1300 mm
Completely reversible, AP002 can be fitted on right or left opening doors without requiring any additional operation.
The product is supplied with the fitting instructions, containing paper templates for machining the profile and the product maintenance manual.
AP002 is ideal for use on fire doors when paired with hardware that is specific for this use.

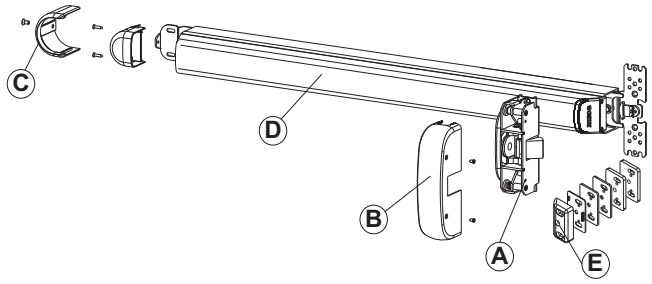
Certifications
The AP002 system is certified to UNI EN 1125:2008 standards and approved for CE marking with the highest performance levels.
The field of application of these panic exit devices, referring to this standard, is the following:
• maximum weight of the door 250 kg
• maximum height of the door 2500 mm
• maximum width of the door 1300 mm
• temperature limits -10°C/+60°C

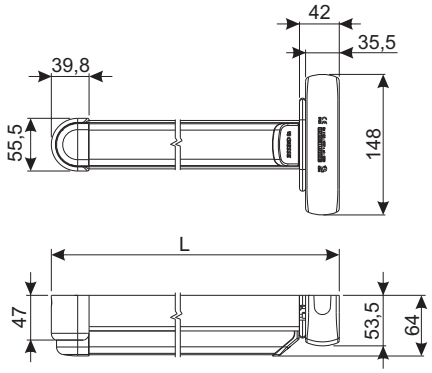


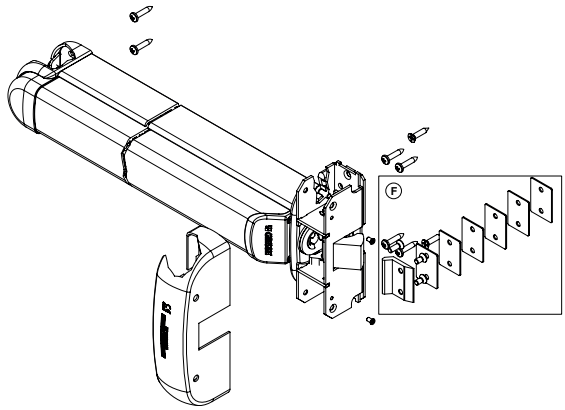
Configurations



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AP002 LATERAL

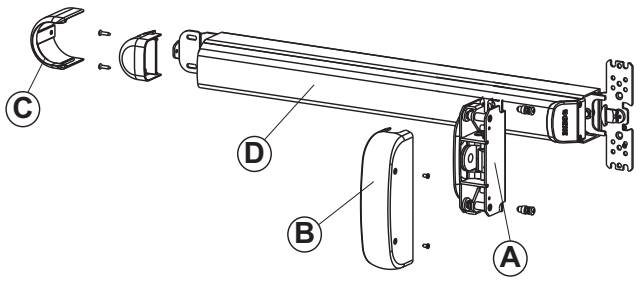
The lateral version AP002 system consists of:
• the reversible mechanism (A) with a lateral spring latch and the mechanism protection plug (B)
• the pre-assembled round coupling shim (C)
• the base with push-bar and mechanism (D), with assembled front and rear caps
• the adjustable lateral striker (E) to be installed by the lateral spring latch of the main mechanism and its stackable shims to be placed under the striker for profiles with different steps (no. 1 shim size 1 mm, no. 2 shims size 2 mm and no. 2 shims size 4 mm)
The version suited for use on fire doors AP001F has a steel lateral striker (F) (instead of zamak as on the standard version) and a set of overlapping shims for use on profiles with different steps.
The lateral AP002 system is to be combined with the additional locking mechanisms.

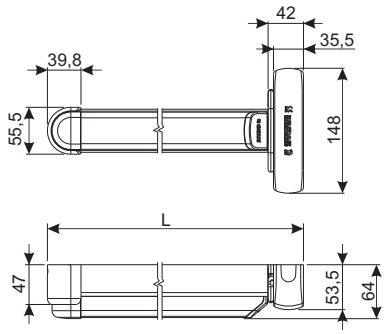
Materials

Mechanism in zinc plated steel
Painted steel mechanism protection plug
Push-bar in extruded aluminium
Spring latch in stainless steel
Striker in zamak and polyamide shims for AP002 version
Striker and shims in stainless steel for AP002F version
Fixing screws, zinc-coated steel

Item code	Description	Version	Bar length L [mm]	Sash width [mm]	Striker provided	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07410	PANIC EXIT DEVICE AP002 LATERAL	SHORT	840	up to 1000	zamak			X		1
07411	PANIC EXIT DEVICE AP002 LATERAL	AVERAGE	1170	from 1001 to 1200	zamak			X		1
07412	PANIC EXIT DEVICE AP002 LATERAL	LONG	1300	from 1201 to 1500	zamak			X		1
07420	PANIC EXIT DEVICE AP002F LATERAL FOR FIRE DOORS	SHORT	840	up to 1000	stainless steel			X		1
07421	PANIC EXIT DEVICE AP002F LATERAL FOR FIRE DOORS	AVERAGE	1170	from 1001 to 1200	stainless steel			X		1
07422	PANIC EXIT DEVICE AP002F LATERAL FOR FIRE DOORS	LONG	1300	from 1201 to 1500	stainless steel			X		1

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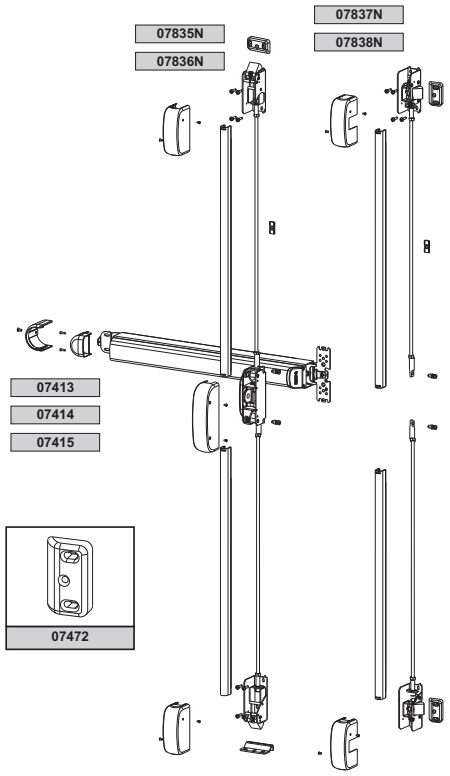
AP002 TOP-BOTTOM

The top-bottom version AP002 system consists of:
• the reversible mechanism (A) without a lateral spring latch that can be combined with additional locking mechanisms and the mechanism protection plug (B)
• the pre-assembled round coupling shim (C)
• the base with push-bar and mechanism (D), with assembled front and rear caps
The top-bottom AP002 system is to be combined with the additional locking mechanisms.
This version is ideal for use on fire doors when paired with additional fastening mechanisms that are specific for this use.

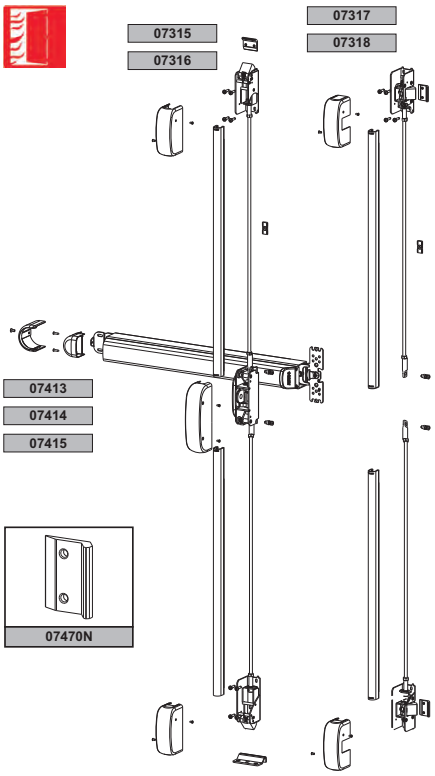
Materials

Mechanism in zinc plated steel
Painted steel mechanism protection plug
Brackets and bracket stop blocks in zamak
Shimming plate in zinc plated steel
Zinc plated steel fixing screws and grub screws

Standard version

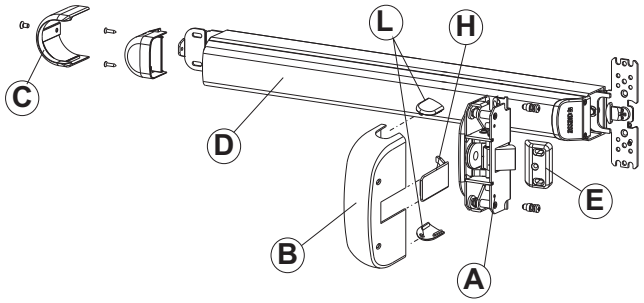


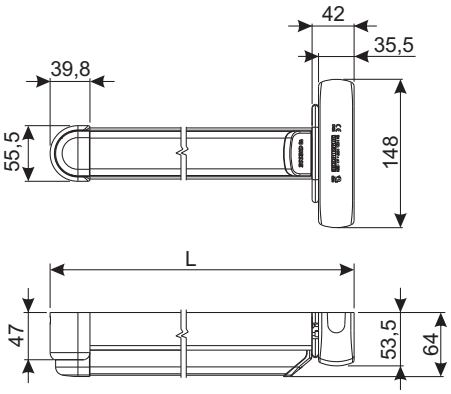
Fire version



Item code	Description	Version	Bar length L [mm]	Sash width [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07413	PANIC EXIT DEVICE AP002 TOP/ BOTTOM	SHORT	840	up to 1000			X		1
07414	PANIC EXIT DEVICE AP002 TOP/ BOTTOM	AVERAGE	1170	from 1001 to 1200			X		1
07415	PANIC EXIT DEVICE AP002 TOP/ BOTTOM	LONG	1300	from 1201 to 1500			X		1

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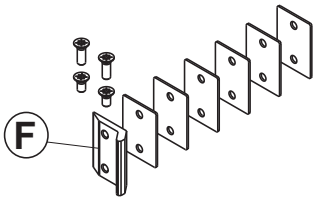


AP002 MODULAR

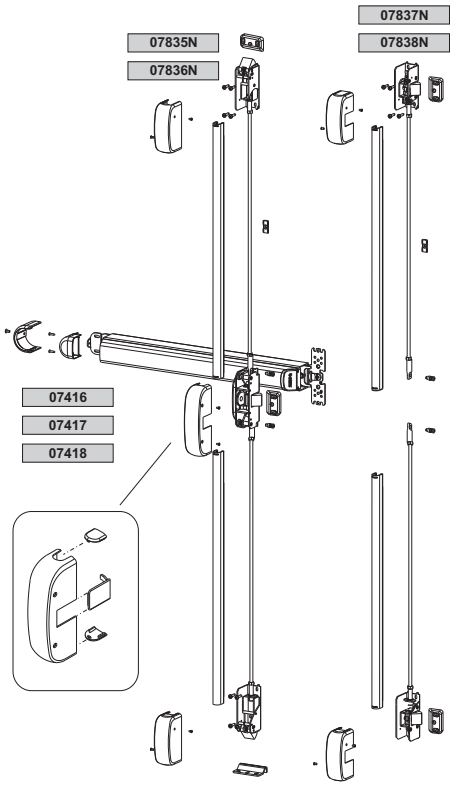
The modular version AP002 system enables, with a single article, both the side configuration with one lock point and the top/bottom configuration with two or three lock points.
The modular AP002 system is to be combined with the additional locking mechanisms.
The modular version AP002 system consists of:
• the reversible modular mechanism (A) with a lateral spring latch (which can be excluded) that can be combined with the additional locking mechanism kit and the mechanism protection plug (B)
• the pre-assembled round coupling shim (C
• the base with push-bar and mechanism (D), with assembled front and rear caps
• the adjustable lateral striker (E) to be installed by the lateral spring latch of the main mechanism and its stackable shims to be placed under the striker for profiles with different steps (no. 1 shim size 1 mm, no. 2 shims size 2 mm and no. 2 shims size 4 mm)
• the disabling plug of the side spring latch (H)
• the caps for closing the slots of the main mechanism (L)
The version suited for use on fire doors AP002F has a steel lateral striker (F) (instead of zamak as on the standard version) and a set of overlapping shims for use on profiles with different steps.

Materials

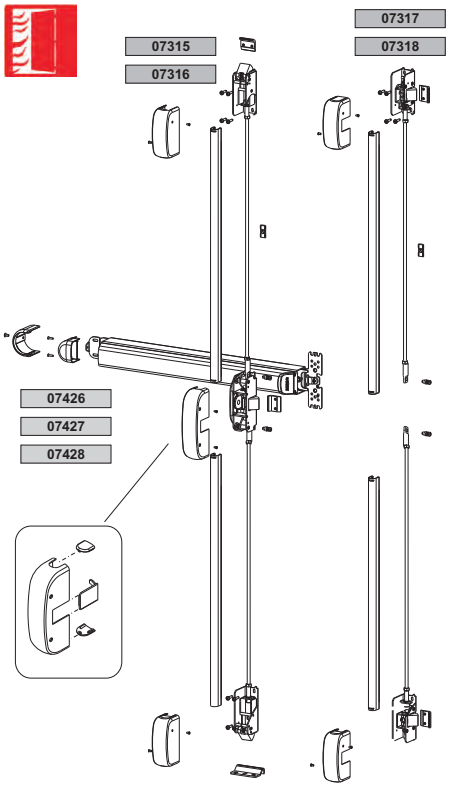
Mechanism in zinc plated steel
Painted steel mechanism protection plug
Push-bar in extruded aluminium
Spring latch in stainless steel



Standard version



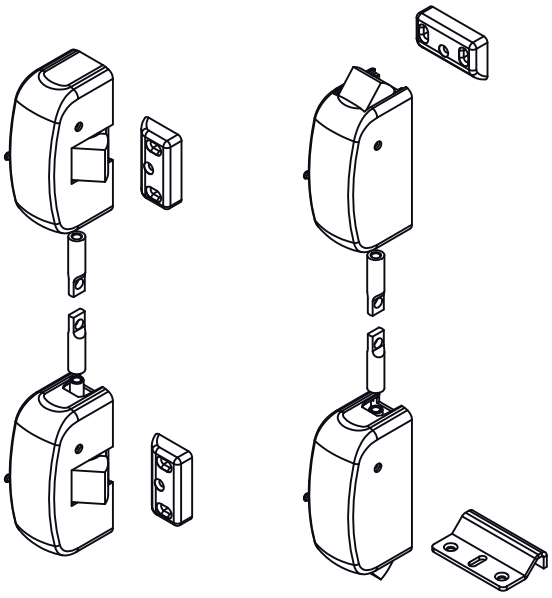
Fire version



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Item code	Description	Version	Bar length L [mm]	Sash width [mm]	Striker provided	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07416	PANIC EXIT DEVICE AP002 MODULAR	SHORT	840	up to 1000	zamak			X		1
07417	PANIC EXIT DEVICE AP002 MODULAR	AVERAGE	1170	from 1001 to 1200	zamak			X		1
07418	PANIC EXIT DEVICE AP002 MODULAR	LONG	1300	from 1201 to 1500	zamak			X		1
07426	PANIC EXIT DEVICE AP002F MODULAR FIRE-RATED	SHORT	840	up to 1000	stainless steel			X		1
07427	PANIC EXIT DEVICE AP002F MODULAR FIRE-RATED	AVERAGE	1170	from 1001 to 1200	stainless steel			X		1
07428	PANIC EXIT DEVICE AP002F MODULAR FIRE-RATED	LONG	1300	from 1201 to 1500	stainless steel			X		1

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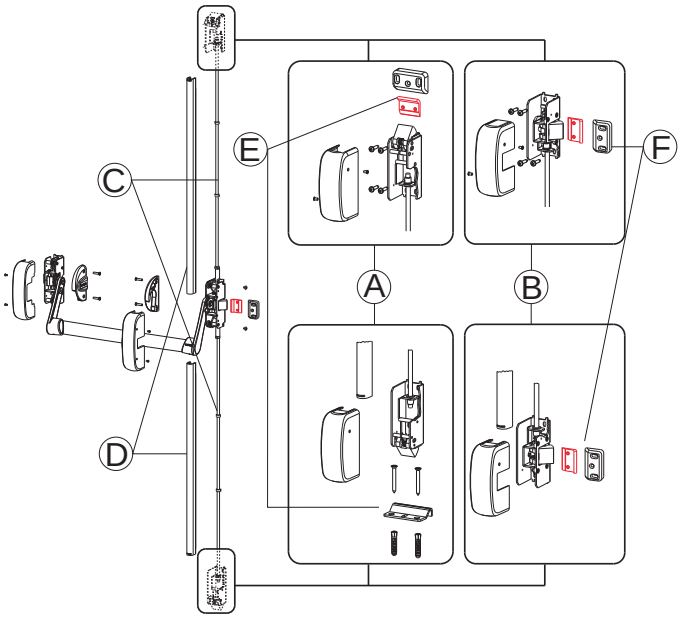


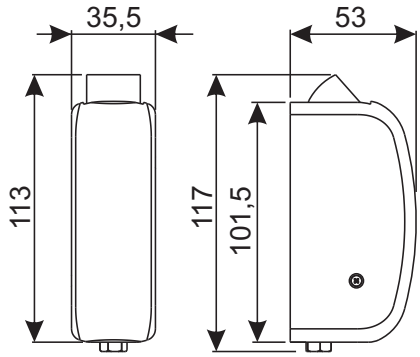
ADDITIONAL LOCKING MECHANISMS AP002

The kit of rods and spring latches for making additional lock points on the door is available in two versions:
• top/bottom for standard doors and fire doors, in a short version and long version. Ideal for one-sash doors that you want to close with greater security than with the lateral system or for the secondary sash of a two-sash door
• side for standard doors and fire doors, in a short version and long version.
Ideal for single leaf doors where you do not include floor striker plates or for tall doors where it is difficult to make the top lock point.
The kits consist of:
• the spring latches for top/bottom (A) or lateral (B) fastening mechanisms
• the threaded rods (C)
• the rod covering (D)
• the floor striker and the upper striker with their shims for the top/bottom version (E)
• the strikers with their shims for the side version (F)
• fixing components (screws, bushings, washers)

Materials

Mechanisms in zinc plated steel
Painted steel mechanism protection plug
Spring latch in stainless steel
Threaded rods in zinc plated steel
Painted steel rod casing
Screws and fixing elements in zinc plated steel
Top/side striker in zamak and polyamide shims



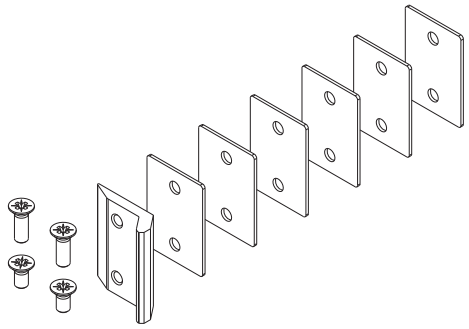


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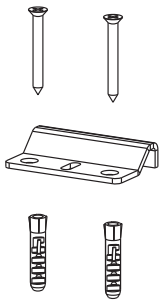
Item code	Description	Locking mechanism type	Version	Sash height [mm]	Strikers provided	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07315	FIRE-RATED ADDITIONAL LOCKING MECHANISMS	TOP/BOTTOM (2 LOCKING POINTS)	SHORT	up to 2640 mm	upper and floor in stainless steel			X		1
07316	FIRE-RATED ADDITIONAL LOCKING MECHANISMS	TOP/BOTTOM (2 LOCKING POINTS)	LONG	from 2641 mm to 3150 mm	upper and floor in stainless steel			X		1
07317	FIRE-RATED ADDITIONAL LOCKING MECHANISMS	LATERAL	SHORT	up to 2640 mm	side elements in stainless steel			X		1
07318	FIRE-RATED ADDITIONAL LOCKING MECHANISMS	LATERAL	LONG	from 2641 mm to 3150 mm	side elements in stainless steel			X		1
07835N	ADDITIONAL FASTENING MECH-ANISMS	TOP/BOTTOM (2 LOCKING POINTS)	SHORT	up to 2640 mm	upper in zamak and floor in stainless steel			X		1
07836N	ADDITIONAL FASTENING MECH-ANISMS	TOP/BOTTOM (2 LOCKING POINTS)	LONG	from 2641 mm to 3150 mm	upper in zamak and floor in stainless steel			X		1
07837N	ADDITIONAL FASTENING MECH-ANISMS	LATERAL	SHORT	up to 2640 mm	side elements in zamak			X		1
07838N	ADDITIONAL FASTENING MECH-ANISMS	LATERAL	LONG	from 2641 mm to 3150 mm	side elements in zamak			X		1

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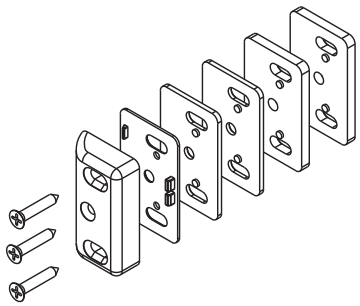
Type 1



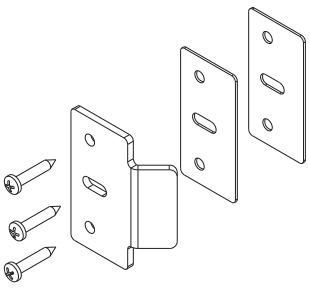
Type 2



Type 3



Type 4



STRIKERS FOR HANDLES AP002

Closing strikers to pair with the panic exit devices AP001 and AP002

Type 1

Lateral striker in stainless steel for panic exit devices in fire-rated version AP001F AP002F.
Ensures operation of the safety device and therefore operation of the door, also in the event of fire.
The striker has no. 6 shims of 1 mm, which can overlap, for adapting to the various series of profiles.
Fixing to the profile with self-tapping screws.
Fixing to the profile with M4 screws.

Materials

Striker and shims in stainless steel
Screws for fixing to the profile in stainless steel

Type 2

Floor striker to be placed at the bottom vertical spring latch of the panic exit devices AP001 and AP002.
Supplied with the additional spring latches, it can also be purchased separately.

Materials

Stainless steel striker
Screws for fixing to the profile in stainless steel
Plastic expansion dowels for fixing

Type 3

Adjustable side striker to be placed at the side or vertical spring latches of the panic exit devices AP001 and AP002.
Supplied with the handles and the additional spring latches, it can also be purchased separately.
The striker has no. 5 shims respectively of 1 mm, 2 mm and 4 mm, which can overlap with each other for fixing the various series of profiles.
Fixing to the profile with self-tapping screws.

Materials

Side striker in black painted zamak.
Polyamide side shims
Screws for fixing to the profile in stainless steel

Type 4

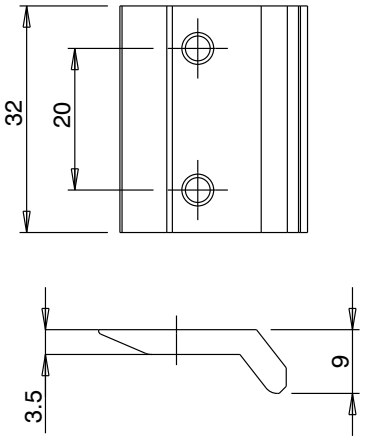
Side striker for PVC

Materials

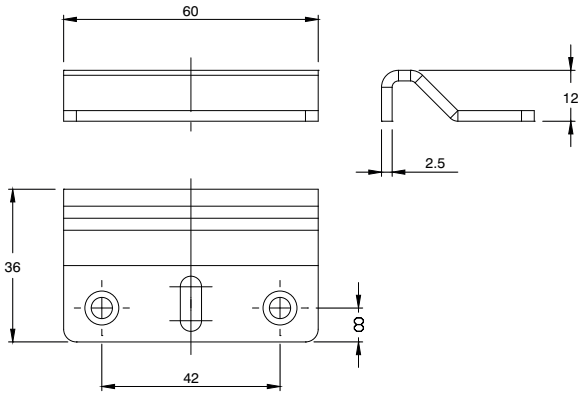
Stainless steel striker
Stainless steel fixing screws

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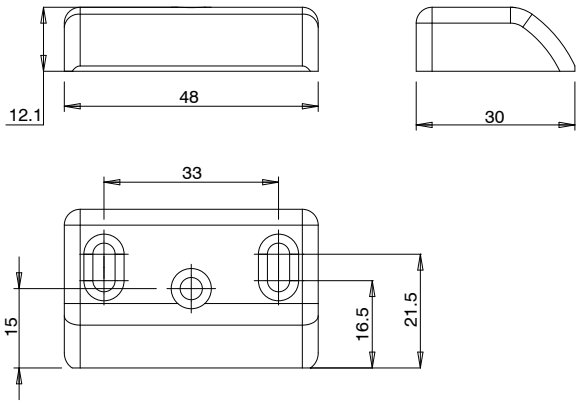
Type 1



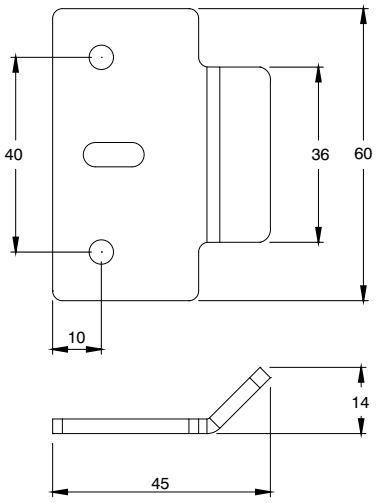
Type 2



Type 3



Type 4



Item code	Description	Type	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07470N	LATERAL STRIKER FOR HANDLES AP001F/AP002F	1	X				10
07471	FLOOR STRIKER FOR HANDLES AP001/AP002	2	X				10
07472	LATERAL STRIKER FOR HANDLES AP001/AP002	3	X				10
07473	LATERAL STRIKER FOR PVC FOR HANDLES AP001/AP002	4	X				10

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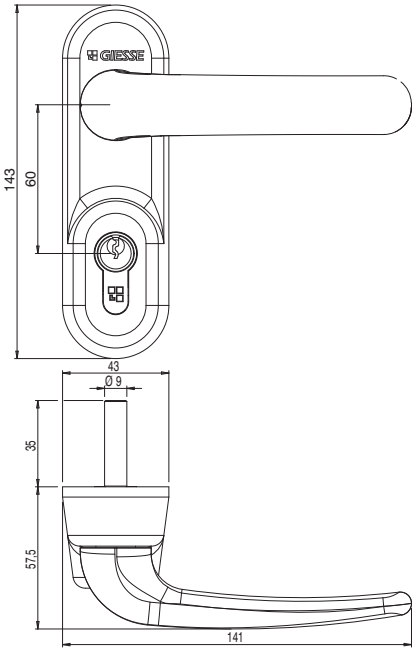


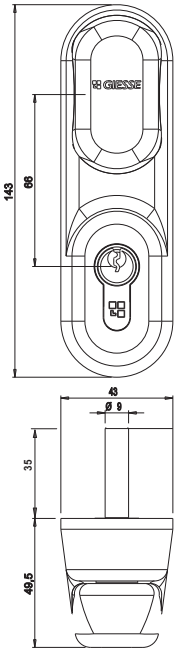
EXTERNAL CONTROLS AP002

External handle to be fitted on the upright or centre rail of the door in conjunction with the panic exit devices AP001 and AP002.
The external control common to all GS AP001 and GS AP002 panic bars, enables the operating handle to be locked in position by way of the cylinder, thus preventing the door being opened from outside.
Available in versions with a handle and with a knob, with an integrated half cylinder 31/10 or without a cylinder.

Materials

Handle in aluminium/knob in zamak
Zamak casing
Shimming plate in zinc plated steel
Square pin 8x120 and fixing screws in zinc plated steel
Cylinder and key made of nickel-plated brass





Item code	Description	Square spindle [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07322	EXTERNAL CONTROL WITH KNOB	8x120			X		1
07324	EXTERNAL CONTROL WITH FREE HANDLE	8x120			X		1

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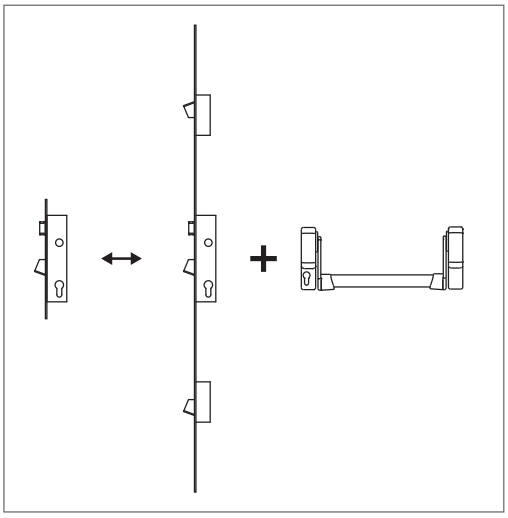


PANIC EXIT DEVICE AP100

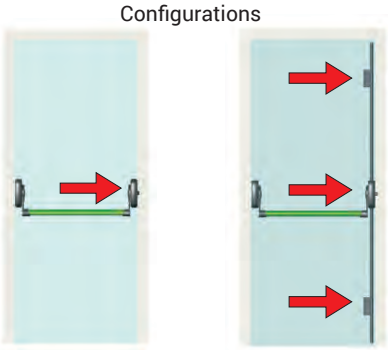
Functions
Security panic exit device.

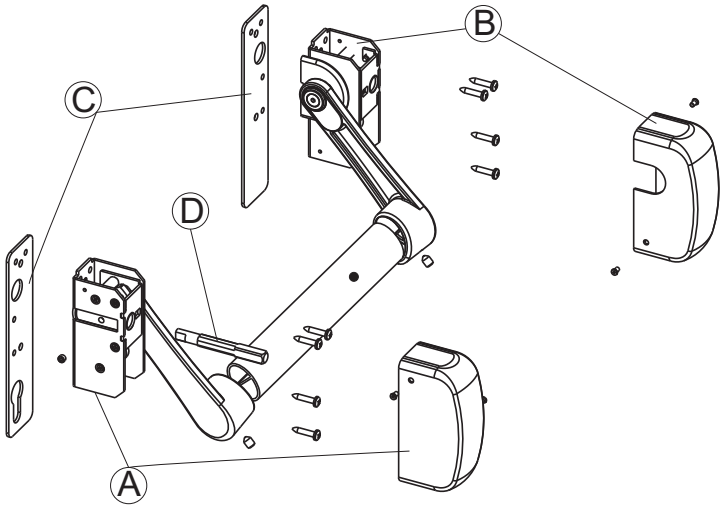
Technical Features
The security version AP100 system consists of:
• AP100 locking mechanism
• Oval push-bar, sold separately, available in three different widths
• Antipanic security locks with one and three locking points, to be chosen depending on the profile and the type of application with specific counterplates
• Counterplates for AP100 locks
The pressure on the bar determines the rotation of a special square pin (emergency function) which operates the security lock coupled with the device only when opening.
The security locks of this type have the characteristic of being able to be opened by simply turning the handle spindle, even when the bolt is closed.
The special conditions of installation make the emergency function active only on the inside of the door.
The mechanism, locks and emergency function can be easily reversed for application on both left and right handed doors.
The product is supplied with the fitting instructions, containing paper templates for machining the profile and the product maintenance manual.

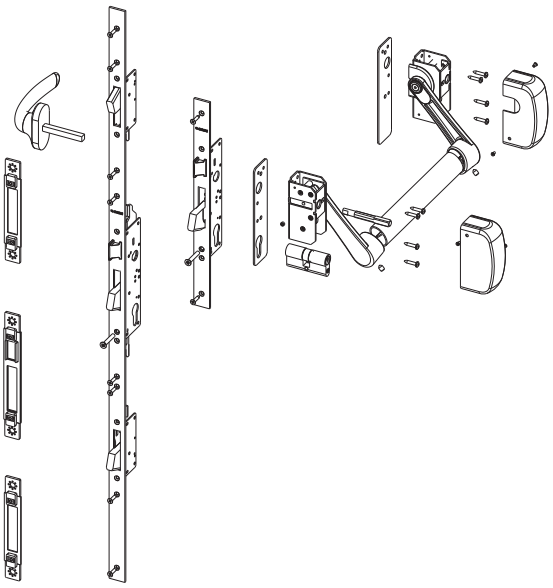
Certifications
The AP100 system is certified to UNI EN 1125:2008 standards and approved for CE marking, with the highest performance levels.
The field of application of these panic exit devices, referring to this standard, is the following:
• maximum weight of the door 250 kg
• maximum height of the door 2500 mm
• maximum width of the door 1300 mm
• temperature limits -10°C/+60°C



Configurations







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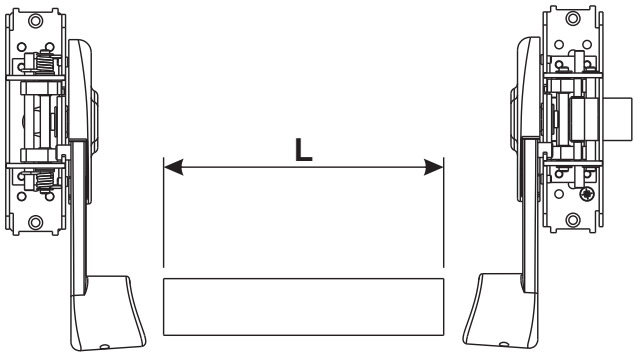


PUSH-BARS AP100

Push-bar for panic exit devices AP001 and AP100
Available in various lengths.
Fixing to the handle brackets by means of grub screws.

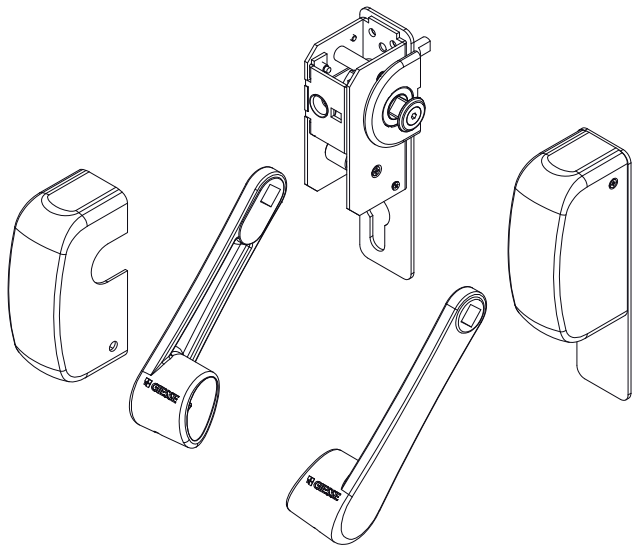
Materials

Painted extruded aluminium bar



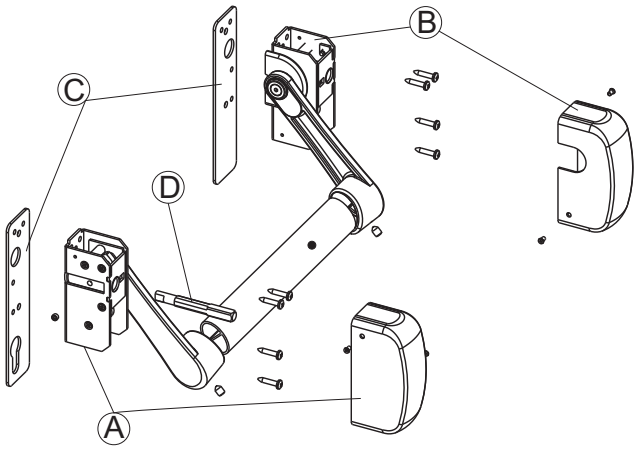
Item code	Description	PROFILE CROSS - SECTION	A (mm)	B (mm)	C (mm)	Length (mm)	Base Raw	Special finishes	Pieces per pack
07843	HANDLE BAR	-	-	-	-	950			1
07844	HANDLE BAR	-	-	-	-	1150			1
07845	HANDLE BAR	-	-	-	-	1450			1

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AP100 MECHANISM

The AP100 mechanism consists of:
• main operating device (A) and its mechanism protection plug
• secondary operating device (B) and its mechanism protection plug
• shimming plates (C)
• square connecting pin between the fastening mechanism and lock (D)
The device to insert should be combined with the following components:
• oval push-bar, sold separately, available in three different widths
• the security locks with one-point and three-point fastening, to be chosen depending on the profile and the type of application with specific counterplates
• specific strikers for the lock used
cylinder



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07833	PANIC EXIT DEVICE AP100				X		1

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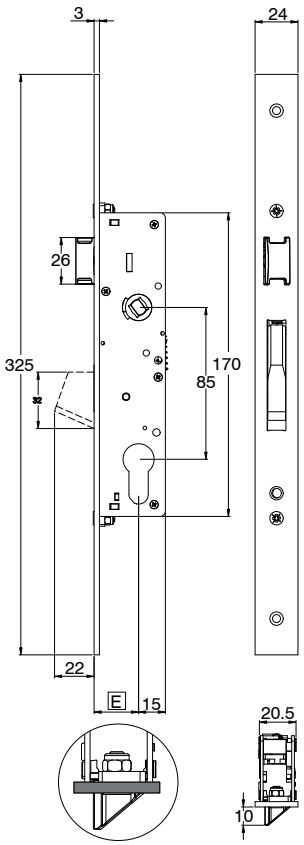
CENTRAL LOCKS FOR EMERGENCY EXITS

Central lock, slip-on version for aluminium uprights , available with flat front and "U" shaped front, equipped with spring latch and pivoting bolt for emergency exits.
Bolt operated with the cylinder and by operating the push-bar of the panic exit device from the inside (EMERGENCY function).
Spring latch operated with the cylinder and with the 8 mm handle spindle (from the outside).
Cylinder handle C/C distance 85 mm.
Bolt with thickness of 10 mm and minimum protrusion of 24 mm.
Spring latch with 10 mm protrusion.
Flat front plate 24x3 mm.

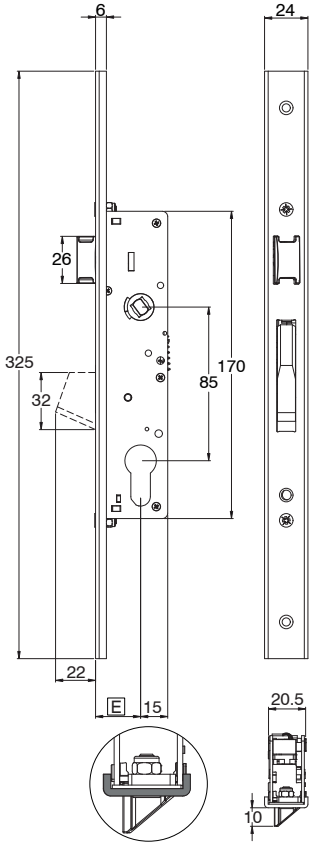
Materials

Lock cover plate and case plate in zinc plated steel
Front in stainless steel
Spring latch and bolts in nickel-plated steel
Zinc plated steel cylinder fixing screw
Lock fixing screws in stainless steel

Flat front



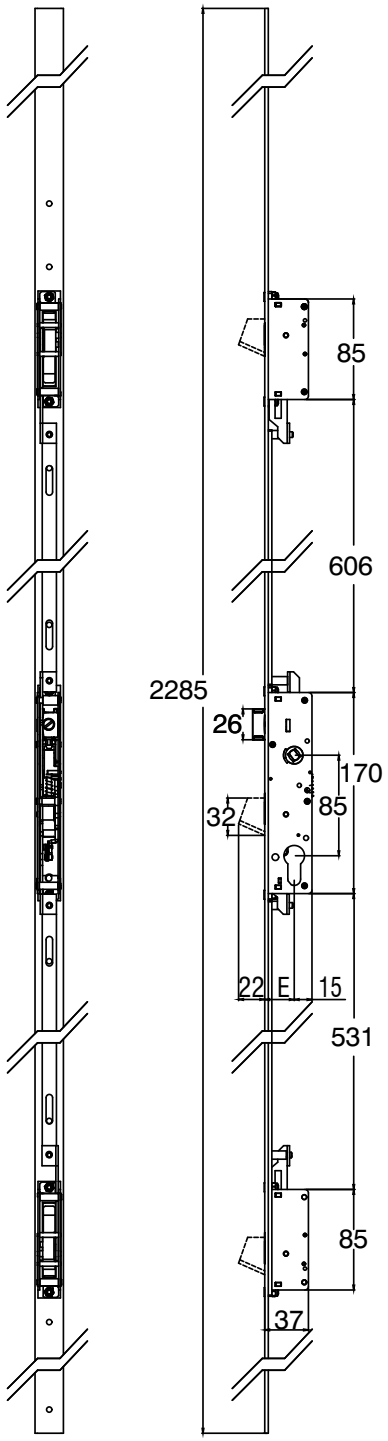
U-front



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Item code	Description	Backset E [mm]	Front width [mm]	Front type	Compatible counter-plates	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07640	CENTRAL LOCK FOR EMERGENCY EXITS	25	24	U-SHAPED	07691 - 07694 - 07695	X				1
07643	CENTRAL LOCK FOR EMERGENCY EXITS	25	24	PLATE	07690 - 07691 - 07692 - 07693 - 07694 - 07695	X				1

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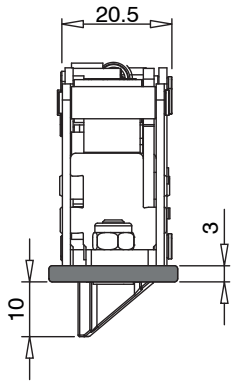
MULTIPOINT LOCKS FOR EMERGENCY EXITS

Multipoint lock with central lock and additional locks, available with flat front and "U" shaped front, equipped with spring latch and pivoting bolts for emergency exits.
Bolts operated with the cylinder and by operating the push-bar of the panic exit device from the inside (EMERGENCY function).
Spring latch operated with the cylinder and with the 8 mm handle spindle (from the outside).
Cylinder handle C/C distance 85 mm.
Bolts with thickness of 10 mm and minimum protrusion of 24 mm.
Spring latch with 10 mm protrusion.
Front plate 24x3 mm.
Available with U front and Flat front

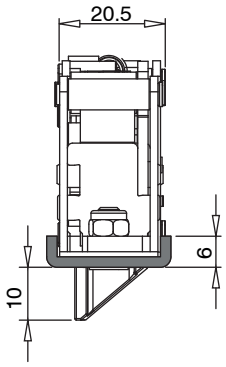
Materials

Lock cover plates and case plate in zinc plated steel
Front in stainless steel
Spring latch and bolts in nickel-plated steel
Zinc plated steel cylinder fixing screw
Lock fixing screws in stainless steel

Flat front



U-front

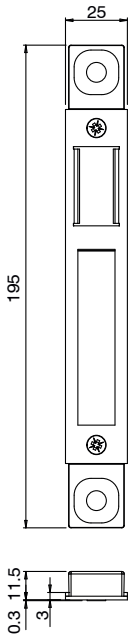


Item code	Description	Backset E [mm]	Front width [mm]	Front type	Compatible counter-plates	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07650	MULTIPOINT LOCK FOR EMERGENCY EXITS	25	24	U-SHAPED	07701 - 07704 - 07705	X				1
07653	MULTIPOINT LOCK FOR EMERGENCY EXITS	25	24	PLATE	07700 - 07701 - 07702 - 07703 - 07704 -07705	X				1

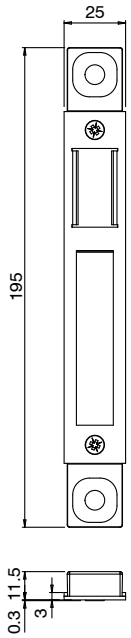
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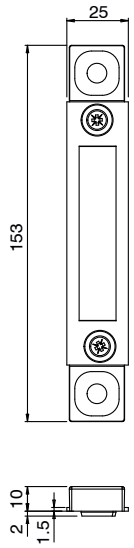


Type 1 – art. 07691

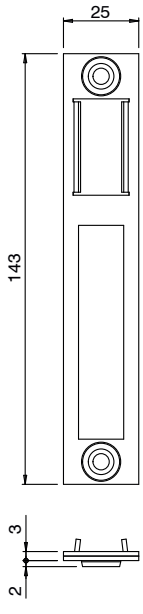


Type 1 – art. 07701

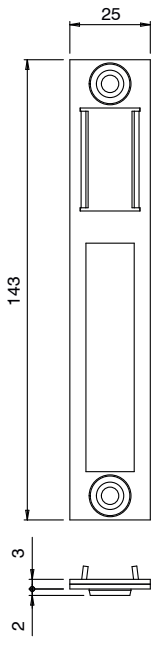


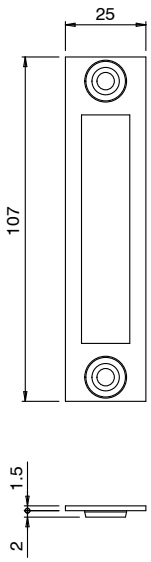


Type 2 – art. 07695



Type 2 – art. 07705





COUNTERPLATES FOR LOCKS AP100

Counterplates to be combined with the central locks AP100 multi-point locks for emergency exits to be combined with the system.

TYPE 1

Counterplate and set of adjustable counterplates for door profiles without a channel, to be combined with the single and multi-point locks for emergency AP100.
Front fixing with self-threading screws. Equipped with shims to adjust the stack.
Side adjustment ± 2 mm with the two blocks ready-assembled to the counterplate.

Materials

Front plates, screws for fixing to the profile and nuts made of stainless steel
Central plate body in zamak

TYPE 2

Counterplate and set of adjustable flat counterplates for door profiles without a channel, to be combined with the single and multi-point locks for emergency AP100.
Front fixing with self-tapping screws.
Side adjustment ± 1.5 mm with slots.

Materials

Counterplates and screws for fixing to the profile made of stainless steel

TYPE 3

Counterplate and set of adjustable counterplates for European Groove type profiles, to be combined with the single and multi-point locks for emergency AP100.
Front fixing in a channel by way of machined fixing plates, to lock in different positions to obtain adaptability to the various series of profiles.
Side adjustment ± 2mm with slots.

Materials

Front plates, screws for fixing to the profile and nuts made of stainless steel
Adapters for side adjustment and machined fixing plates made of zamak

TYPE 4

Counterplate and set of adjustable counterplates for R40/R50 type profiles, to be combined with the single and multi-point locks for emergency AP100.
Front fixing in a channel by way of machined fixing plates, to lock in different positions to obtain adaptability to the various series of profiles.
Side adjustment ± 2mm with slots.

Materials

Front plates, screws for fixing to the profile and nuts made of stainless steel
Adapters for side adjustment and machined fixing plates made of zamak

TYPE 5

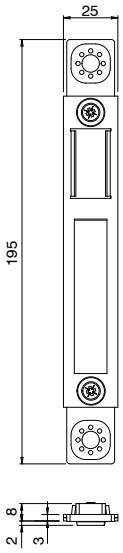
Counterplate and set of adjustable counterplates for profiles with a channel with a stack of 30 mm, to be combined with the single and multi-point locks for emergency AP100.
Front fixing in a channel by way of machined fixing plates, to lock in different positions to obtain adaptability to the various series of profiles.
Side adjustment ± 2 mm with slots

Materials

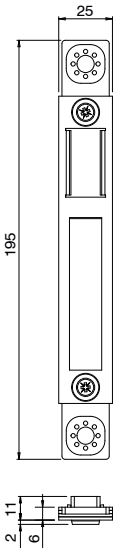
Front plates, screws for fixing to the profile and nuts made of stainless steel
Adapters for side adjustment and machined fixing plates made of zamak

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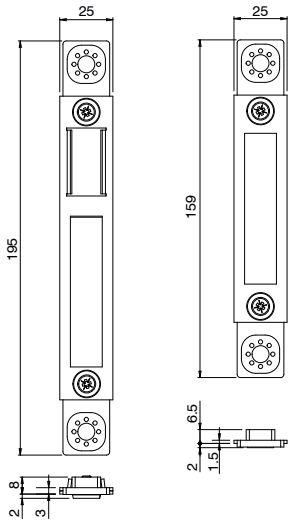
Type 3 – art. 07690



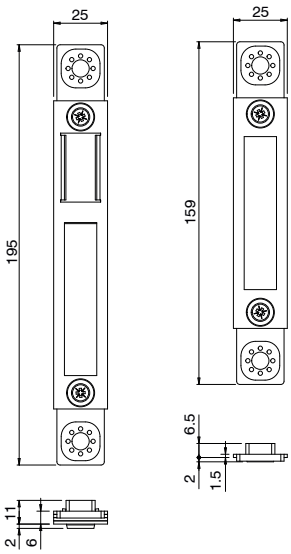
Type 3 – art. 07692



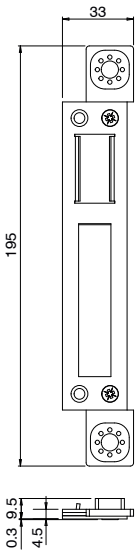
Type 3 – art. 07700



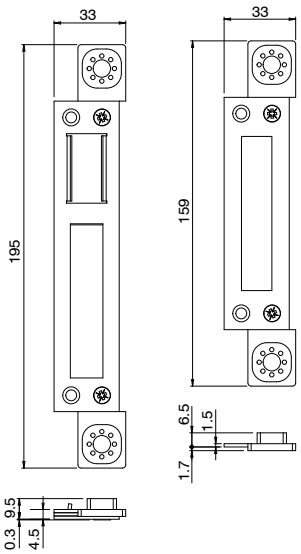
Type 3 – art. 07702



Type 4 – art. 07693



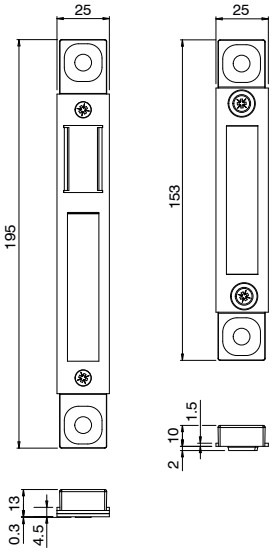
Type 4 – art. 07703



Type 5 – art. 07694



Type 5 – art. 07704



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Item code	Description	Adjustment	Width [mm]	PROFILE CROSS - SECTION	Compatible locks	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07690	COUNTERPLATE FOR EUROPEAN GROOVE PROFILES	± 2 mm	25	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	07643 - 07644 - 07645	X				1
07691	COUNTERPLATE FOR DOOR PROFILES	± 2 mm	25	-	07643 - 07644 - 07645 - 07640 - 07641 - 07642	X				1
07692	COUNTERPLATE FOR PROFILES GROOVE 15/20 STACK 12/15	± 2 mm	25	C009-C010	07643 - 07644 - 07645	X				1
07693	COUNTERPLATE FOR PROFILE R40/R50	± 2 mm	33	C007-C008	07643 - 07644 - 07645	X				1
07694	COUNTERPLATE FOR PROFILES GROOVE 15/20 STACK >15	± 2 mm	25	-	07643 - 07644 - 07645 - 07640 - 07641 - 07642	X				1
07695	UNIVERSAL FLAT COUNTERPLATE	± 1.5 mm	25	-	07643 - 07644 - 07645 - 07640 - 07641 - 07642	X				1
07700	COUNTERPLATE KIT FOR EUROPE-AN GROOVE PROFILES	± 2 mm	25	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	07653 - 07654 - 07655	X				1
07701	COUNTERPLATE KIT FOR DOOR PROFILES	± 2 mm	25	-	07653 - 07654 - 07655 - 07650 - 07651 - 07652	X				1
07702	COUNTERPLATE KIT FOR PROFILES GROOVE 15/20 STACK 12/15	± 2 mm	25	C009-C010	07653 - 07654 - 07655	X				1
07703	COUNTERPLATE KIT FOR PROFILES R40/R50	± 2 mm	33	C007-C008	07653 - 07654 - 07655	X				1
07704	COUNTERPLATE KIT FOR PROFILES GROOVE 15/20 STACK >15	± 2 mm	25	-	07653 - 07654 - 07655 - 07650 - 07651 - 07652	X				1

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SEALING AND FASTENING MECHANISM COMPONENTS

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SASH GIAP BOLTS

Functions

Polyamide bolt composed of an actuator and terminal with pin for direct fixing to the floor.
Ideal for side-hung doors and windows in aluminium with central gasket.

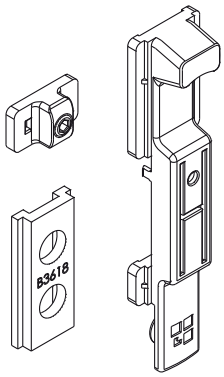
Technical Features

For the fixing where mounting is required in conjunction with the rod strikers, you will have to engage the supplied polyamide adjustable bush on the pin to achieve a perfect coupling.
Fits to the profile groove without any machining. Once positioned, secures with a block by tightening the pre-assembled M5 grub screw, with a 2.5 mm Allen key.
The polyamide connection plate can be replaced by the series rod to extend the mechanism.

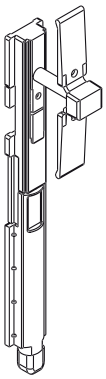
Materials

Basic parts in fibreglass loaded polyamide
Terminal pin of zinc-nickel plated steel
Fixing block in Zamak
Stainless steel grub screw

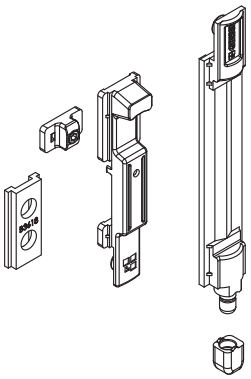
Type 1



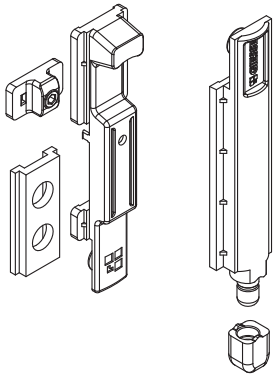
Type 2



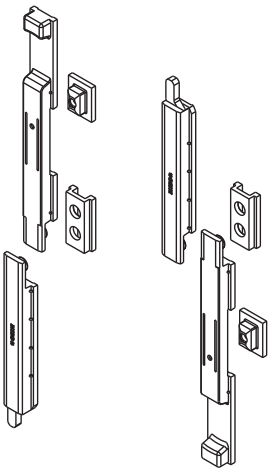
Type 3



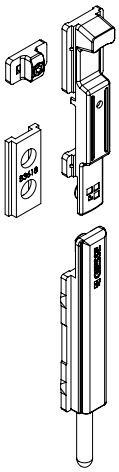
Type 4



Type 5

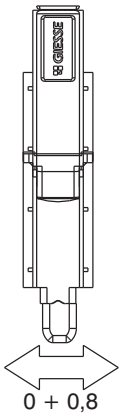


Type 6



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adjustment



Item code	Description	Type	Groove (mm)	Adjustment (mm)	Discharged terminal	Offset terminal	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02108K	GIAP BOLT	3	15 ÷ 20	+ 0,8	YES	-	X				50
02111K	GIAP BOLT	4	15 ÷ 20	+ 0,8	-	-	X				50
02111N	GIAP BOLT	4	15 ÷ 20	+ 0,8	-	-	X				50
02112	GIAP BOLT	4	13,2 ÷ 16,8	+ 0,8	-	-	X				50
02112K	GIAP BOLT	4	13,2 ÷ 16,8	+ 0,8	-	-	X				50
02121	GIAP BOLT	4	15 ÷ 20	-	-	-	X				20
02125	GIAP BOLT	4	14 ÷ 18	+ 0,8	-	-	X				50
02125K	GIAP BOLT	4	14 ÷ 18	+ 0,8	-	-	X				50
02131	GIAP BOLT	5	15 ÷ 18	-	-	-	X				25
02131K	GIAP BOLT	5	15 ÷ 18	-	-	-	X				25
02132	GIAP BOLT	5	20 ÷ 23	-	-	-	X				25
02133	GIAP BOLT	4	23,6 ÷ 31	+ 0,8	-	-	X				50
02134	GIAP BOLT	5	20 ÷ 23	-	-	-	X				25
02164	GIAP BOLT	6	15 ÷ 20	-	-	YES	X				25
02165	GIAP MECHANISM	1	15 ÷ 20	-	-	-	X				50
02165K	GIAP MECHANISM	1	15 ÷ 20	-	-	-	X				50

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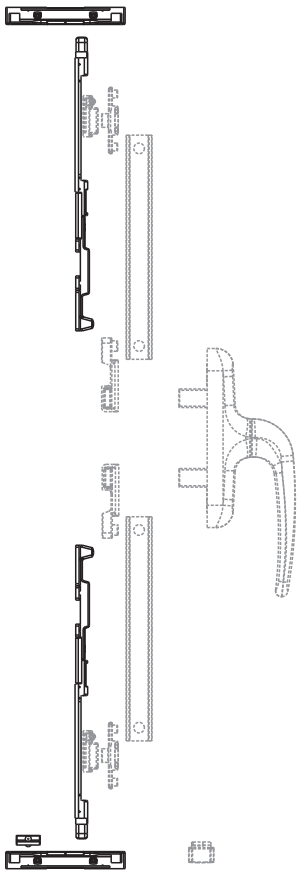


GIAP BOLT SECONDARY SASH KIT

Functions
Secondary sash fastening mechanism with Giap bolt.
For use on the single casement of side hung windows.

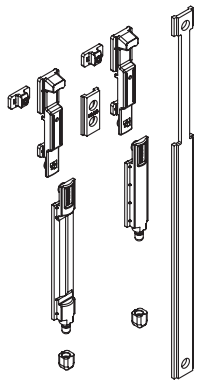
Technical Features
The fastening mechanism is composed of two Giap bolts, closing strikers and a raising element.
The fastening mechanism is to be in addition to the Flash Base hinges.

Materials
Connecting blocks and raiser made of polyamide
Bolt tip and terminal bushing in polyamide
Plug in zamak
Double striker in zamak with GS Silver Plus finish (over 500 hours of corrosion resistance)
Insert for striker and grub screws in stainless steel



Item code	Description	PROFILE CROSS - SECTION	Sash kit match	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02581K	KIT FOR SECONDARY SASH WITH GIAP BOLT	C001-C003-C005	02571K 02574K 02577K	X				10
02582K	KIT FOR SECONDARY SASH WITH GIAP BOLT	C002	02571K 02574K 02577K	X				10

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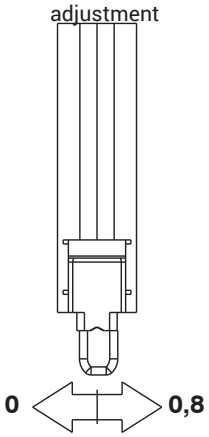


TILT-AND-TURN WINDOW GIAP BOLTS

Functions
Bolt for Giesse tilt-and-turn secondary sash featuring polyamide terminals with eccentric pin that enables sash closing compression adjustment.

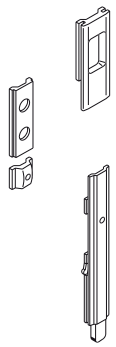
Technical Features
The bolt consists of a top and bottom bolt specially sized to be able to accommodate the closing (Upper) and anti-fall (Lower) strikers. It is fitted in the profile groove without machining and, after obtaining the correct positioning, fixed by tightening the grub screw pre-assembled on the fixing block. The supplied connecting plate can be replaced by the Giesse connection rod if the mechanism is to be sited in a non-standard position.

Materials
Extension in aluminium
Bolt mechanism, connecting element, terminal bush, upper and lower terminals in polyamide
Fixing plug in zamak
Screws and grub screws in stainless steel



Item code	Description	PROFILE CROSS - SECTION	Groove (mm)	Adjustment (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0426001	T/T SECONDARY SASH GIAP BOLT	C007	15 ÷ 20	+ 0,8	X				10
04266	T/T SECONDARY SASH GIAP BOLT	C008	20 ÷ 23	-	X				10
04267	T/T SECONDARY SASH GIAP BOLT	C009	15 ÷ 20	-	X				10
04274K	T/T SECONDARY SASH GIAP BOLT	-	15 ÷ 20	+ 0,8	X				10
04277K	T/T SECONDARY SASH GIAP BOLT	C001	14 ÷ 18	+ 0,8	X				10
04278K	T/T SECONDARY SASH GIAP BOLT	C002	13,5 ÷ 16,8	+ 0,8	X				10

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SUPERGIAP BOLTS

Functions

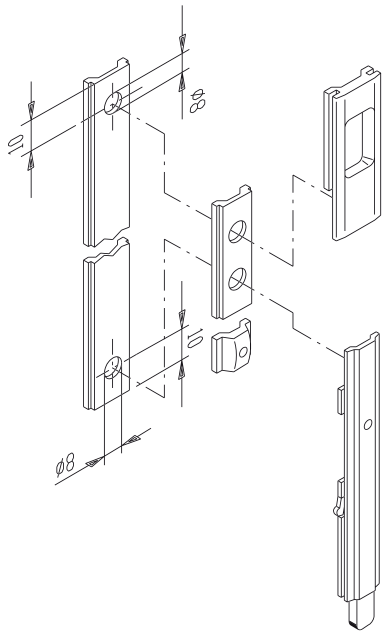
Direct activation bolt, especially strong, for aluminium casement window and door fixtures with central gasket seal.
Supplied in pairs.
For 20 mm groove.

Technical Features

The bolt stroke is 18 mm.
Fits to the profile groove without any machining.
Once positioned, it secures with a block by tightening the pre-assembled M5 grub screw, with a 2.5 mm Allen key.
The terminal is equipped with a polyamide positioning spring.
The spring also has the feature of aiding the sliding and compensating for any extrusion tolerances or increased thickness due to painting.
The plate can be replaced by the connection rod.

Materials

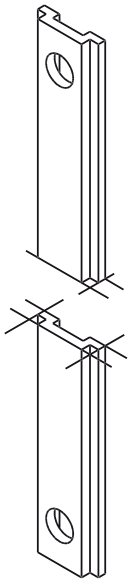
Terminal pin of zinc plated steel.
Bolt tip body in zamak.
Pull recess, plate and spring in polyamide.



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02153	SUPERGIAP BOLT		X				10

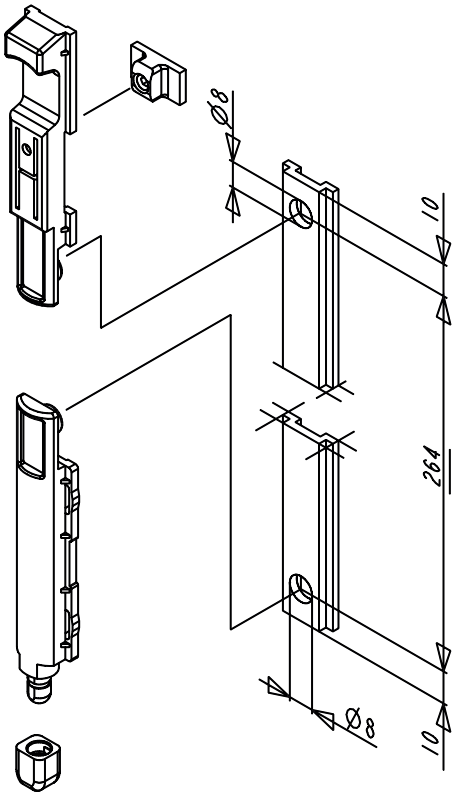
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EXTENSION ROD FOR GIAP BOLTS



Functions
Rod to extend the GIAP bolt for 15-20 grooves.
The rod is used to extend the mechanism of the Giap bolt, instead of the connection plate.

Materials
Fibreglass-reinforced polyamide



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02113	EXTENSION ROD FOR GIAP BOLTS	E.G. - ALLCO5		X			50

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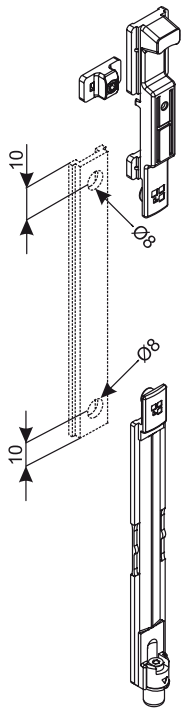
ADJUSTABLE BOLTS

Functions
Bolt for second sash, featuring zamak terminals that enable secondary sash closing compression adjustment.

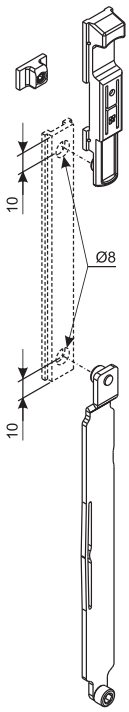
Technical Features
Specifically designed for use on overlap profiles with double channel.
It is fitted in the profile groove without machining and, after obtaining the correct positioning, fixed by tightening the grub screw pre-assembled on the fixing block.
The terminal is entirely in zamak and has a zamak bolt tip enabling ±1.5 mm adjustment in the closed position.
The supplied connecting plate can be replaced by the GIESSE o series connecting bracket if the mechanism is to be sited in a non-standard position.
The body of the terminal is equipped with vibration-damping leaf springs.
Adjustment
For adjustment, using a 2.5 mm Allen key just slacken the screw holding the terminal and bolt tip together, turn the bolt tip one or more steps in the required direction, then tighten the screw. Every step corresponds to a recovery of approx. 0.3 mm.

Materials
Mechanism and connecting element in polyamide.
Terminal and fixing plug in stainless steel or zamak depending on the model.
Screws and grub screws in stainless steel.

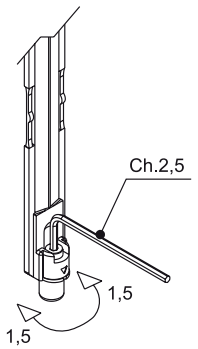
Article 02168K - 02166K



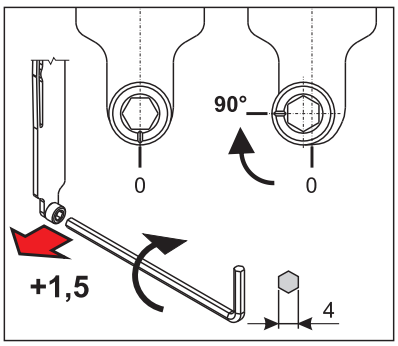
Article 02008



Adjustment Article 02168K - 02166K

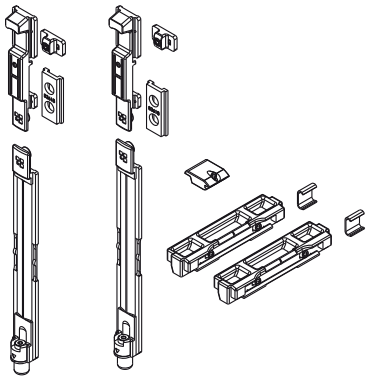


Adjustment Article 02008



Item code	Description	PROFILE CROSS - SECTION	Groove (mm)	Terminal	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02166K	FUTURA ADJUSTABLE BOLT	-	13,2 ÷ 16,8	Zamak	X				10
02168K	FUTURA ADJUSTABLE BOLT	-	15 ÷ 20	Zamak	X				10

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ADJUSTABLE BOLT SECONDARY SASH KIT

Functions

Secondary sash fastening mechanism with adjustable bolt.
For use on the single casement of side hung windows.

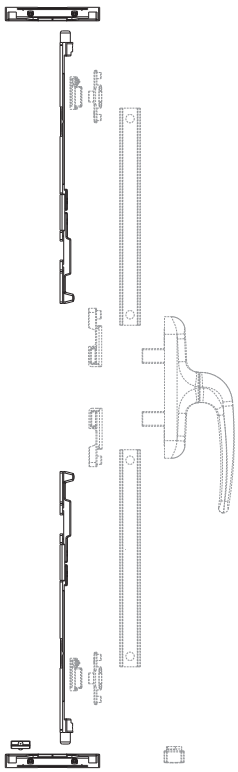
Technical Features

The fastening mechanism is composed of two adjustable bolts, two closing strikers and a raising element.
The fastening mechanism is to be in addition to the Flash Base hinges.

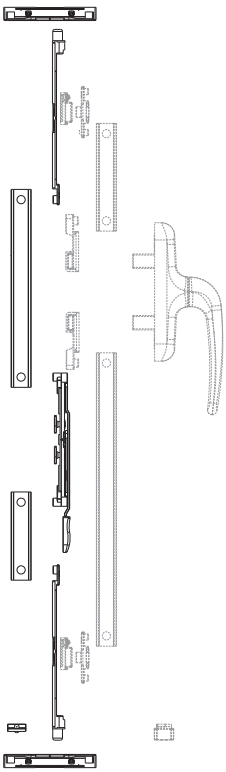
Materials

Connecting blocks, raiser and mechanism made of polyamide
Plug, terminal and strikers in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance)
Insert for strikers and grub screws in stainless steel

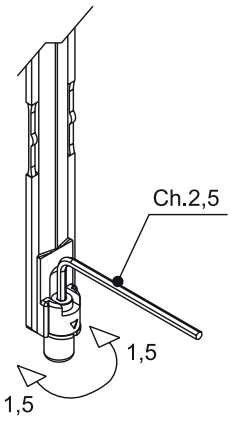
One-way bolt



Two-way bolt

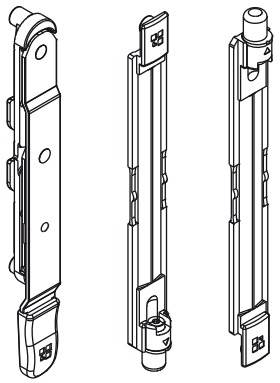


Adjustment



Item code	Description	PROFILE CROSS - SECTION	Sash kit match	Window handle	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02585K	KIT FOR SECONDARY SASH-ADJUSTABLE BOLT	C001	02571K - 02574K - 02577K	One-way	X				10
02587K	KIT FOR SECONDARY SASH-ADJUSTABLE BOLT	C001	02571K - 02574K - 02577K - 02578K	Two-way	X				10

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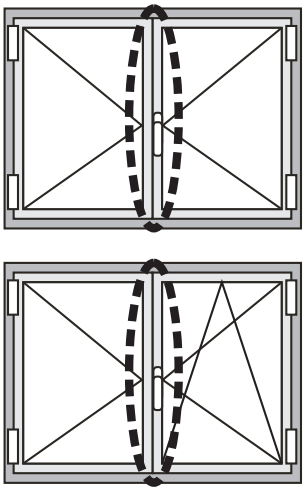


TWO-WAY BOLTS

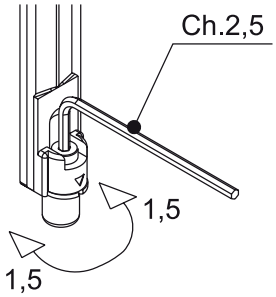
Functions
Two-way lever bolt with mechanism enabling the closing of both terminals at the same time.

Technical Features
The bolt is composed of a lever-operated mechanism that transmits two-way movement to the connecting brackets, the ends of which are fitted to the terminals with the adjustable bolt tip.
Specifically designed for use on overlap profiles with double channel.
The mechanism is fixed by means of a specific element with two grub screws for clamp fixing and hence without having to machine the profile.
The body has two vibration-damping appendices.
Adjustment
The terminals are provided with a bolt tip enabling 1.5 mm adjustment in the closed position.

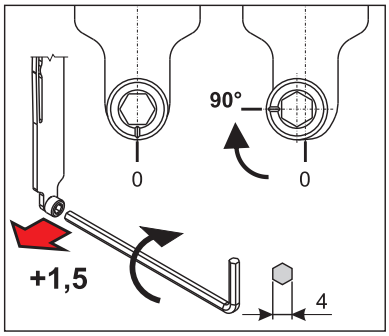
Materials
Mechanism body, terminal and bolt tip in zamak with GS Silver Plus finish (over 500 hours of corrosion resistance).
Terminal and bolt tip article 02011 in stainless steel.
Mechanism lever and connecting bracket in stainless steel.
Lever cover in polyamide.
Screws and grub screws in stainless steel.



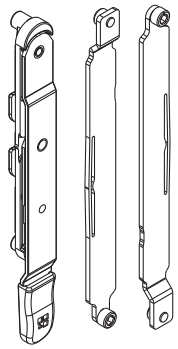
Type 1

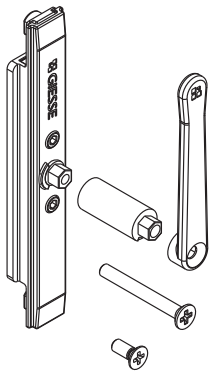


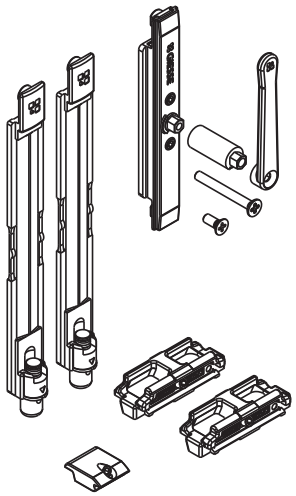
Type 2



Type 3

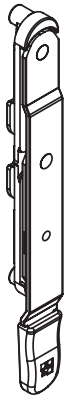




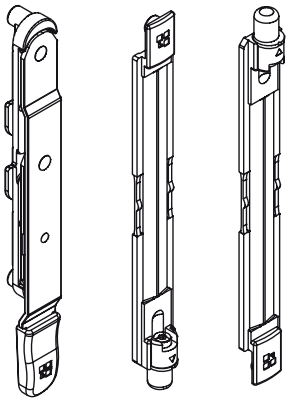


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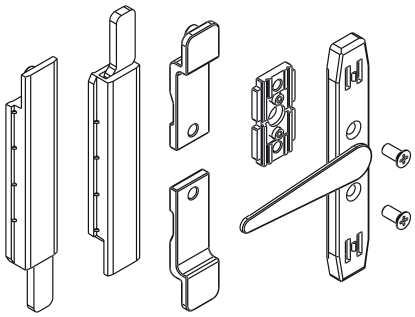
Type 4



Type 5

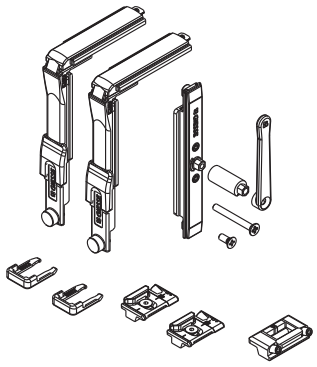


Type 6



Item code	Description	PROFILE CROSS - SECTION	Type	Groove (mm)	Adjustment (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02011	FUTURA TWO-WAY BOLT	C002	1	13,2 ÷ 16,8	+ 1,5	X				10
02156	TWO-WAY MECHANISM	-	2	-	-	X				10
02178	FUTURA TWO-WAY BOLT	-	3	15 ÷ 20	± 1.5	X				10
02189K	TWO-WAY LEVER MECHANISM	-	4	-	-	X				20
02191K	FUTURA TWO-WAY BOLT	-	5	15 ÷ 20	± 1.5	X				10
02195K	FUTURA TWO-WAY BOLT	-	5	13,2 ÷ 16,8	± 1.5	X				10

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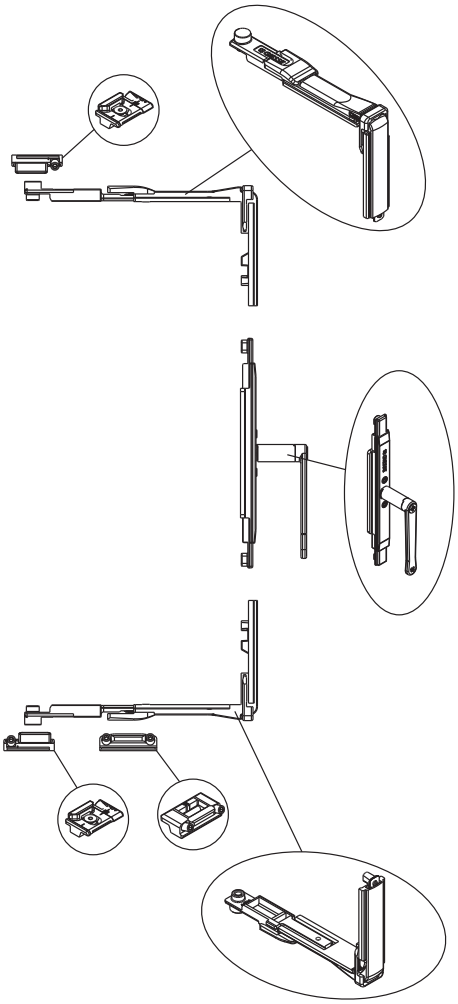


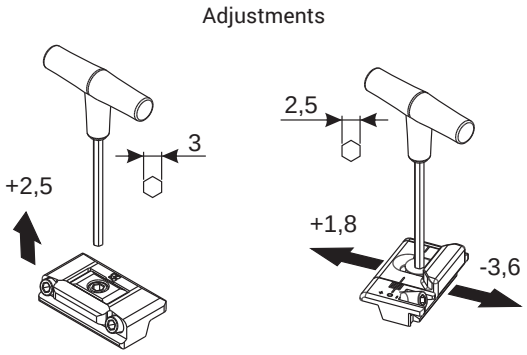
PERIMETRAL CLOSING

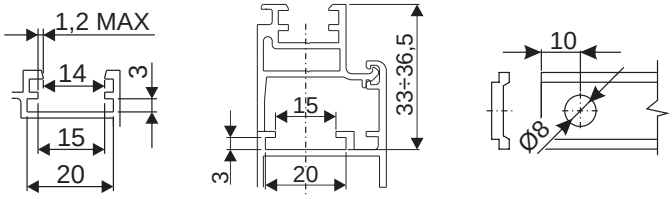
Provides perimeter locking of the secondary sash on the frame top and bottom cross beams. It can be used both on double casement windows (additional profile) with double channel size 15/20 mm and inside the overlap, on the sash profile on which the overlap is fitted.

Technical features
The perimetral closing is composed of a two-way lever mechanism (which has an extension in case the hardware slides under the overlap profile), two Futura corner drives, two adjustable locking strikers and a raiser.
The mechanism is fixed with the contrast grubscrews on the profile. This device enables fully closing the secondary sash, while also being able to increase the number of points by adding closing pawls and their strikers onto the polyamide rod that joins with the corner drives.

Materials
Corner drive, closing striker, mechanism, extension and lever in GS Silver Plus zamak
Sash-raiser striker made of polyamide
Screws and grub screws in steel

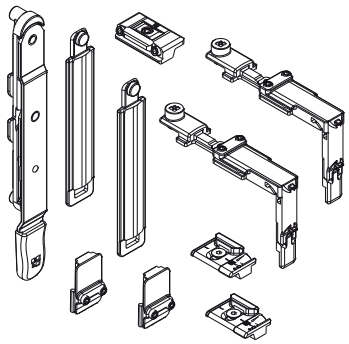






Item code	Description	Groove (mm)	Adjustment (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02179	PERIMETRAL TWO-WAY FASTENING MECHANISM	15 ÷ 20	+ 1.8 / - 3.6	X				10

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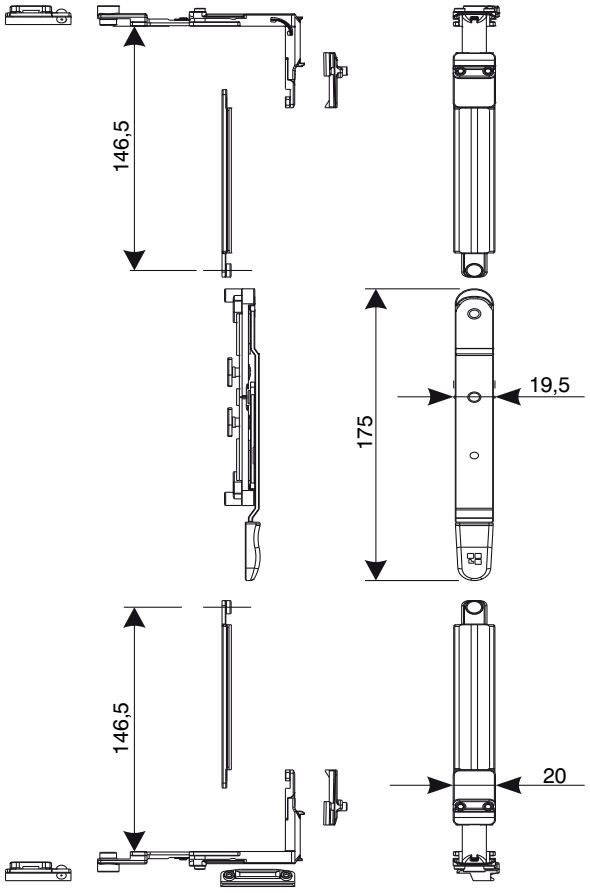


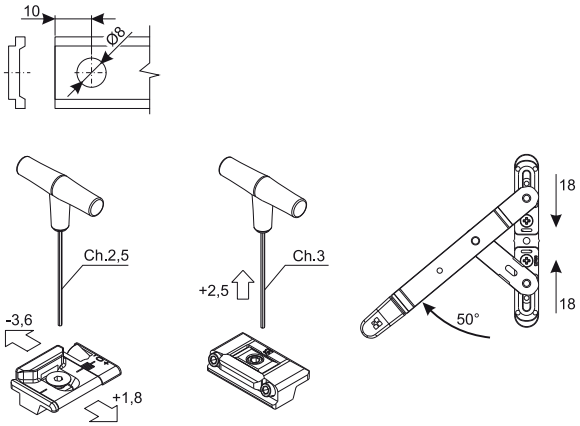
FUTURA DOUBLE CASEMENT WINDOW PERIMETRAL FASTENING MECHANISM

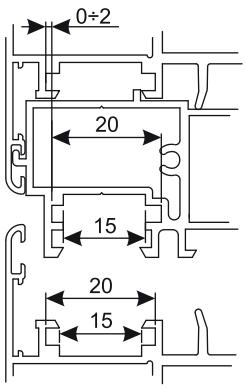
Provides perimeter locking of the secondary sash on the frame top and bottom cross beams. For use on secondary sashes (additional profiles) with double channel of dimensions 15 to 20 mm.

Technical Features
The perimetral closing for secondary sash consists of a two-way lever mechanism, two corner bolts and respective strikers. This product enables total fastening of the secondary sash with the creation of several locking points (two standard with the possibility of creating as many as necessary, adding pawls on the connection rod and locking strikers on the frame) on the frame cross beams.

Materials
Connection rods, corner drive and closing striker made of zamak
Mechanism body made of zamak
Mechanism lever and connecting bracket in steel
Cover for lever and lifter striker made of polyamide
Screws and grub screws in steel

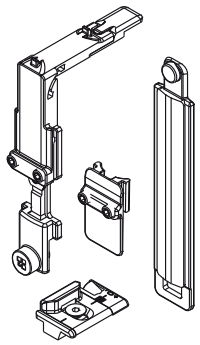






Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02186K	PERIMETRAL FASTENING MECHANISM FOR FUTURA SECONDARY SASH	silver plus	X				10

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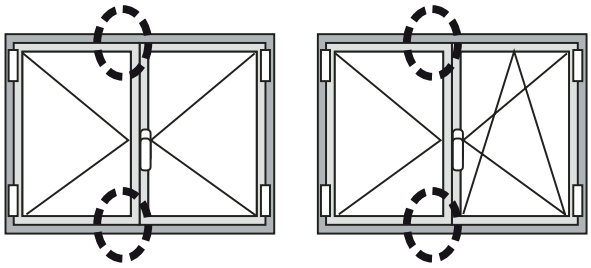


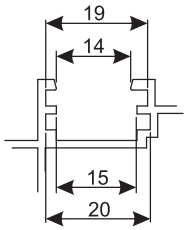
FUTURA CORNER BOLT

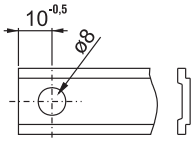
Corner bolt enabling the locking of secondary sashes on the top and bottom cross beams of the frame. For use on secondary sashes (additional profiles) with double channel of dimensions 15/20 mm (bottom channel).

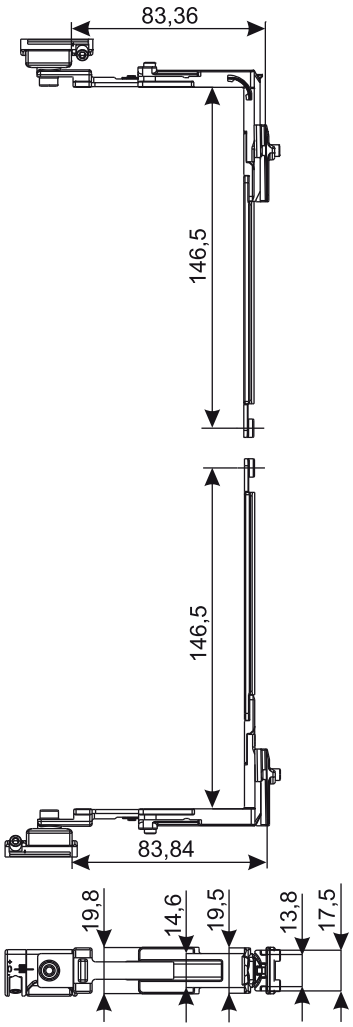
Technical Features
The bolt is equipped with an adjustable striker which allows a compression adjustment of ± 1.8 mm.
The application requires the beat continuity plugs to be appropriately unloaded in order to allow the hardware to pass on the top and bottom cross beams.

Materials
Corner drive, connection rod, locking striker, drive clip in zamak GS PLUS SILVER (OVER 500h corrosion resistance)
Screws and grub screws in stainless steel









Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04045K	FUTURA CORNER BOLT	silver plus	X				10

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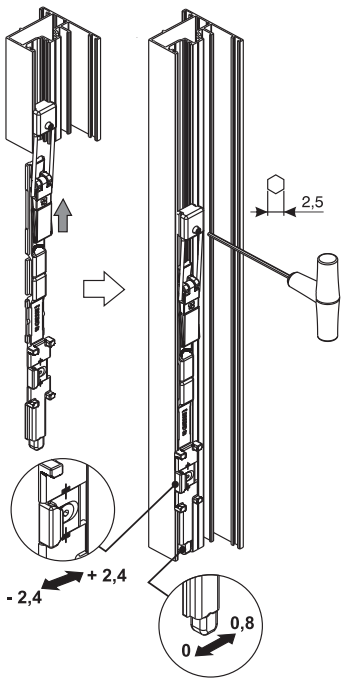
INCA BOLTS

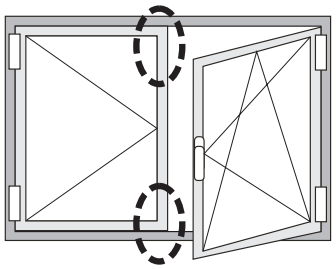
Functions
Bolt for tilt-and-turn secondary sash featuring zamak terminals equipped with adjustable lock strikers for the pawls of the corner drive and of the bolt tip of the tilt-and-turn window.

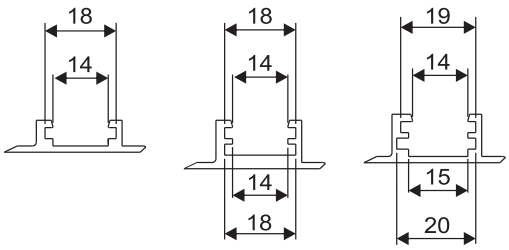
Technical Features
The strikers supplied enable the same adjustment of ±2.4 mm.
Specifically designed for use on assembled profiles with a single channel, although also compatible with double channel profiles.
The two terminals are equipped with a steel bolt tip that can be combined with an eccentric bushing for closing position adjustment.

Materials
Terminal, bolt tip and fixing block in GS Silver Plus zamak.
Connection rod and bolt tip in polyamide.
Mounting grubscrew for bolt and bolt tip in zinc plated steel.

Assembly and adjustment







Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04280	INCA BOLT		X				5
04282K	T/T FUTURA SECONDARY SASH BOLT	E.G. - frame 14/18 - silver plus	X				5

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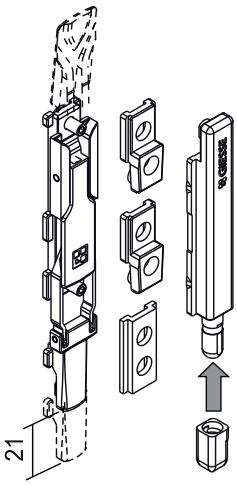


TOTEM BOLTS

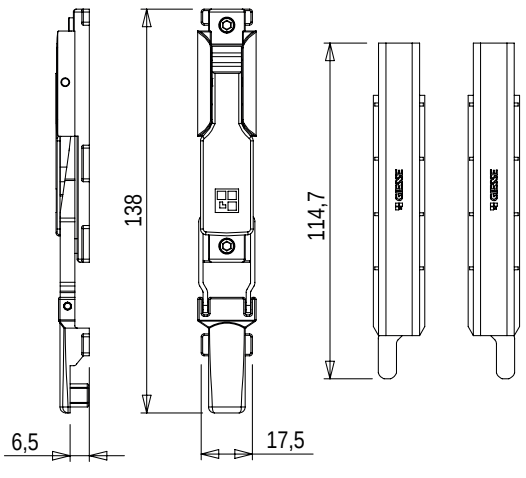
Functions
One-way lever bolt to mount in a channel, indicated in doors made with window profile.

Technical Features
Bolt suited for mounting on doors for frequent use (use category 4 - very heavy duty use - In compliance with EN12051: 1999).
Reversible it is applied both at the top and at the bottom of the door.
Bolt tip with cut-proof characteristics, in order to ensure a great hold on the strikers and high break-in security.
Bolt tip stroke 21 mm.
Compression adjustment +0.6 mm on the strikers with the eccentric bush provided (except on the version for groove 15x18).
Fixing to the profile with the two pre-assembled fixing grub screws, without any machining on the profile.
It is possible to extend the bolt by using the specific rod in the series, positioned between the connecting element and the terminal.
Mechanisms and bolt tips can also be ordered separately so as to allow different combinations.

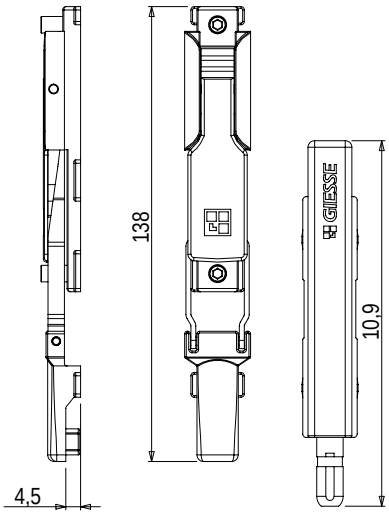
Materials
• Operating base and element for connecting to the bolt tip made of zamak
• Zamak operating lever with polished chrome (high corrosion resistance)
• Spring, connecting brackets, pins and fixing grub screws made of stainless steel
• Bolt tip made of cut-proof carbonitrided steel with Giesse Silver Plus finish (up to 500 h corrosion resistance)
• Terminal, connecting block, bolt tip cap eccentric bush and “Z” blocks made of polyamide



Scheme for art. 02075
Dimensions of mechanism and bolt tip

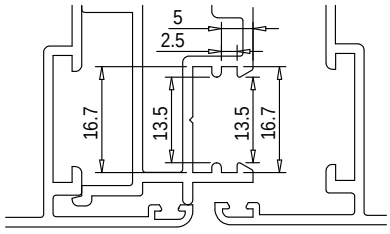


Scheme for art. 02071-02072-02073-02074
Dimensions of mechanism and bolt tip

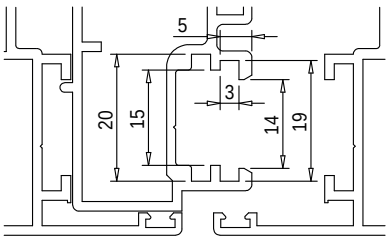


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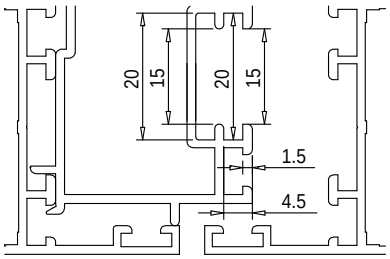
Sect. 1 - Groove 13.5x16.7



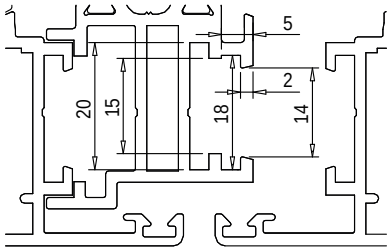
Sect. 2 - Groove 14x19



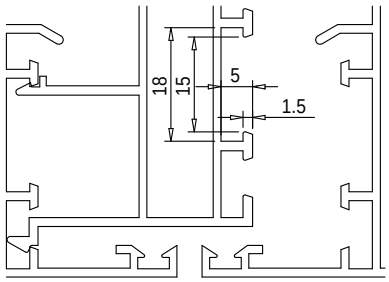
Sect. 3 - Groove 15x20



Sect. 4 - Groove 14x18

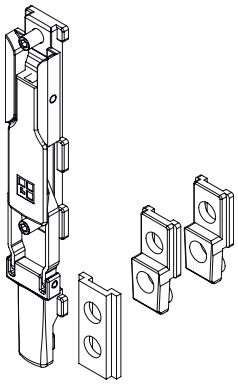


Sect. 5 - Groove 15x18



Item code	Description	Groove	Adjustment	Offset terminal	Dimensions bolt tip	Drawing	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02071	TOTEM BOLT	13.5x16.7	+ 0.6 mm	NO	Ø 8 mm	sect.1			X		10
02072	TOTEM BOLT	14x19	+ 0.6 mm	NO	Ø 8 mm	sect.2			X		10
02073	TOTEM BOLT	15x20	+ 0.6 mm	NO	Ø 8 mm	sect.3			X		10
02074	TOTEM BOLT	14x18	+ 0.6 mm	NO	Ø 8 mm	sect.4			X		10
02075	TOTEM BOLT	15x18	-	YES	4x6 mm	sect.5			X		5
02177K	TOTEM BOLT	14x18	+ 0.8 mm	NO	Ø 6 mm	sect.4	X				10

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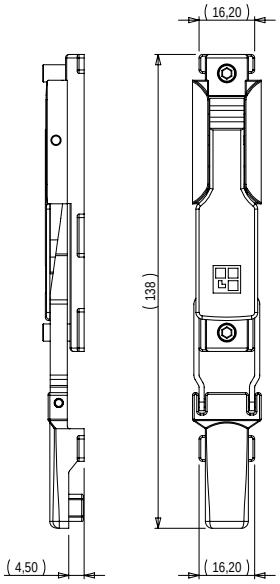


TOTEM MECHANISMS

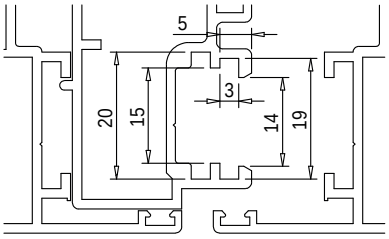
Functions
Zamak lever mechanism to be combined with Giesse fastening mechanism terminals.

Technical Features
Reversible mechanism suitable for application on doors for frequent use, to be applied in a channel both at the top and at the bottom of the door.
Can be combined with the corresponding terminals using the connecting block supplied with the mechanism or with the specific rod in the series, cut to the desired size for the bolt extension.
Fixing to the profile with the pre-assembled fixing grub screws, without any machining on the profile.

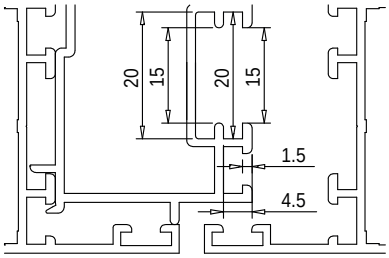
Materials
• Operating base and element for connecting to the bolt tip made of zamak
• Zamak operating lever with polished chrome (high corrosion resistance)
• Spring, connecting brackets, pins and fixing grub screws made of stainless steel
• Connecting block and "Z" blocks made of poly-amide



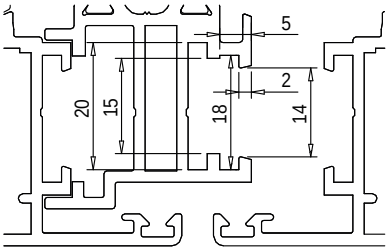
Sect. 2 - Groove 14x19



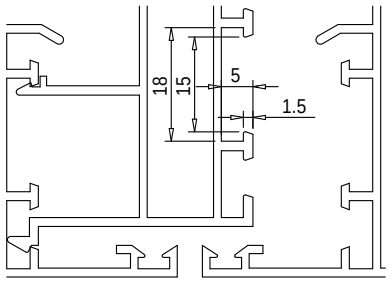
Sect. 3 - Groove 15x20



Sect. 4 - Groove 14x18

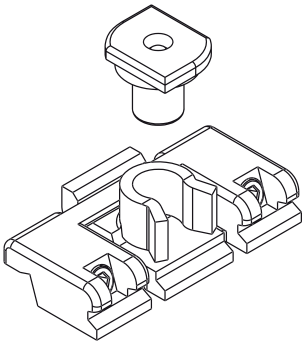


Sect. 5 - Groove 15x18



Item code	Description	Groove	Drawing	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02742	TOTEM MECHANISM	14x19	sect.2			X		10
02743	TOTEM MECHANISM	15x20	sect.3			X		10
02744	TOTEM MECHANISM	14x18	sect.4			X		10
02745	TOTEM MECHANISM	15x18	sect.5			X		10

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SASH STOP

Functions

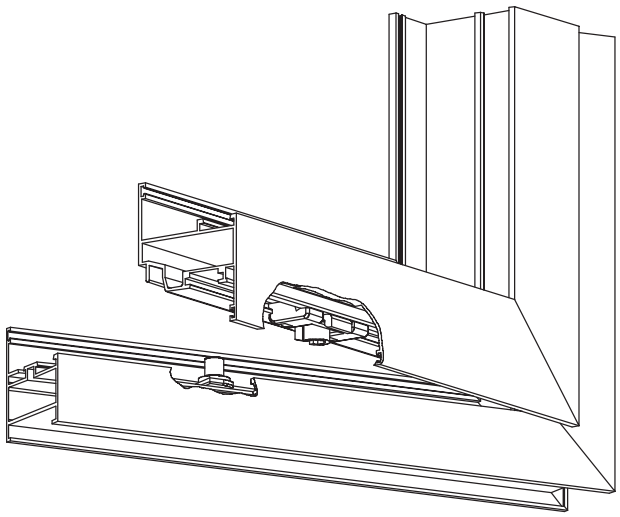
The sash stop is fitted on sash casements of central gasket aluminium frames with the function of keeping the sash locked in the closed position. The casement can be unlocked by simply pressing on the casement.
Invaluable for French windows and balcony doors.

Technical Features

The sash stop is fitted by clamping in the profile channels, therefore very simple and fast because there is no machining.
Fitting is possible also at a later time, at the discretion of the window maker or customer.
With the holding device activated the sash can be opened or closed by applying manual pressure without having to operate a release device.
Highly recommended for French windows (often without locks operated from the outside) which require locking on closing (after exiting) to avoid loss of warm or conditioned air to the outside.

Materials

Striker and pin in fibreglass loaded polyamide
Polyamide spring
Stainless steel grub screws



Item code	Description	PROFILE CROSS - SECTION	Colour	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02198	SASH STOP	C007-C008	Black	X				50
02198K	SASH STOP	C007-C008	Grey	X				50
02199	SASH STOP	C001-C002-C004-C011-C012-C013-C014-C015-C016-C017	Black	X				50

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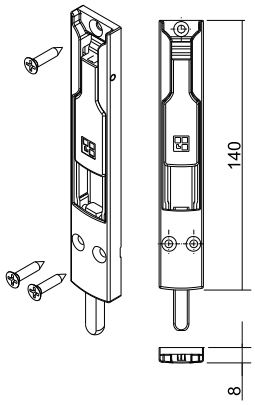


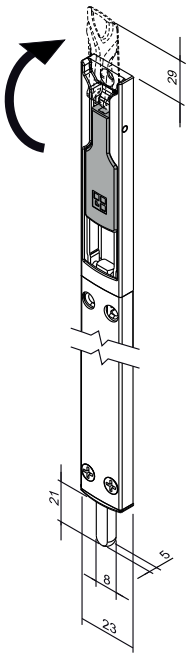
MAYA BOLTS

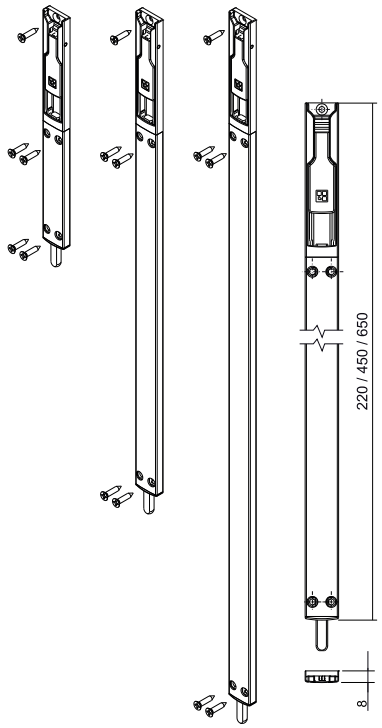
Functions
One-way lever bolt with reduced size for door profile.

Technical Features
Bolt suited for mounting on doors for frequent use (use category 4 - very heavy duty use - In compliance with EN12051: 1999).
Reversible it is applied on the profile, both at the top and at the bottom of the door.
Bolt tip with features of high break-in security.
Bolt tip stroke 21 mm.
Section of the bolt tip 8x5 mm.
Fixing to the profile with self-tapping screws.
Modular protective cover in aluminium.
Available in lengths of 140, 220, 450 and 650 mm to choose from depending on the best position for the thrust lever, depending on the height of the door.
Possible also in various other lengths, depending on the particular application needs.

Materials
- Body made of painted zamak
- Zamak operating lever with polished chrome (high corrosion resistance)
- Extruded aluminium modular cover
- Spring, connecting brackets, pins and fixing screws made of stainless steel
- Stainless steel bolt tip (high corrosion resistance)







Item code	Description	Length	Dimensions bolt tip	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02080	MAYA BOLT	140 mm	8x5 mm			X		10
02081	MAYA BOLT	220 mm	8x5 mm			X		10
02082	MAYA BOLT	450 mm	8x5 mm			X		10
02083	MAYA BOLT	650 mm	8x5 mm			X		10

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DOOR TOTEM BOLTS



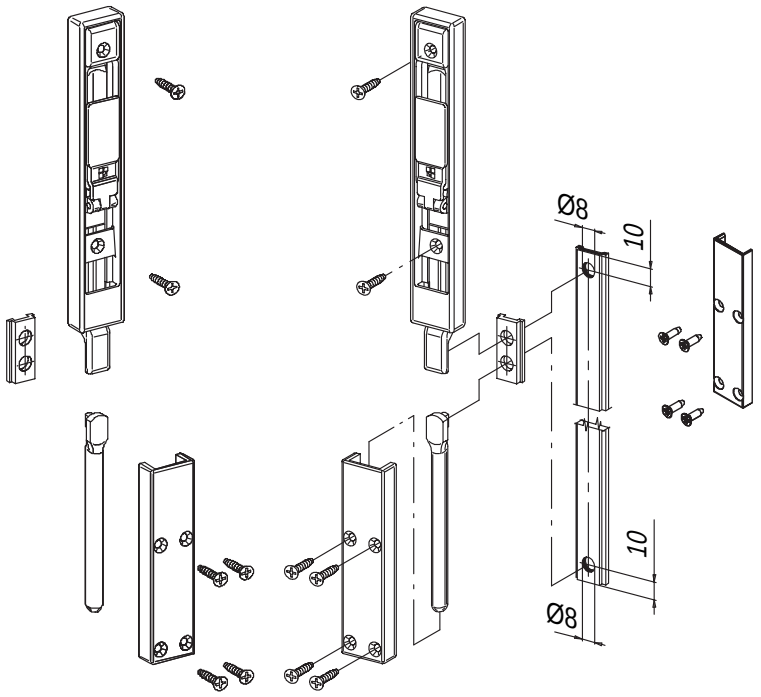
Functions
One-way lever bolt for door profile.

Technical Features
Bolt suited for mounting on doors for frequent use.
Reversible it is applied on the profile, both at the top and at the bottom of the door.
Bolt tip with features of high break-in security.
Bolt tip stroke 20 mm.
Section of the bolt tip 8x7 mm.
Fixing to the profile with self-tapping screws.
It is possible to extend the bolt by using the specific rod in the series, positioned between the connecting element and the terminal.

Materials
Slider and block in black painted zamak
Body and bolt tip guide in polyamide
Cut-proof 8x7 mm bolt tip in carbonitrided steel
Operating lever in zamak with GS Silver Plus finish (up to 500 h corrosion resistance)
Spring, connecting brackets and pins in stainless steel
Polyamide connecting plate
Black oxidized aluminium fixing plate (only for art. 02185)
Blackened stainless steel fixing screws
Blackened stainless steel mounting grubscrew (only for art. 02185)

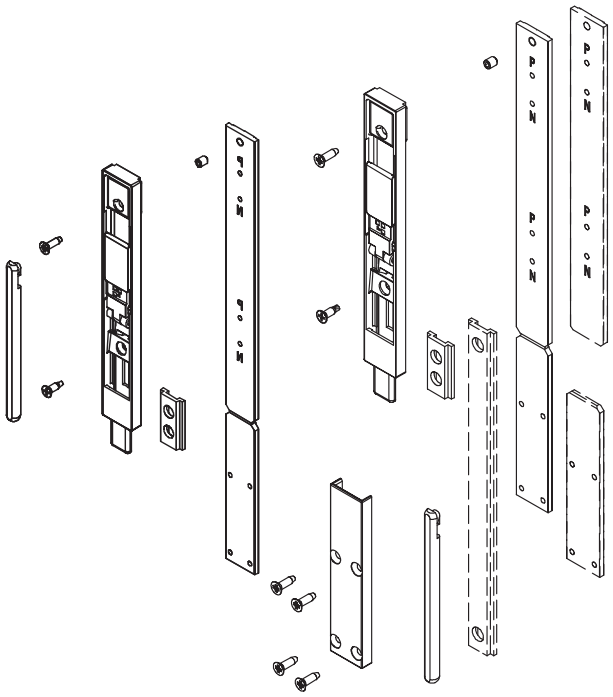
art. 02170

Application of extension with art. 02170



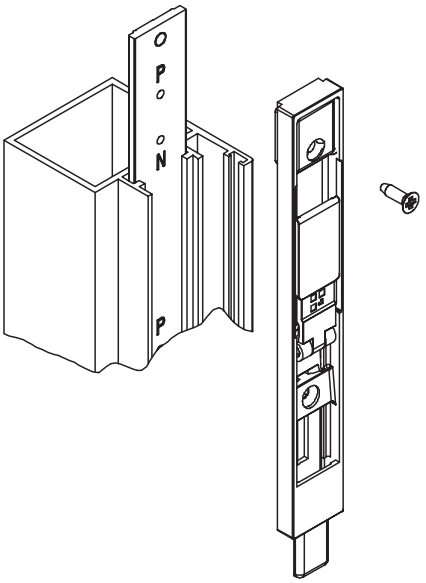
art. 02185

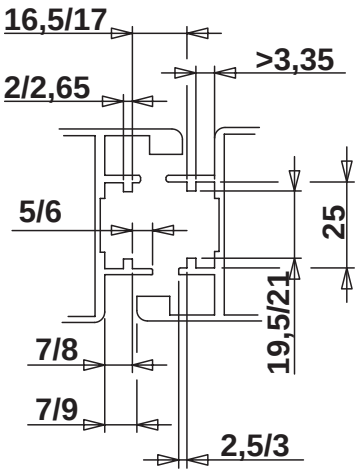
Application of extension with art. 02185



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Assembly art. 02185





Item code	Description	Dimensions bolt tip	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02170	TOTEM DOOR BOLT	8x7 mm	X				10
02185	TOTEM DOOR BOLT	8x7 mm	X				10

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PESOS BOLTS

Functions

One-way recessed lever bolt for doors.
To be combined with the aluminium front cover.

Technical Features

Bolt suited for mounting on doors for frequent use.
Reversible it is applied on the profile, both at the top and at the bottom of the door.
The lever operation allows you to gradually exert a great force on the bolt tip.
Bolt tip stroke 18 mm.
It is recessed, by machining the profile.
Prepared for a double drilling diameter, it uses operating rods of Ø 6 mm or Ø 8 mm.
Can be combined with the casing that can be painted in standard RAL colours to be fitted onto the body of the bolt.
The bolt can be combined:
• to the safety terminal Ø 8 mm with cut-proof characteristics, in order to ensure a great hold on the strikers and high burglar resistance. It is joined to the bolt with an M6 threaded die cut to size by the user
• to the reversible rod guide, with double holes for rods Ø6 and Ø8 to be applied on the uprights in the case of kickplates, to keep the terminal in line inside the tubular profile.

Materials

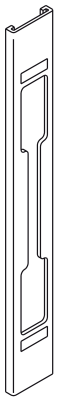
Bolt and front cover
• Body and lever made of die-cast zamak
• Tempered steel springs
• Extruded aluminium cover
• Stainless steel fixing screws

Security terminal
• Pin Ø8 made of cut-proof carbonitrided steel

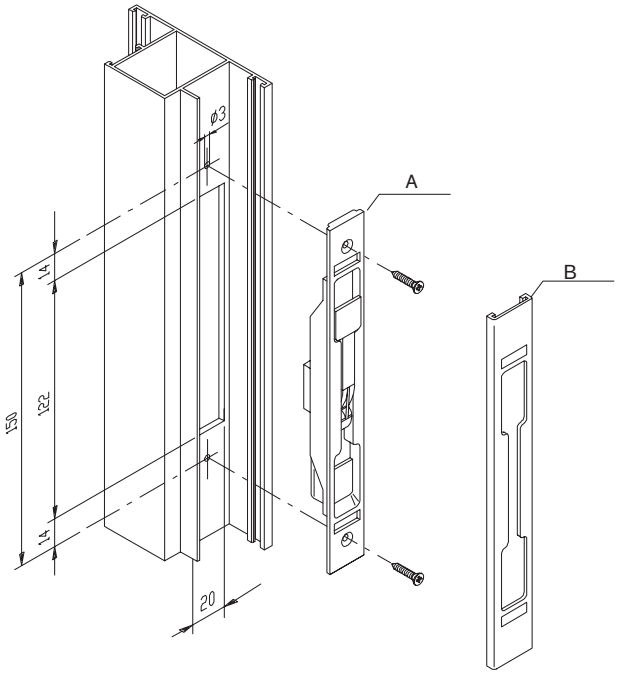
Rod guide
• Zinc plated steel



art. 02151

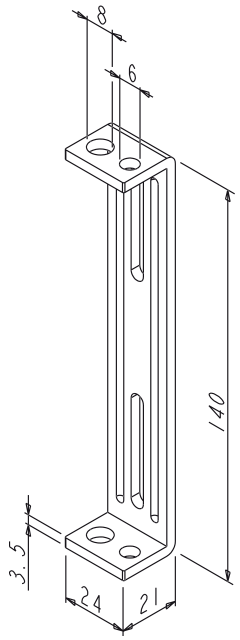


A = art. 02150
B= art. 02151

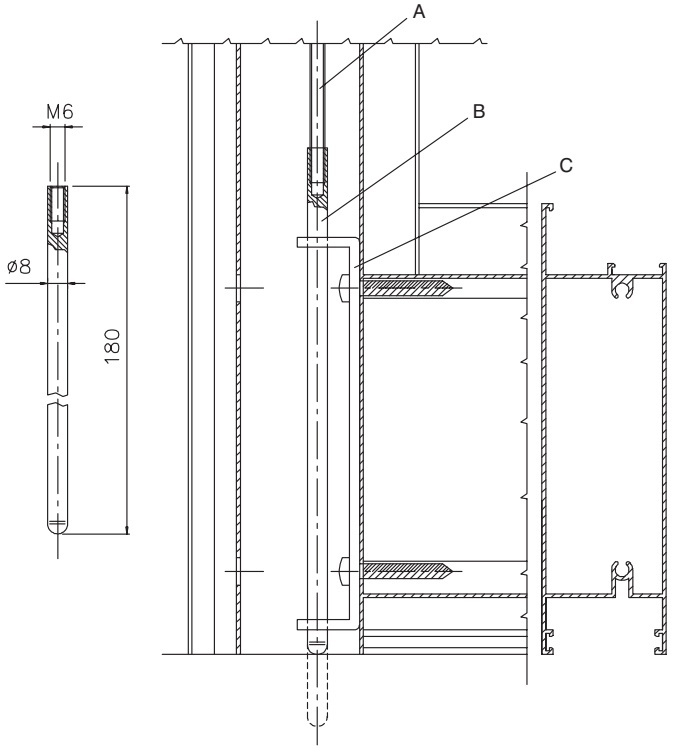


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art. 02340



A = M6 threaded die
B= terminal art. 02158
C= rod guide art. 02340



Item code	Description	Dimensions bolt tip	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02150	PESOS BOLT	Ø6/Ø8 mm	X				10
02151	PESOS FRONT COVER		X	X	X	X	50
02158	SECURITY TERMINAL FOR PESOS	Ø8 mm	X				50
02340	GUIDE FOR ROD		X				50

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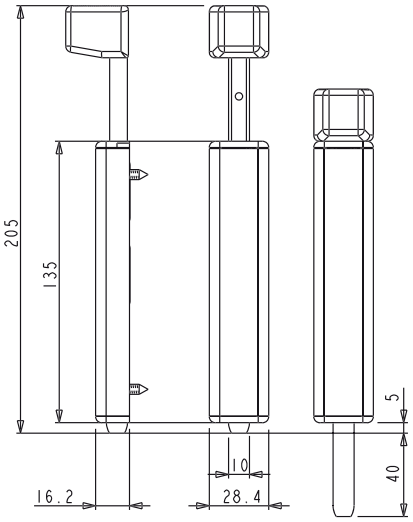


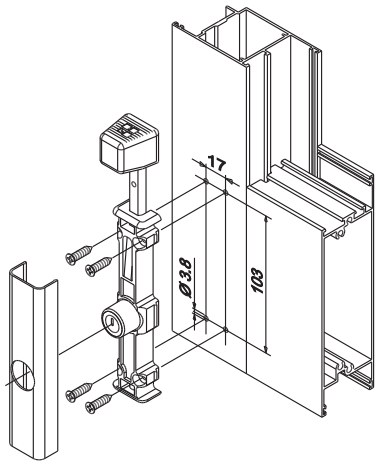
BULL BOLTS

Functions
Front application one-way bolt for doors.

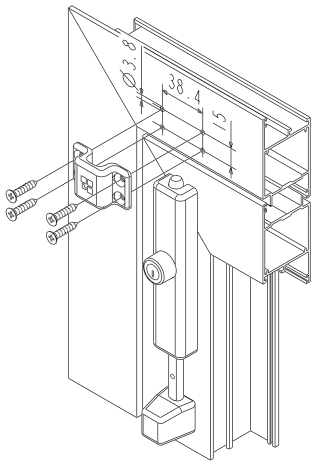
Technical Features
Bolt suited for mounting on doors for frequent use.
Normally used as an extra security fastening mechanism on doors of any type.
Reversible it is applied on the profile, both at the top and at the bottom of the door.
Bolt tip in stainless steel (corrosion-proof) of Ø 10 mm.
Bolt tip stroke 40 mm.
Notch positioning for immediate perception of the opening and closing position (Giesse patented system).
Fixing to the profile with self-tapping screws. The bolt body may be used as a template for drilling fixing holes.
The casing to be snap-fixed on the body of the bolt hides the fixing screws.
Available in version with key and without key.
Can be combined with the front mounting striker plate, for fastening on the top cross beam of the door or of a counter-frame.
The striker is equipped with no.4 shims for application to profiles with a step.

Materials
Bolt
• Body made of die-cast zamak with GS 500 finish
• Stainless steel bolt tip (high corrosion resistance)
• Black polyamide handle
• Fixing screw cap casing made of extruded aluminium
• Stainless steel fixing screws
Striker plate
• Striker plate made of die-cast zamak with GS 500 finish
• Polyamide shims (black)
• Blackened stainless steel fixing screws





Bull bolt striker assembly



Item code	Description	Version	Dimensions bolt tip	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02180	BULL BOLT	without key	Ø 10 mm	X	X	X	X	5
02181	BULL BOLT	with key	Ø 10 mm	X	X	X	X	5
02182	BULL BOLT STRIKER PLATE			X				20

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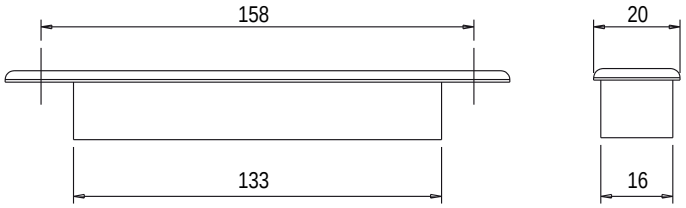
STELVIO BOLT

Functions
One-way recessed lever bolt for doors.

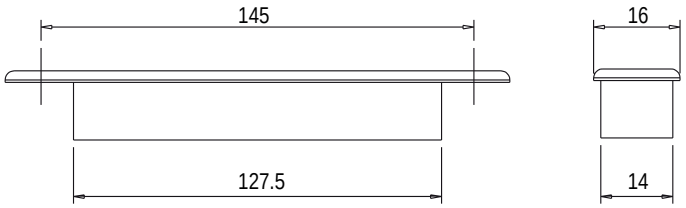
Technical Features
Bolt suited for mounting on doors for frequent use.
Reversible it is applied on the profile, both at the top and at the bottom of the door.
The lever operation allows you to gradually exert a great force on the bolt tip.
Bolt tip stroke 16 mm.
It is recessed, by machining the profile.
Compatible with threaded rods of Ø 6 mm.
Two versions are available, with different C/C distance for fixing to the profile.

Materials
- Extruded aluminium body
- Internal fastening mechanisms and levers made of polyamide
- Tempered steel springs
- Connecting brackets and fixing screws made of zinc plated steel

Article 02101

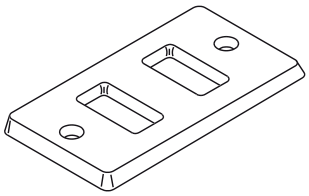


Article 02102



Item code	Description	C/C distance	Width	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02101	STELVIO BOLT	158 mm	20 mm	X	X	X		50
02102	STELVIO BOLT	145 mm	16 mm	X	X	X		50

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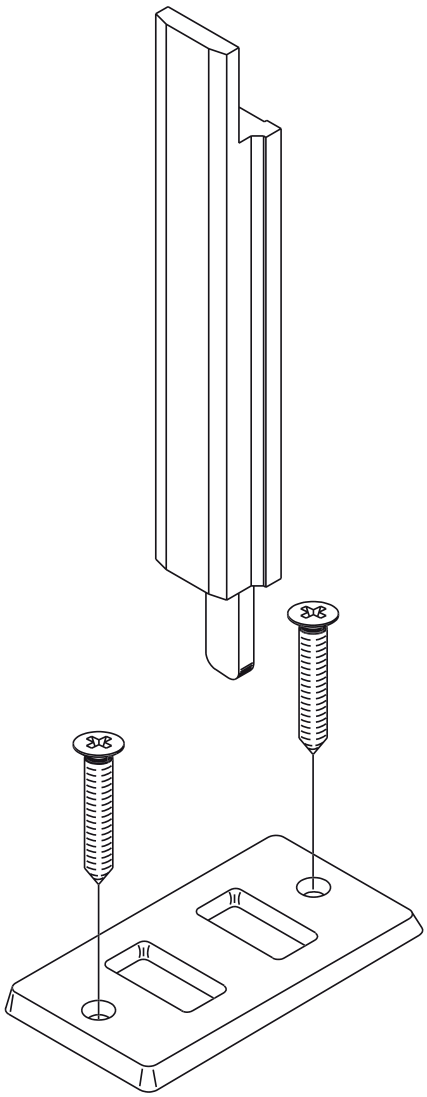


ROD STRIKER PLATE FOR SILL

Stainless steel plate to be mounted on the sill.

Technical features
Specially designed to receive the tips of the GIAP bolt.
Plate to be mounted on the sill, for terminals of the locking rods and bolts with cross section 6x4 mm and 11x4 mm.
Arranged with two fixing holes.
To be used on the floor in the door central profile cross-sections in combination with bolts for R40, R50, R50TT, R60TT.

Materials
Stainless steel



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01320	ROD STRIKER PLATE for sill	stainless steel	X				100

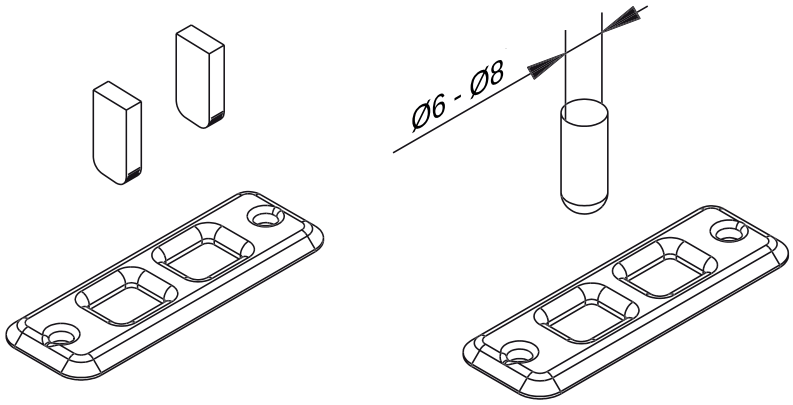
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ROD STRIKER PLATE FOR SILL

Stainless steel plate to be mounted on the sill.
Plate to be mounted on the sill to be combined with the bolts with terminal Ø 6 mm or Ø 8 mm, using the most suitable passage.

Materials
Stainless steel plate



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01326	ROD STRIKER PLATE FOR SILL		X				100

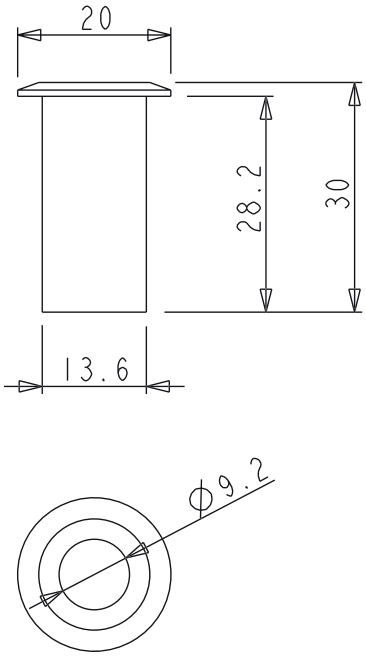
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THRESHOLD BUSH WITH SHUTTER

Floor bush, for doors or windows without counter-frame, where it is necessary to use the threshold as a counter-frame
The bush is equipped with a device which closes the hole when the bolt tip is not inserted, preventing dust from clogging the hole.
To be combined with bolts with bolt tip Ø 8 mm.

Materials
Brass bush and shutter
Spring in stainless steel



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02144	THRESHOLD BUSH WITH SHUTTER		X				100

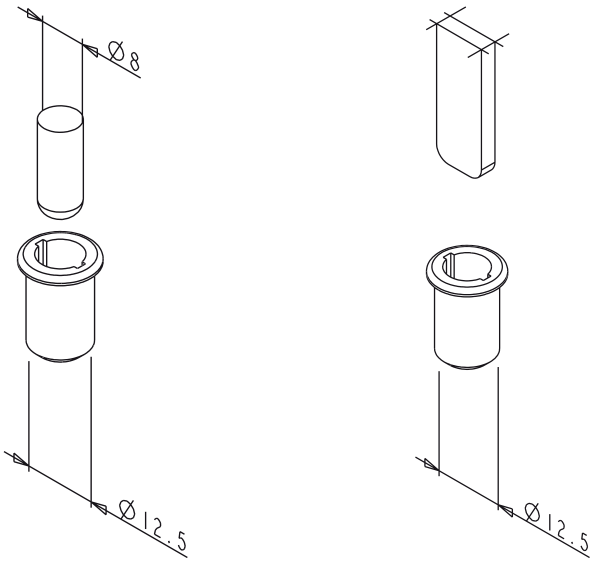
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THRESHOLD BUSH

Bush to be applied in the sill to receive the SUPERGIAP terminal, the mechanism terminal or the terminal coupled with the PESOS bolt.
To be combined with bolts with bolt tip Ø 8 mm and 4x9 mm.
It is secured to the sill with a hole of Ø 12 mm.

Materials
Brass



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02159	THRESHOLD BUSH		X				50

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BULL BOLT THRESHOLD BUSH

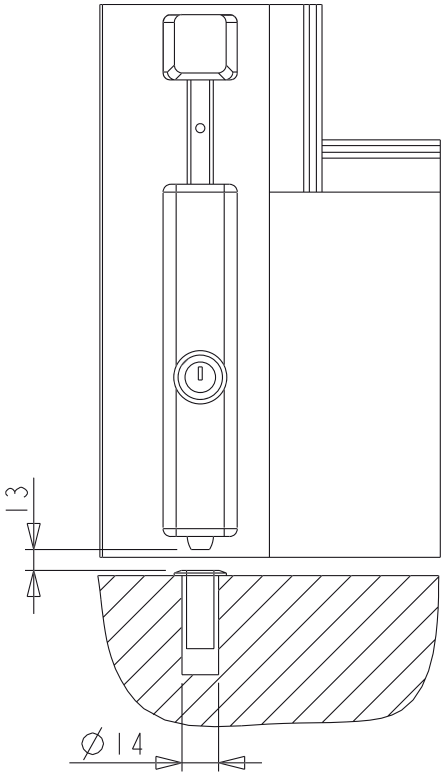
Floor bush to combine with BULL bolts (art. 02180-02181) in the types without a counter-frame, where the sill needs to be used as a counter-frame.

Technical features

The bush is fitted with a dust-proof device which closes the hole when the bolt tip is not inserted, preventing dust from clogging the hole.
The shape of the plate enables it to cover the area surrounding the hole in the floor, thereby improving the overall look of the fixture.
It is inserted into a Ø 14 mm hole drilled directly into the sill.

Materials

Brass bush
Brass shutter
Spring in stainless steel



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02183	BULL BOLT THRESHOLD BUSH		X				20

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DOOR STOP

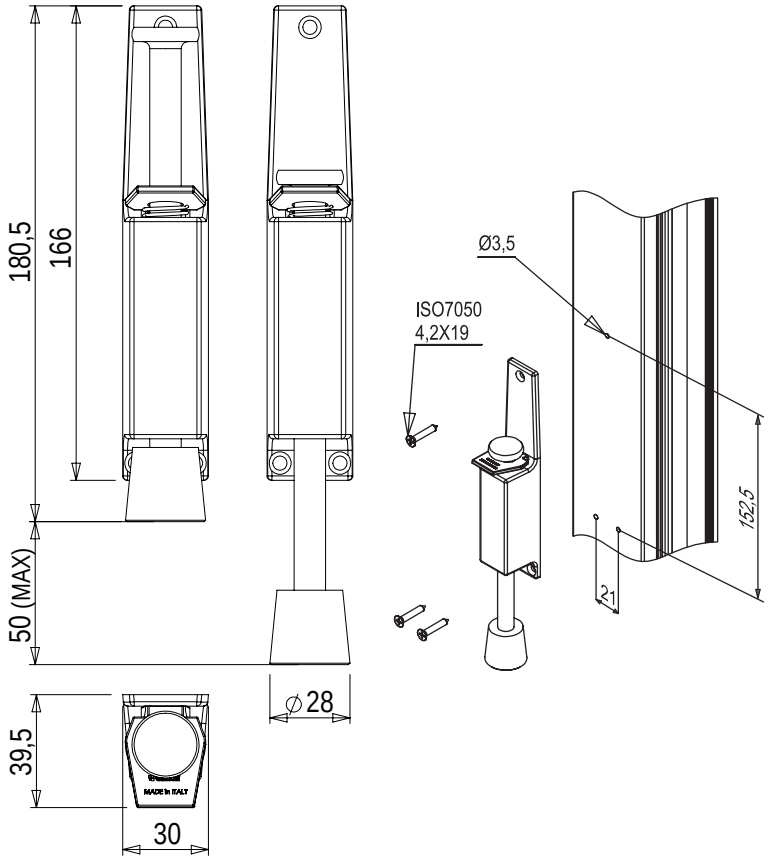
Door locking device.

Technical features

Pedal-operated door stop to block the door on the floor.
Easy to position, used to block the door in any position.
Significant locking capacity and good resistance even when subjected to intensive use.
The block is actuated by a piston, while opening only requires using the pedal.

Materials

Doorstop body made of aluminium
Piston and tab in zinc plated steel
Steel springs
Non-slip PVC plug



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03901	DOOR STOP		X				20

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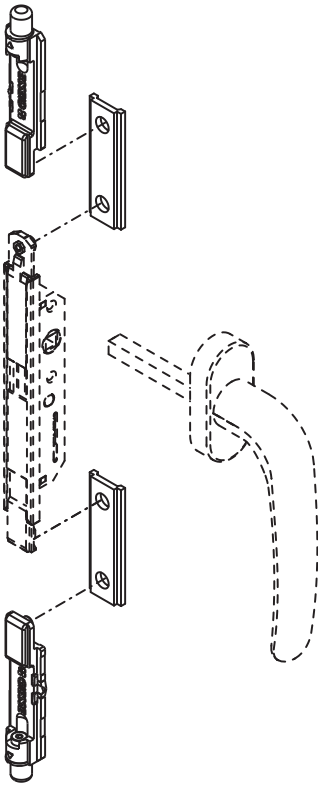
FUTURA ADJUSTABLE TERMINAL

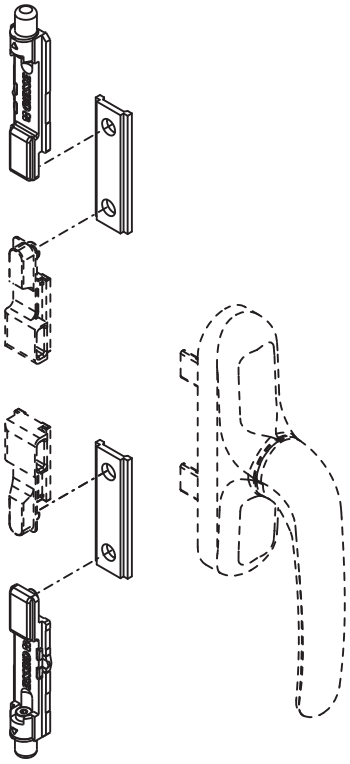
Technical features

Terminal equipped with adjustable offset terminal, to recover the play that can form during operation of the window.
For 20 mm groove.
The adjustment is +/- 1.25 mm.

Materials

Terminal and bolt tip in zamak with GS Silver Plus finish (over 500 hours of corrosion resistance)
Stainless steel screw





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02167K	FUTURA ADJUSTABLE TERMINAL	silver plus	X				40

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FUTURA ADJUSTABLE TERMINAL

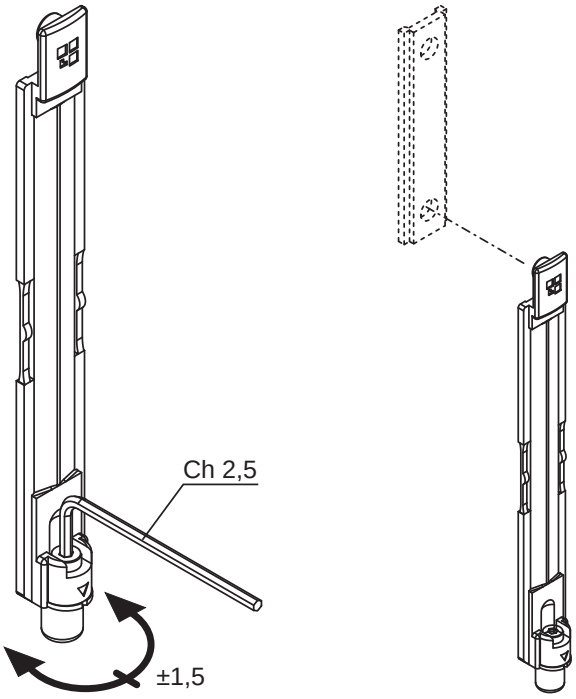
Technical features

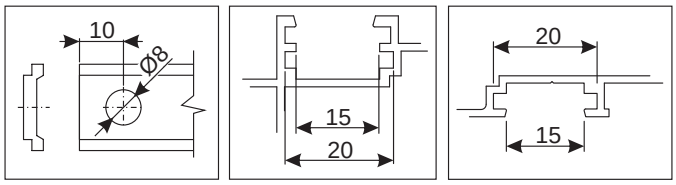
Adjustable terminal for use on main sash and on secondary sash (additional profiles) with channels of dimensions 15 to 20 mm.
The adjustable terminal allows compression adjustment of ±1.5 mm.

Materials

Body and terminal in GS Silver Plus zamak (over 500 hours of corrosion resistance)
stainless steel screw

Adjustment





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02188K	FUTURA ADJUSTABLE TERMINAL	silver plus	X				40

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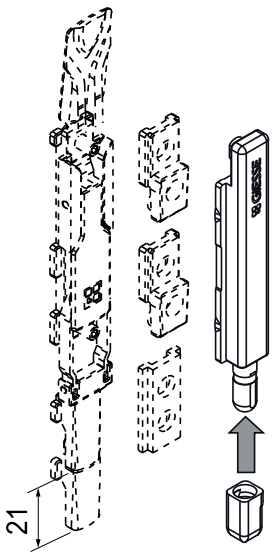


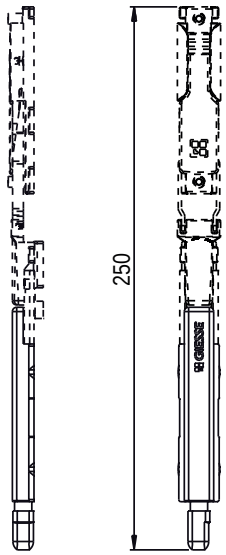
TOTEM TERMINALS

Functions
Polyamide terminal with steel bolt tip for fixing sashes to the frame cross beams.

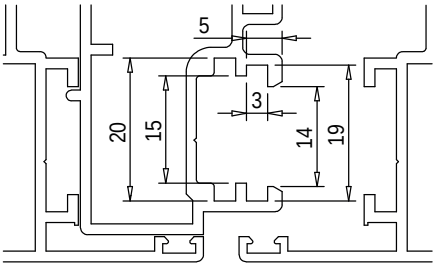
Technical Features
Bolt tip suited for mounting on doors for frequent use, with cut-proof characteristics, in order to ensure a great hold on the strikers and high break-in security.
Reversible it is applied both at the top and at the bottom of the door.
Stroke is 21 mm.
Compression adjustment +0.6 mm on the strikers with the eccentric bush provided with all versions, except for the one for groove 15x18.
Fixing to the mechanism using the connecting block supplied with the mechanism or with the specific rod in the series, cut to the desired size for the bolt extension.

Materials
Terminal and eccentric bush covering bolt tip in polyamide
Bolt tip made of cut-proof carbonitrided steel with Giesse Silver Plus finish (up to 500 h corrosion resistance)

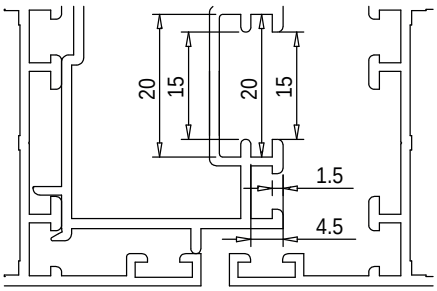




Sect. 2 - Groove 14x19



Sect. 3 - Groove 15x20



Item code	Description	Groove	Adjustment	Offset terminal	Dimensions bolt tip	Drawing	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02143N	TOTEM TERMINAL	15x20	+ 0.6 mm		Ø 8 mm	sect.3	X				50
02145N	TOTEM TERMINAL	14x19	+ 0.6 mm		Ø 8 mm	sect.2	X				50

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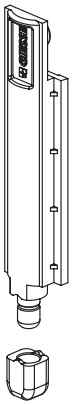
TERMINALS

Functions
Polyamide terminal for rods with steel pin for fixing sashes to the frame cross beams.

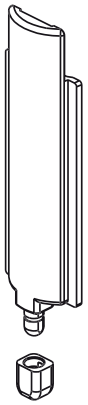
Technical Features
For the direct fixing where mounting is required in conjunction with the strikers, you will have to engage the supplied polyamide adjustable bush on the pin to achieve a perfect coupling.
To mount on GIESSE locking rods, in the same way the rod is mounted to the connecting block.

Materials
Body and bush in polyamide with fibreglass.
Terminal pin of zinc-nickel plated steel.

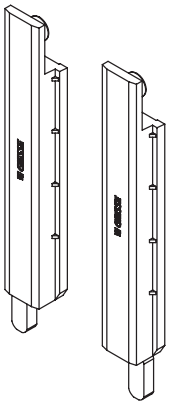
Type 1



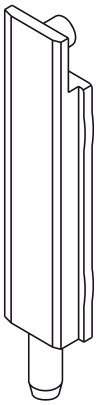
Type 2



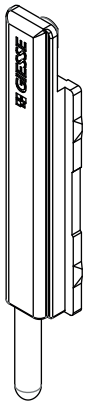
Type 3



Type 4



Type 5



Item code	Description	Type	Groove (mm)	Offset terminal	Adjustment (mm)	Colour	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02114	TERMINAL FOR RODS	1	15 ÷ 20	-	+ 0,8	Black	X				50
02114K	TERMINAL FOR RODS	1	15 ÷ 20	-	+ 0,8	Grey	X				50
02140	TERMINAL FOR RODS	2	23,6 ÷ 31	-	+ 0,8	Black	X				50
02141	TERMINAL FOR RODS	3	15 ÷ 18	-	-	Black	X				25
02141K	TERMINAL FOR RODS	3	15 ÷ 18	-	-	Grey	X				25
02142	TERMINAL FOR RODS	3	20 ÷ 23	-	-	Black	X				25
02146	TERMINAL FOR RODS	4	20 ÷ 23	-	-	Black	X				50
02161	TERMINAL FOR RODS	5	15 ÷ 20	YES	-	Black	X				25
02162	TERMINAL FOR RODS	5	15 ÷ 20	YES	-	Black	X				50
02163	TERMINAL FOR RODS	5	15 ÷ 20	YES	-	Black	X				50

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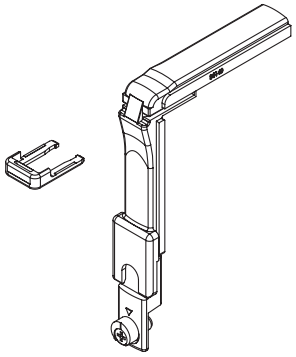
CORNER DRIVES

Functions
Component for moving the hardware from the cremone side to the upper and/or lower cross-beam.

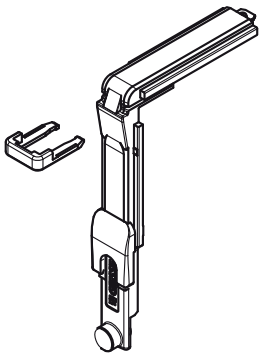
Technical Features
Reversible, right/left, it is mounted with no need to machine the profile.
Snap-fitting, it is removed with a screwdriver.
Some models are equipped with a fixed pawl with which, in combination with an adjustable striker, to make a locking point on the cremone side or on the cross-beam.

Materials
Body, connection device and clip made of zamak with GS Silver Plus finish (over 500 h of corrosion resistance)
Grub screws and plates in stainless steel

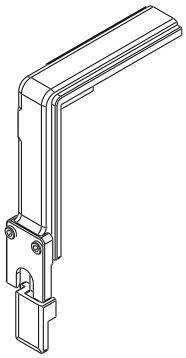
Art. 04017K



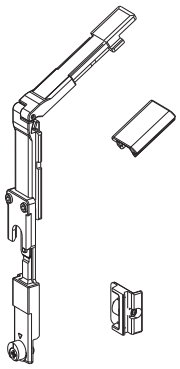
Art. 04019K



Art. 04020K



Art. 04023K



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04017K	FUTURA CORNER DRIVE	C007	-	-	X				10
04019K	CORNER DRIVE GROOVE 15/20 FUTURA	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C015-C016-C017	-	-	X				10
04020K	FUTURA CORNER DRIVE	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	-	-	X				50
04023K	VARIABLE CORNER DRIVE	C001-C002	-	-	X				10

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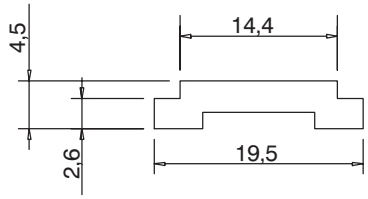
CONNECTION RODS

Functions
Connection rod for the operating mechanism.

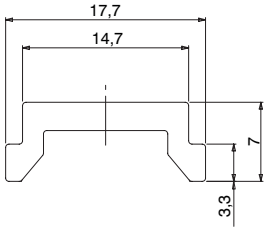
Technical Features
Specially made to be machined, as in the figure, by the semiautomatic machines PM008 and PA009 and by the automatic machines GS003, GS008, GS009 and TF10.
Roll packing makes for considerable reductions in overall dimensions, since a roll of diameter 90 cm contains the equivalent of over 40 bars of 6 m of aluminium.
The rod extension element enables fitting the incorrect movement safety striker and the fastening striker on the central upright on casements with two sashes where the bolt is located.

Materials
Fibreglass-reinforced polyamide

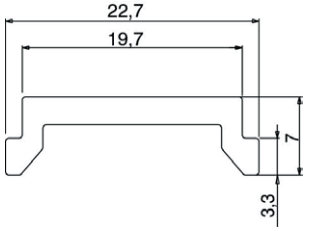
Art. 03524N



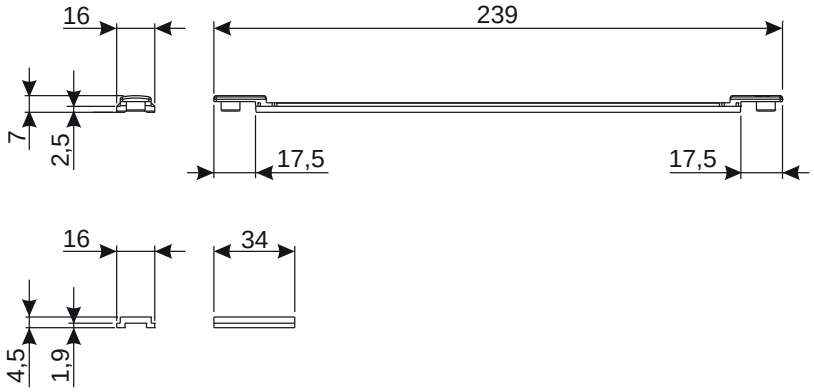
Art. 03525



Art. 03526N



Art. 02187-02187K



Item code	Description	PROFILE CROSS - SECTION	Groove (mm)	Colour	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02187	ROD EXTENSION COMPONENT	-	15 ÷ 20	Black	X				20
02187K	ROD EXTENSION COMPONENT	-	15 ÷ 20	Grey	X				20
03524N	CONNECTION ROD	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	15 ÷ 20	-	X				1
03525	CONNECTION ROD	C007	15 ÷ 18	-	X				1
03526N	CONNECTION ROD	C008	20 ÷ 23	-	X				1

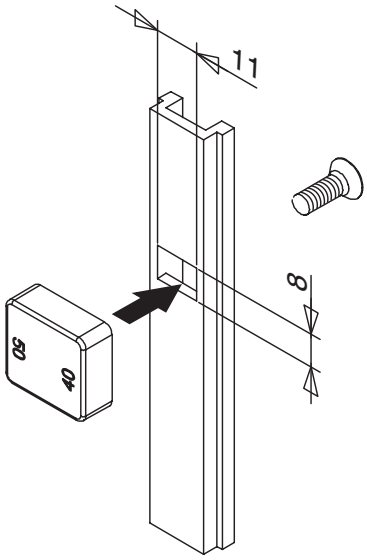
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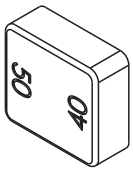


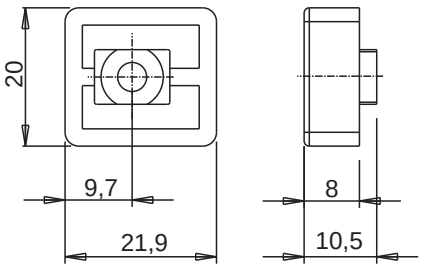
3RD FASTENING MECHANISM STRIKER

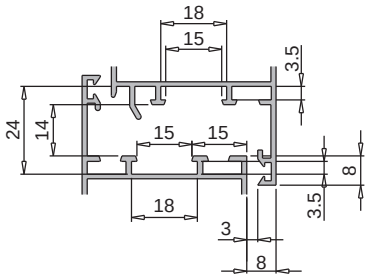
Functions
Component used to make additional locking points.

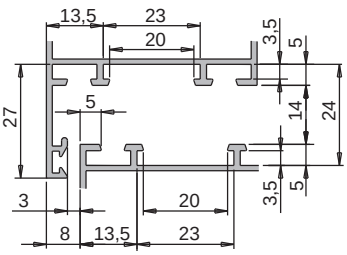
Materials
Polyamide body
Steel screw











Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01319K	3RD FASTENING MECHANISM STRIKER	C007-C008	X				200

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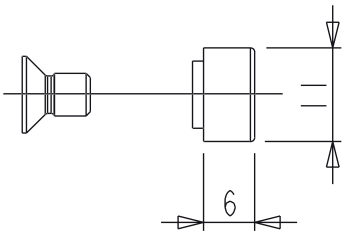


PIN FOR ADDITIONAL FASTENING MECHANISMS

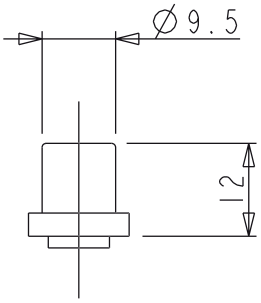
Functions
Zinc plated steel component to be used for making additional locking points using also the series striker.

Materials
Pin and screw of zinc plated steel.

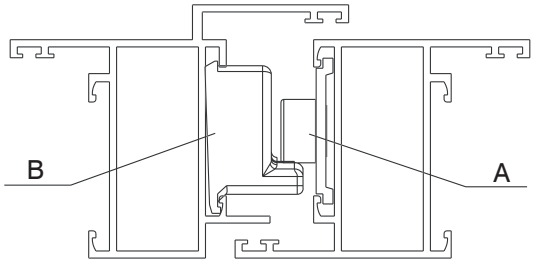
Art. 01332



Art. 02320

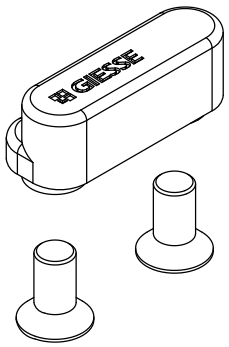


A = pin B= striker



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01332	PIN FOR ADDITIONAL FASTENING MECHANISMS		X				50
02320	PIN FOR ADDITIONAL FASTENING MECHANISMS		X				500

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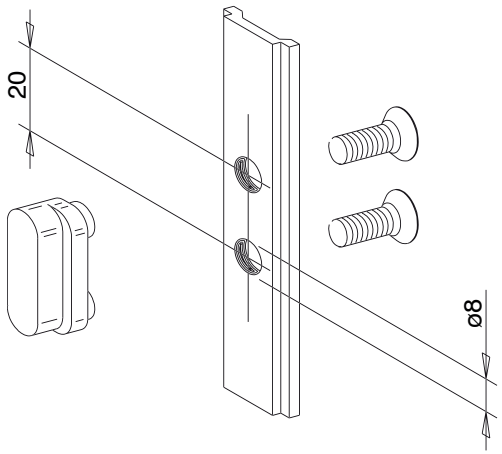


ADDITIONAL FASTENING MECHANISM COMPONENT

Functions
Component used to create supplementary locking points in combination with the series striker.

Technical features
Fixing quickly and safely simply by making 2 hole Ø 8 mm and fixing the striker with the screw supplied.

Materials
Black polyamide component
Zinc plated screws



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01333	ADDITIONAL FASTENING MECHANISM COMPONENT	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C011-C012-C013-C014-C015-C016-C017	X				50

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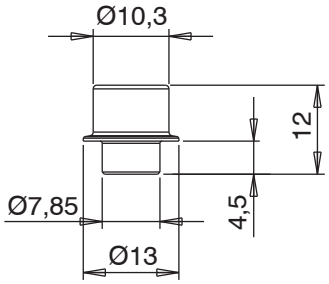


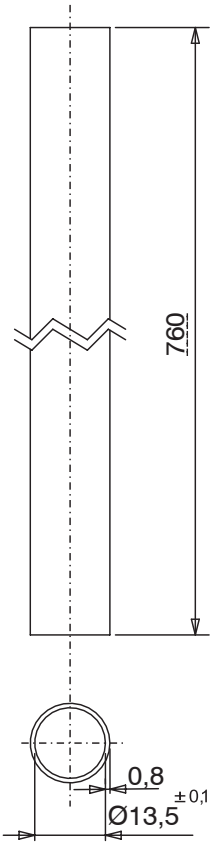
LOCKING PAWL

Functions
Fixed pawl to be combined with Giesse adjustable strikers, required to create a locking point.

Technical features
The pawls are supplied in specific tubes of 50.
The pawl installs to the rod with the GS008 and GS009 automatic machines, without screws.
To fit the pawl drill an 8 mm hole in the rod.

Materials
Pin in zamak with GS SILVER PLUS finish (over 500 hours of corrosion resistance)
Polyamide loader





Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01352K	LOCKING PAWL	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	X				400

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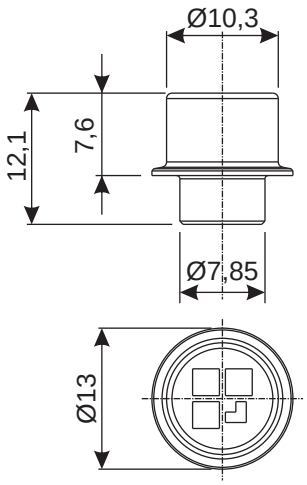


ADDITIONAL PAWL

Functions
Fixed pawl to be combined with Giesse adjustable strikers, required to create a locking point.

Technical features
The pawls are loose in the box, ready for installation to the rod with the Giesse PM008 and PA009 automatic machines.
No screws are required for installation.
To fit the pawl drill an 8 mm hole in the rod.

Materials
Pin in zamak with GS SILVER PLUS finish (over 500 hours of corrosion resistance)



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01356K	ADDITIONAL PAWL	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	X				400

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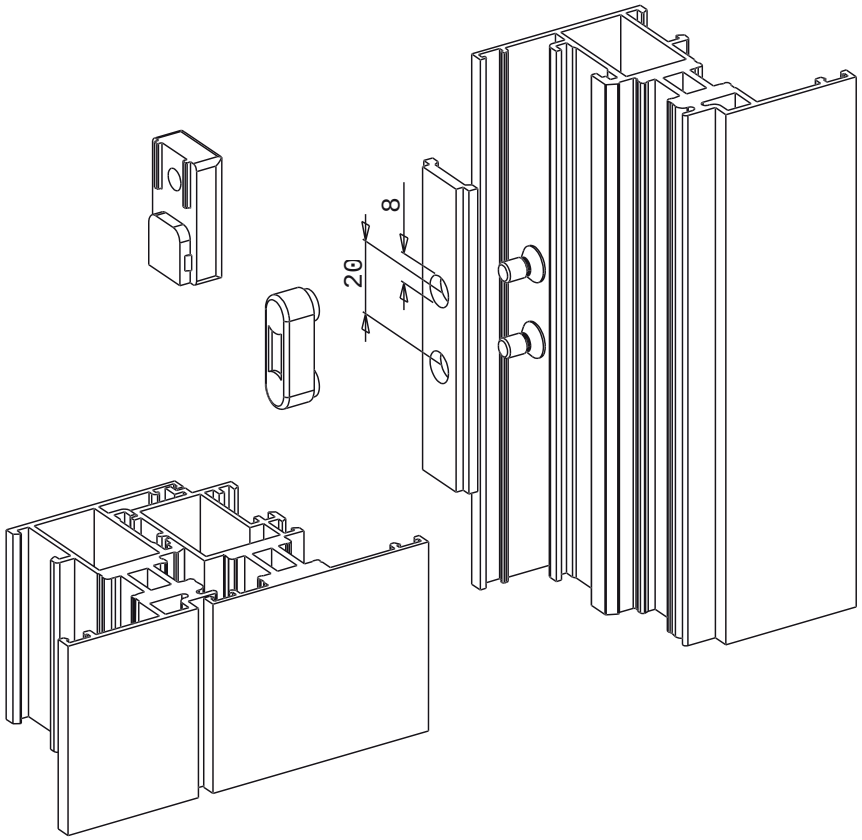
ADDITIONAL FASTENING MECHANISM COMPONENT

Functions

Black polyamide component to be used for making additional locking points using also the 3rd fastening mechanism striker.

Materials

Black/grey polyamide body
Zinc plated screws



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02315	ADDITIONAL FASTENING MECHANISM COMPONENT		X				500
02315K	ADDITIONAL FASTENING MECHANISM COMPONENT	grey	X				500

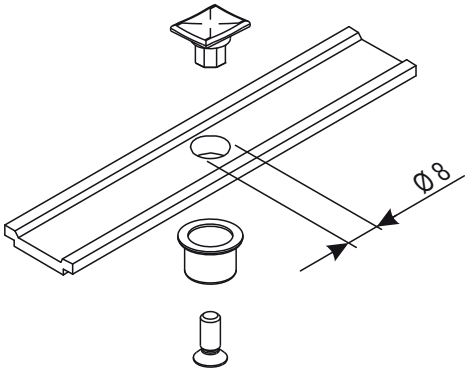
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FUTURA FIXED PAWL

Fixed pawl, to be combined with the adjustable striker, required to create supplementary locking points in addition to those already supplied with the basic mechanism.
To fit the pawl drill an 8 mm diameter hole in the rod and the fix the pawl using the specific plate.
Compression adjustment is performed on the combined striker.

Materials
Pawl and plate of zamak with GS SILVER PLUS finish (over 500 hours of corrosion resistance) art. 04027K - Pawl and plate of zamak art. 04067
Stainless steel screw



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04027K	FUTURA FIXED PAWL	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	X				200
04067	FUTURA FIXED PAWL	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	X				200

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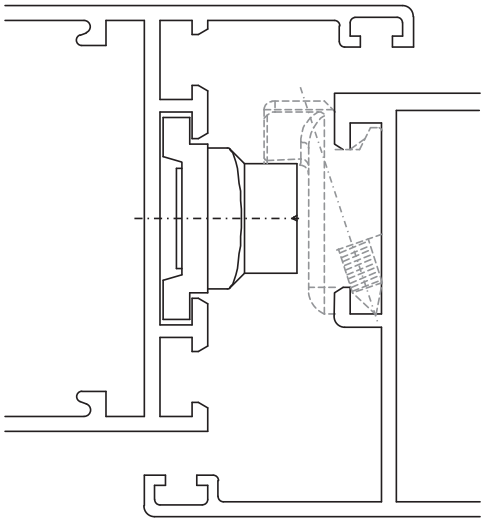


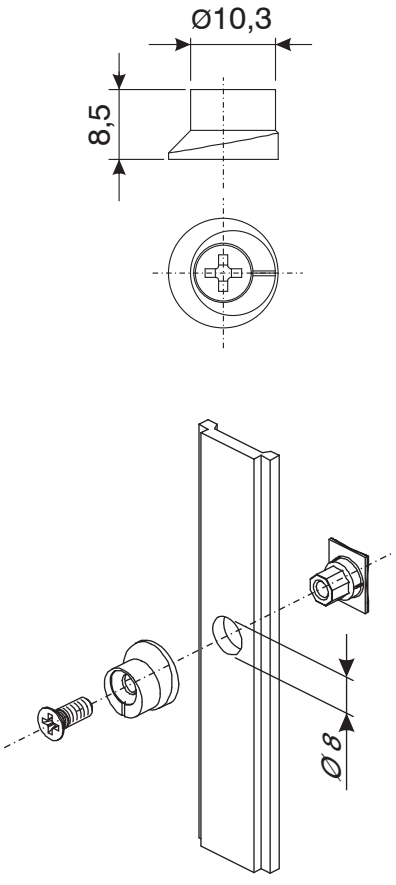
ADJUSTABLE LOCKING PAWL

Functions
Closing element to be fitted directly on the rods in the series.

Technical Features
Quick and easy to install, by simply making a hole Ø 8 in the rod.
Enables one or more additional fastening mechanisms to be installed on any casement.
Provides the ability to adjust the pull force when closing by ± 1.2 (as on tilt-and-turn window mechanisms) by turning the eccentric pin.

Materials
Pawl and plate in zamak with GS SILVER PLUS finish (over 500 hours of corrosion resistance)
Stainless steel screw





Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04030K	ADJUSTABLE LOCKING PAWL	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	X				200

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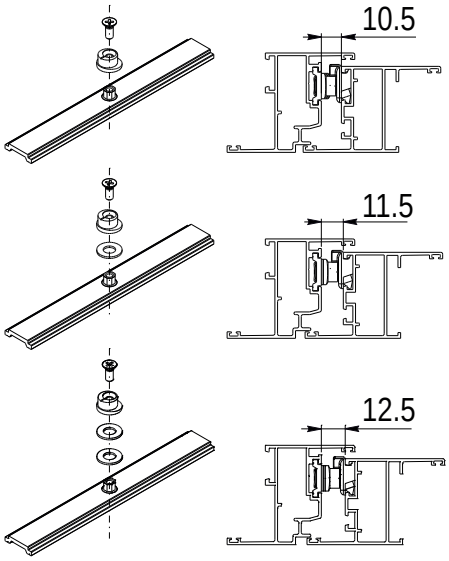
ADJUSTABLE LOCKING PAWL

Closing element to be fitted directly on the rods in the series.
Allows the locking tension to be adjusted by simply rotating the cam.

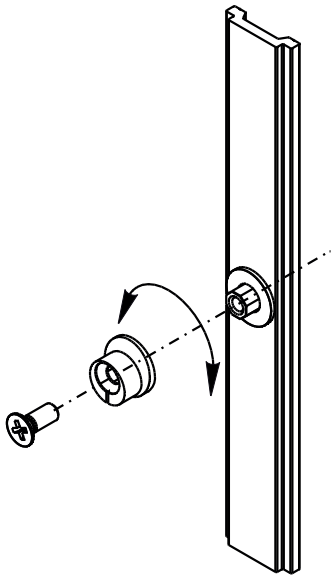
Technical features
Quick and easy to install, by simply making a hole Ø 8 in the rod.
Enables one or more additional fastening mechanisms to be installed on any casement.
Offers the option of adjusting the pull force when closing by ± 1.2 mm.
In addition, the pawl has two 1 mm shims to increase the height.

Materials
Pawl and plate in zamak
Screw and shims in stainless steel

Height adjustment

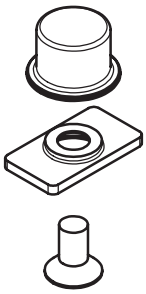


Compression adjustment on the seals (± 1.2 mm)



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04042K	ADJUSTABLE LOCKING PAWL	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	X				200

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FIXED PAWL

Fixed pawl, to be combined with the adjustable striker, required to create locking points.

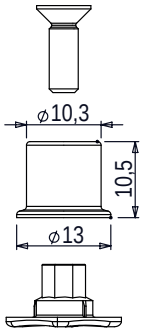
Technical features

The pawl is fitted on aluminium or polyamide rods with a hole Ø 8 mm.
Compression adjustment is performed on the combined striker.
Products 04050 and 04066, being entirely of stainless steel, allow high strength and corrosion-proof performance locking points where required (such as curtain walls and outward openings in general).

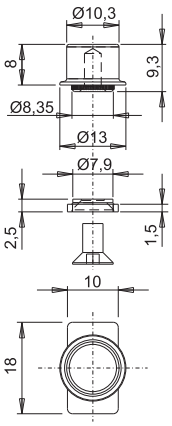
Materials

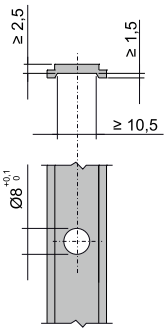
Pawl and plate of zamak Art. 04049
Pawl and plate of stainless steel Art. 04050 and 04066
Stainless steel screw

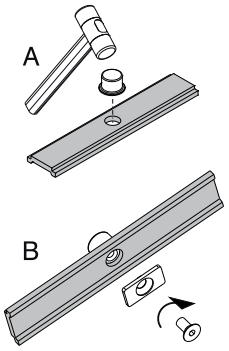
Art. 04049



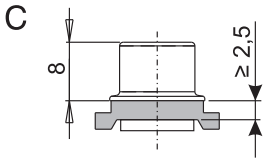
Art. 04050







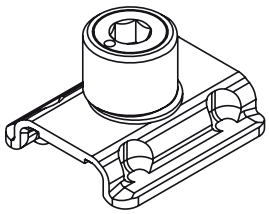
Art. 04050



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04049	FIXED PAWL	-	X				200
04050	FIXED PAWL	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	X				200

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PAWLS 009



Functions

Closing element for insertion, in combination with a suitably shaped rod, in the 15/20 mm sash channel.

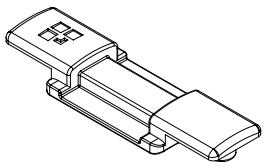
Technical Features

The pawl is applied directly on the manual quick-fitting rod. In order to install it you need to machine the connection rod.
For the adjustments and correct application on the profiles please refer to the table.

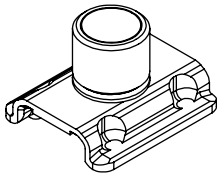
Materials

Stainless steel

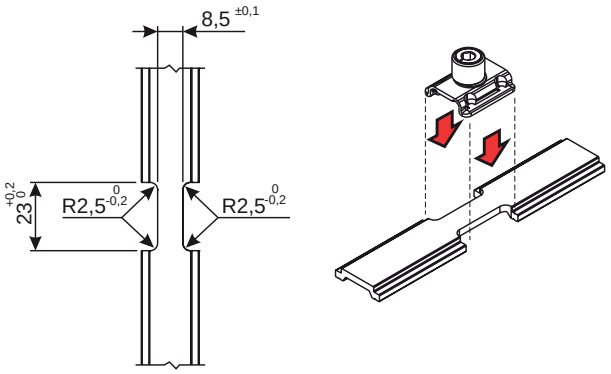
Fastener pawl base



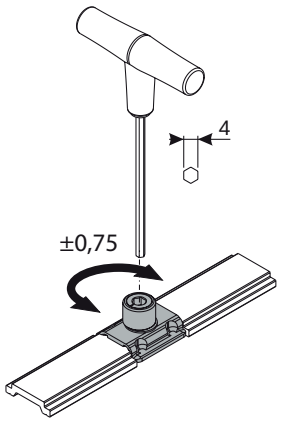
Fastener pawl

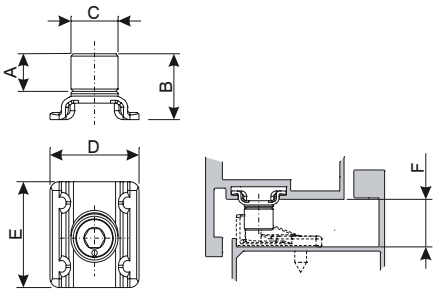


Rod machining



Adjustment





Item code	Description	PROFILE CROSS - SECTION	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Adjustment (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01373	LOCKING PAWL	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	6,5	11,5	-	19,5	22,5	11,5	No	X				20
01394	LOCKING PAWL	-	8	14	10,3	19,5	22,5	16.5/17	+/- 0.75	X				100
01395	LOCKING PAWL	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	5,5	11,5	10,3	19,5	22,5	11,5	+/- 0.75	X				100
01399	CLOSING PAWL BASE	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	-	-	-	-	-	-	-	X				100
04052	LOCKING PAWL	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	5,5	11,5	10,3	19,5	22,5	11,5	No	X				100
04054	LOCKING PAWL	-	8	14	10,3	19,5	22,5	16.5/17	No	X				100

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PAWLS FOR CURTAIN WALL

Functions

Adjustable pawl to be applied on the "Giesse connection element" which, in combination with a fixed striker, creates a locking point for a window.

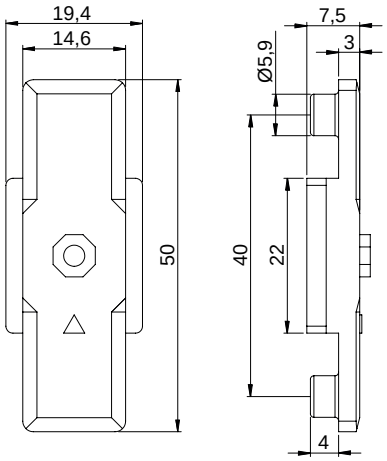
Technical Features

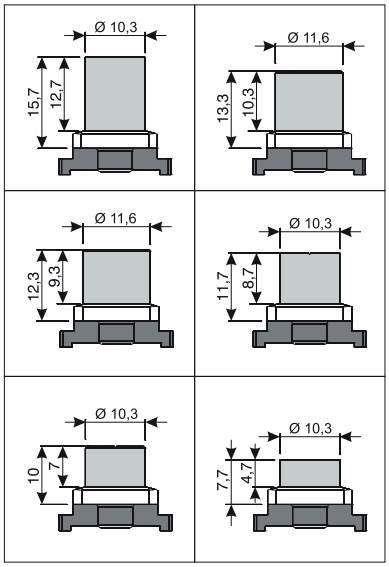
The pawl is applied "on the Giesse connection element" by means of a screw supplied with the pawl.
The pawl with the most suitable height will be appraised according to the sash - frame distance of the series.
The adjustable pawl is used in combination with a fixed striker placed on the frame.
For the adjustments please refer to the table.

Materials

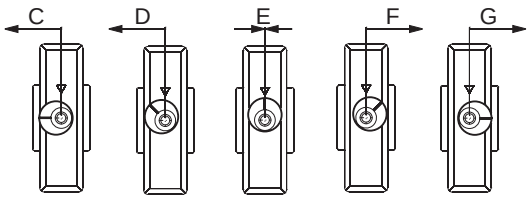
Pawl in zamak with GS Silver Plus finish (over 500 hours of corrosion resistance)
Stainless steel screw

Distances

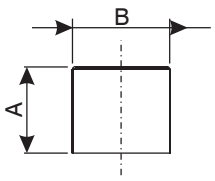




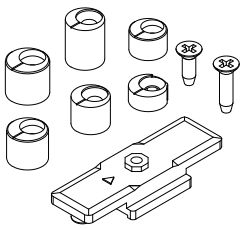
Adjustments



Dimensions

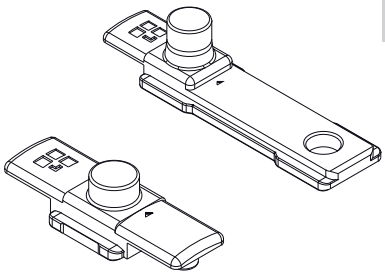


04682K



Item code	Description	PROFILE CROSS - SECTION	Dimensions A (mm)	Dimensions B (mm)	Adjustment C (mm)	Adjustment D (mm)	Adjustment E (mm)	Adjustment F (mm)	Adjustment G (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02215K	CONNECTION JOINT	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010								X				100
04675K	LOCKING PAWL	-	12,7	10,3	+ 1,5	+ 1,06	0	- 1,06	- 1,5	X				100
04677K	LOCKING PAWL	-	10,3	11,6	+ 1,8	+ 1,27	0	- 1,27	- 1,8	X				100
04679K	LOCKING PAWL	-	8,7	10,3	+ 1,5	+ 1,06	0	- 1,06	- 1,5	X				100
04681K	LOCKING PAWL	-	4,7	10,3	+ 1,5	+ 1,06	0	- 1,06	- 1,5	X				100
04682K	CONNECTION JOINT WITH 6 PAWLS	-								X				50

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CONNECTION JOINTS WITH PAWLS

Functions

Fixed connection joint, to be combined with the adjustable striker, required to create a lock point.

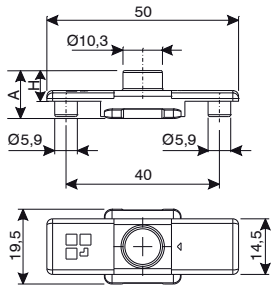
Technical Features

The connection joint can be used at the end of a connection rod or to join two together. In both cases, matched with an adjustable striker, it makes a locking point.
It is highly resistant with high tear strength.

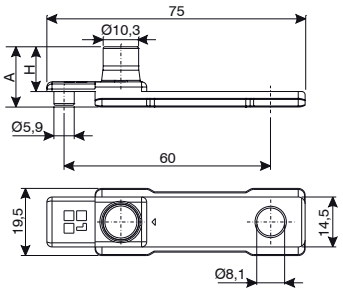
Materials

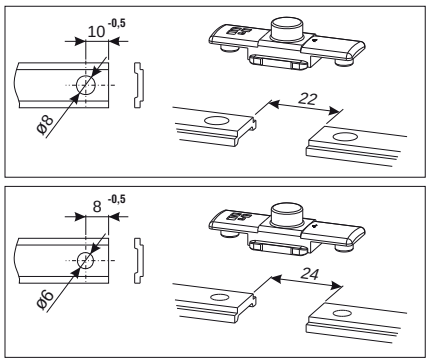
Connection element in zamak with Giesse Silver-Plus finish (over 500 h of corrosion resistance)

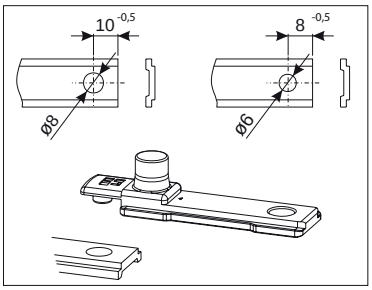
MX-MX version

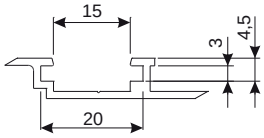


MX-FM version



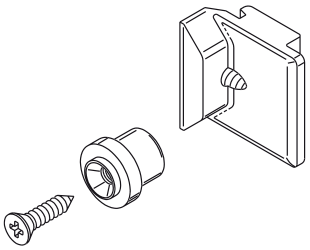






Item code	Description	PROFILE CROSS - SECTION	A	H	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04047K	FIXED CONNECTION JOINT MX-MX	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	12.5 mm	8 mm	X				200
04662K	FIXED CONNECTION JOINT MX-MX	-	17.5 mm	13 mm	X				100
04663K	FIXED CONNECTION JOINT MX-FM	-	17.5 mm	13 mm	X				100
04664K	FIXED CONNECTION JOINT MX-FM	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	12.5 mm	8 mm	X				100

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ADDITIONAL FASTENING MECHANISM COMPONENTS

Functions

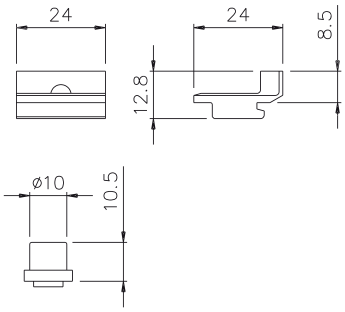
Closing components specially designed to make an additional fastening mechanism, on side-hung windows with 1 or more sashes.

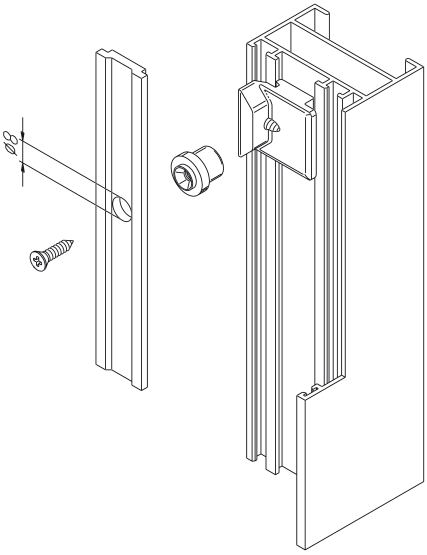
Technical Features

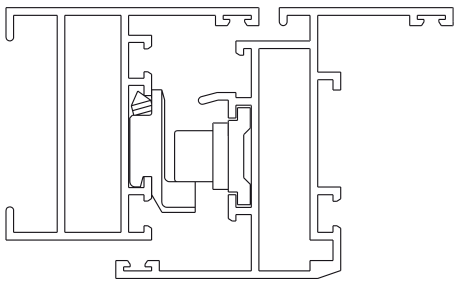
It makes additional fasteners, both in the sash-frame interface of windows with 1 sash and in the profile cross-section of windows with 2 sashes.

Materials

Striker body made of zamak with GS SILVER PLUS finish.
Pin and screw of zinc-nickel plated steel
Stainless steel grub screw







Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0133001	STRIKER AND PIN FOR THIRD FASTENING MECHANISM		X				50

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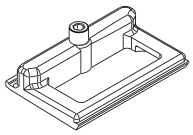


STRIKERS

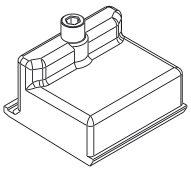
Functions

Components made to be fitted on frames of casements with one or more sashes with the function of accommodating the tips of bolts and terminals and the fastening pawls made by GIESSE.

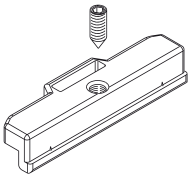
Type 1



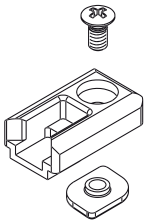
Type 2



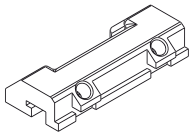
Type 3



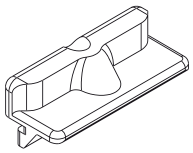
Type 4



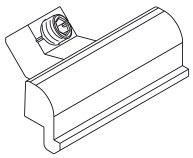
Type 5



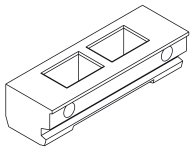
Type 6



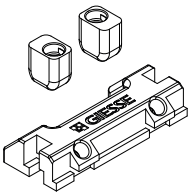
Type 7



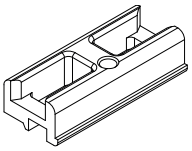
Type 8



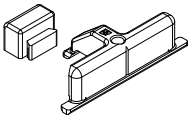
Type 9



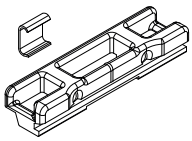
Type 10



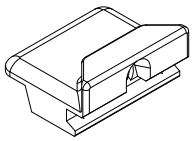
Type 11



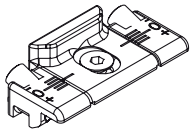
Type 12



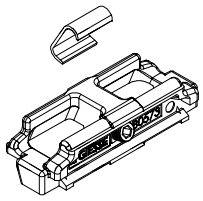
Type 13



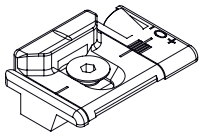
Type 14



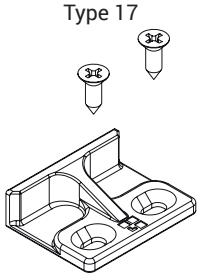
Type 15



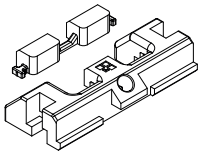
Type 16



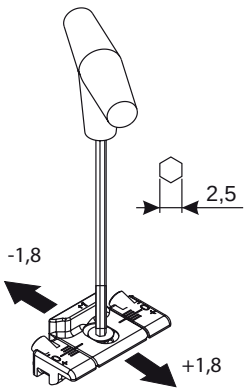
Type 17



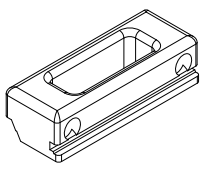
Type 18



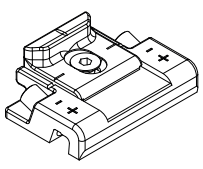
Compression adjustment



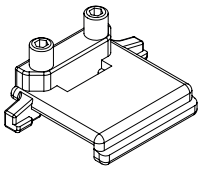
Type 19



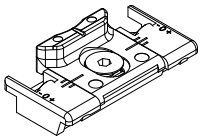
Type 20



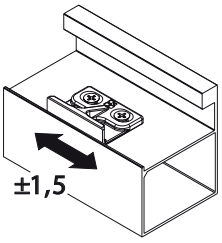
Type 21



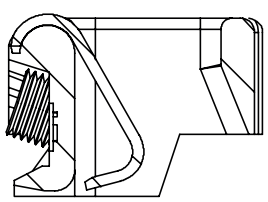
Type 22



Side adjustment



Adjustment art. 01348K



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STRIKERS AND FASTENING MECHANISMS
STRIKERS

Item code	Description	Type	Type	PROFILE CROSS - SECTION	Adjustable (mm)	Material	Colour	3° fastening mechanism	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01215	STRIKER	18	Double	C007	No	Zamak	Grey		X				100
0127901	STRIKER	21	Single	C010	No	Zamak	Grey	X	X				100
0130501	STRIKER	1	Double	see Where Used	No	Zamak	Grey		X				100
0130601	STRIKER	2	Single	see Where Used	No	Zamak	Grey	X	X				100
0130701	STRIKER	3	Double	C009	No	Zamak	Grey	X	X				100
01314K	STRIKER	4	Single	C001-C002-C004-C011-C012-C013-C014-C015-C016-C017	No	Zamak	Grey	X	X				100
0131501	STRIKER	4	Single	C010	No	Zamak	Grey	X	X				100
0131601	STRIKER	4	Single	see Where Used	No	Zamak	Grey	X	X				100
01317	STRIKER	5	Double	C007-C008	No	Polyamide	Black		X				100
01317K	STRIKER	5	Double	C007-C008	No	Polyamide	Grey		X				100
01318K	STRIKER	6	Single	C007-C008	No	Zamak	Grey	X	X				200
01322	STRIKER	4	Double	C001-C002-C004-C011-C012-C013-C014-C015-C016-C017	No	Polyamide	Black	X	X				100
01322K	STRIKER	4	Double	C001-C002-C004-C011-C012-C013-C014-C015-C016-C017	No	Polyamide	Grey	X	X				100
01328	STRIKER	8	Double	see Where Used	No	Polyamide	Black		X				100
01329	STRIKER	9	Double	C009	No	Polyamide	Black		X				50
01331	STRIKER	10	Double	C010	No	Polyamide	Black		X				100
0133801	STRIKER	11	Double	see Where Used	No	Zamak	Grey	X	X				50
01339	STRIKER	12	Double	C001-C002-C004-C006-C011-C012-C013-C014-C015-C016-C017	+ 0.8 (compression)	Polyamide	Black		X				100
01340K	STRIKER	10	Double	C005	No	Polyamide	Grey		X				100
01340N	STRIKER	10	Double	C005	No	Polyamide	Black		X				100
01342K	STRIKER	13	Single	C003-C005-C006	No	Zamak	Grey		X				200
01343K	STRIKER	13	Single	C001-C002-C004-C011-C012-C013-C014-C015-C016-C017	No	Zamak	Grey		X				200
01344K	STRIKER	13	Single	C007	No	Zamak	Grey		X				200
01345K	STRIKER	13	Single	C008	No	Zamak	Grey		X				200
01347K	STRIKER	14	Single	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	+ 1.8 (compression)	Zamak	Grey		X				200
01348K	STRIKER	15	Single	C001-C002-C004-C006-C011-C012-C013-C014-C015-C016-C017	+ 0.8 (compression)	Zamak	Grey		X				100
01349K	STRIKER	12	Double	C001-C002-C004-C006-C011-C012-C013-C014-C015-C016-C017	+ 0.8 (compression)	Zamak	Grey		X				100
01353K	STRIKER	16	Single	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	+ 2.4 (compression)	Zamak	Grey		X				200
01362K	STRIKER	14	Single	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	+ 1.8 (compression)	Zamak	Grey		X				200
01396	STRIKER	14	Single	see Where Used	+ 1.8 (compression)	Zamak/Brass	Grey		X				200
01398	STRIKER	20	Single	see Where Used	+ 1.8 (compression)	Zamak	Grey		X				200
01400	STRIKER	22	Single	see Where Used	+ 1.8 (compression)	Zamak	Grey		X				200
02337	STRIKER	19	Double	C001-C002-C004-C011-C012-C013-C014-C015-C016-C017	No	Polyamide	Black		X				100

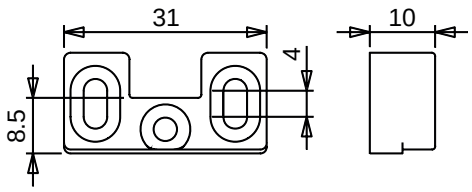
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BOLT TIPS STRIKER

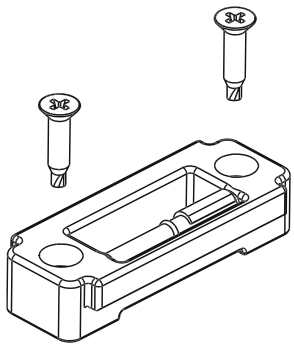
Functions
Striker for PESOS and SUPERGIAP bolts for door channel.

Materials
Body made of zamak with GS SILVER PLUS finish.
Black zinc plated steel screws.



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0132501	PESOS-SUPERGIAP RODS STRIKER		X				100

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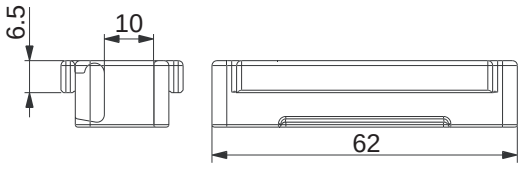


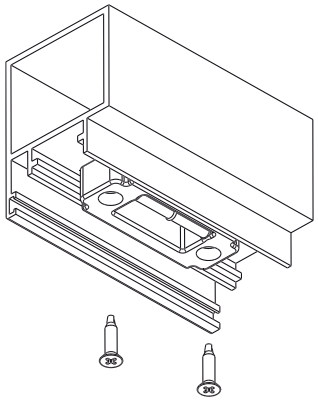
STRIKER FOR TOTEM FOR DOOR CHANNEL

Functions
Striker for Totem bolt for door channel.

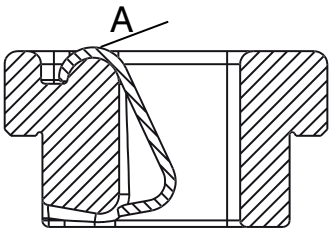
Technical features
The striker has a part in stainless steel, for snap-fitting, in case of different channel positioning between the main sash and semifixed sash.
The double striker is made to receive the lock terminal and bolt at the same time.
For use in combination with the bolt 02185.

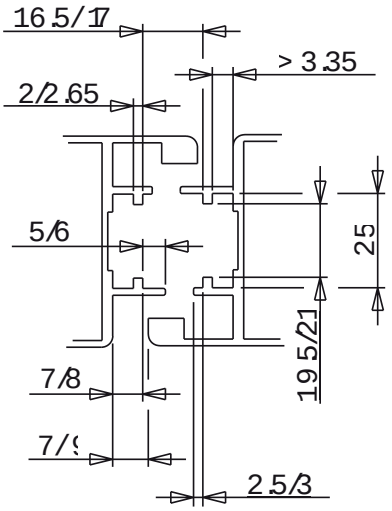
Materials
Polyamide body
Stainless steel insert
Stainless steel screws





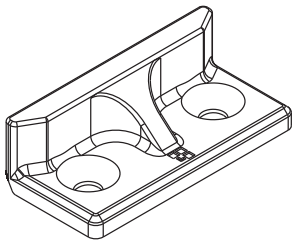
A= Stainless steel insert





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01308	STRIKER FOR TOTEM FOR DOOR CHANNEL		X				50

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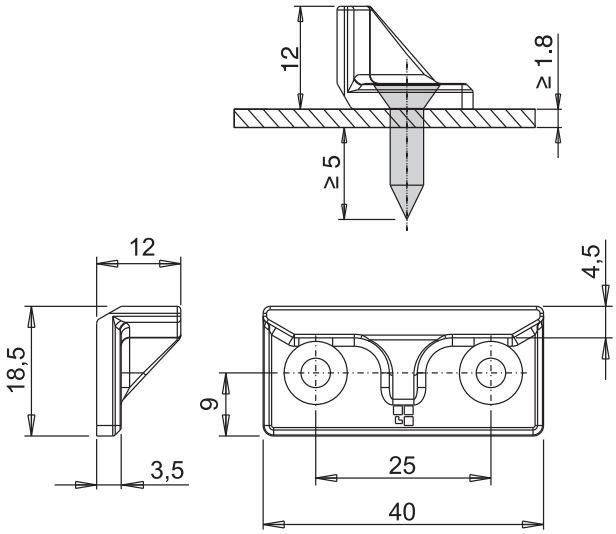
STRIKERS FOR HP FLAT FRAMES

Fixed striker specially created for use in conjunction with a Giesse adjustable fastening pawl.
Specific for flat frames, generally used in outward opening or curtain wall profile series.
Fixing is by means of two self-tapping screws (not supplied).

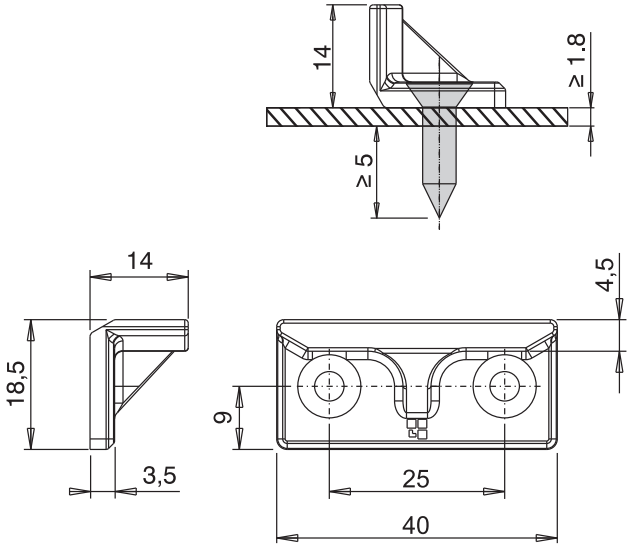
Materials

Striker in GS SILVER PLUS zamak (over 500 hours of corrosion resistance)

Art. 01213

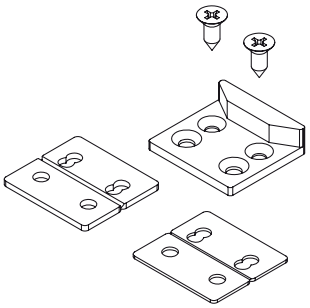


Art. 01214



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01213	STRIKER FOR HP FLAT FRAMES	H= 12 mm	X				100
01214	STRIKER FOR HP FLAT FRAMES	H= 14 mm	X				100

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CURTAIN WALL STRIKER

Functions

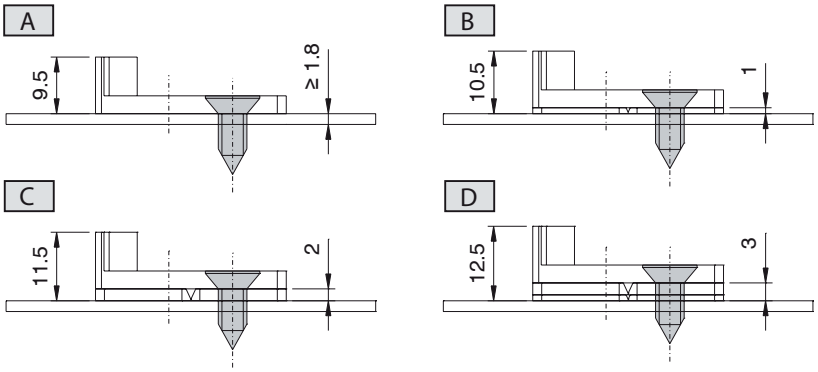
Fixed striker, to be combined with an adjustable pawl, necessary for making the locking points on a top-hung window or outward opening (side hung) window.

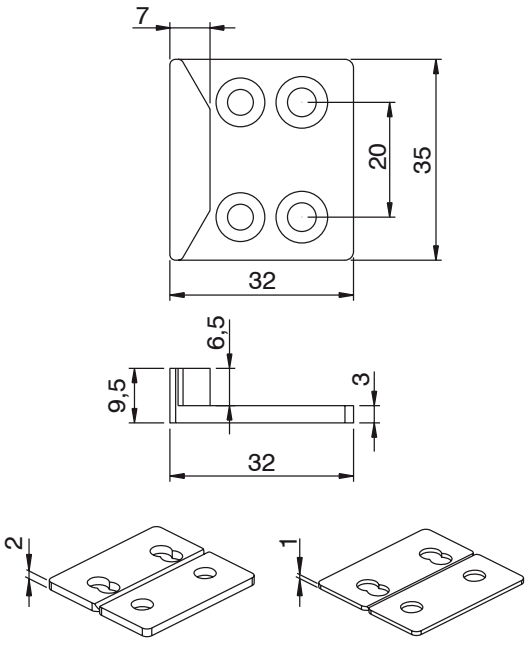
Technical features

The striker is supplied with shims that are applied underneath it to make it fit with the pawl.

Materials

Striker in GS SILVER PLUS zamak (over 500 hours of corrosion resistance)
Polyamide shims
Stainless steel screws





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01266K	CURTAIN WALL STRIKER	silver plus	X				100

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CURTAIN WALL STRIKER WITH SHIM

Functions

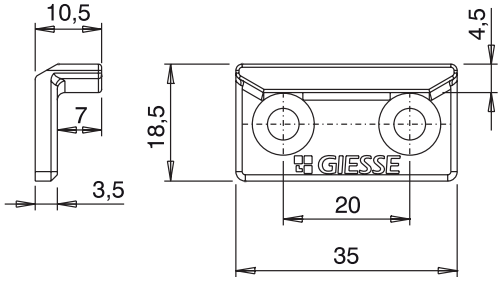
Fixed striker specially created for use in conjunction with a Giesse adjustable fastening pawl.

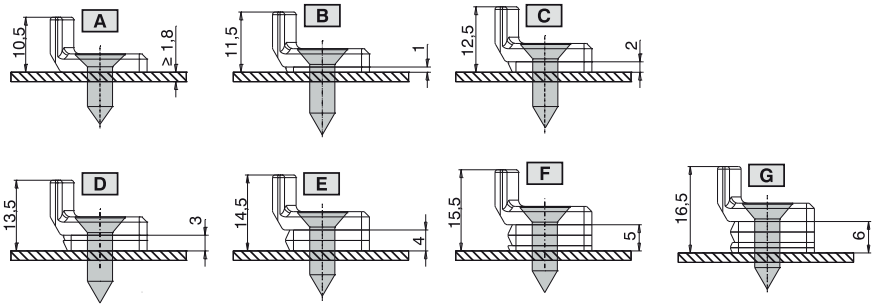
Technical features

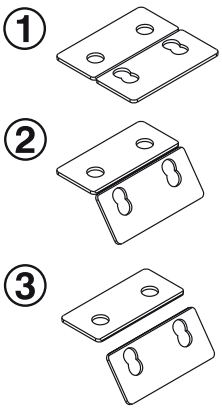
Specific for flat frames, generally used in outward opening or curtain wall profile series. Fixing is by means of the provided self-threading screws.
The striker is supplied with shims that are applied underneath it to make it fit with the pawl.

Materials

Striker in GS SILVER PLUS zamak (over 500 hours of corrosion resistance)
Polyamide shims
Stainless steel screws







Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01267K	CURTAIN WALL STRIKER WITH SHIM	silver plus	X				100

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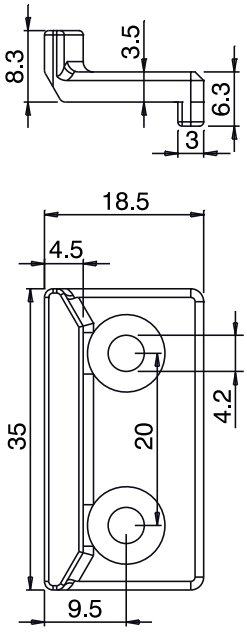


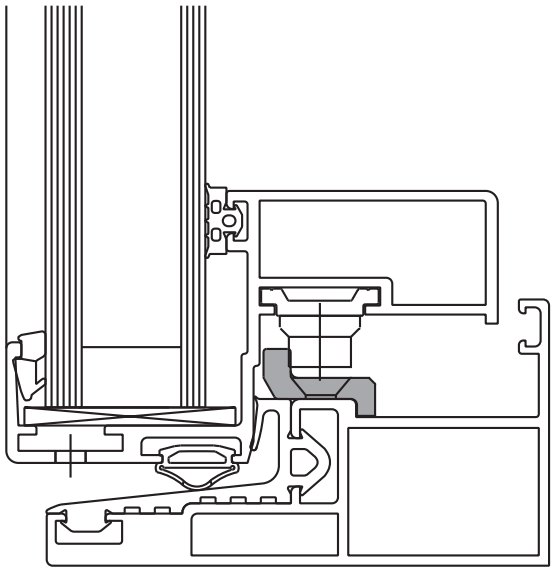
STRIKER FOR CURTAIN WALL

Functions
Fixed striker specially created for use in conjunction with a Giesse adjustable fastening pawl.

Technical features
Fixing is by means of the provided self-threading screws.
The frame must be drilled before fixing.
The striker is designed for use in conjunction with an adjustable pawl.

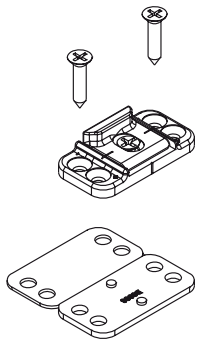
Materials
Zamak striker
Stainless steel screws





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01268K	STRIKER FOR CURTAIN WALL		X				100

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CURTAIN WALL ADJUSTABLE STRIKER

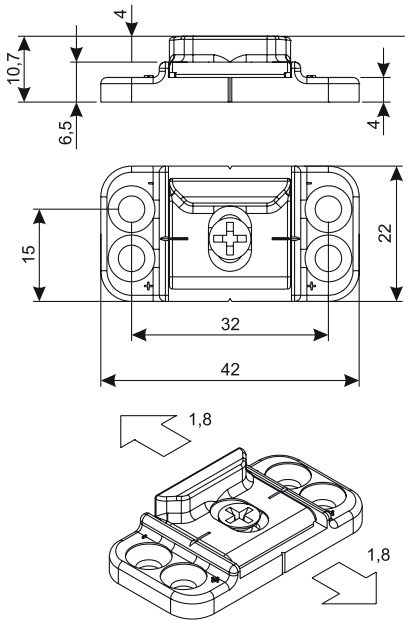
Adjustable striker for flat frames which, in conjunction with a Giesse fixed pawl, creates a locking point. Striker adjustment is + - 1.8 mm.

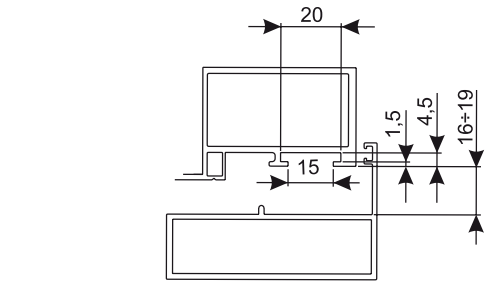
Technical features

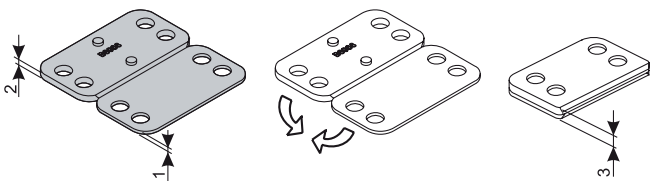
The striker can be used in all the ranges of profiles providing for a flat frame (without channel).
The curtain wall ranges typically provide for a flat frame.
The art. is fitted by fixing the base to the frame with the self-threading screws supplied. The striker adjustment is +- 1.8 mm. and allows varying the pull on the fixed pawl (and therefore the compression of the gaskets on the profile).
The brass retaining element increases the performance of the article, making it ideal for outward opening/curtain wall applications where the specifications are particularly strict.
The product comes with a 3 mm (1 mm + 2 mm) folding spacer able to bring the striker near the sash in case of an excessive distance between the two profiles. The product works in conjunction with a Giesse fixed pawl.

Materials

Body in GS Silver Plus zamak (over 500 hours of corrosion resistance)
Polyamide shims
Stainless steel screws

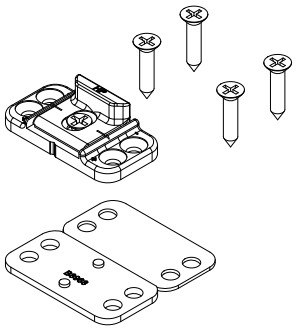






Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01269K	CURTAIN WALL ADJUSTABLE STRIKER	silver plus	X				100

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ADJUSTABLE STRIKER FOR FLAT FRAME

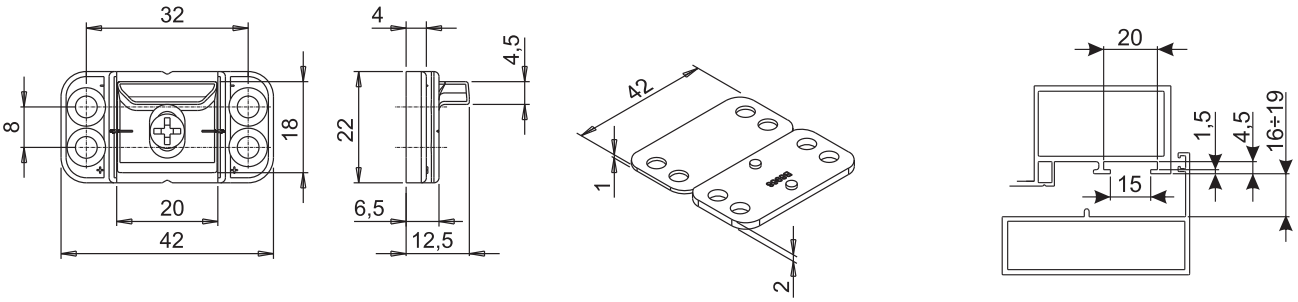
Adjustable striker for flat frames which, in conjunction with a Giesse fixed pawl, creates a lock point.

Technical features

The striker can be used in all the ranges of profiles providing for a flat frame (without channel).
The curtain wall ranges typically provide for a flat frame.
The art. is fitted by fixing the base to the frame with the self-threading screws supplied. The striker adjustment is +- 1.8 mm. and allows varying the pull on the fixed pawl (and therefore the compression of the gaskets on the profile).
The brass retaining element (slider) increases the performance of the article, making it ideal for outward opening/curtain wall applications where the specifications are particularly strict.
The product comes with a 3 mm (1 mm + 2 mm) folding spacer able to bring the striker near the sash in case of an excessive distance between the two profiles. The product works in conjunction with a Giesse fixed pawl.

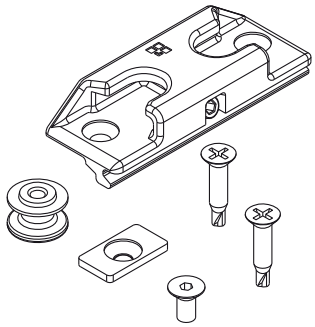
Materials

Zamak striker
Slider for striker in brass
Polyamide shim
Stainless steel screws



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01280	ADJUSTABLE STRIKER FOR FLAT FRAME		X				100

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FUTURA BURGLAR-PROOF FASTENING MECHANISM

Functions

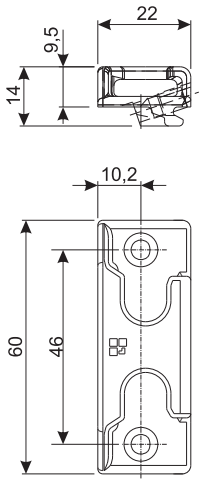
Specially designed device to increase resistance of the tilt-and-turn window to break-in attempts, making intrusion through the window more difficult.
Can also be used on sashes, tilt-and-turn windows, bottom-hung windows, doors, pivoting, projecting and GS-1000 casements.

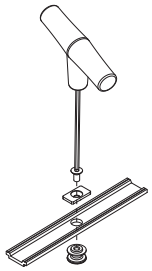
Technical features

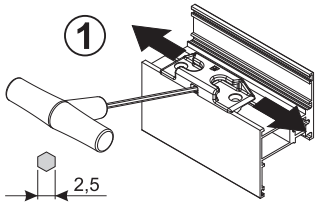
Article composed of two elements: the striker to be applied to the frame and the mushroom pawl to be applied to the rod.
The striker is reversible and is secured to the frame by means of the pre-assembled grub screw and two self-threading screws that ensure precise, quick fixing to the frame.
The pawl is applied to the rod of the series by simply making a hole Ø 8 mm; thanks to this solution, using the burglar-proof kit requires no changes to the cutting.

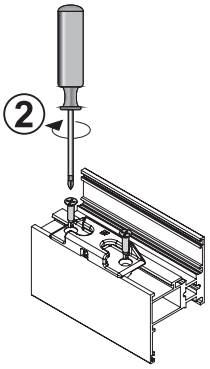
Materials

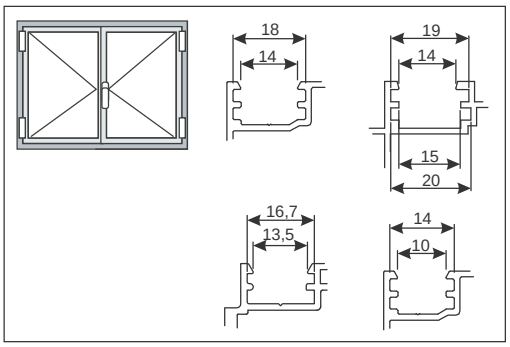
Striker in zamak with GS SILVER PLUS finish (over 500 hours of corrosion resistance)
Pawl, plate, screws and plate in stainless steel.

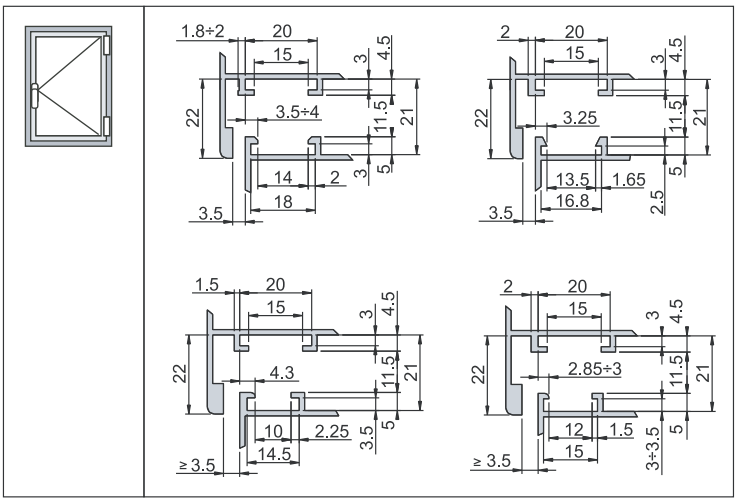






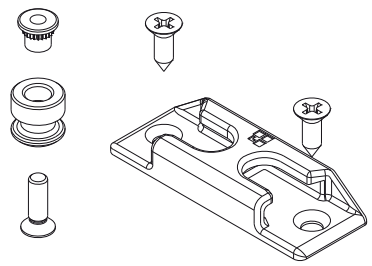






Item code	Description	PROFILE CROSS - SECTION	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04031K	FUTURA BURGLAR-PROOF FASTENING MECHANISM	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	silver plus	X				20

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BURGLAR-PROOF FASTENING MECHANISM

Functions

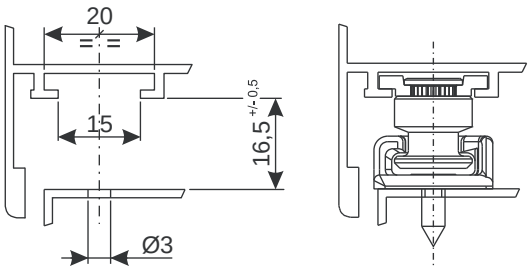
Kit that improves the resistance to pulling of an outward or inward opening window.
The accessory has a dual function of increasing the window's burglar-proofness as well as its resistance to strong wind gusts.

Technical Features

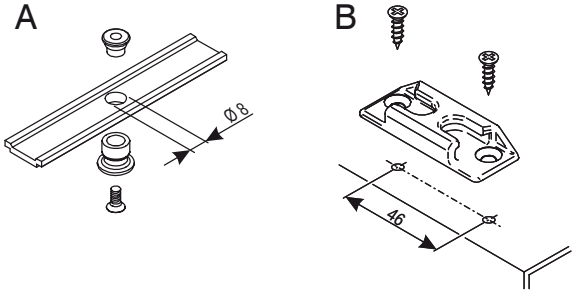
The burglar-proof fastening mechanism is composed of two elements:
a) frame striker, with a flat base, specifically to be applied on smooth frames;
b) stainless steel, mushroom-shaped pawl, ideal to be applied on rods with an 8 mm hole.
The article can be used on sash / frame profile cross-sections providing for a distance of 16.5 mm between the 2 profiles.
The number of burglar-proof fasteners depends on the size of the window and the degree of safety required.

Materials

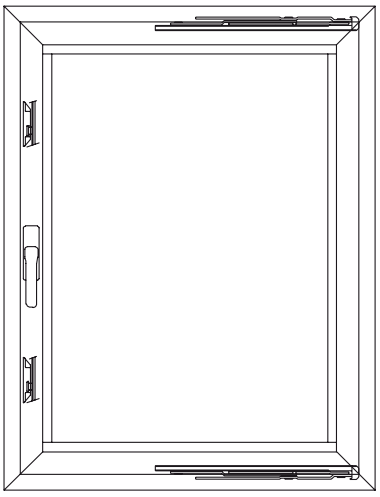
Pawl plate, burglar-proof mushroom and screws of stainless steel
GS SILVER PLUS zamak burglar-proof striker (over 500 h corrosion resistance)



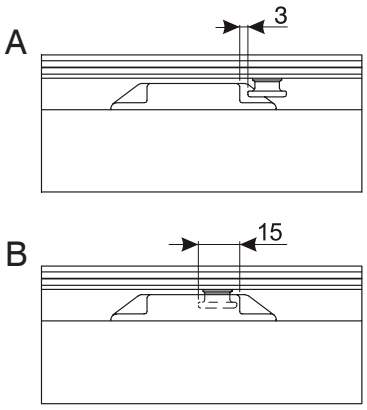
A = sash side
B = frame side



Example of positioning the burglar-proof fastening mechanism in a Side-Hung window

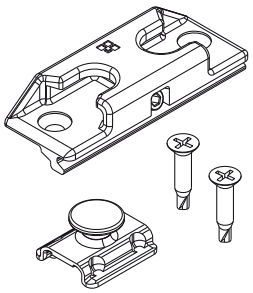


A = sash opening
B = fastener



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0404101	BURGLAR-PROOF FASTENING MECHANISM	groove 17 mm silver plus	X				20

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BURGLAR-PROOF DEVICE

Functions

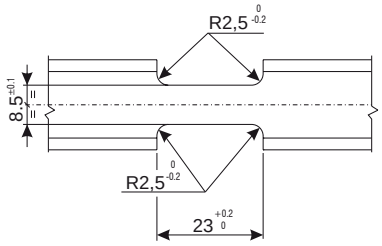
Specially designed device to increase the resistance of the casement to break-in attempts, making intrusion through the window more difficult.
Can be used on both sash and tilt-and-turn windows.

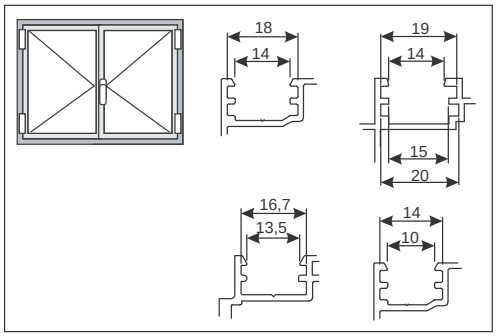
Technical Features

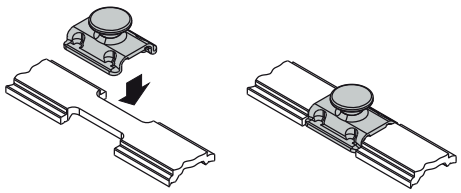
Article composed of two elements: mushroom pawl and fastening striker.
The pawl is applied directly on the manual quick-fitting rod. In order to install it you need to machine the connection rod using the automatic machines GS009 and PA009.
The striker is reversible and is secured to the frame by means of the pre-assembled grub screw and two self-threading screws that ensure precise, quick fixing to the frame.

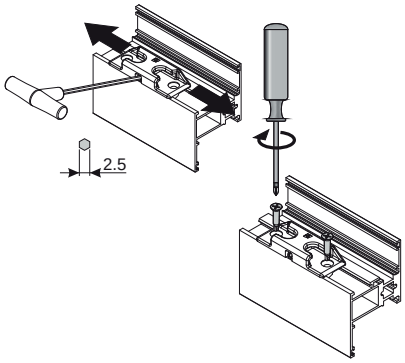
Materials

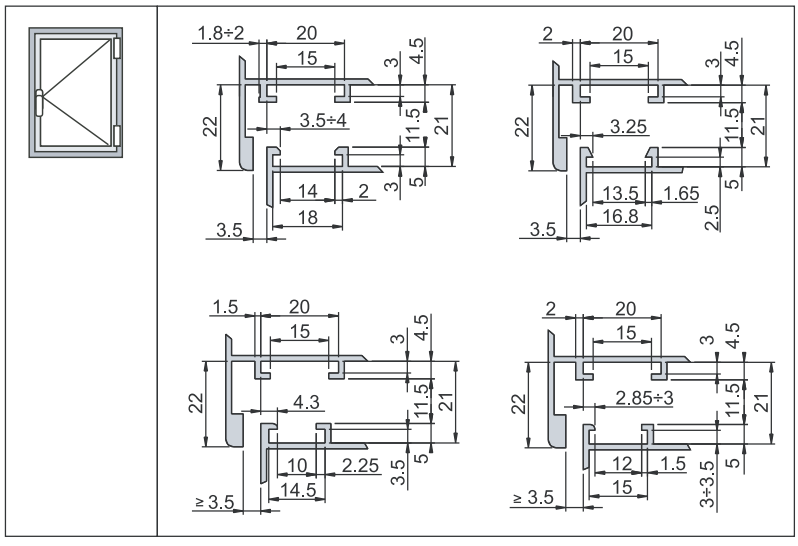
Burglar-proof striker in GS SILVER PLUS zamak (over 500 hours of corrosion resistance)
Steel burglar-proof device
Screws and grub screws in stainless steel





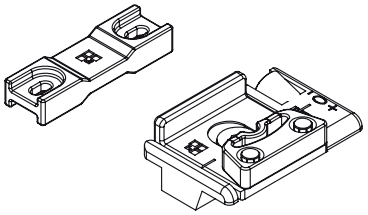






Item code	Description	PROFILE CROSS - SECTION	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04046K	BURGLAR-PROOF DEVICE	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	E.G. - silver plus	X				20

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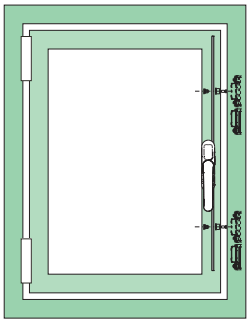


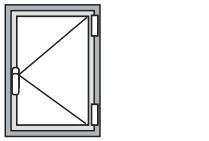
FUTURA WINDOW MICROVENTILATION

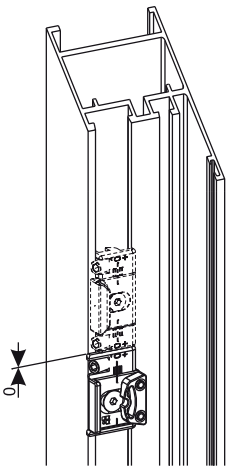
Functions
Adjustable device allowing precision opening of the casement, called “microventilation.”

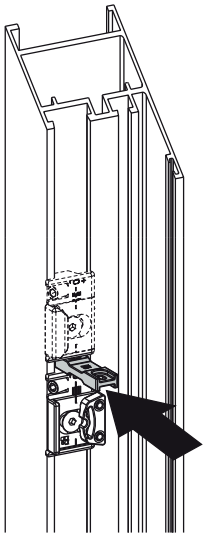
Technical Features
The device must be paired with a lock striker and a pawl, activated thanks to a GIESSE cremone: with the mechanism at 90° the sash opens normally, with the mechanism at 180° micro-ventilation is activated. The device allows adjustment of +2.4/-1.8 mm to increase or decrease the opening (air flow).

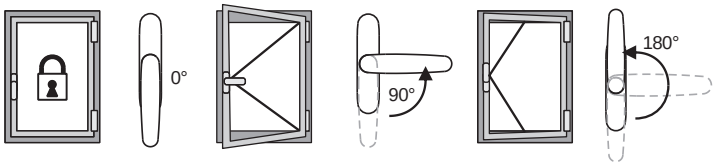
Materials
Striker in zamak with GS SILVER PLUS finish (over 500 hours of corrosion resistance)
Polyamide template
Screws and grub screws in stainless steel

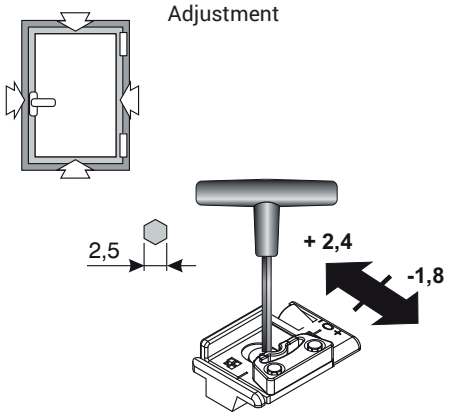






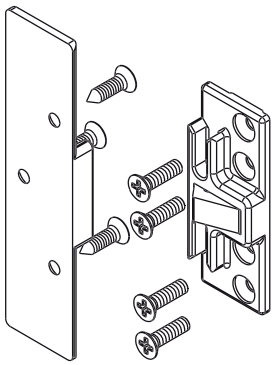






Item code	Description	PROFILE CROSS - SECTION	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02229K	FUTURA WINDOW MICROVENTILATION	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	silver plus	X				50

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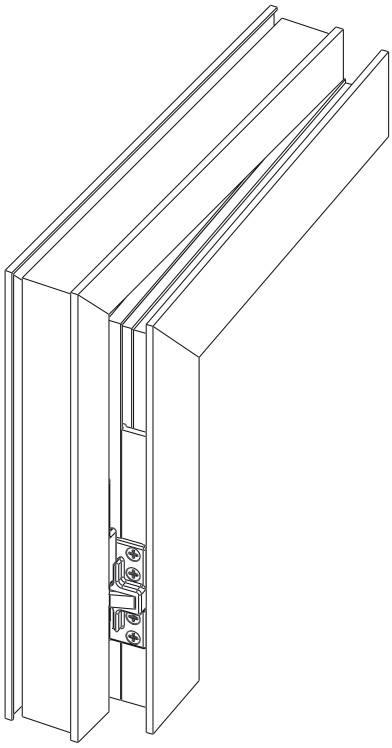


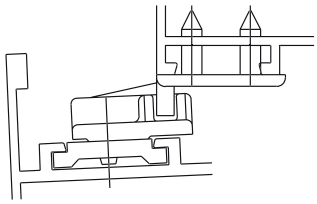
AERANTA

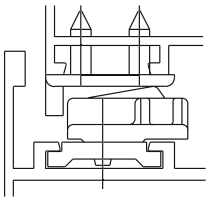
Functions
AERANTA is a mechanism designed to allow the half-open position of a window.

Technical features
Moving the sash from the frame by just a few centimetres allows air to flow and as a result ventilate the room.
All this with secure window fastening against attempted break-ins.

Materials
Aeranta body made of die-cast GS Silver Plus zamak.
Striker made of die-cast GS Silver Plus zamak.
Positioner in black polyamide
Stainless steel screws







Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0223001	AERANTA	C001-C002-C004-C011-C012-C013-C014-C015-C016-C017	X				50

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CHIC FASTENING ELEMENT

Functions

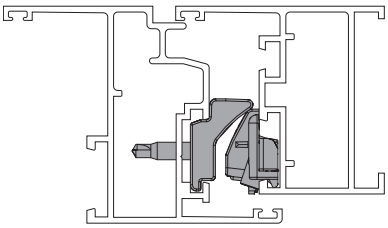
This adjustable fastening element can be used to create supplementary locking points on any aluminium frame, giving extra strength to the entire structure.

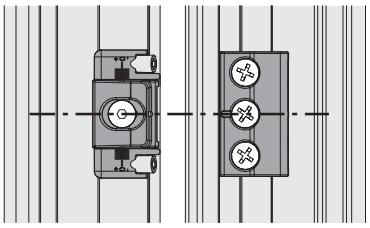
Technical Features

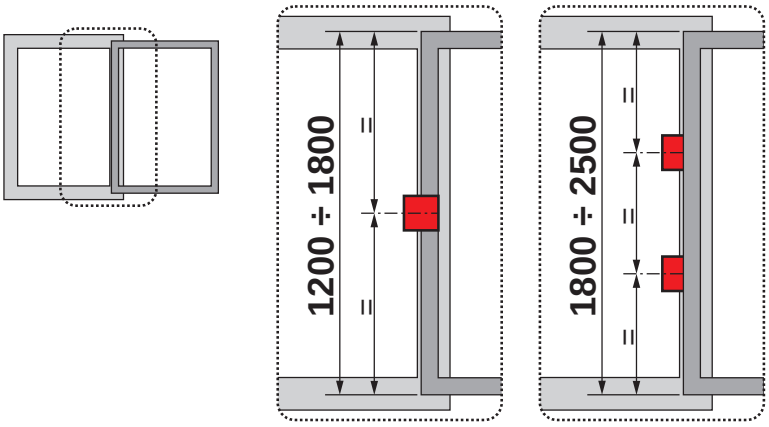
For use only in combination with CHIC sash hinges.
Compression adjustable +1.8/-1.2 mm

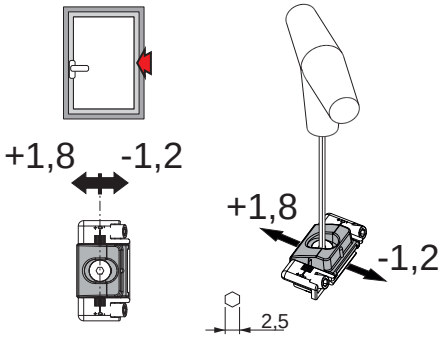
Materials

Body in zamak with GS SILVER PLUS finish (over 500 hours of corrosion resistance)
Stainless steel grub screws









Item code	Description	PROFILE CROSS - SECTION	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04358	CHIC FASTENING ELEMENT	C001-C002-C003-C004-C005-C006	silver plus	X				50

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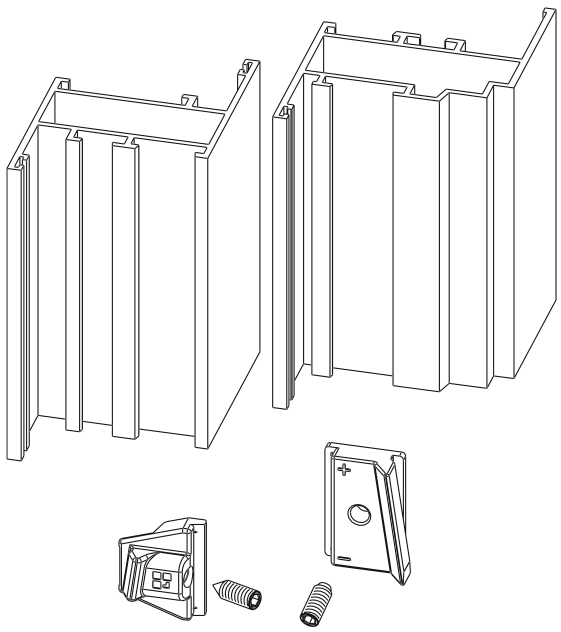
FUTURA BURGLAR BOLT

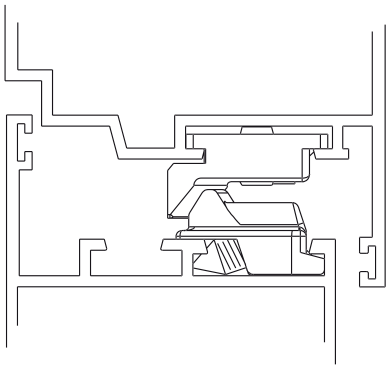
Functions

This adjustable fastening element can be used to create supplementary locking points on any aluminium frame, giving extra strength to the entire structure.

Materials

Body in zamak with GS SILVER PLUS finish (over 500 hours of corrosion resistance)
Stainless steel grub screws





Item code	Description	PROFILE CROSS - SECTION	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01350K	FUTURA BURGLAR BOLT	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	silver plus	X				50

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BURGLAR BOLT FOR CURTAIN WALL

Functions

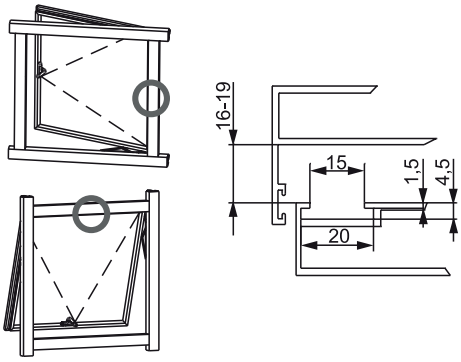
The adjustable fastening element can be used to create additional locking points on aluminium sashes, making the entire window structure sturdier.

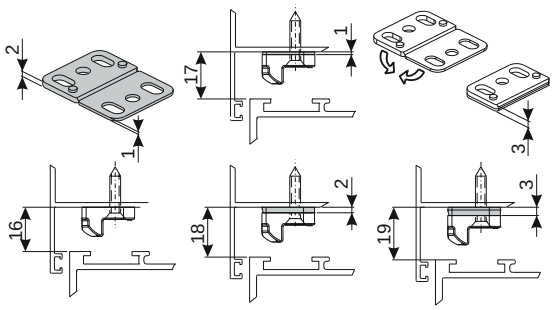
Technical Features

It is fitted with the window disassembled. The burglar bolt can be fitted on the entire series of aluminium profiles having a 15/20 mm channel and flat frame. The sash-frame distance can be between 16 and 19 mm.

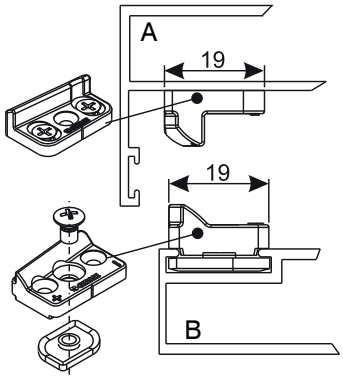
Materials

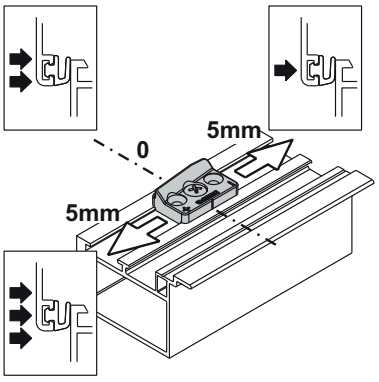
Polyamide frame striker shim
Frame striker, zamak sash striker with GS SILVER PLUS finish (over 500 hours of corrosion resistance)
Screws and cam in stainless steel





A = frame - B = sash





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01374K	BURGLAR BOLT FOR CURTAIN WALL	silver plus	X				50

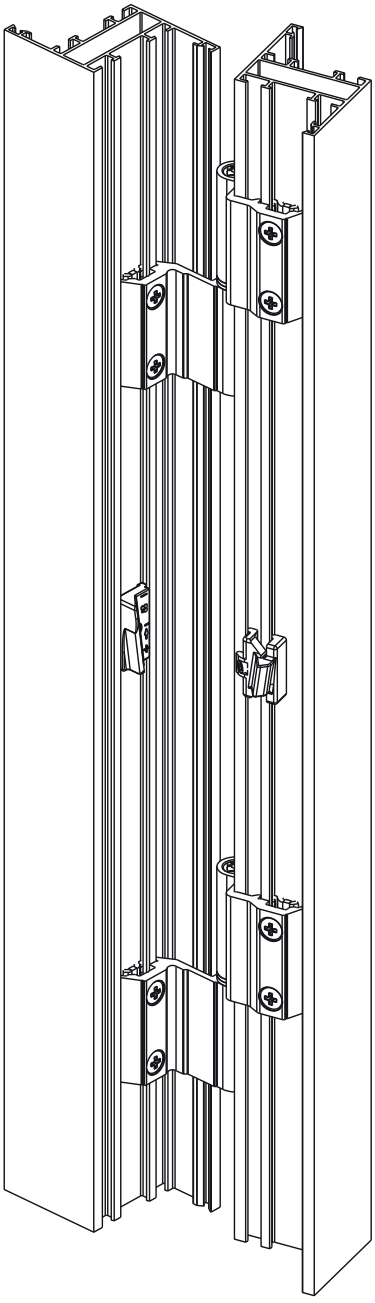
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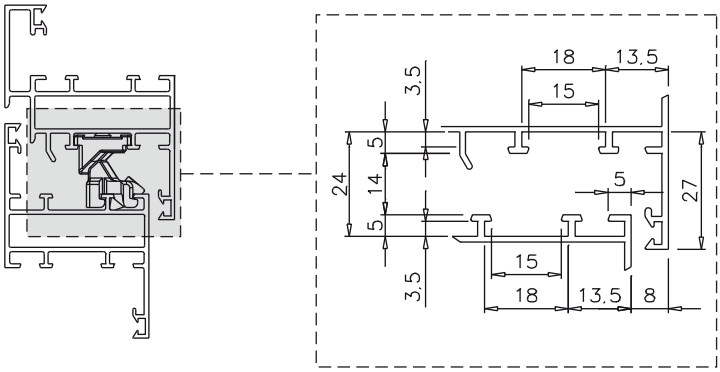


ADJUSTABLE FASTENING ELEMENT

Functions
This adjustable fastening element can be used to create supplementary locking points on any aluminium frame, giving extra strength to the entire structure.

Materials
Burglar bolt and striker in zamak
Stainless steel grub screws





Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01391	ADJUSTABLE FASTENING ELEMENT	C007	X				50

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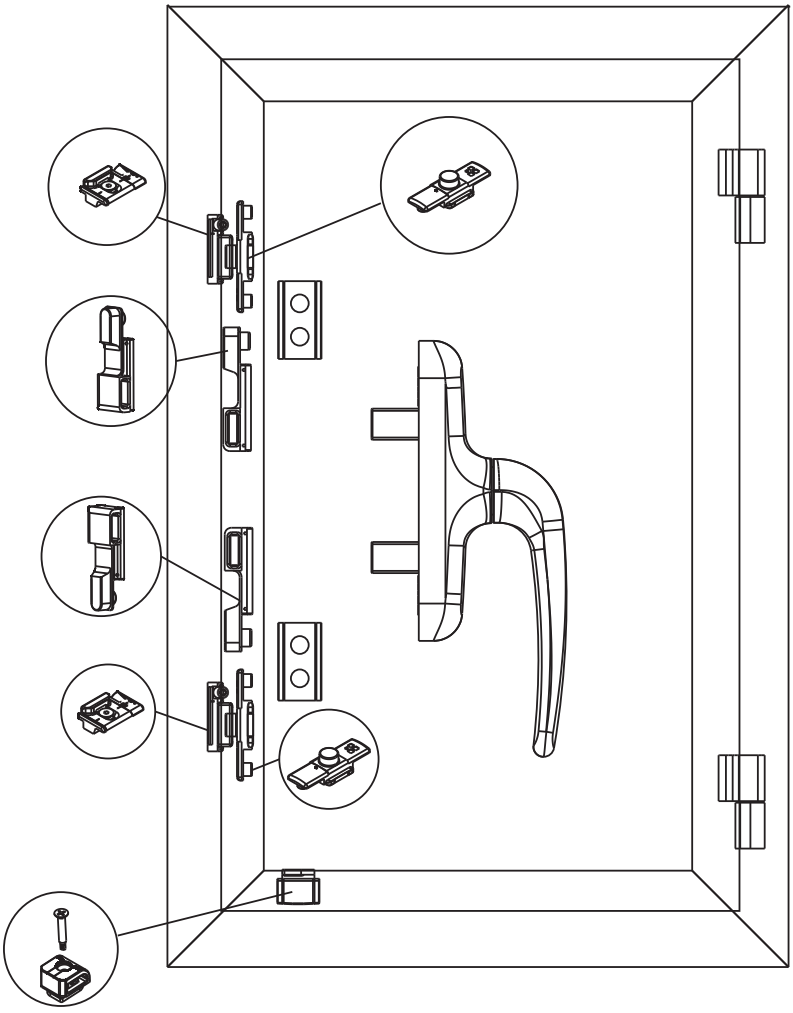


KIT FOR TWO-WAY SASH CLOSING

Functions
Two-way sash fastening mechanism. For use on casements that require side-hung sash opening.

Technical Features
The sash fastening mechanism is available in different versions: fastening by pawls, fastening by Giap terminals, fastening by adjustable terminals and perimeter fastening by corner drives.
The fastening mechanism is to be in addition to the Euro or Prima Cremone and the Flash Base hinges.

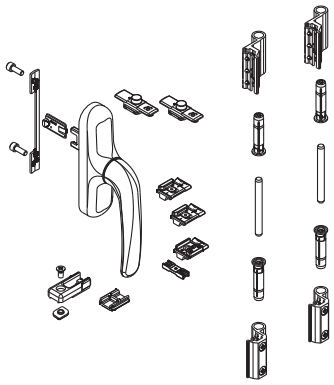
Materials
Connecting blocks and raiser made of polyamide
Zamak fastening mechanism components
Screws and grub screws in stainless steel



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Item code	Description	PROFILE CROSS - SECTION	Bolt channel	Fastening mechanism with pawls	Fastening mechanism with Giap terminals	Fastening mechanism with Adjustable terminals	Perimetral Closing	Striker material	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01183K	SASH KIT WITH PROVE-DAL TWO-WAY CLOSING	see Where Used Giesse	-	-	X	-	-	GS Silver Plus zamak			X		20
02129	SASH FASTENING SYSTEM	C007	15 ÷ 18	-	X	-	-	Black poly-amide	X				40
02256K	SASH FASTENING SYSTEM	C001-C002-C003-C004-C005-C012-C013-C014-C015-C016-C017	-	-	X	-	-	GS Silver Plus zamak	X				20
02256N	SASH FASTENING SYSTEM	C001-C002-C003-C004-C005-C012-C013-C014-C015-C016-C017	-	-	X	-	-	GS500 zamak	X				20
02258K	FASTENER KIT FOR TWO GACS SASHES	C001-C002-C003-C004-C005-C012-C013-C014-C015-C016-C017	15 ÷ 20	-	X	-	-	Grey poly-amide	X				20
02270	SASH FASTENING SYSTEM	C001-C002-C003-C004-C005-C012-C013-C014-C015-C016-C017	-	-	X	-	-	Black poly-amide	X				170
02270K	SASH FASTENING SYSTEM	C001-C002-C003-C004-C005-C012-C013-C014-C015-C016-C017	-	-	X	-	-	Grey poly-amide	X				170
02271	SASH FASTENING SYSTEM	C008	-	-	X	-	-	Black poly-amide	X				110
02571K	KIT FOR SASH-PAWL CLOSING	C001-C002-C003-C005-C012-C013-C014-C015-C016-C017	-	X	-	-	-	GS Silver Plus zamak	X				10
02574K	KIT FOR SASH-GIAP TERMINAL CLOSING	C001-C002-C003-C005-C012-C013-C014-C015-C016-C017	-	-	X	-	-	GS Silver Plus zamak	X				10
02577K	SASH FASTENER KIT WITH ADJ. TERMINAL	C001-C002-C003-C005-C012-C013-C014-C015-C016-C017	-	-	-	X	-	GS Silver Plus zamak	X				10
02578K	KIT FOR SASH-PERIME-TER CLOSING	C001-C002-C003-C005-C012-C013-C014-C015-C016-C017	-	-	-	-	X	GS Silver Plus zamak	X				10
02579K	KIT FOR SASH-PERIME-TER CLOSING	C007	-	-	-	-	X	GS Silver Plus zamak	X				10
02589K	ADDITIONAL FASTENER KIT	C001-C002-C003-C004-C012-C013-C014-C015-C016-C017	-	-	-	-	-	GS Silver Plus zamak	X				10

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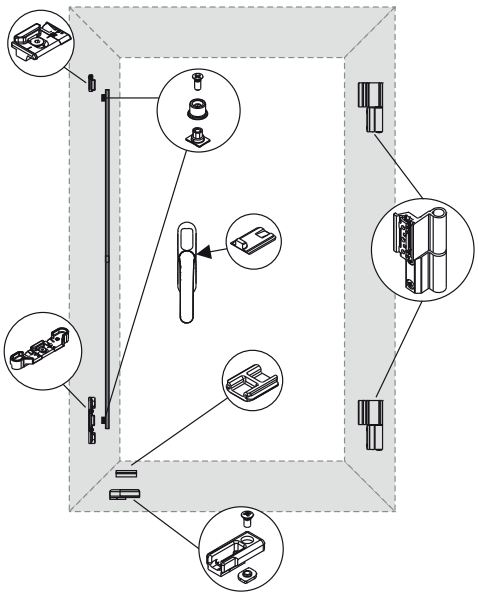


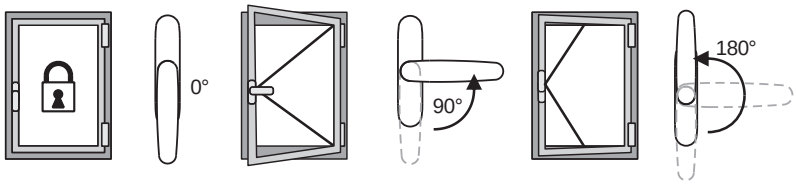
KIT FOR ONE-WAY SASH CLOSING

Functions
Kit for side-hung sash fastening mechanism complete with PRIMA cremone and FLASH BASE hinges.

Technical Features
Kit comprising Cremone, hinges and fastening strikers allowing side-hung opening featuring a one-way fastening system.
A version is also available with a micro-ventilation device that enables gradual air recirculation.

Materials
Closing striker, microventilation striker, drive rod slider and connection element in zamak
Extruded aluminium hinges
Double striker and lifter in polyamide
Cremone fixing plate, cams and screws in stainless steel
Cremone handle in die-cast aluminium
Case, gear, slider and incorrect movement safety device in die-cast zamak





Item code	Description	PROFILE CROSS - SECTION	Pull handle 0°	Pull handle 90°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01181K	SASH KIT WITH ONE-WAY CLOSING	C007	Closed	open	-	X		X		20
01184K	SASH KIT WITH ONE-WAY CLOSING	C001	Closed	open	Micro-ventilation	X		X		20
01185K	SASH KIT WITH ONE-WAY CLOSING	C003	Closed	open	Micro-ventilation	X		X		20
01187	SASH KIT WITH ONE-WAY CLOSING	C001	-	-	-	X		X		20
01188	SASH KIT WITH ONE-WAY CLOSING	C003	-	-	-	X		X		20

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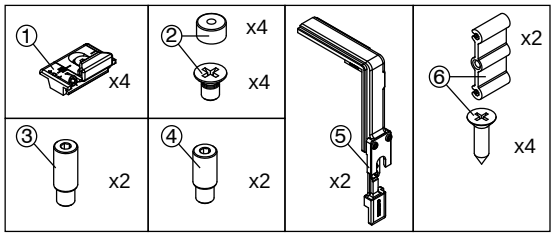


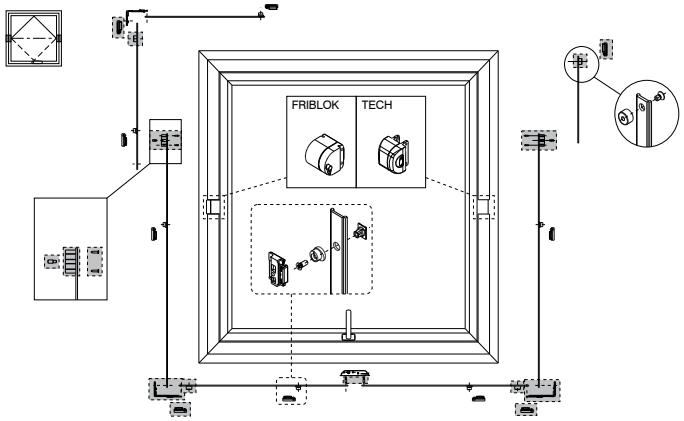
PERIMETER FASTENER KIT

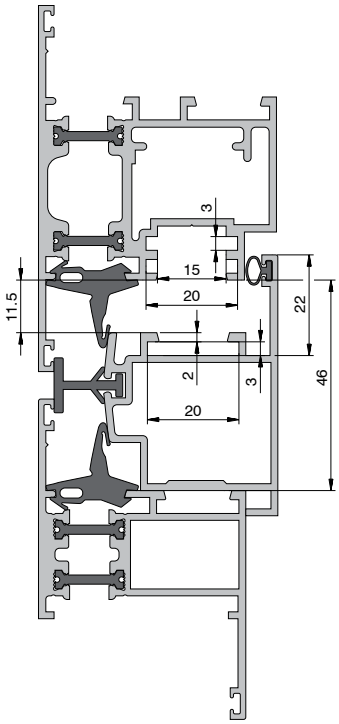
Functions
Kit for making a multi-locking system for pivoting windows.

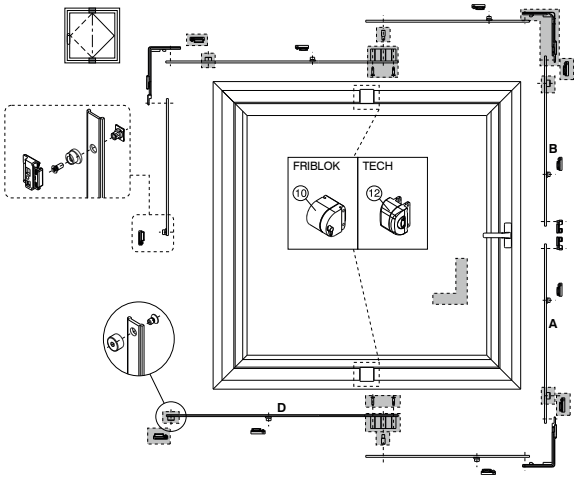
Technical features
The kit is composed of a set of Giesse accessories that allow closing on all 4 sides of a pivoting window, be it vertical or horizontal:
- 2 corner drives (5)
- 4 adjustable fastener strikers (1)
- 4 fixing screws (2)
- 2 connecting pins size 24 mm (3)
- 2 connecting pins size 21 mm (4)
- 2 connecting squares (6)

Materials
Drive and locking striker in zamak with GS Silver Plus finish (up to 500 h corrosion resistance)
Pins of zinc-nickel plated steel









Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02197K	PERIMETER FASTENER KIT	P001-P009	X				4

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PERIMETER FASTENER KIT

Functions

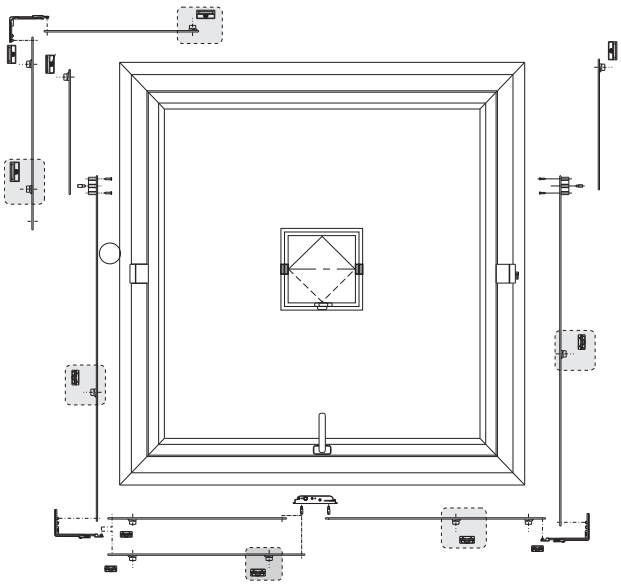
Mechanism used to raise the level of weather sealing of pivoting windows, even of considerable size allowing fastening on more than one side.

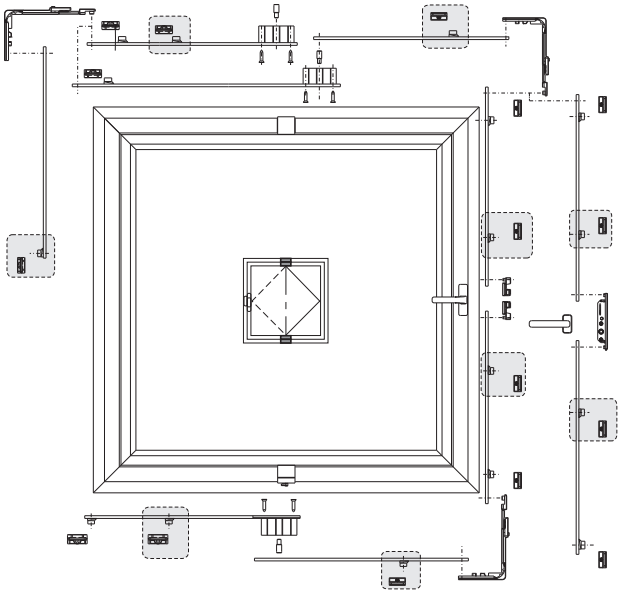
Technical features

Enables closing the pivoting window on 3 sides: the window handle side plus the two pivot hinge sides. It can be used on either horizontal or vertical pivoting windows.
For use in combination with the FRIBLOK of the series art. 01416 with a window handle made by Giesse and the internal mechanism art. 01025K.
Operating the window handle, connected to the rack mechanism via a 7 mm square spindle, transmits the movement to the connection rods that via the corner drives enable closing on the pivot hinge sides.
A specific shim allows the movement of the rods to pass from the T channels to that of the sash overlap profile, allowing closure even beyond the pivot hinge.
If you wish to have locking on all the sides, so even on the opposite side to the window handle, you will have to use: the corner drive art. 04020K, pawl art. 04030K and the striker art. 01343K.

Materials

Drive and locking striker in zamak with GS Silver Plus finish (up to 500 h corrosion resistance)
Pins of zinc-nickel plated steel





Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02223K	PERIMETER FASTENER KIT	P005	X				4

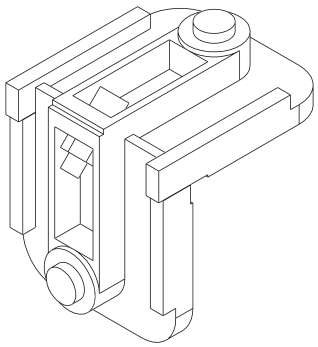
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CAP PLUGS COMPENSATORS CORNER JOINTS

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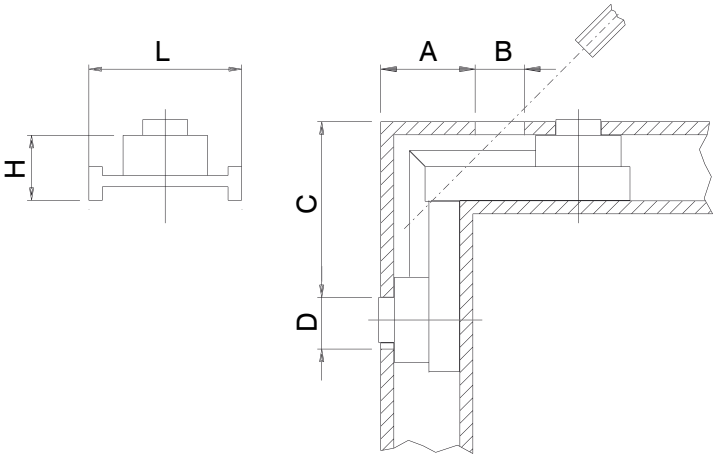
SNAP-MOUNTING CORNER JOINTS

Functions
Snap-mounting joint for assembling aluminium profiles on a corner.

Technical Features
Corner joint with buttons dia. 10 mm.
The two spring-loaded buttons enable quick and secure assembly.
The closing screw and locknut makes for quick assembly of the parts.
Specific for joining profiles with 45° end cut.

Materials
Corner joint in die-cast aluminium with snap-mounting anchoring buttons.

Snap-mounting corner joint



Item code	Description	L (mm)	H (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Button	Centred button	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00305	SNAP-MOUNTING CORNER JOINT	36	14	21	11x6	41	10,5	External	Yes		X				250
00313	SNAP-MOUNTING CORNER JOINT	28,5	14,5	21	11x6	41,5	11,5	External	Yes		X				250
00367	SNAP-MOUNTING CORNER JOINT	28,5	34,8	26	13x8	47	10,5	External	Yes		X				200
00380	SNAP-MOUNTING CORNER JOINT	24	10,6	14,5	11x6	36,5	10,5	External	Yes		X				250
06575	SNAP-MOUNTING CORNER JOINT	16,8	14,3	21	11x6	41	10	External	Yes		X				250

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KAMEL SNAP-MOUNTING CORNER JOINTS

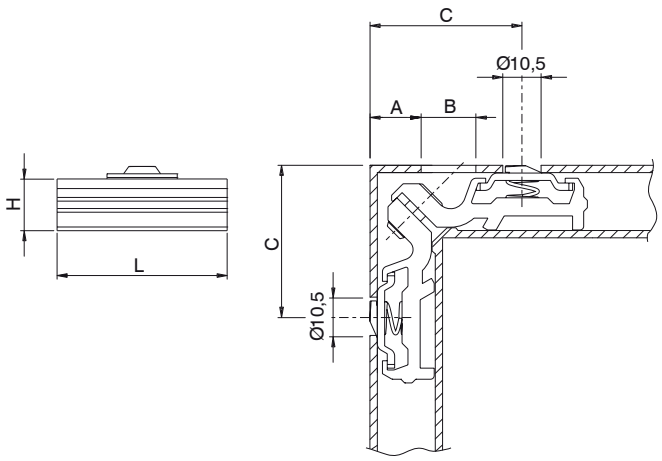
Functions
Snap-mounting joint for assembling aluminium profiles on a corner.

Technical Features
Corner joint with external buttons dia. 10 mm
The two spring-loaded buttons enable quick and secure assembly.
The closing screw makes for quick assembly of the parts.
Specific for joining profiles with 45° end cut.
Oversized tubular sections need to be coupled with a shimming bracket (see table).

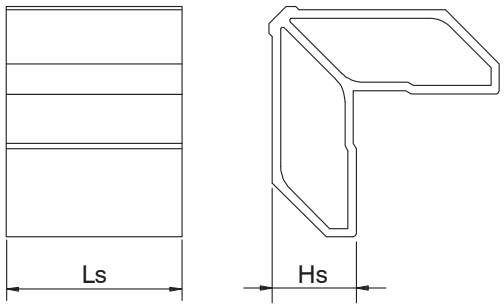
Materials
Extruded aluminium
Screw in Geomet and buttons in steel with GS Silver Plus finish (over 500 hours of corrosion resistance)
Springs in stainless steel

Parts
CSH screw M6x14.8

Kamel snap-mounting corner joint



Shimming bracket



Item code	Description	L (mm)	H (mm)	A (mm)	B (mm)	C (mm)	Centred button	Shimming bracket	Ls (mm)	Hs (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00332	KAMEL snap-mounting CORNER JOINT	20,2	14,1÷15,5	15	14x5	43	Yes	03602	20,2	16	X				250
00336	KAMEL snap-mounting CORNER JOINT	46	14,1÷15,5	14	14x5	42	Yes	00337	-	-	X				100
00337	SHIMMING BRACKET	-	-	-	-	-	-	-	46	23,7	X				100
00338	KAMEL snap-mounting CORNER JOINT	28,5	14,1÷15,5	14	14x5	43	No	00339	-	-	X				50
00339	SHIMMING BRACKET	-	-	-	-	-	-	-	28,5	23,7	X				100
00340	KAMEL CORNER JOINT + SHIMMING BRACKET	40,9	37,8÷39,2	15	14x5	43	Yes	-	41,1	21,7	X				50
00344	KAMEL snap-mounting CORNER JOINT	28,5	14,1÷15,5	14	14x5	37,25	Yes	00339	28,5	23,7	X				100
00348	KAMEL snap-mounting CORNER JOINT	34,5	14,1÷15,5	14	14x6	42	No	00349	-	-	X				50
00349	SHIMMING BRACKET	-	-	-	-	-	-	-	34,5	23,7	X				100
00357	KAMEL snap-mounting CORNER JOINT	33,9	14,1÷15,5	14	14x5	43	Yes	-	33,9	21,7	X				100

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KAMELDUE SNAP-MOUNTING CORNER JOINTS

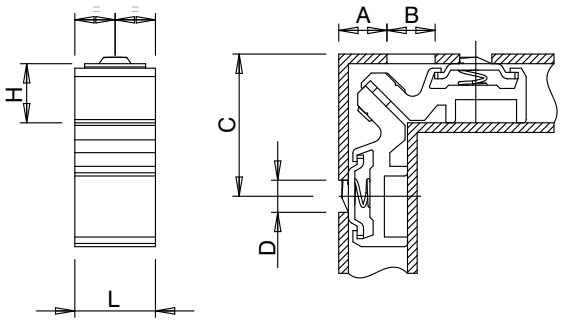
Functions
Snap-mounting joint for assembling aluminium profiles on a corner.

Technical Features
Corner joint with external buttons dia. 10 mm.
The two spring-loaded buttons enable quick and secure assembly.
The closing screw makes for quick assembly of the parts.
Specific for joining profiles with 45° end cut.
For oversized profiles a shimming bracket is available.

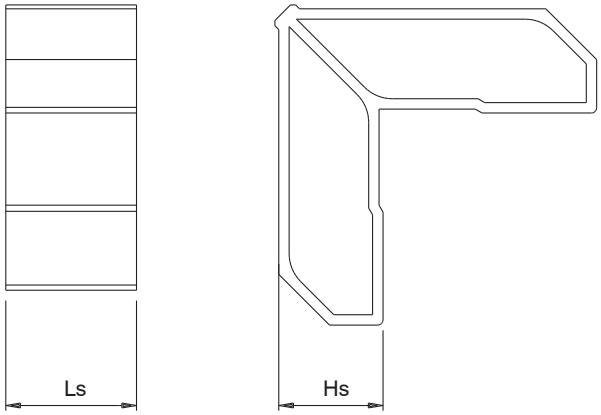
Materials
Body in extruded aluminium
Screw in Geomet and buttons in steel with GS Silver Plus finish (over 500 hours of corrosion resistance).
Springs in stainless steel

Parts
CSH screw M6x14.8

Kameldue snap-mounting corner joint



Shimming bracket



Item code	Description	L (mm)	H (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Centred button	Ls (mm)	Hs (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00330	KAMELDUE snap-mounting CORNER JOINT	25,1	17,4÷18,5	15	14x5	43	10,5	Yes	-	-	X				100
00335	SHIMMING BRACKET	-	-	-	-	-	-	-	25,1	20	X				100

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KAPPA SNAP-MOUNTING CORNER JOINTS



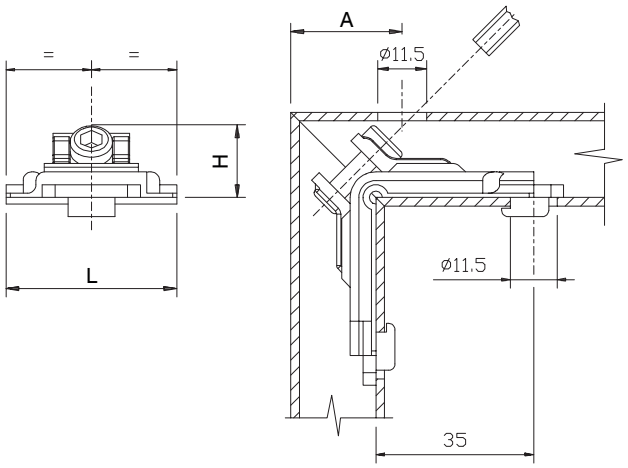
Functions
Joining element, for corner connection of aluminium profiles.

Technical Features
Corner joint with internal buttons dia. 10mm.
Made entirely of steel.
The closing screw makes for quick assembly of the parts.
Specific for joining profiles with 45° end cut.

Materials
Body, corner guide, expansion spring and screw in zinc plated steel.

Parts
HSH screw M6x16

Kappa snap-mounting corner joint



Item code	Description	L (mm)	H (mm)	A (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00321010	KAPPA steel CORNER JOINT	35,5	MIN.14.5	25	X				200
00322010	KAPPA steel CORNER JOINT	41	MIN.14.5	see Where Used Giesse	X				200
00323010	KAPPA steel CORNER JOINT	45	MIN.14.5	see Where Used Giesse	X				200

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REX SNAP-MOUNTING CORNER JOINTS

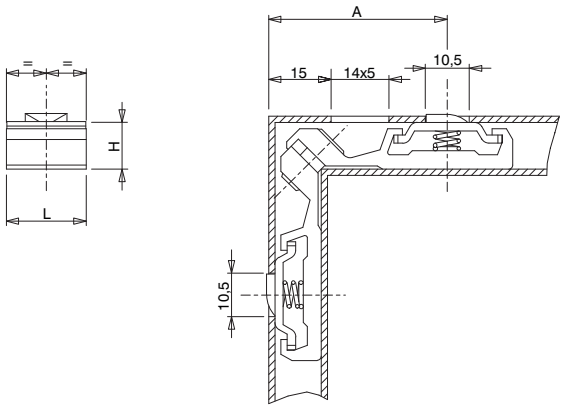
Functions
Snap-mounting joint for assembling aluminium profiles on a corner.

Technical Features
Corner joint with external buttons dia. 10 mm.
The two spring-loaded buttons enable quick and secure assembly.
The closing screw makes for quick assembly of the parts.
Specific for joining profiles with 45° end cut.

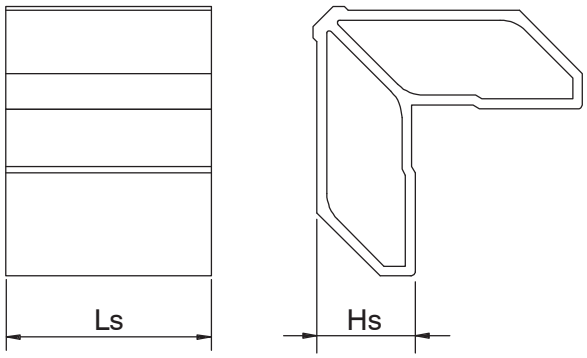
Materials
Body in extruded aluminium
Screw in Geomet and buttons in steel with GS Silver Plus finish (over 500 hours of corrosion resistance)
Springs in stainless steel

Parts
CSH screw M6 x 14.8

Rex snap-mounting corner joint

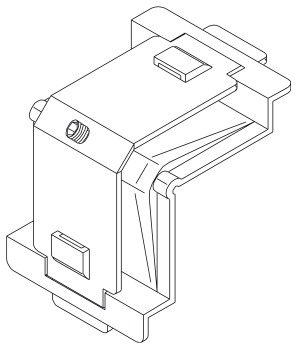


Shimming bracket



Item code	Description	L (mm)	H (mm)	A (mm)	Matching products	Ls (mm)	Hs (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00325	REX snap-mounting CORNER JOINT	19,2	10,3÷11,2	42÷43	-	-	-	X				250
00326	REX snap-mounting CORNER JOINT	28,5	10,3÷11,2	42÷43	-	-	-	X				250
00334	SHIMMING BRACKET	-	-	-	00356	30,4	23,7	X				100
00350	REX snap-mounting CORNER JOINT	41	10,3÷11,2	42÷43	-	-	-	X				250
00351X	REX snap-mounting CORNER JOINT	24	10,3÷11,2	42÷43	-	-	-	X				250
00352	REX snap-mounting CORNER JOINT	22,4	10,3÷11,2	43	-	-	-	X				250
00356	REX snap-mounting CORNER JOINT	35,7	10,3÷11,2	42÷43	00334	-	-	X				250

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THEMA SNAP-MOUNTING CORNER JOINTS

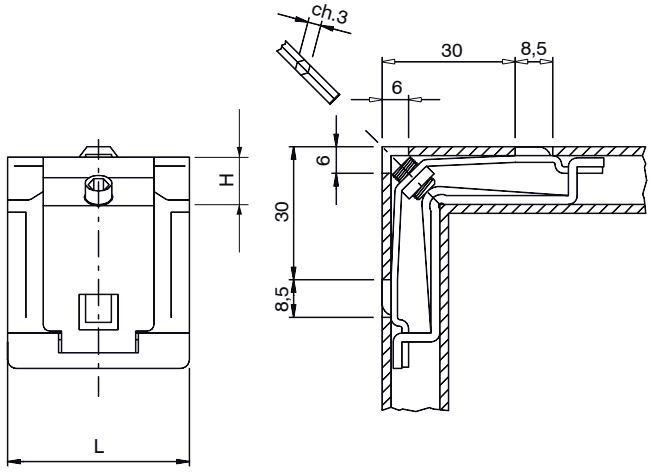
Functions
Joining element for corner connection of aluminium profiles.

Technical Features
Specific for joining profiles with 45° end cut
Very sturdy and reliable, it enables locking the corners perfectly and solidly.
The machining necessary for accommodating the buttons and the tightening key are positioned on the same side of the tubular section and are particularly simple and quick.

Materials
Slider, square and grub screw in zinc plated steel.

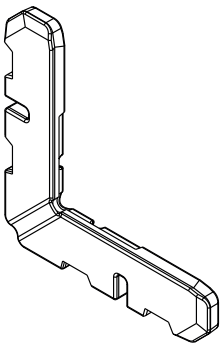
Parts
Grub screw M6x8

Thema snap-mounting corner joint



Item code	Description	L (mm)	H (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00347	THEMA steel CORNER JOINT	41	10,5	X				250

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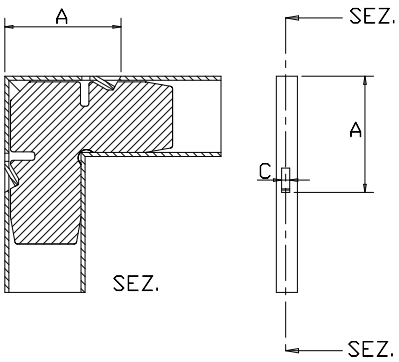


CORNER JOINTS FOR STAKING

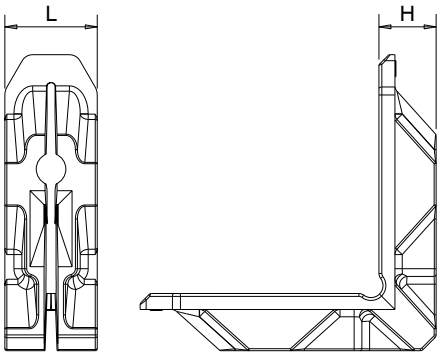
Functions
Joining element to be inserted in the tubular section, with staked fixing, for corner connection of aluminium profiles.

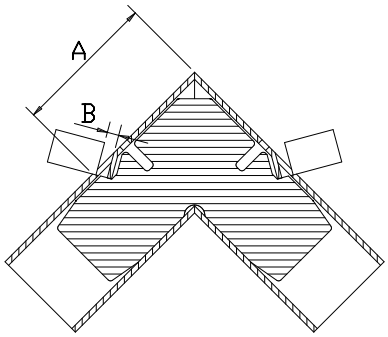
Technical Features
Corner joint with fixing by staking specific for joining profiles with 45° end cut.

Materials
Body in die-cast aluminium



Corner joint for staking





Item code	Description	L (mm)	H (mm)	A (mm)	B (mm)	C (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
06577	CORNER JOINT FOR STAKING	23,1	14,3	43	5	10	X				200

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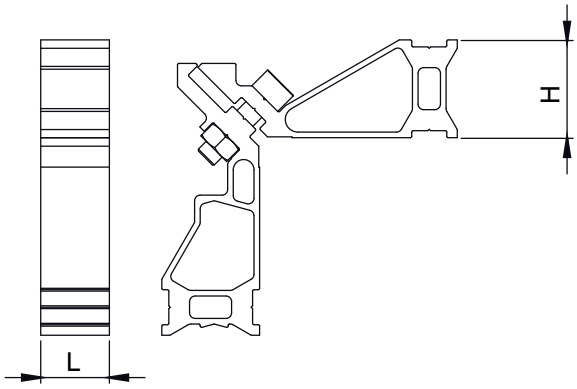
SCREW CORNER JOINTS

Functions
Joining element for corner connection of aluminium profiles.

Technical Features
Specific for joining profiles with 45° end cut.
Very sturdy and reliable, they enable locking the corners perfectly and solidly.

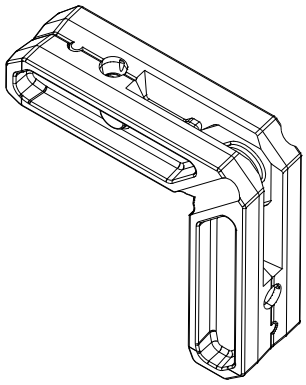
Materials
Extruded aluminium body, zinc plated bolt and nut.

Screw corner joint



Item code	Description	L (mm)	H (mm)	Pair	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00397	CORNER JOINT FOR SCREWING ON	28,5	34,9	Yes	X				10
00398	CORNER JOINT FOR SCREWING ON	45,8	34,9	No	X				20
06791	CORNER JOINT FOR SCREWING ON	28,1	9,6	No	X				50

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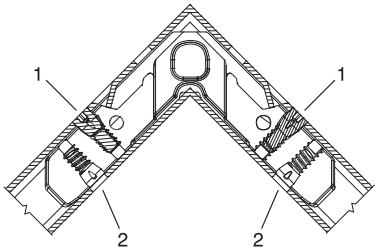


MULTIFUNCTION CORNER JOINT

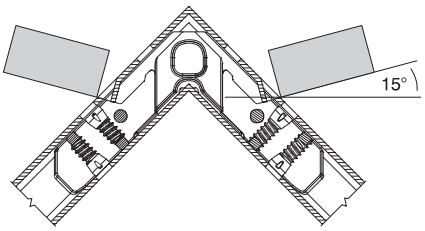
Functions
Joining element for corner connection of aluminium profiles.

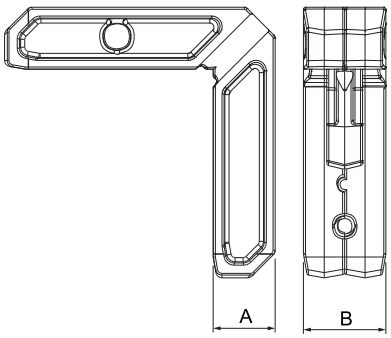
Technical Features
Multipurpose corner joint: for screwing (in combination with certain screws), pinning or crimping with special grooves for the glue to run along.

Tightening with screw: (1) outward opening (2) inward opening



Tightening with crimping





Item code	Description	A (mm)	B (mm)	Can be combined with	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
06521	SCREW M5X14_D8	14	Ø8	06532, 06533, 06534, 06535	X				1000
06532	MULTI-FUNCTIONAL CORNER JOINT	14,4	23	06521	X				200
06533	MULTI-FUNCTIONAL CORNER JOINT	14,3	16,8	06521	X				200
06535	MULTI-FUNCTIONAL CORNER JOINT	14,5	19,5	06521	X				200

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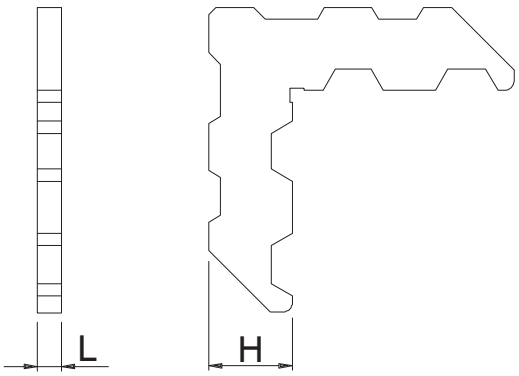


ALIGNMENT CORNER JOINTS

Functions
Pressure fitting corner joints which join and align the walls.

Technical Features
Required to align the walls once the window/door has been assembled.
Quick and easy press-fitting design.

Alignment corner joint



Item code	Description	L (mm)	H (mm)	Material	Notes	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00360	ALIGNMENT CORNER JOINT	5,1	17,5	Aluminium	-	X				100
00362	ALIGNMENT CORNER JOINT	5,1	37,5	Aluminium	-	X				100
00363	ALIGNMENT CORNER JOINT	5,1	10	Aluminium	-	X				100
00365	ALIGNMENT CORNER JOINT	1,7	4,7	Stainless Steel	-	X				1000
00366	ALIGNMENT CORNER JOINT	6	26,5	Polyamide	-	X				200
01224	ALIGNMENT CORNER JOINT	3,6	16,1	Polyamide	-	X				200
02368	ALIGNMENT CORNER JOINT	2,8	14,2	Polyamide	-	X				200
03463	ALIGNMENT CORNER JOINT	1,8	17,4	Polyamide	-	X				200
06528	ALIGNMENT CORNER JOINT	4,1	19,3	Aluminium	-	X				250
06529	ALIGNMENT CORNER JOINT	4,1	16,3	Aluminium	-	X				250
06579	ALIGNMENT CORNER JOINT	4,8	16,2	Aluminium	-	X				250

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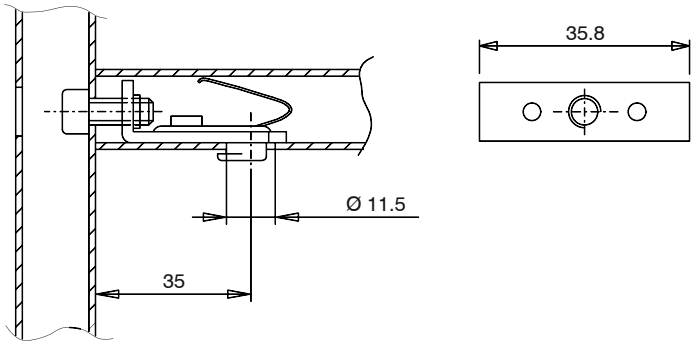


ALEX STEEL T-JOINTS

Functions
Head joint for the T-connection of extruded aluminium profiles, quick to mount and secure.

Technical Features
Drilled and tapped M6.
The coupling nib forms a single body with its structure (exploiting the features of the KAPPA corner joint).
The plate spring supplied allows safe and rapid positioning.
Since the T-joint is clamping, it is locked on tightening the M6 screw not supplied.

Materials
Body of zinc plated steel
Spring in hardened steel.



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00471	ALEX STEEL T-JOINT	35.8x14 mm	X				100

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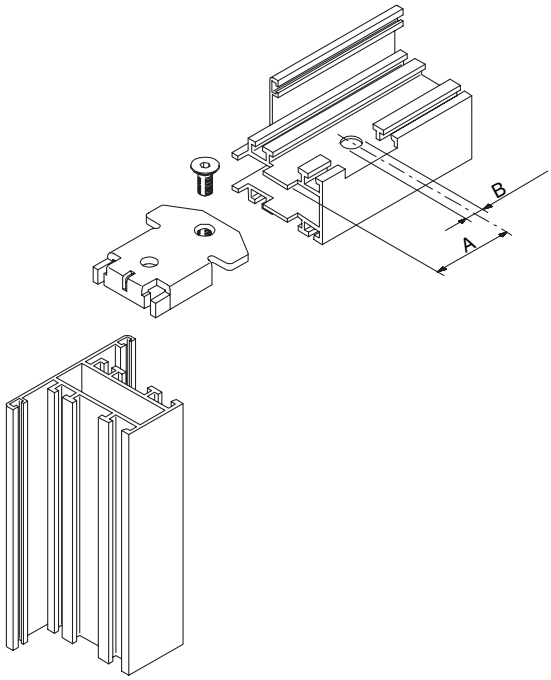
ROBUR STEEL T-JOINTS

Functions
Head joint for the cross and T-connection of extruded aluminium profiles, quick to mount and secure.

Technical Features
Since the T-joint is clamping, it is locked on tightening the screw.
Using two opposing T-joints enables cross-joining the profiles.

Materials
Body and closing screw in zinc plated steel

Parts
1 Closing screw M8x13



Item code	Description	A (mm)	B (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00476	ROBUR T-JOINT	35	10,5	X				100
00477	ROBUR T-JOINT	35	10,5	X				100
00481	ROBUR T-JOINT	35	11,5	X				50

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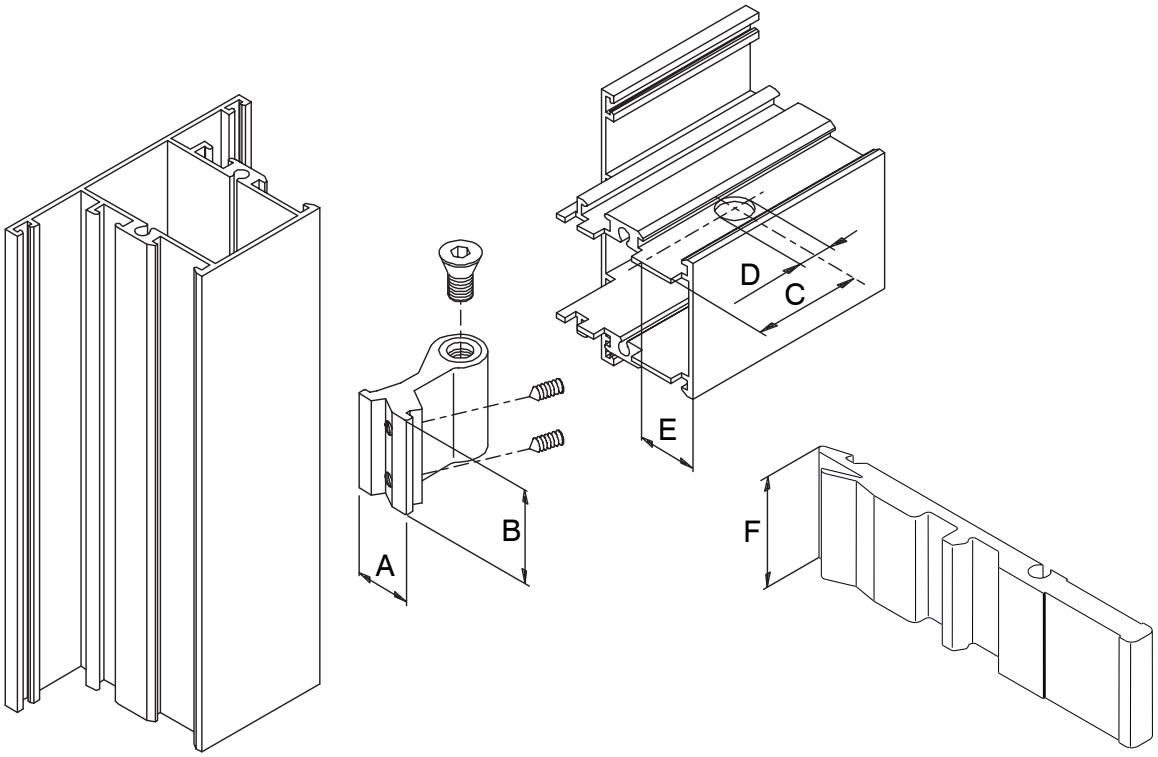


EXTRUDED ALUMINIUM T-JOINTS

Functions
Head joint for the cross and T-connection of extruded aluminium profiles, quick to mount and secure.

Technical Features
Joint for the cross and T-connection of extruded aluminium profiles, quick to mount and secure.
They are equipped with a special pull screw that prevents any interference with the glazing bead.

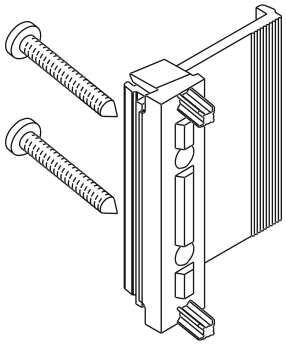
Materials
Body in extruded aluminium.
Zinc plated steel screw.
Zinc plated steel grub screw.



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Item code	Description	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Notes	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00420	EXTRUDED ALUMINIUM T-JOINT	30,7	14,15	33	11,5	-	-	-	X				100
00425	EXTRUDED ALUMINIUM T-JOINT	17,5	14,7	33	11,5	14,5	-	-	X				100
00428N	EXTRUDED ALUMINIUM T-JOINT	17,5	14,1	27,5	10,5	11,7	-	-	X				100
00429	EXTRUDED ALUMINIUM T-JOINT	17,5	10,7	27,5	10,5	11,6	-	-	X				100
00430N	EXTRUDED ALUMINIUM T-JOINT	17,5	20	27,5	10,5	11,6	-	-	X				100
00431	EXTRUDED ALUMINIUM T-JOINT	17,5	31,35	27,5	10,5	11,8	-	-	X				50
00432	EXTRUDED ALUMINIUM T-JOINT	17,5	17,55	33,3	10,5	14,5	-	-	X				100
00442	EXTRUDED ALUMINIUM T-JOINT	-	-	-	-	-	31,5	Pin	X				100
00443	EXTRUDED ALUMINIUM T-JOINT	-	-	-	-	-	102,5	Pin	X				100
00474	EXTRUDED ALUMINIUM T-JOINT	29,4	13,9	35	10,5	20,5	-	-	X				100
00475N	EXTRUDED ALUMINIUM T-JOINT	29,4	37,5	35	10,5	20,5	-	-	X				50
00479	EXTRUDED ALUMINIUM T-JOINT	34,2	38	35	10,5	20,5	-	-	X				50
00484	EXTRUDED ALUMINIUM T-JOINT	19,5	10,45	33	10,5	-	-	-	X				100
00485	EXTRUDED ALUMINIUM T-JOINT	38,6	10,5	33	10,5	-	-	-	X				100
00486	EXTRUDED ALUMINIUM T-JOINT	38,7	10	35	10,5	-	-	-	X				100
00487	EXTRUDED ALUMINIUM T-JOINT	43,7	14,5	35	10,5	-	-	-	X				100

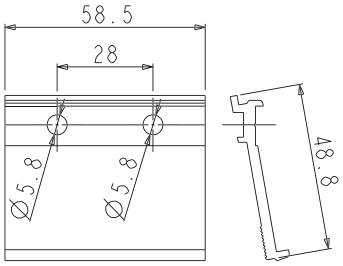
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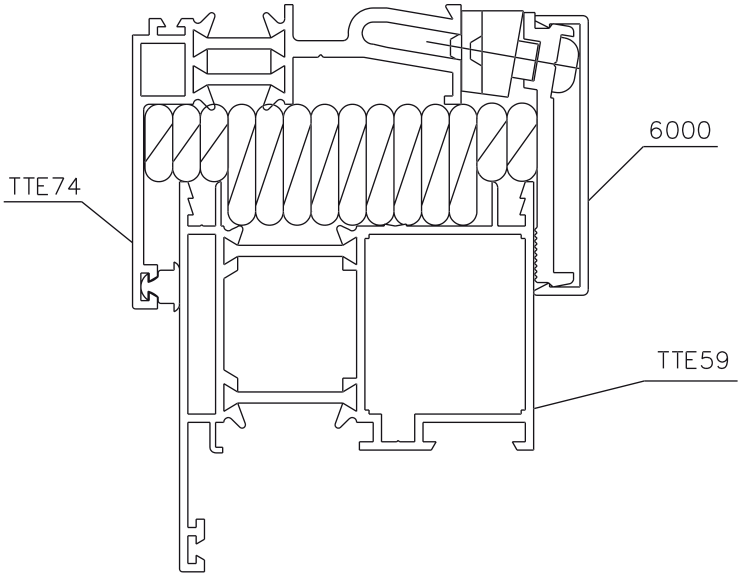


FIXING BRACKET

Functions
Wall fixing bracket, surface-mounting, for normal and insulating windows.

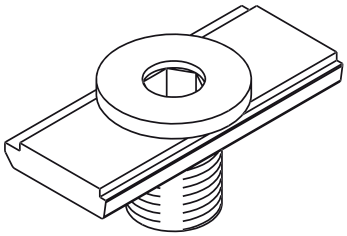
Materials
Bracket in extruded aluminium
Fibreglass reinforced polyamide shims
Zinc plated steel screws.





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01228	FIXING BRACKET	to the wall	X				50

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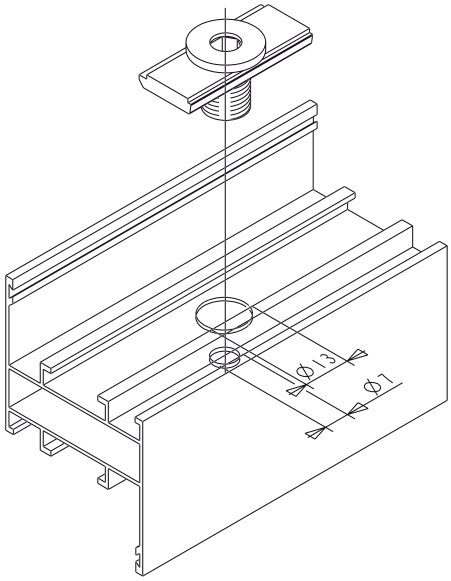


FIXING ADAPTER

Functions
Movable rule to compensate for the tolerances between the iron counterframe and the aluminium frame to be inserted in the frame on the outer side.

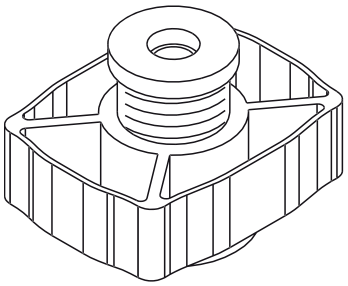
Technical features
Once the casement has been set in the specific compartment, take the pull screws to rest on the iron counter-frame and correctly position the casement. To do this, use an Allen wrench CH6.

Materials
Extruded aluminium base
Pull screw in black polyamide.



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02319	FIXING ADAPTER		X				100

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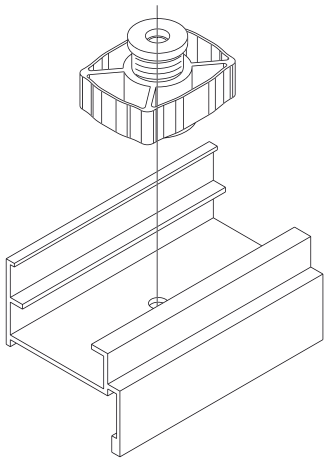


MINCIO FIXING ADAPTER

Functions
Movable rule to compensate for the tolerances between the iron counterframe and the aluminium frame to be inserted in the frame on the outer side.

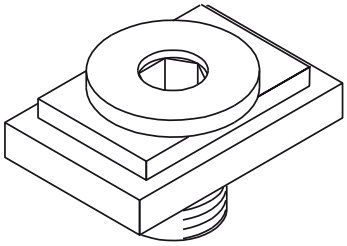
Technical features
Specific for sections 40x18/20, 50x20 and 50x25.
Once the casement has been set in the specific compartment, take the pull screws to rest on the iron counter-frame and correctly position the casement.
To do this, use an Allen wrench CH6.

Materials
Body and screw in black polyamide.



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02326	MINCIO FIXING ADAPTER	screw 40x18/20 mm - mm 50x20/25	X				100

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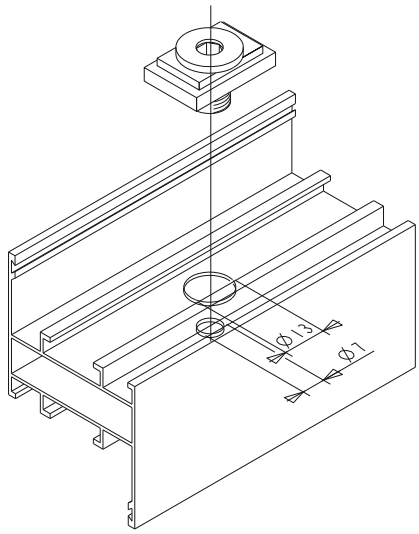


FIXING ADAPTER

Functions
Movable rule to compensate for the tolerances between the iron counterframe and the aluminium frame to be inserted in the frame on the outer side.

Technical features
Once the casement has been set in the specific compartment, take the pull screws to rest on the iron counter-frame and correctly position the casement. To do this, use an Allen wrench CH6.

Materials
Zinc plated zamak plate
Black polyamide screw



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02365	FIXING ADAPTER		X				200

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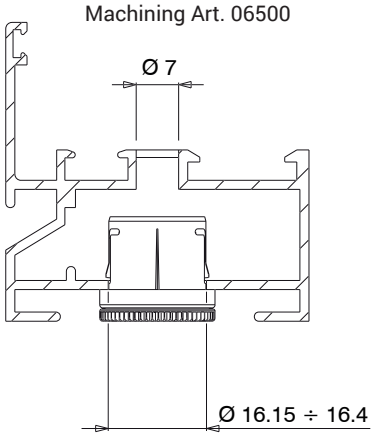
SKATTO FIXING ADAPTER

Functions
The SKATTO adjustable compensator is the smartest solution for fixing between the aluminium counter-frame and the masonry work, compensating for the existing tolerances between the two items.

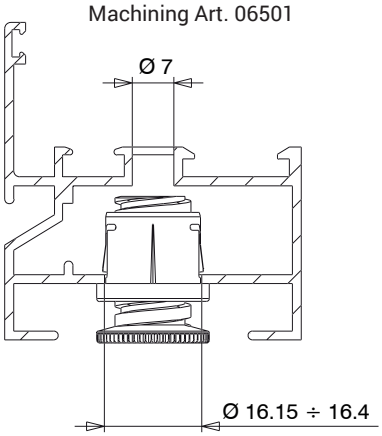
Technical features
SKATTO is quick to install and easy to adjust.

Materials
Housing in Zamak
Adjustment screw in polyamide reinforced with fibreglass.

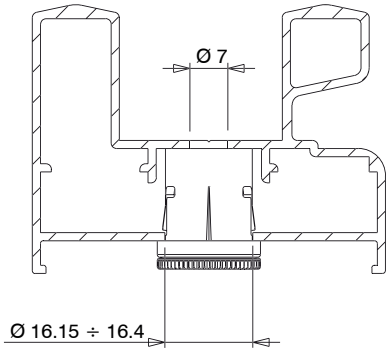
Machining Art. 06500



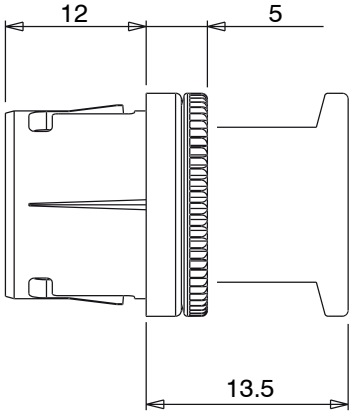
Machining Art. 06501



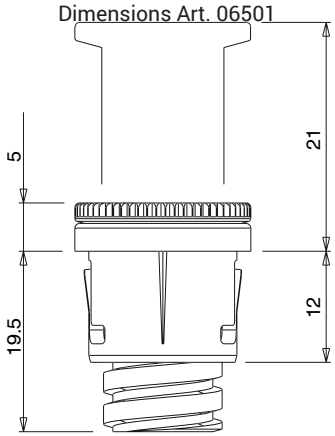
Machining Art. 06502



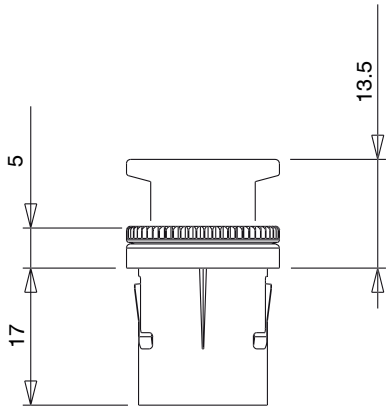
Dimensions Art. 06500



Dimensions Art. 06501

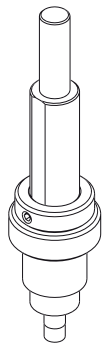


Dimensions Art. 06502



Item code	Description	Note	Base Raw	Anodised Eiox	Painted	Trend/Gold Brass	Pieces per pack
06500	SKATTO FIXING ADAPTER	screw 17.2 mm	X				500
06501	SKATTO FIXING ADAPTER	screw 24.7 mm	X				500
06502	SKATTO FIXING ADAPTER	screw 17.2 mm	X				500

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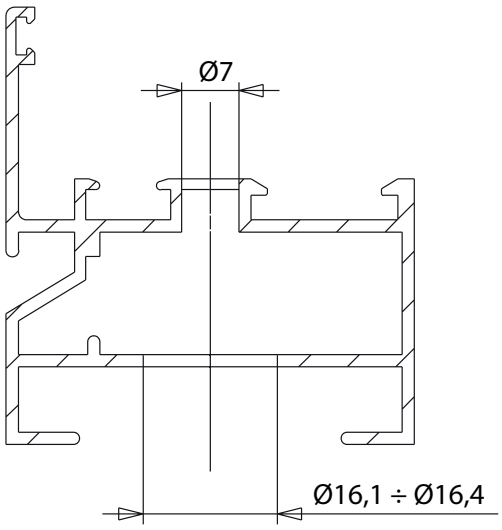


SKATTO COMPENSATOR TOOL

Functions
Tool used to do the machining for mounting the SKATTO compensator.

Technical features
It consists of an adjustable counterbore and an adjustable stop.
Counterbore tool with 2 diameters, one for fixing the compensator Ø 16.2 and one for the screw passage Ø 7.

Materials
Tool body made of special steel
Adjustable counterbore made of special steel
Adjustable stop made of treated steel
2 Flat-tipped stainless steel grub screws M 5 x 5.



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
06510	SKATTO COMPENSATOR TOOL		X				1

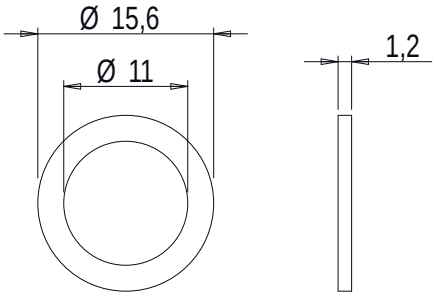
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SHIMMING WASHER

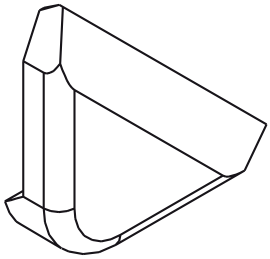
Functions
Shim washer to be used in conjunction with the Giesse hinges, when required.

Materials
Polyamide



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02301	SHIMMING WASHER		X				100

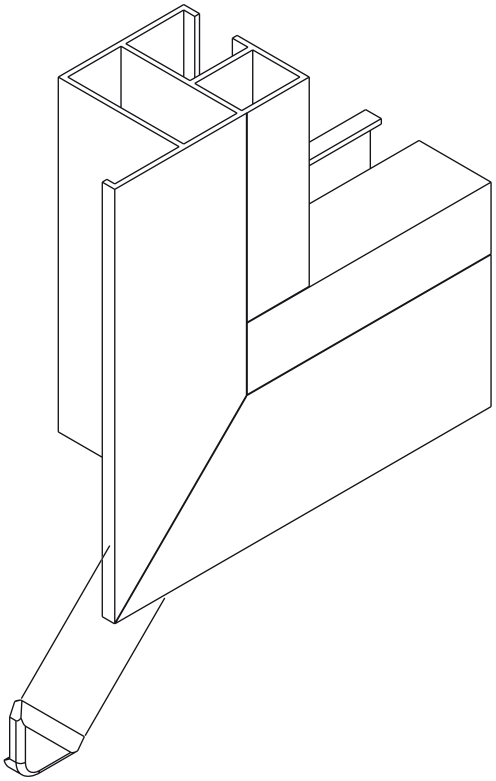
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CORNER COVER PLUG

Finish
Polyamide component to be glued in the corners of the sashes to cover sharp edges.

Materials
Black polyamide



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02394	CORNER COVER PLUG	black polyamide	X				500

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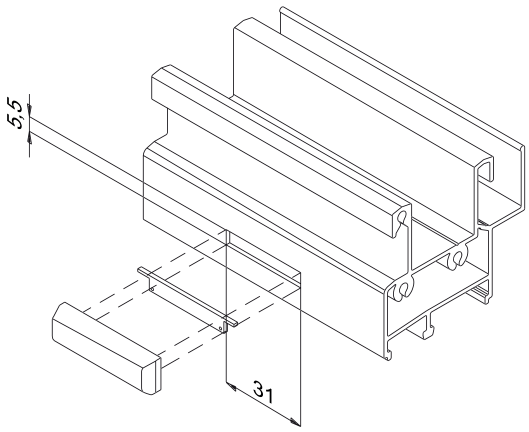
CAPS

Functions
Polyamide part with snap fitting, to be used for covering the drain slot.

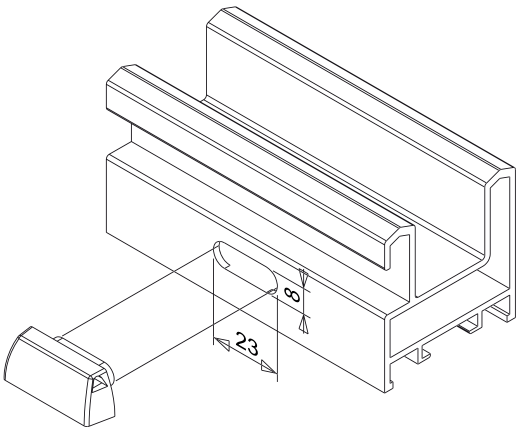
Technical Features
The drain cap has a quick-fit snap-fix fastener, on the special machinings in the figure.
Enables the water in the groove to be drained off quickly outside the room.
The particular shape of the cap and the presence of an internal valve (when fitted) allow an optimal run-off of water even under conditions of strong external pressure caused by the wind.

Materials
Black polyamide

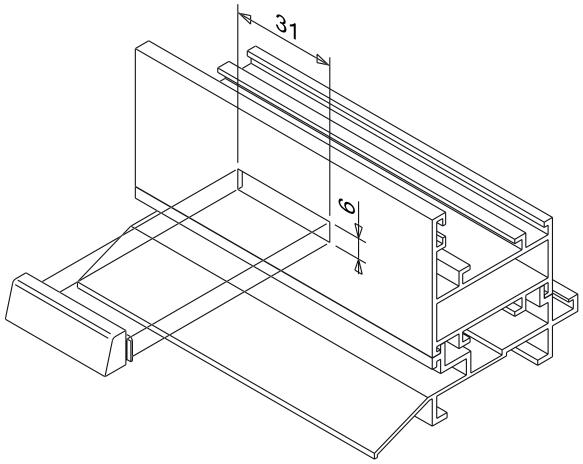
Machining art. 01261



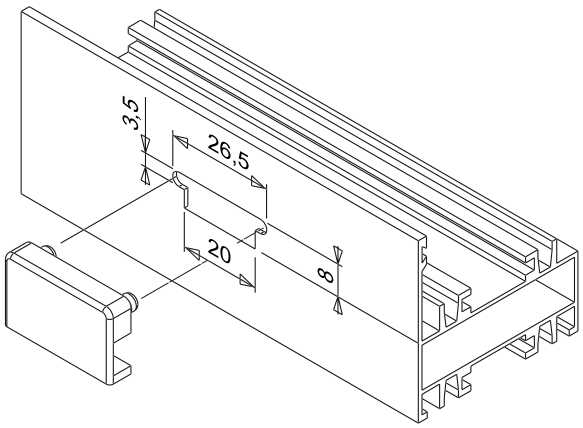
Machining art. 02282



Machining art. 02314

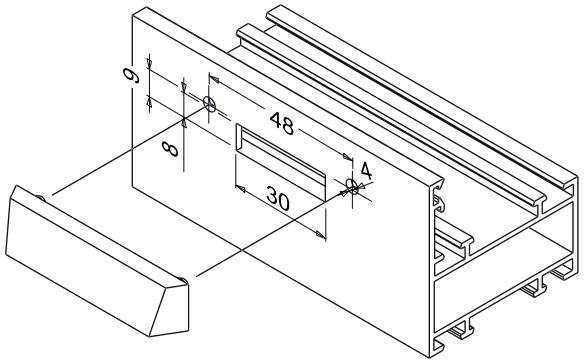


Machining art. 02328

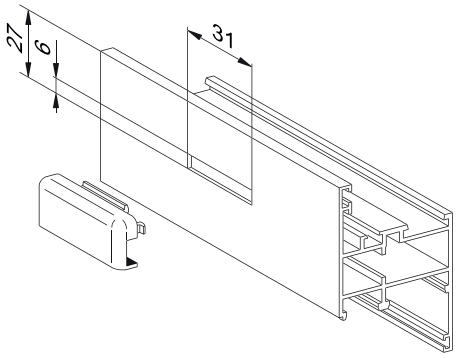


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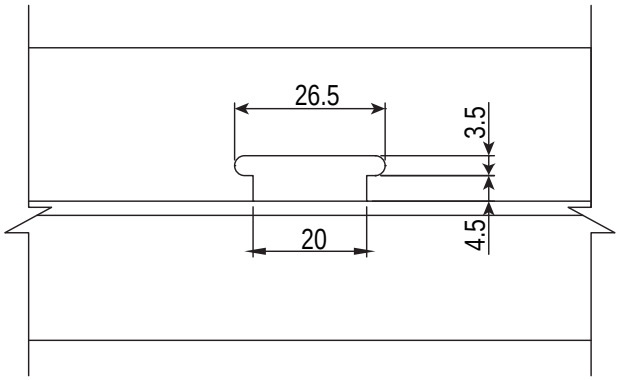
Machining art. 02354



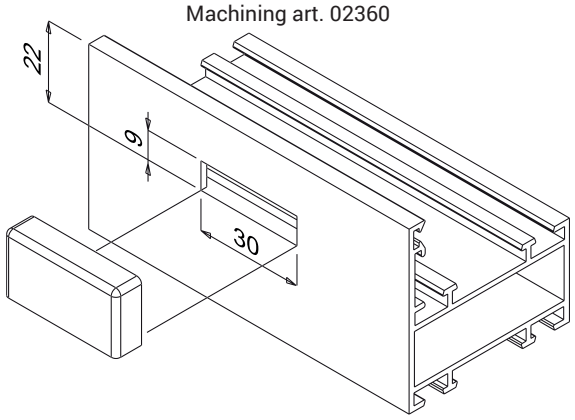
Machining art. 02357



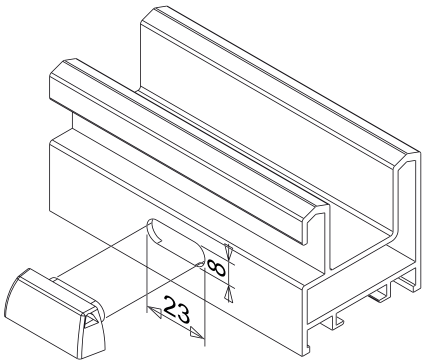
Machining art. 02359



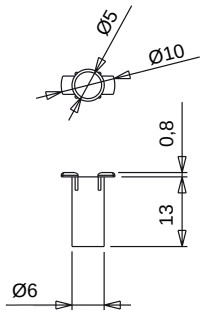
Machining art. 02360



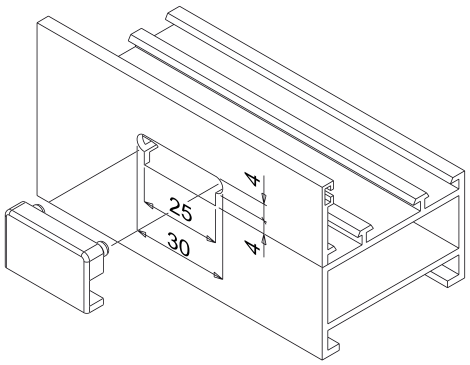
Machining art. 03149



Bushing in combination with art. 03149



Machining art. 03195



Item code	Description	Note	Material	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01261	DRAINAGE HOLE CAP	with valve	Black polyamide	X				100
02282	DRAINAGE HOLE CAP	with valve	Black polyamide	X				50
02314	DRAINAGE HOLE CAP		Black polyamide	X				1000
02328	DRAINAGE HOLE CAP		Black polyamide	X				1000
02354	DRAINAGE HOLE CAP		Black polyamide	X				1000
02357	DRAINAGE HOLE CAP		Black polyamide	X				1000
02359	DRAINAGE HOLE CAP		Black polyamide	X				1000
02360	DRAINAGE HOLE CAP		Black polyamide	X				1000
03149	DRAINAGE HOLE CAP	with pallet drain bushing and valve	Black polyamide	X				50
03195N	DRAINAGE HOLE CAP		Black polyamide	X				1000

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SASH RAISER STRIKER

Functions
Component used for restoring the position of the sash during closing.

Technical features
Used in combination with the corner drive, it shifts the weight of the sash during closing off the hinges and restores the sash to its theoretical position when it is closed.
Essential for proper isolation of the room from atmospheric agents.

Materials
Polyamide body
Stainless steel grub screws

Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01355K	SASH RAISER STRIKER	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	X				100

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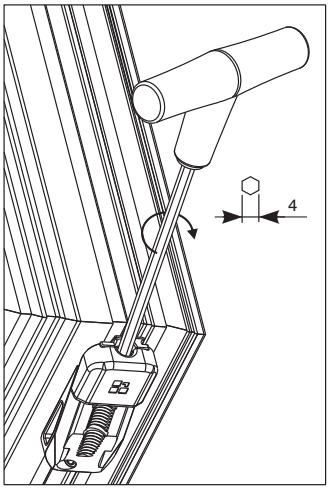


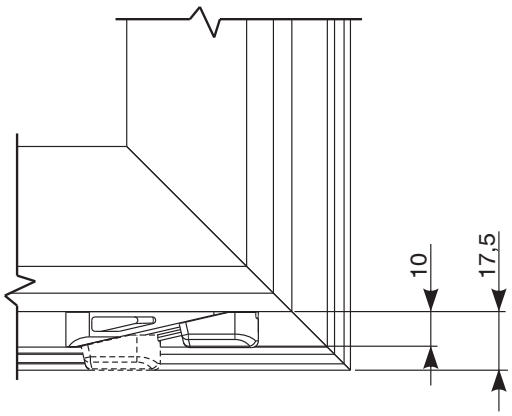
ADJUSTABLE SASH RAISER

Functions
Component used for restoring the position of the sash.

Technical features
The raiser is fixed directly into the channel of the sash and rests on the frame.
Adjustments
Using a 4 mm wrench it is possible to adjust the height of the raiser from 10 to 17.5 mm.

Materials
Polyamide





Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02196	ADJUSTABLE SASH RAISER	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	X				100

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SASH SUPPORT PLUG

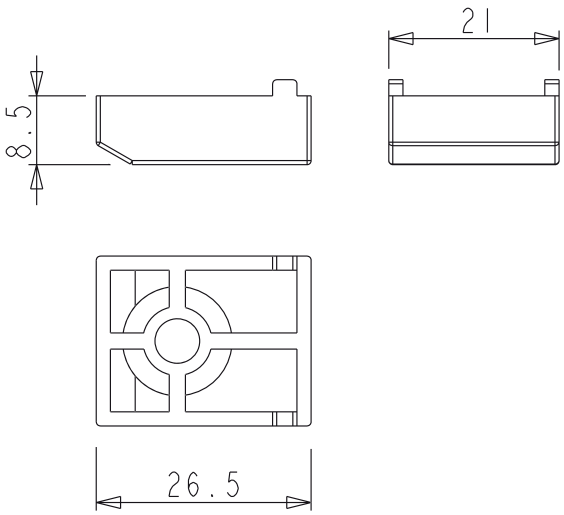
Component used for restoring the position of the sash during closing by sliding against the series striker.

Technical features

Used in combination with the striker of the series, it transfers the weight of the sash during closing from the hinges to the striker itself, thus restoring the sash to its theoretical position when it is closed.
Essential for proper isolation of the room from atmospheric agents.

Materials

Black polyamide
Stainless steel cam plate
Zinc plated steel screw



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02309	SASH SUPPORT PLUG	C009	X				100

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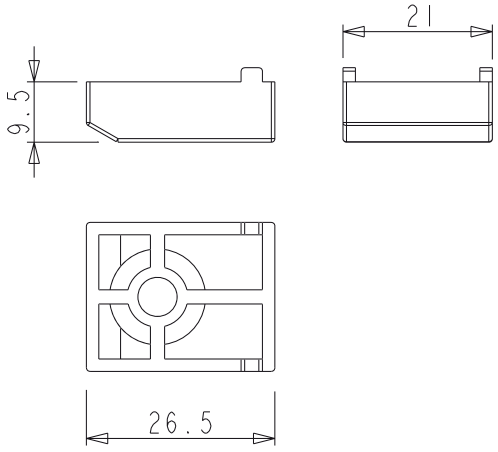


SASH SUPPORT PLUG

Functions
Component used for restoring the position of the sash during closing by sliding against the series striker.

Technical features
Used in combination with the striker of the series, it transfers the weight of the sash during closing from the hinges to the striker itself, thus restoring the sash to its theoretical position when it is closed.
Essential for proper isolation of the room from atmospheric agents.

Materials
Black polyamide
Stainless steel cam plate and screw.



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02334	SASH SUPPORT PLUG		X				100

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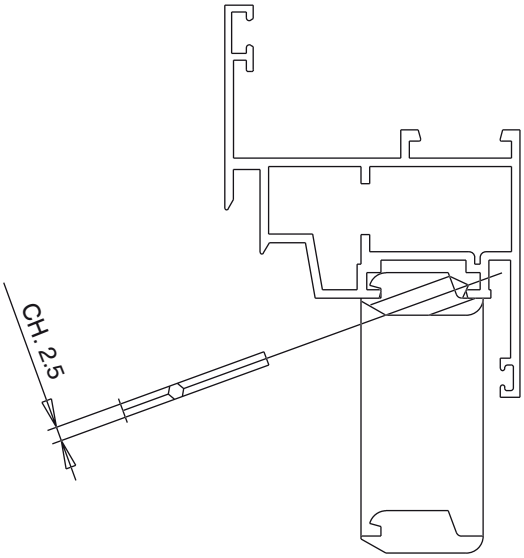


SASH SUPPORT PLUG

Component used for restoring the position of the sash during closing by sliding against the series striker.

Technical features
In combination with the striker of the series, it transfers the weight of the sash during closing from the hinge to the striker itself and restores the sash to its theoretical position, which is indispensable for properly isolating the room from the elements.

Materials
Black polyamide body
Stainless steel grub screw



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02336	SASH SUPPORT PLUG	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	X				500

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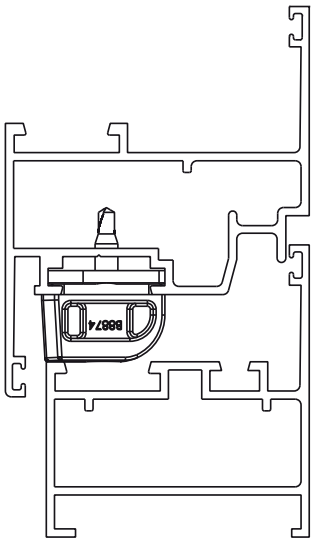


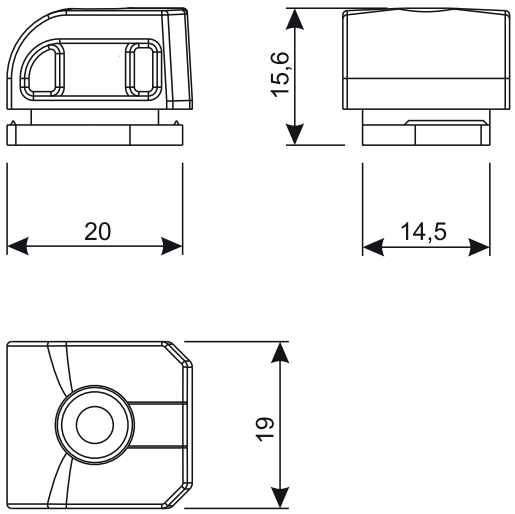
SASH LIFTING COMPONENT

Functions
Component used for restoring the position of the sash.

Technical Features
The raiser is fixed directly into the channel of the sash and rests on the frame.

Materials
Polyamide body
Stainless steel screw





Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02352	SASH LIFTING COMPONENT	C001-C002-C003-C004-C005-C011-C012-C013-C014-C015-C016-C017	X				100

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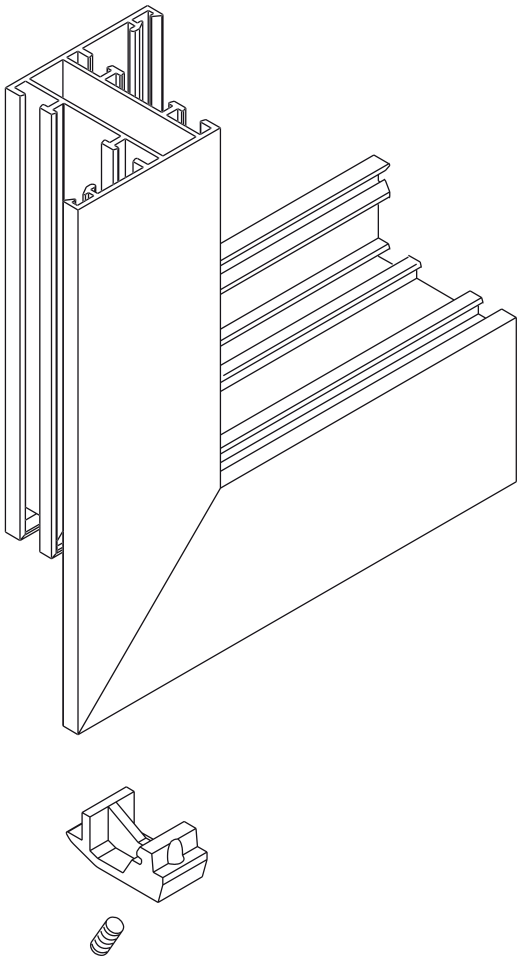


SASH SUPPORT PLUG

Functions
Component used for restoring the position of the sash during closing by sliding against the series striker.

Technical features
In combination with the striker of the series, it transfers the weight of the sash during closing from the hinge to the striker itself and restores the sash to its theoretical position, which is indispensable for properly isolating the room from the elements.

Materials
Black polyamide body
Stainless steel grub screw



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02366	SASH SUPPORT PLUG	C008	X				200

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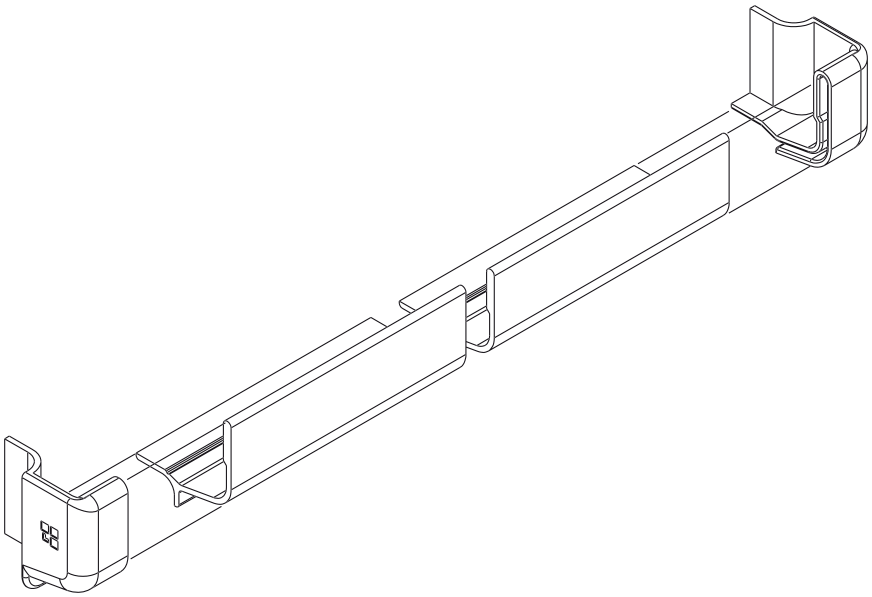


CONDENSATE PLUGS

Functions
Pair of caps for condensation trap and/or drip profiles for aluminium windows.

Technical features
Black polyamide components to be used as infill of the ends of the condensation trap profile and/or drip profile, for press-fitting and lock with adhesives.

Materials
Black polyamide



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03203	CONDENSATE PLUGS	right+left	X				50

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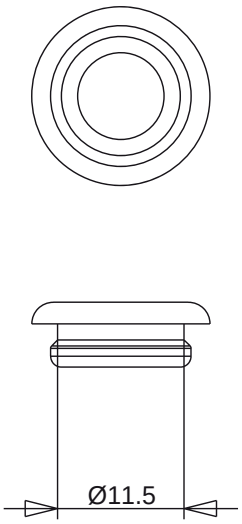
HOLE PLUGS



Functions
Component made for closing holes.

Technical features
Enables concealing unsightly machining on the profile and protects your fingers from any burrs.

Materials
Black rubber



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02331	HOLE PLUG	diameter 11.5 mm -black	X				500

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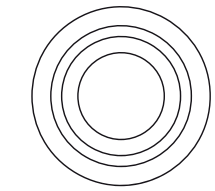
HOLE PLUGS

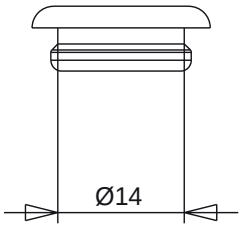


Functions
Component made for closing holes.

Technical features
Enables concealing unsightly machining on the profile and protects your fingers from any burrs.

Materials
Black rubber

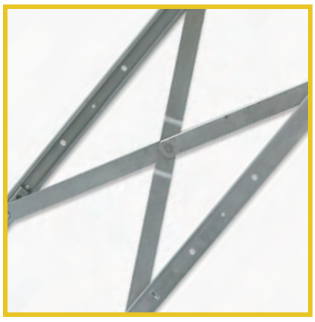




Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02332	HOLE PLUG	diameter 14 mm -black	X				500

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ARMS

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GS HD ARMS TYPE A

Functions

Two-handed self-balancing arms able to bear the weight of a top-hung or outward opening (side hung) window and hold it in the open position.

Technical Features

Type-A GS HD arms are suitable for making medium – low size/weight top or side hung windows (see table).
Some models can be used on both these different outward opening casement types (see table).
Type-A GS HD arms can be frictioned by turning the grub screw on the slider.
They can be applied in combination with the I, L and Laser limitation arms; this is in order to limit the maximum opening of a Top Hung sash.
Type-A GS HD arms are tested by Giesse for up to life-time 30.000 cycles.

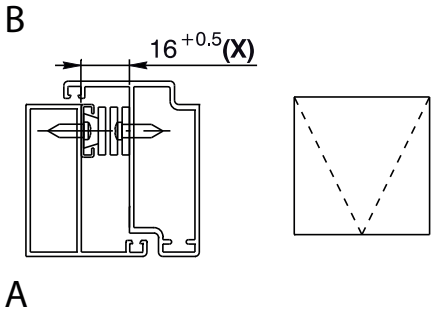
Applicability

Type-A GS HD arms are applicable to sets of profiles with a stack (sash / frame distance) of 16 mm.

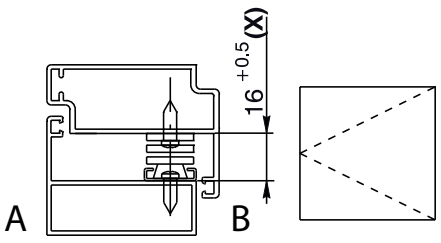
Materials

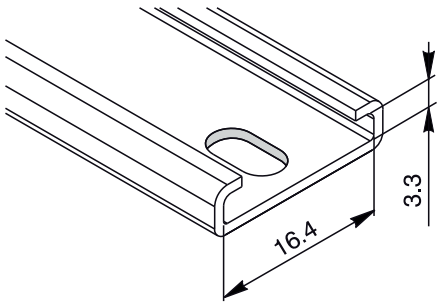
AISI 304 stainless steel

Top Hung (A: internal, B: external)



Side Hung (A: internal, B: external)





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Item code	Description	Permitted type of opening	Bag width	Arm thick-ness (mm)	Arm length (mm)	TOP HUNG Maximum opening angle	TOP HUNG Maximum height (mm)	TOP HUNG Maximum width (mm)	TOP HUNG Maximum weight (kg)	SIDE HUNG Maximum height (mm)	SIDE HUNG Maximum width (mm)	SIDE HUNG Maximum weight (kg)	Base Raw	Items per pack
08127N	GS HD - 10" type A	Top -Side	18	15,5+0,5	261	84	400	1200	16	1200	550	14	X	6
08128N	GS HD - 12" type A	Top -Side	18	15,5+0,5	305	85	550	1200	18	1200	600	16	X	6
08129N	GS HD - 14" type A	Top -Side	18	15,5+0,5	351	87	650	1200	20	1200	600	18	X	6
08130N	GS HD - 16" type A	Top -Side	18	15,5+0,5	407	87	750	1200	21	1200	600	20	X	6
08131N	GS HD - 18" type A	Top -Side	18	15,5+0,5	457	87	850	1200	24	1200	650	22	X	6

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GS HD ARMS TYPE M

Functions

Pair of self-balancing arms (one right and one left) able to bear the weight of a top hung window or outward opening (side hung) window and hold it in the open position.

Technical Features

Type-M GS HD arms are suitable for making medium – low size/weight top or side hung windows.
Some models can indeed be used on both these different outward opening casement types (see table).
Since the upper part of the arm is asymmetrical, within the pair of arms we will have a right and a left; this asymmetrical geometry of the arm improves the return and closing phases of the sash.
Type-M GS HD arms can be frictioned by turning the grub screw on the slider.
If necessary, type-M GS HD arms can be applied in combination with the N-type limitation arms; this is in order to limit the maximum opening of a Top Hung sash.
Type-M GS HD arms are tested by Giesse for up to life-time 30.000 cycles.

Applicability

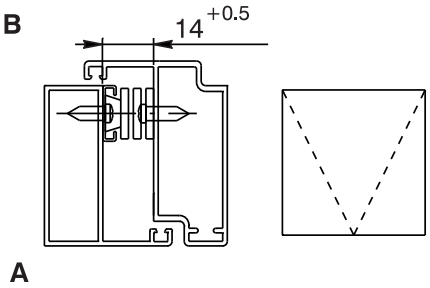
Type-M GS HD arms are applicable to sets of profiles with a stack (sash/frame distance) of 14 mm.

Ask to your sales rep for product availability.

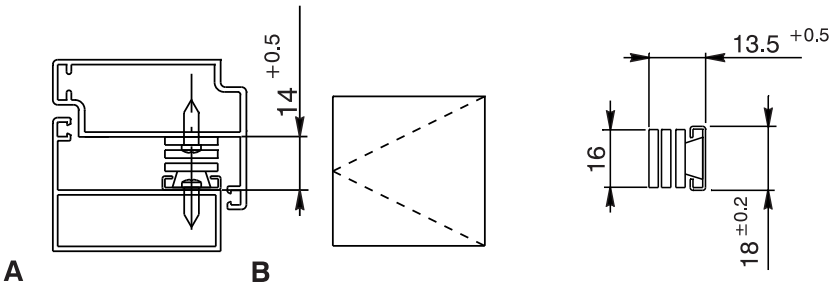
Materials

AISI 304 stainless steel arm
Slider in polyamide and brass

Top Hung (A: internal, B: external)



Side Hung (A: internal, B: external)



Item code	Description	Permitted type of opening	Bag width (mm)	Arm thick-ness (mm)	arm length (mm)	Maximum opening angle	Top Hung maximum height (mm)	Top Hung maximum width (mm)	Top Hung Maximum Weight (kg)	Side Hung maximum height (mm)	Side Hung maximum width (mm)	Side Hung Maximum Weight (kg)	Base Raw	Items per pack
08193	GS HD - 20" type M	Top	18	13,5+0,5	512	40	1000	1200	28				X	6
08194	GS HD - 24" type M	Top	18	13,5+0,5	615	40	1100	1200	35				X	6
08195	GS HD - 12" type M	Top-Side	18	13,5+0,5	310	87	550	1200	20	1200	600	16	X	6
08196	GS HD - 14" type M	Top-Side	18	13,5+0,5	358	87	650	1200	22	1200	600	17	X	6
08197	GS HD - 16" type M	Top-Side	18	13,5+0,5	412	87	750	1200	24	1200	650	20	X	6
08198	GS HD - 18" type M	Top-Side	18	13,5+0,5	459	87	850	1200	26	1200	650	21	X	6
08201	GS HD - 8" type M	Top	18	13,5+0,5	214	70	350	1200	12				X	6
08202	GS HD - 10" type M	Top-Side	18	13,5+0,5	270	87	400	1200	16	1200	550	15	X	6

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GS HD ARMS TYPE C

Functions

Pair of self-balancing arms (one right and one left) able to bear the weight of an outward opening side-hung window and hold it in the open position.

Technical Features

Type-C GS HD arms are suitable for medium size/weight outward opening side hung windows (see table).
Since the upper part of the arm is asymmetrical, within the pair of arms we will have a right and a left; this asymmetrical geometry of the arm improves the return and closing of the sash.
The window opening can also be frictioned by turning the grub screw on the slider.
The EGRESS articles ensure a wider passageway with the sash open, increasing the space for egress, compared to a normal arm type C. These articles do not allow cleaning the glass on the outside.
Art. LOOSE RIVET requires a minimum force for opening and closing the sash.
Art. EASY CLEAN integrates the EGRESS function with the possibility of cleaning the window also on the outside, as it is possible, from time to time, to move the sash sideways and create an opening. After cleaning the outside of the window the arm is put back into its normal working condition.
Type-C GS HD arms are tested by Giesse for up to life-time 30.000 cycles.

Applicability

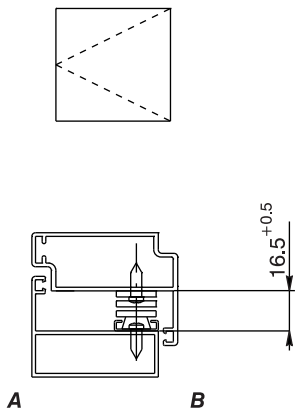
Type-C GS HD arms are applicable to profiles with a stack (sash/frame distance) of 16.5 - 17 mm.

Ask to your sales rep for product availability.

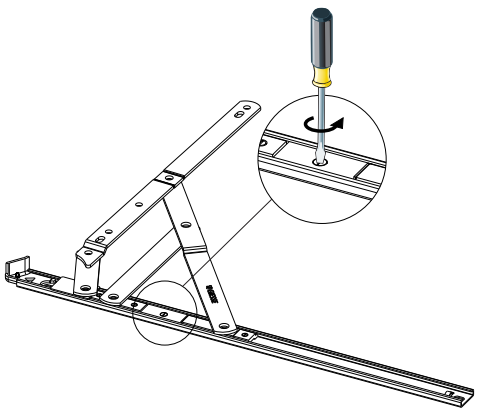
Materials

AISI 304 stainless steel arm
Slider in polyamide and 304 grade stainless steel

Side Hung (A: internal, B: external)



Unlocking element for cleaning the outside of the sash



Item code	Description	Permitted type of opening	Egress	Loose rivet	Bag width	Sash - frame distance (mm)	arm length (mm)	Maximum opening angle	Side Hung maximum height (mm)	Side Hung maximum width (mm)	Side Hung Maximum Weight (kg)	Side adjustment	Base Raw	Items per pack
0814701	GS HD - 10" type C	Side	NO	NO	23	16,5+0,5	263	82	1600	550	36	/	X	6
0814801	GS HD - 12" type C	Side	NO	NO	23	16,5+0,5	313	85	1600	600	38	/	X	6
0814901	GS HD - 14" type C	Side	NO	NO	23	16,5+0,5	365	87	1600	650	40	/	X	6
0815101	GS HD - 16" type C	Side	NO	NO	23	16,5+0,5	414	87	1600	700	42	/	X	6
0815201	GS HD - 18" type C	Side	NO	NO	23	16,5+0,5	463	87	1600	750	45	/	X	6
08344	GS HD - 16" type C	Side	YES	NO	22	16,5+0,5	412	30/50/90	1600	760	42	/	X	6
08345	GS HD - 16" type C	Side	YES	YES	22	16,5+0,5	412	30/50/90	1600	760	42	/	X	6
08346	GS HD - 16" type C	Side	YES	NO	22	16,5+0,5	412	30/50/90	1600	760	42	/	X	6

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GS HD ARMS TYPE C SUPER

Functions

Pair of self-balancing arms (one right and one left) able to bear the weight of an outward opening side-hung window and hold it in the open position.

Technical Features

Type-C Super GS HD arms are suitable for medium size/weight outward opening side hung windows (see table).
Since the upper part of the arm is asymmetrical, within the pair of arms we will have a right and a left; this asymmetrical geometry of the arm improves the return and closing of the sash.
The window opening can also be frictioned by turning the grub screw on the slider.
These articles are equipped with a side adjustment element integrated in the arm. This feature allows micrometric adjustment of the correct positioning of the sash directly on site once installed.
Type-C Super GS HD arms are tested by Giesse for up to life-time 30.000 cycles.

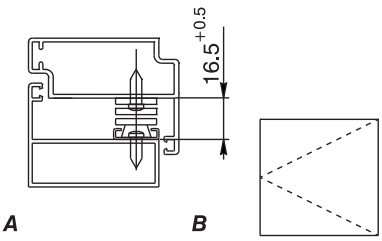
Applicability

Type-C Super GS HD arms are applicable to sets of profiles with a stack (sash/frame distance) of 16.5 mm.

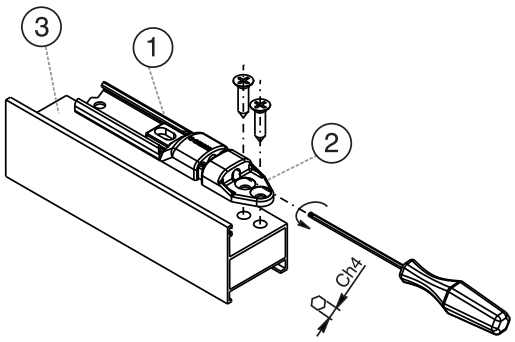
Materials

AISI 304 stainless steel arm;
Slider in polyamide and 304 grade stainless steel
Zamak adjustment element

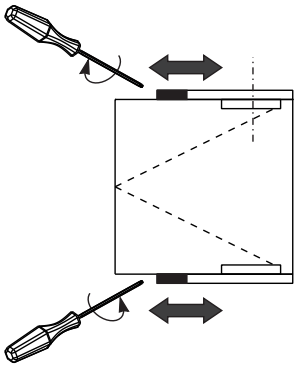
Side Hung (A: internal, B: external)



1: Side Hung arm. 2: width adjustment component. 3: frame



Side Hung



Item code	Description	Permitted type of opening	Bag width	Sash-frame distance (mm)	arm length (mm)	Maximum opening angle	Maximum permissible height (mm)	Maximum permissible width (mm)	Maximum permissible weight (kg)	Side adjustment	Base Raw	Items per pack
0884701	Super GS HD - 10" type C	Side	23	16,5+0,5	323	82	1600	550	36	integrated	X	6
0884801	Super GS HD - 12" type C	Side	23	16,5+0,5	373	85	1600	600	38	integrated	X	6
0884901	Super GS HD - 14" type C	Side	23	16,5+0,5	425	87	1600	650	40	integrated	X	6
0885101	Super GS HD - 16" type C	Side	23	16,5+0,5	474	87	1600	700	42	integrated	X	6
0885201	Super GS HD - 18" type C	Side	23	16,5+0,5	523	87	1600	750	45	integrated	X	6

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GS HD ARMS TYPE P

Functions

Pair of self-balancing arms (one right and one left) able to bear the weight of a top hung window and hold it in the open position.

Technical Features

Type-P GS HD arms are suitable for medium to large size/weight top-hung windows (see table).
Since the upper part of the arm is asymmetrical, within the pair of arms we will have a right and a left; this asymmetrical geometry of the arm improves the return and closing phases.
Type-P GS HD arms may be frictioned by way of the grub screw on the slider and, depending on the model, you can choose also the maximum sash opening angle (see table).
To make operable fixtures with different dimensions and weights to those indicated in the table, please call the Giesse technical service.
Type-P GS HD arms, depending on the version, provide micrometric height adjustment.
If necessary, the P type arms can be applied with the I, L and Laser limitation arms; this is in order to limit the maximum opening of the sash.
Type-P GS HD arms are tested by Giesse for up to life-time 30.000 cycles.

Applicability

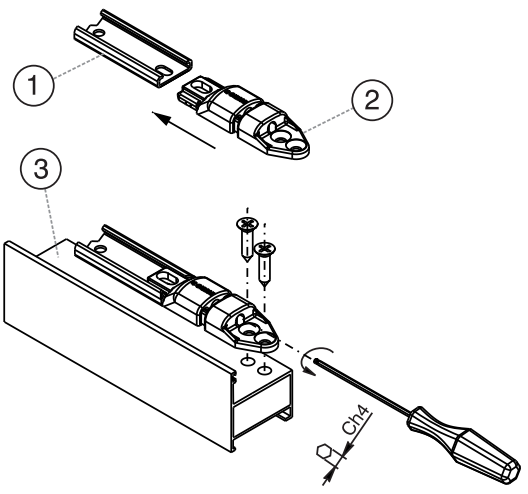
Type-P GS HD arms are applicable to sets of profiles with a stack (sash/frame distance) of 16.5 - 17 mm.

Ask to your sales rep for product availability.

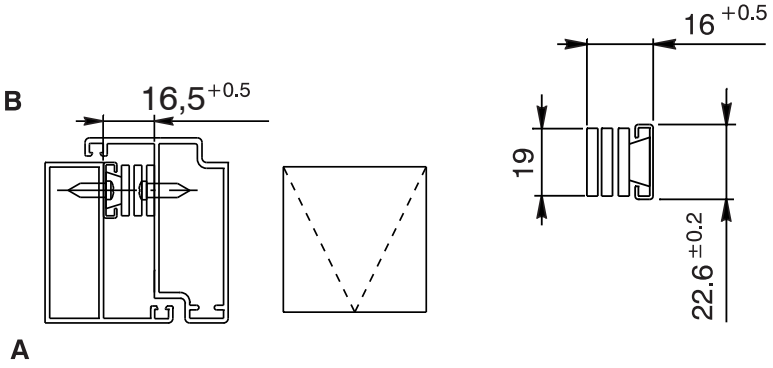
Materials

AISI 304 stainless steel arm
Slider in polyamide and 304 grade stainless steel
Zamak height-adjustment device

1: Top hung arm. 2: height adjustment component.
3: frame.



Top Hung (A: internal, B: external)



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ARMS FOR CURTAIN WALL-TOP HUNG-SIDE HUNG WINDOWS

GS HD ARMS TYPE P

Item code	Description	PROFILE CROSS - SECTION	Permitted type of opening	Bag width (mm)	Arm thick-ness (mm)	Arm length (mm)	Opening angles	Top Hung maximum height (mm)	Top Hung maximum width (mm)	Top Hung Maximum Weight (kg)	Applicable height adjuster	Base Raw	Items per pack
08348	GS HD - 26-180" type P	-	Top	23	16,5+0,5	690	20°	2000	1500	155 - 180 limited to 7° by way of limitation arms	art. 02006K	X	6
08309	GS HD - 10" type P	C001-C002-C003-C004-C005-C006-C012	Top	-	Euro groove central gasket	259	50°	600	1500	25	-	X	6
08351	GS HD - 22" type P	C001-C002-C003-C004-C005-C006-C012	Top	-	Euro groove central gasket	567	20°/45°	1500	1700	100 (20°) - 80 (max 30°)	-	X	6
08352	GS HD - 28" type P	C001-C002-C003-C004-C005-C006-C012	Top	-	Euro groove central gasket	711	15°	2000	1700	100	-	X	6
08534N	GS HD - 10" type P	-	Top	23	16,5+0,5	261	35°	700	1200	50	art. 02006K	X	6
08535N	GS HD - 12" type P	-	Top	23	16,5+0,5	317	30°/35°	800	1200	60	art. 02006K	X	6
08536N	GS HD - 14" type P	-	Top	23	16,5+0,5	353	30°/35°	1000	1300	69,5	art. 02006K	X	6
08537N	GS HD - 16" type P	-	Top	23	16,5+0,5	414	30°/35°	1200	1400	88,5	art. 02006K	X	6
08538N	GS HD - 18" type P	-	Top	23	16,5+0,5	458	25°/30°	1400	1400	102	art. 02006K	X	6
08539N	GS HD - 20" type P	-	Top	23	16,5+0,5	511	25°/30°	1600	1500	135	art. 02006K	X	6
08540N	GS HD - 22" type P	-	Top	23	16,5+0,5	556	20°/25°	1700	1500	137	art. 02006K	X	6
08541N	GS HD - 24" type P	-	Top	23	16,5+0,5	602	20°/25°	1800	1500	139	art. 02006K	X	6
08542N	GS HD - 28" type P	-	Top	23	16,5+0,5	707	10°/15°/20°	2000	1500	155	art. 02006K	X	6

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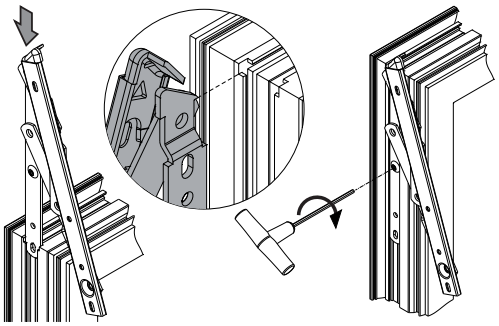
GS HD ARMS TYPE TS

Functions
Pair of arms (RH/LH) for outward opening (side hung) or top hung aluminium windows.

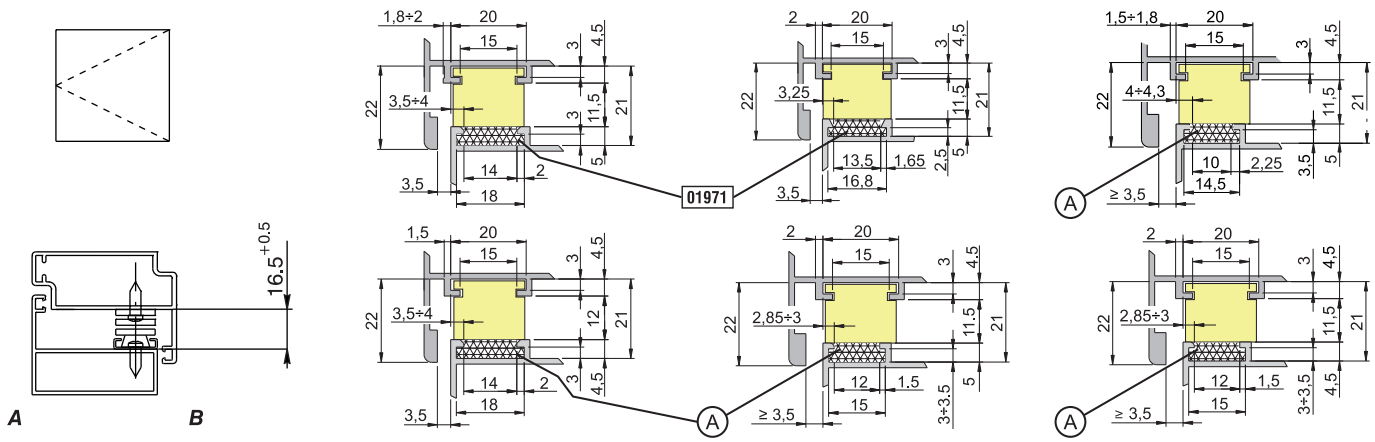
Technical Features
Type-TS GS HD arms are suitable for medium size/weight outward opening side hung or top hung windows (see table).
Since the upper part of the arm is asymmetrical, within the pair of arms we will have a right and a left; this asymmetrical geometry of the arm improves the return and closing of the sash.
The window opening can also be frictioned by turning the grub screw on the slider.
The Range of TS-type GS HD Arms is divided into two groups:
a) applicable on systems with a stack of 16.5 mm
b) applicable on systems with a stack of 11.5 mm (European groove central gasket)
(See table)
a) TS-type GS HD arms for systems with a stack of 16.5 mm require a sash/frame distance of 16.5 mm, market standard for curtain walls.
b) TS-type GS HD arms for European grooves (Euro groove central gasket) due to their special geometry position themselves in the channel 15/20 on the sash. Pre-assembled grub screws on the connecting bracket that fits in the sash allow quickly fixing the product at first. These arms mount to the frame (with 14/18 channel) with self-threading screws (not included). For solid, durable arm fixing on the frame you need to create a flat surface beneath it. For 14/18 or 13.5 / 16.8 frame channels, Giesse recommends using the filling shim (see the relevant family), to be assembled under each arm fixing hole/slot.
Type-TS GS HD arms are tested by Giesse for up to life-time 30.000 cycles.

Applicability
TS-type GS HD arms can be applied to systems with a stack of 16.5 or on European groove systems (Euro groove central gasket). See the figure and table.

Materials
AISI 304 stainless steel arm and grub screw
Slider in 304 grade stainless steel and polyamide



A: shim at the fixing screws by the window maker.

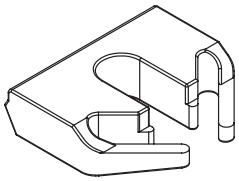


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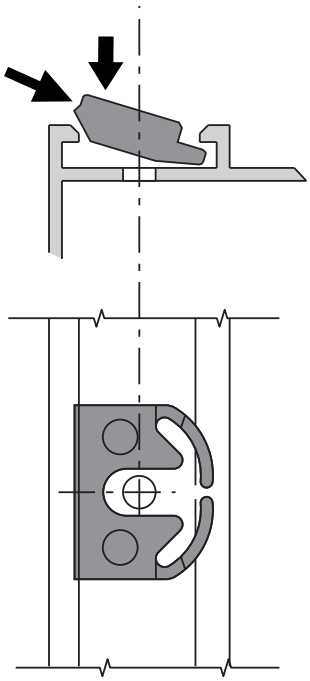
ARMS FOR CURTAIN WALL-TOP HUNG-SIDE HUNG WINDOWS

GS HD ARMS TYPE TS

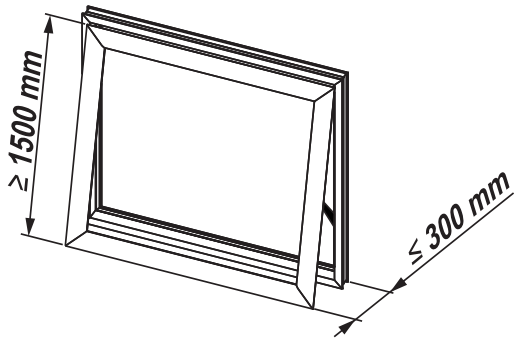
Art. 01971 set of shims



Inserting shim in channel

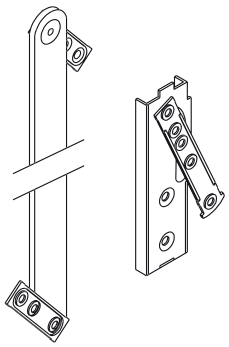


We recommend using limitation arms in the cases shown below



Item code	Description	PROFILE CROSS - SECTION	Bag width	Stack	Arm length (mm)	Loose rivet	TOP HUNG Opening angle	TOP HUNG Max-imum height (mm)	TOP HUNG Max-imum width (mm)	TOP HUNG Max-imum weight (kg)	SIDE HUNG Possible opening angle	SIDE HUNG Max-imum height (mm)	SIDE HUNG Max-imum width (mm)	SIDE HUNG Max-imum weight (kg)	Base Raw	Items per pack
08340	GS HD - 10" type TS	-	22	16,5	259	No	50°	650	1500	50	50° / 84°	1500	660	35	X	6
08341	GS HD - 10" type TS - L/R	-	22	16,5	259	Yes	50°	650	1500	50	50° / 84°	1500	660	35	X	6
08342	GS HD - 16" type TS	-	22	16,5	412	No	30° 50°	800	1500	100 55	50°/90° 30°	1600	760 700	42 60	X	6
08343	GS HD - 16" type TS - L/R	-	22	16,5	412	Yes	30° 50°	800	1500	100 55	30°/50°/90° 30°	1600	760 700	42 60	X	6
08349	GS HD - 10" type TS	C001-C002-C003-C004-C005-C006-C012	22	Euro groove central gasket	259	No	50°	650	1500	50	50/84	1500	660	35	X	6
08350	GS HD - 16" type TS	C001-C002-C003-C004-C005-C006-C012	22	Euro groove central gasket	412	No	30° 50°	800	1500	100 55	30° 50°/90°	1600	700	60 42	X	6

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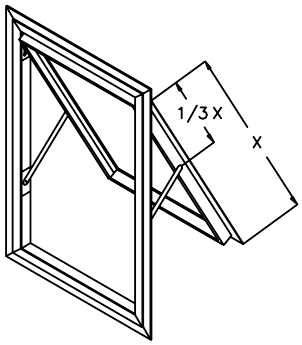
PROJECTING ARMS WITH HINGE

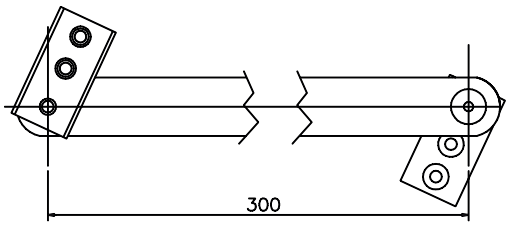
Functions
The LOTUS self-balanced set is a mechanism used for making top-hung windows.

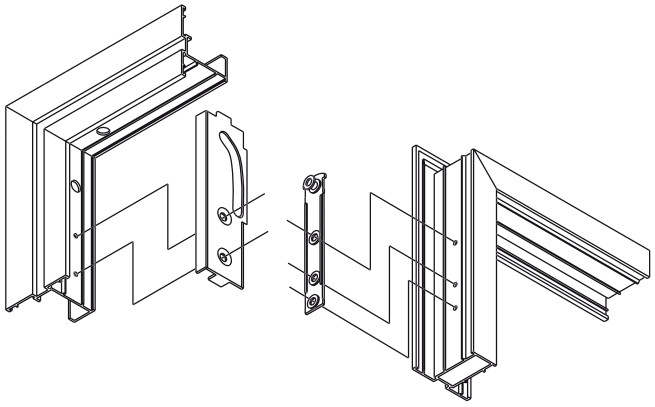
Technical Features
The LOTUS units are composed of a pair of steel hinges and a pair of aluminium arms.
The hinge is formed by a sliding system with constrained pins in order to prevent the sash from accidentally coming out under any circumstances. The hinge is set on the top of the sash and it positions itself on the frame, as it rests there. Both the hinge and the arm are secured with the self-threading screws supplied.

Materials
Oxidized aluminium arm rods
Hinge set, arm plates and fixing screws in zinc plated steel

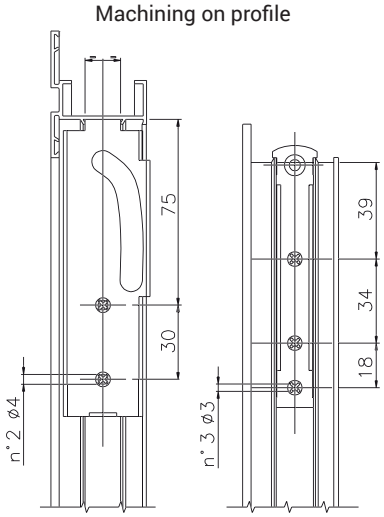
Parts
4 Self-tapping screws 4.8x16
14 Self-tapping screws 4.2x13







Machining on profile



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01801	LOTUS SELF-BALANCED UNIT	L= 300 mm		X			10

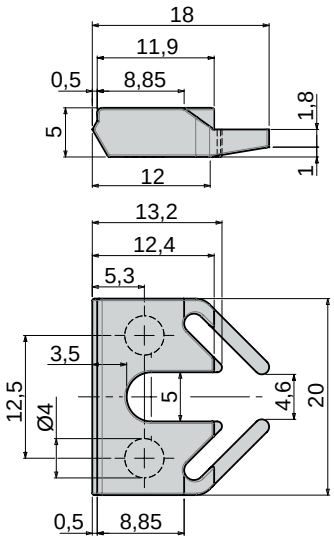
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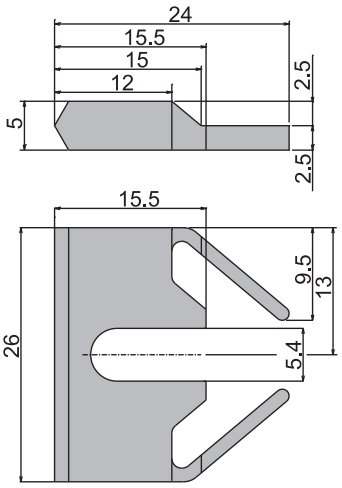
SHIMS FOR PROJECTING ARMS

Functions
Accessories that allow quick installation and adjustment of the range of projecting arms.

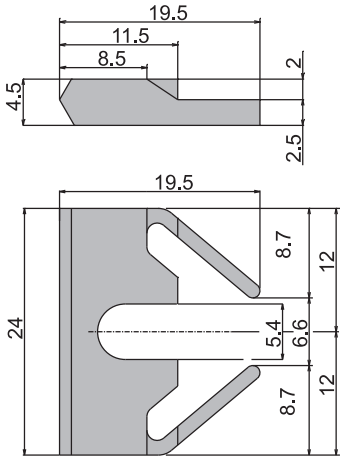
Code 01971



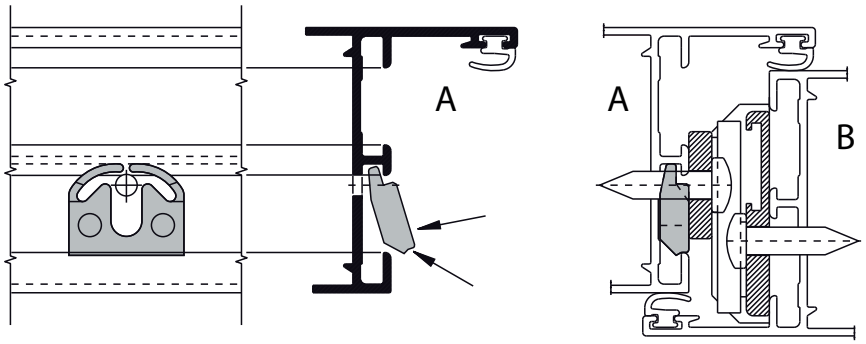
Code 01972



Code 01974



Example of application (A: sash, B: frame)



Item code	Description	PROFILE CROSS - SECTION	Notes	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01971	Polyamide filling shim	C001-C004-C013-C015-C016	for 14/18 channel (frame)	X				20
01972	Polyamide filling shim	-	-	X				20

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TOP HUNG ARMS ADJUSTMENT DEVICES

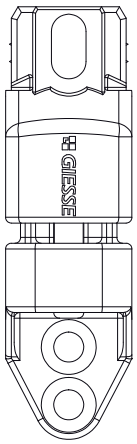


Functions
Pair of height adjustment devices which, if applied to correctly prepared GS HD arms make it possible to adjust a top hung window in height.

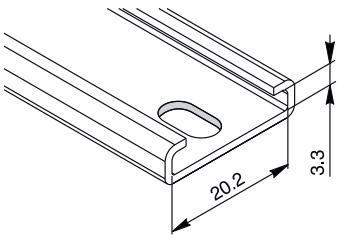
Technical Features
the height-adjustment device has an adjustment range of +/- 2 mm.
Art. 02006K is compatible with the GS HD type P range of arms.

Materials
Silver Plus GS Zamak housing
Stainless steel adjustment and fixing screws

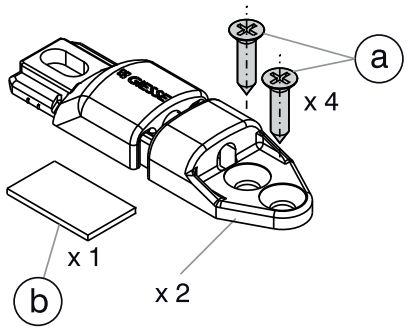
Code 02006



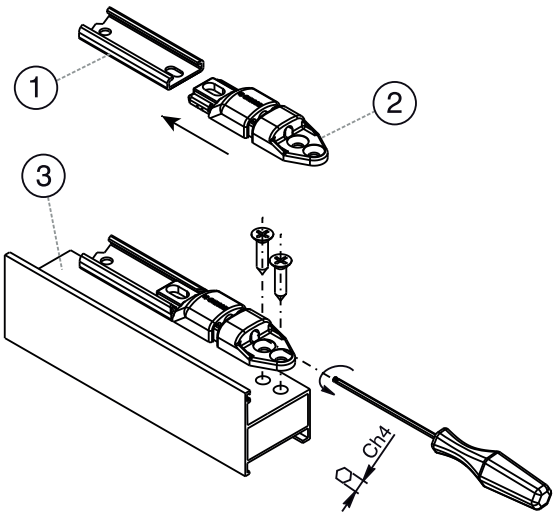
Dimensions, art. 02006



(a) self-tapping countersunk screws 4.8 mm, (b) shim for positioning arm.



1: Top Hung arm; 2: height adjustment component; 3: frame



Item code	Description	Applicable on	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02006K	Arm height adjustment element GS HD - CP (22/23)	GS HD arms Type P	X				12

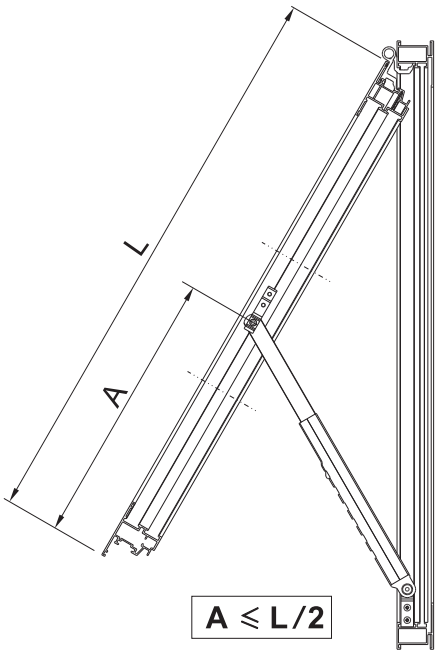
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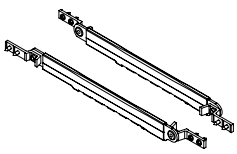
LASER ARMS

Functions
Pair of telescopic arms (one right and one left) able to limit the opening of a top hung window in different positions.

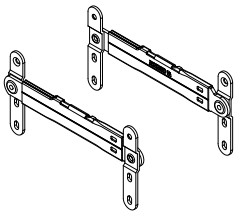
Technical Features
These limitation arms are suitable for top-hung windows.
The Arm is telescopic with 5 clicks (except for art. 01951 that only has 1) that give 5 different window opening positions.
The window is closed by pushing it in the maximum opening position.
The use of these items is intended on top hung windows as they cannot be released and, therefore, with side hung windows, the sash would not be openable to 90° for cleaning.
On request it is possible to have Laser Arms with a lower number of catches (with the same length) and for this we invite you to contact our Giesse Customer Service.
For the details, please see also the table below.



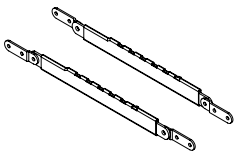
Art. 01950



Art. 01951



Art. 01959



Art. 01956



Art. 01960



Part art. 01950, 01952, 01954, 01955



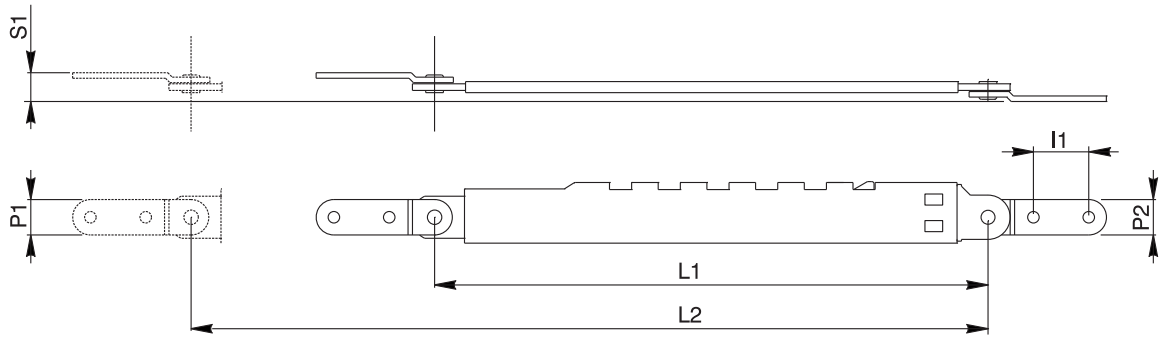
Part art. 01956



Part art. 01960, 01961



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Item code	Description	Permitted type of opening	Applicable in combination with	PROFILE CROSS - SECTION	N positions	Material	Type of Fixing	P1	P2	L1	L2	I1	S1	Base Raw	Items per pack
01950	LASER ARM	Top	hinges	see Where Used	5	AISI 304	Self - threading	14,8	11,8	250	360	15	28	X	10
01951	LASER ARM	Top	universal	see Where Used	1	AISI 316	Self - threading	16	16	155	186	20,5	13,5	X	6
01952	LASER ARM	Top	hinges	see Where Used	5	AISI 304	Self - threading	15	15	250	360	15	34	X	10
01954	LASER ARM	Top	hinges	see Where Used	5	AISI 304	Self - threading	13,4	13,4	250	360	15	23	X	10
01955	LASER ARM	Top	hinges	see Where Used	5	Galva-nized steel	Self - threading	13,4	13,4	250	360	15	23	X	10
01956	LASER ARM	Top	hinges	C007	5	AISI 304	Contrast grub-screws	-	-	250	360	-	24	X	10
01959	LASER ARM - Q	Top	universal	Without channels	5	AISI 304	Self - threading	16	16	250	360	23	13	X	6
01960	LASER ARM	Top	universal	Without channels	5	AISI 304	Self - threading	16	16	250	360	20	16,5	X	10
01961	LASER ARM	Top	universal	Without channels	5	Galva-nized steel	Self - threading	16	16	250	360	20	16,5	X	10

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LIMITATION ARMS TYPE I



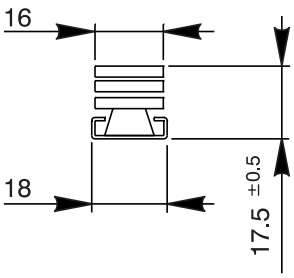
Functions
Pair of reversible limitation arms able to limit the opening of a top hung window.

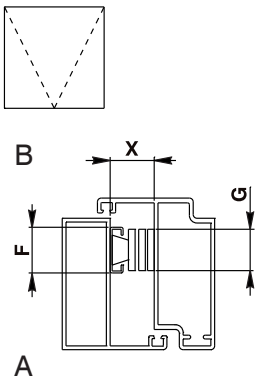
Technical Features
Type-I limitation arms are suitable for top-hung windows.
These arms work in combination with GS HD arms type A and P and can be frictioned by turning the knob on the slider.
Giesse has tested these limitation arms and obtained a pull resistance greater than 200 kg/pair.
Note: You are advised to use these products only with top hung windows as they are fixed to the profile with self-threading screws and cannot be released and, therefore, with side hung windows, the sash would not be openable to 90° for cleaning.

Applicability
Type-I limitation arms are applicable to sets of profiles with a stack (sash/frame distance) from 15 to 18 mm.

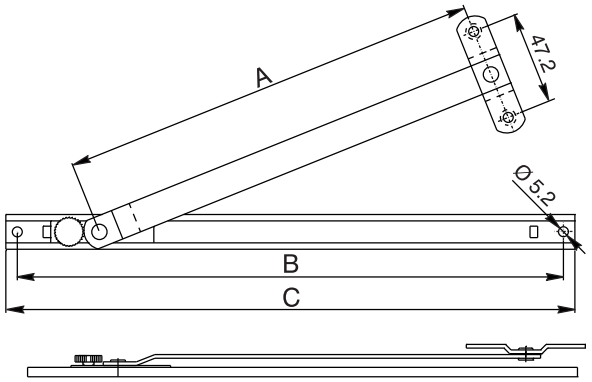
Materials
AISI 304 stainless steel limitation arm
Slider in polyamide and brass

Top Hung (A: internal, B: external)





X= 15 mm ÷ 18 mm
F= 18 mm
G= 16 mm



Item code	Description	Permitted type of opening	Bag width	Applicable in combination with Top Hung arms	A	B	C	Base Raw	Items per pack
08123	Limitation arm - 8.5" Type I	Top	18	Type A - Type P	140	205	217	X	6
08124	Limitation arm - 10.5" Type I	Top	18	Type A - Type P	191	256	268	X	6
08177	Limitation arm - 12" Type I	Top	18	Type A - Type P	221	286	298	X	6
08178	Limitation arm - 14" Type I	Top	18	Type A - Type P	267	332	244	X	6
08179	Limitation arm - 16" Type I	Top	18	Type A - Type P	318	388	400	X	6
08183	Limitation arm - 18" Type I	Top	18	Type A - Type P	365	435	447	X	6

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LIMITATION ARMS TYPE L

Functions

Pair of telescopic arms (one right and one left) able to limit the opening of a top hung window in one position.

Technical Features

Type-L limitation arms are suitable for top-hung windows. These arms work in combination with GS HD arms type A and P.
Type-L limitation arms have an opening notch; they can be locked in this position by means of a lever, to prevent the sash from closing. In this way the sash will remain locked until the user puts the lever back to the open position.
Giesse has tested these limitation arms and obtained a pull resistance greater than 200 kg/pair.
Note: You are advised to use these products only with top hung windows as they are fixed to the profile with self-threading screws and cannot be released and, therefore, with side hung windows, the sash would not be openable to 90° for cleaning.

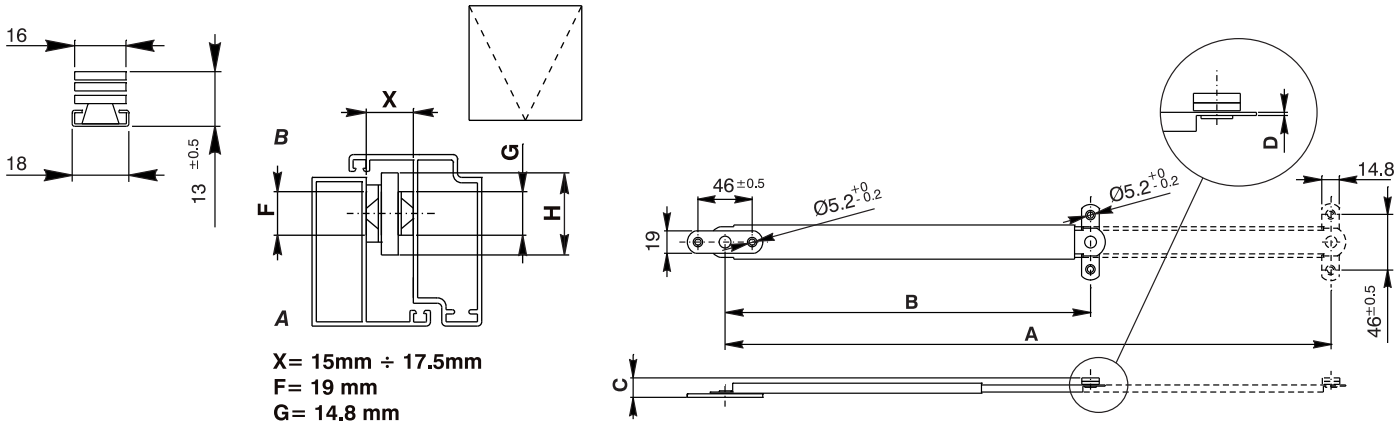
Applicability

Type-I limitation arms are applicable to sets of profiles with a stack (sash/frame distance) of from 15 to 17.5 mm.

Materials

AISI 304 stainless steel limitation arm

Top Hung (A: internal, B: external)



X= 15mm ÷ 17.5mm
F= 19 mm
G= 14.8 mm
H= 29 mm

Item code	Description	Permitted type of opening	Applicable in combination with Top Hung arms	no. of notches	A	B	C	D	Base Raw	Items per pack
08184	Limitation arm - 8" Type L	Top	Type A - Type P	1	205	155	16,5	1,2	X	6
08185	Limitation arm - 10" Type L	Top	Type A - Type P	1	255	180	16,5	1,2	X	6
08186	Limitation arm - 12" Type L	Top	Type A - Type P	1	305	205	16,5	1,2	X	6
08187	Limitation arm - 14" Type L	Top	Type A - Type P	1	355	230	16,5	1,2	X	6
08188	Limitation arm - 16" Type L	Top	Type A - Type P	1	406	257	16,5	1,2	X	6
08189	Limitation arm - 20" Type L	Top	Type A - Type P	1	515	310	16,5	1,2	X	6

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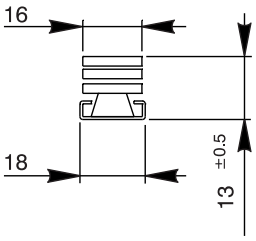
LIMITATION ARMS TYPE N

Functions
Pair of reversible limitation arms able to limit the opening of a top hung window.

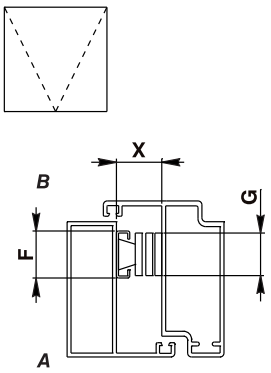
Technical Features
"Type-N" limitation arms are suitable for top-hung windows.
These arms work in combination with GS HD arms type M and can be frictioned by turning the grub screw on the slider. Giesse has tested these limitation arms and obtained a pull resistance greater than 200 kg/pair.
The use of these items is intended only on top hung windows as they are fixed to the profile with self-threading screws and cannot be released and, therefore, with side hung windows, the sash would not be openable to 90° for cleaning.

Applicability
Type-N limitation arms are applicable to sets of profiles with a stack (sash/frame distance) from 15 to 18 mm.

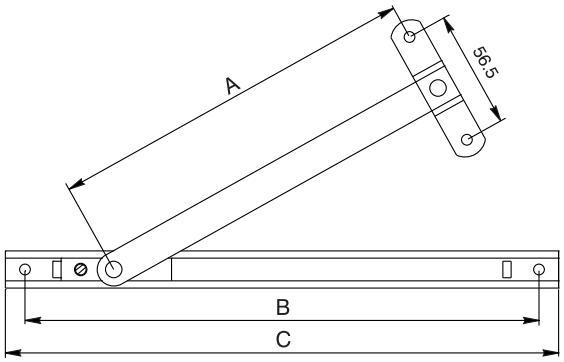
Materials
AISI 304 stainless steel limitation arm
Slider in polyamide and brass.



Top Hung (A: internal, B: external)



X= 13 mm ÷ 16mm
F= 18 mm
G= 16 mm



Item code	Description	Permitted type of opening	Bag width	Applicable in combination with Top Hung arms	A	B	C	Base Raw	Items per pack
08199	Limitation arm - 10.5" Type N	Top	23	Type M	180	249	268	X	6
08200	Limitation arm - 16" Type N	Top	23	Type M	314	381	400	X	6

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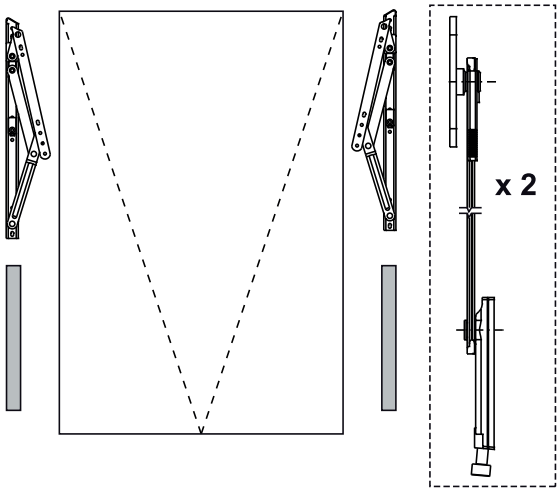
FRIZ ARMS FOR OUTWARD OPENING CASEMENT

Functions
Arm limiting sash opening on Top and Side Hung casement

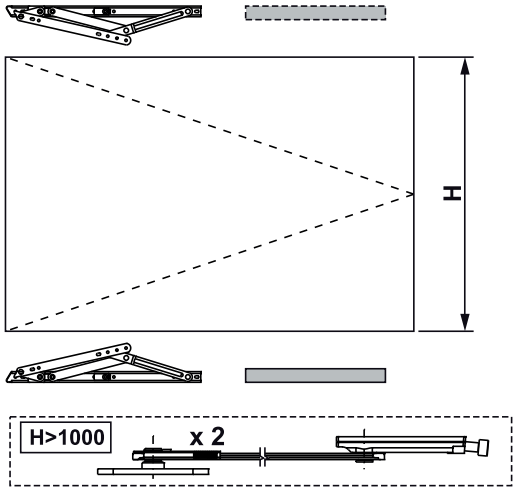
Technical Features
The Friz Arms are applicable on both top and side hung outward opening casement systems with a stack (sash frame distance) of 16.5 mm.
On Top Hung casements we recommend installing an arm on each upright (2 pieces).
You can friction the arm (and then decide on the force required for opening and closing the sash) by turning the screw on the slider.
It is possible to unhook the arm with the aid of the steel mechanism. This enables opening the sash completely for cleaning the glass.
The arm is supplied with a limit stop plate that defines the maximum desired opening of the sash.

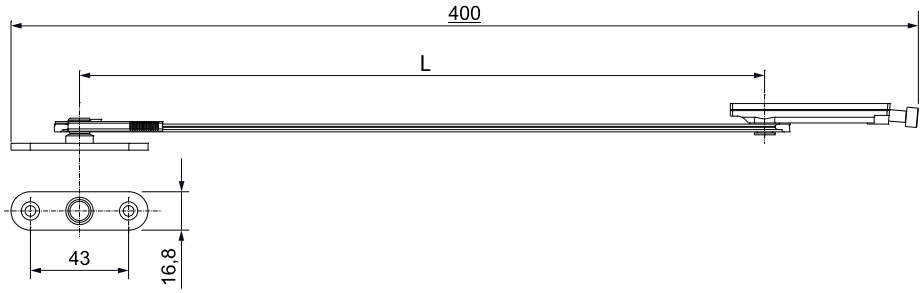
Materials
Extruded aluminium arm
Polyamide frictioning slider
Stainless steel frictioning screw and fixing screws
Frame coupling plate in stainless steel

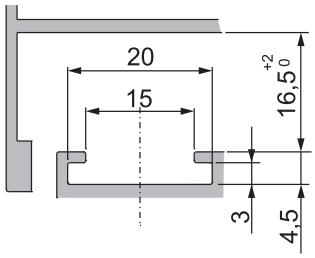
Positioning on top hung casement



Positioning on side hung casement







Item code	Description	Permitted type of opening	Applicable in combination with Top Hung arms	Rod length (L)	Unhookable	Frictionable	Base Raw	Items per pack
02036	Friz Stay Limitation Arm	Top - Side	Type A - Type P - Type C	300 mm	YES	YES	X	10
02037	Friz Stay Limitation Arm	Top - Side	Type A - Type P - Type C	140 mm	YES	YES	X	10

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PARALLEL ARMS

Functions

The reversible parallel arms enable opening the sash of a curtain wall or a projecting wall in parallel with the fixed part of the curtain wall.

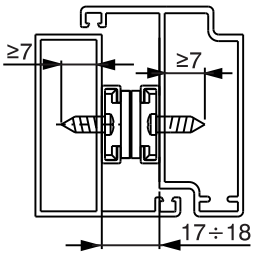
Technical Features

These arms enable opening the sash outwards, parallel to the frame.
Generally the intended use of these arms is for an operable element in a curtain wall. The added value of this type of solution is its stylishness because the curtain wall no longer "breaks" the reflection of the light but maintains uniformity between the surface of the operable part and the fixed part.
The parallel arms are reversible arms packaged in pairs, that is 2 pcs in the pair are identical and equally applicable on either side of the casement.
They are available in single and double cross versions for the heavier casements of considerable dimensions.
It is possible to combine single-cross arms with double-cross arms when the arm thickness is the same.
For sashes weighing > 60 kg or sized > 1250 x 1250 mm it is required to use a sash opening and closing system that uses motors.
The especially sturdy, durable arm is made entirely of corrosion proof 304 stainless steel.
The window opening can also be frictioned by turning the screws on the sliders.

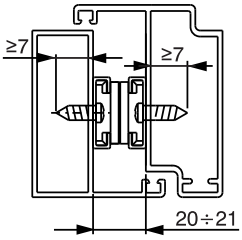
Materials

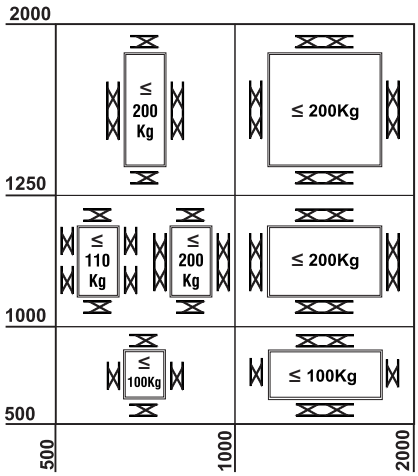
AISI 304 stainless steel arm
Slider in black polyamide

Single and double parallel arm 16.9 mm

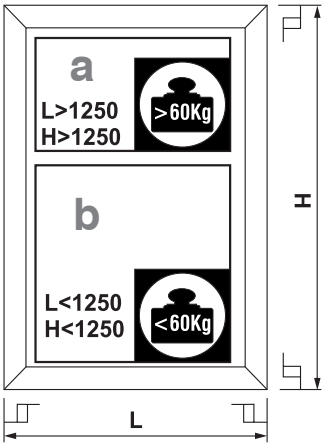


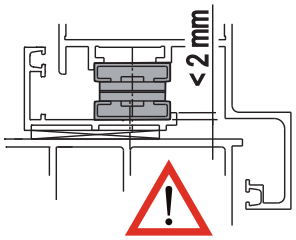
Single and double parallel arm 20 mm





(a) automatic fastening mechanism, (b) manual or automatic fastening mechanism





Item code	Description	Permitted type of opening	Bag width (mm)	Arm thickness (mm)	Arm length (mm)	Maximum Opening (mm)	Maximum height (mm)	Maximum width (mm)	Maximum Weight (kg)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0199001	Parallel Arm 16.9	parallel	22	16.9 +0/-1	470	180	1000	1000	100	X				10
0199101	Double Parallel Arm 16.9	parallel	22	16.9 +0/-1	940	180	2000	2000	200	X				5
0199201	Parallel Arm 20	parallel	22	21 +0/-1	470	180	1000	1000	100	X				10
0199301	Double Parallel Arm 20	parallel	22	21 +0/-1	940	180	2000	2000	200	X				5

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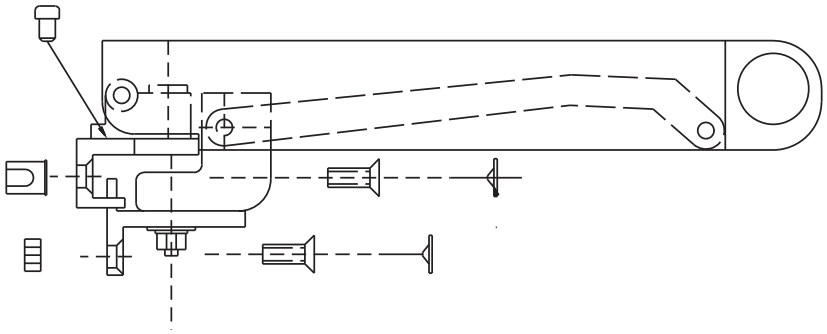
PROJECTING CLOSING AND LIMITATION ARMS



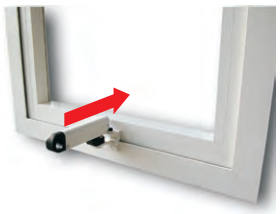
Functions
The Ombu Arm closes and locks open a top-hung window.

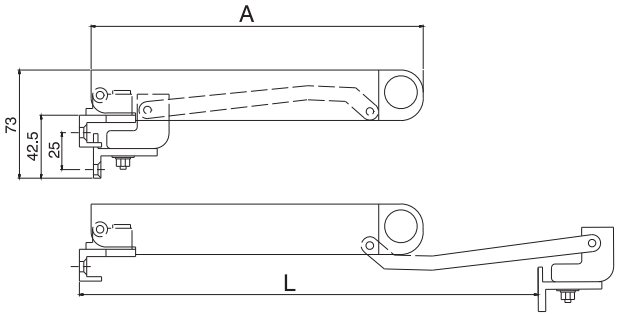
Technical Features
The Ombu Arm is a sturdy, easy to install product that ensures excellent closing for top-hung windows.
With the window closed the Ombu Arm folds back 90° horizontally so that the space it takes up in the room is practically none.
There are 2 different Ombu arm lengths: (see table)
The Ombu Arm can be installed on stepped profiles from 0mm (flush) up to 20 mm, thanks to the adjustment of the plate for fixing to the frame.

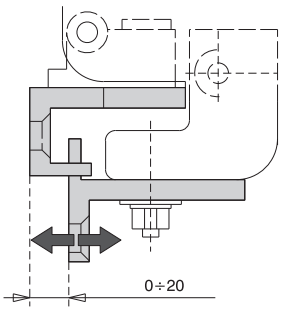
Materials
Steel arm
Black polyamide lever
Zamak frame and sash fixing components













Item code	Description	Length (A)	Opening (L)	Minimum sash width	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00889N	OMBU Arm For Awning	160	172	> = 320			X		10
00890N	OMBU Arm For Awning	224	300	> = 450			X		10

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FRIZ ARMS

Functions

Accessory utilised to limit opening of the sash when movement of the sash is restricted by obstacles such as uprights or walls.

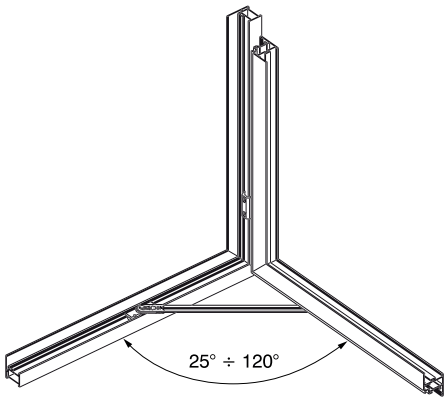
Technical Features

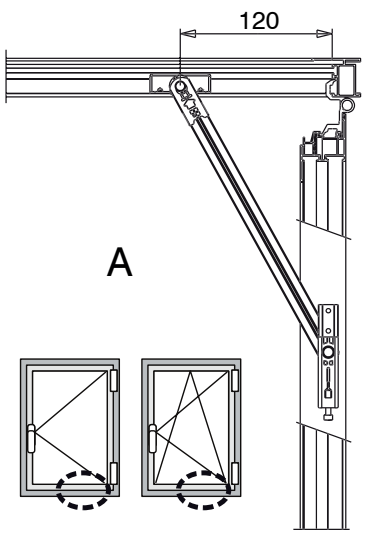
Sliding plate friction adjustable with a screw. Mounts to side-hung and tilt-and-turn casements with minimum dimension L = 450 mm.
As a pair, it may be used as a retainer arm for very heavy bottom-hung windows.
Equipped with a spring-loaded manual quick release.
Stop plate fitted with two grub screws to prevent slippage.

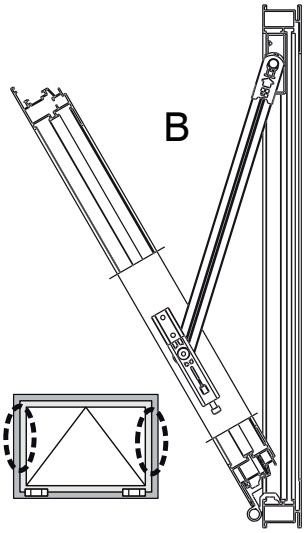
Materials

Fixing plate in zamak with GS Silver Plus finish (up to 500 h corrosion resistance)
Rod and stop plate made of pre-oxidised extruded aluminium.
Polyamide frictioning plate
Pins, screws, grub screws and release in stainless steel.

A: opening limiter. B: bottom-hung window.







Item code	Description	PROFILE CROSS - SECTION	Rod length (mm)	Load capacity as opening limiter (kg)	Load capacity as a bottom-hung pair (kg)	Base Raw	Items per pack
02030K	FRIZ STAY LIMITATION ARM	C001-C002-C004-C011-C012-C013-C014-C015-C016-C017	300	170	130	X	10
02031K	FRIZ STAY LIMITATION ARM	C003-C005-C006	300	170	130	X	10
02034K	FRIZ STAY LIMITATION ARM	C007	300	80	70	X	10
02035	FRIZ STAY LIMITATION ARM	C008	300	80	70	X	10
02800K	FRIZ STAY LIMITATION ARM	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	140	100	70	X	10

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LIMITY ARMS

Functions

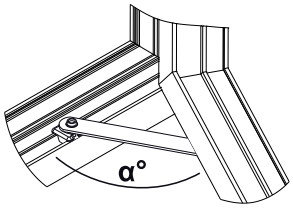
Accessory utilised to limit opening of the sash when movement of the sash is restricted by obstacles such as uprights or walls.

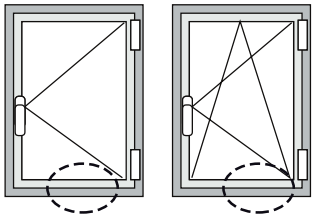
Technical Features

Sliding plate friction adjustable by means of grub screw provided.
Can be fitted to side-hung or tilt-and-turn casements.
Equipped with a spring-loaded manual quick release.
Stop plate fitted with two grub screws to prevent slippage.

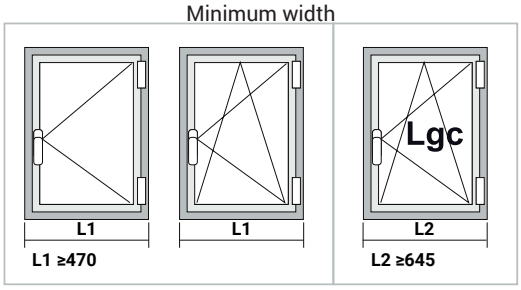
Materials

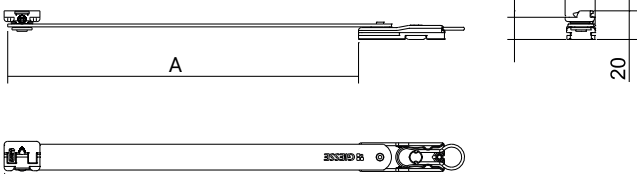
Stainless steel arm
Stainless steel spring lever
Pins, washers and grub screw in stainless steel
GS SILVER PLUS frame coupling cam and frame striker in zamak
Fibreglass reinforced polyamide slider
Extruded aluminium stop plate





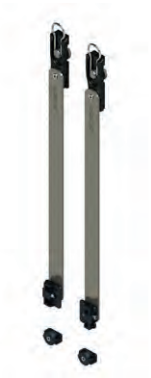






Item code	Description	PROFILE CROSS - SECTION	A (mm)	L1 (mm)	L2 (mm)	α°	Load capacity as limiter (kg)	Base Raw	Items per pack
02038	LIMITY ARM	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	250	470	645	120°	80	X	10
02039	LIMITY ARM	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	150	325	500	90°	80	X	10

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RALLENTY ARMS

Functions

The arm delimits the opening of a bottom-hung aluminium window slowing its stroke in the stopping phase.
The arm is available in two versions: long 250 mm and short 150 mm.

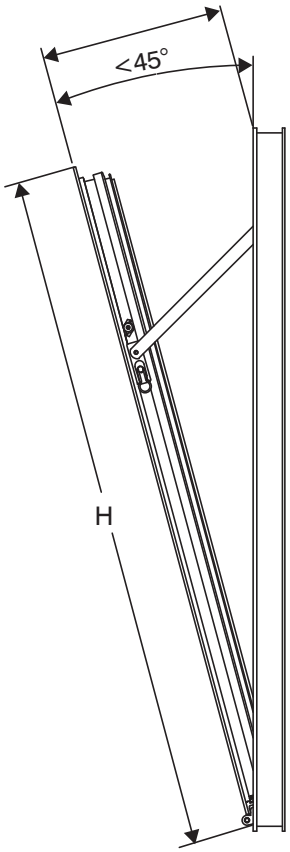
Technical Features

The Rallenty arm slows down the opening of the sash at the limit stop avoiding an annoying and disturbing bang on stopping (Giesse patented system).
Rallenty is fixed completely by clamping, with a single Allen key size 2.5mm, without any machining or holes in the profile.
Installation is done only after completely assembling the casement, without inserting plates or anything else in advance in the channels.
Consequently, it is applied, without any operations, even on existing casements.
Rallenty is released easily from the operable sash side simply with a lever.
The release is so extremely handy as to help when tilting and turning the sash for cleaning the glass from the outside.
With Rallenty the bottom-hung window can be produced without cutting the channels.
The window maker thus avoids standard machining, done as a rule for each sash, reducing the time and therefore the cost of production.
All the materials with which the Rallenty arms are produced are corrosion resistant.
Each item refers to a pair of arms for which we identify the right (RH) and left (LH) for correct application.

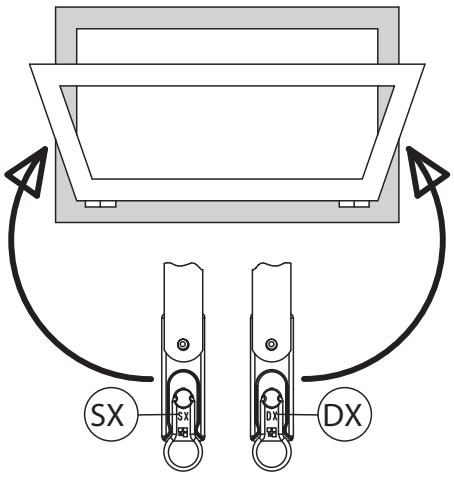
Materials

Stainless steel arm
Stainless steel spring lever
Pins, washers and grub screw in stainless steel
Cams made of GS Silver Plus zamak
Fibreglass reinforced polyamide slider

H= 350÷2000 mm



RH = right
LH = left



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Item code	Description	PROFILE CROSS - SECTION	Length (mm)	Load capacity (kg)	Base Raw	Items per pack
02040K	RALLENTY LONG ARM 250 mm	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	250	80	X	10
02041K	RALLENTY SHORT ARM 150 mm	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	150	50	X	10
02042K	RALLENTY LONG ARM 250 mm	C007	250	70	X	10
02043K	RALLENTY SHORT ARM 150 mm	C007	150	50	X	10
0204401	RALLENTY LONG ARM 250 mm	C008	250	70	X	10
0204501	RALLENTY SHORT ARM 150 mm	C008	150	50	X	10
0204601	RALLENTY LONG ARM 250 mm	C009	250	70	X	10
0204701	RALLENTY SHORT ARM 150 mm	C009	150	50	X	10
0204801	RALLENTY LONG ARM 250 mm	-	250	70	X	10
0204901	RALLENTY SHORT ARM 150 mm	-	150	50	X	10
0205201	RALLENTY LONG ARM 250 mm	C010	250	70	X	10
0205301	RALLENTY SHORT ARM 150 mm	C010	150	50	X	10

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COMPLETE SYSTEMS FOR HANDLING AND CLOSING

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2-STAR SKG SYSTEMS

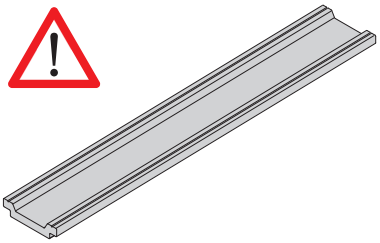
Functions

Giesse offers, for Sash and Tilt-and-Turn windows with a single and double sash, a complete burglar-proof closing system with SKG** certification issued by IKOB SKG (Netherlands).
The use of premium materials (such as microcast steel) is essential for strengthening the components and connection devices and ensures the closing system is designed to withstand attempted burglaries and direct attacks.

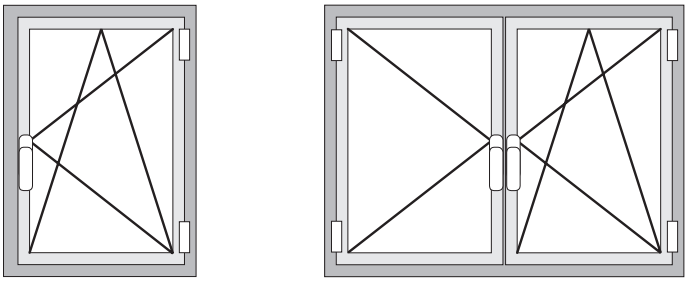
Technical Features

The SKG** system consists of:
• Mechanism - Cremone with key
• Specific mechanism - Sash or Tilt-and-Turn
• Arms and Tilt-and-Turn hinges - CHIC or FUTURA
• Burglar-proof fastening mechanism components
The combination of these components in line with variations in the sash dimensions ensures that the Giesse closing system is strong enough to be defined as burglar-proof, with RC2 classification in accordance with EN1627.
System certification in accordance with EN1627, however, corresponds to the whole casement: hardware, profile, glass, wall fixings, etc.

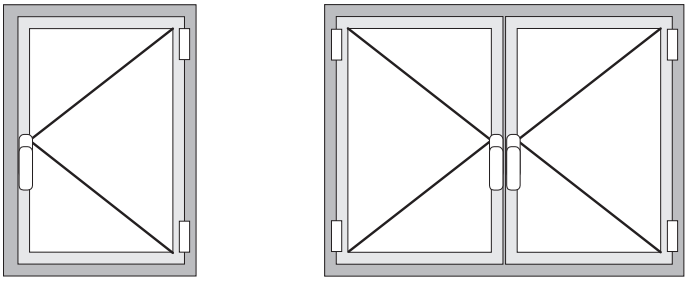
The rods used with the SKG certified closing system must be made using Aluminium.



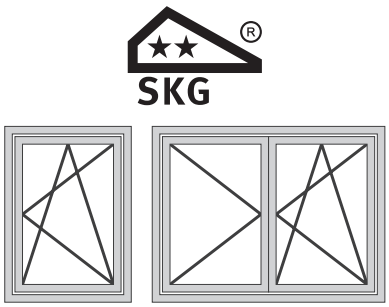
Tilt-and-turn window



Side-Hung



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CHIC

FUTURA 3D 130

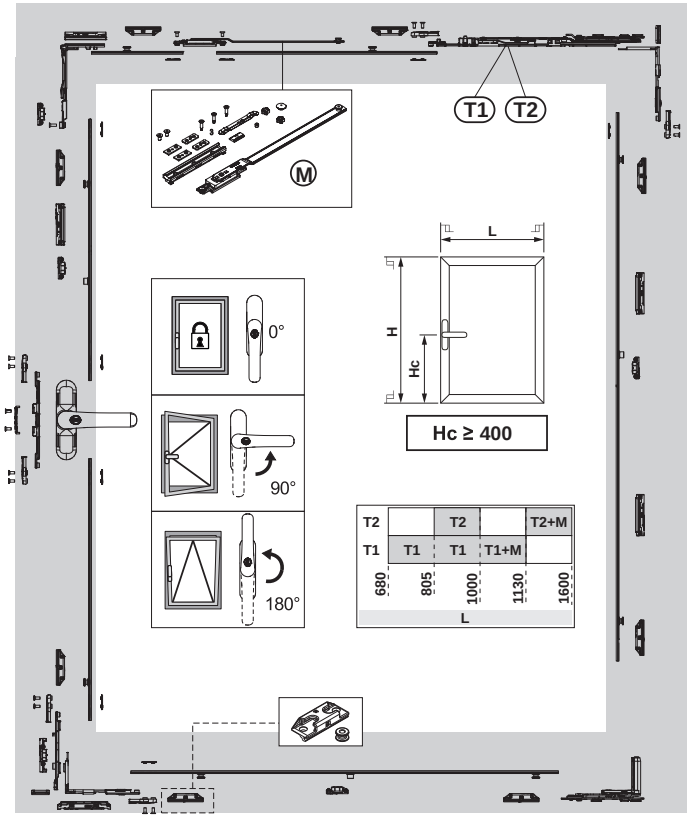
2-STAR SKG - TILT-AND-TURN

Functions

Complete Tilt-and-Turn system available in both traditional FUTURA and concealed CHIC versions.

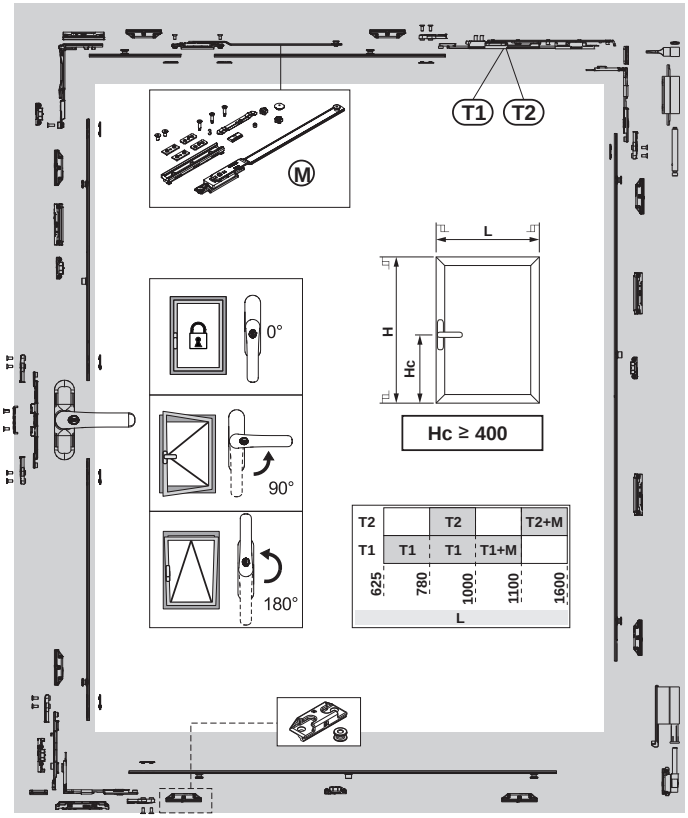
Technical Features

The SKG** system consists of:
- Mechanism - SKG** Cremone with key
- SKG** Tilt-and-Turn mechanism
- Arms and Tilt-and-Turn hinges - CHIC or FUTURA
- SKG** Burglar-proof fastening mechanism components



Single CHIC tilt-and-turn window - Configuration with 1000x1500 mm sash (LxH)

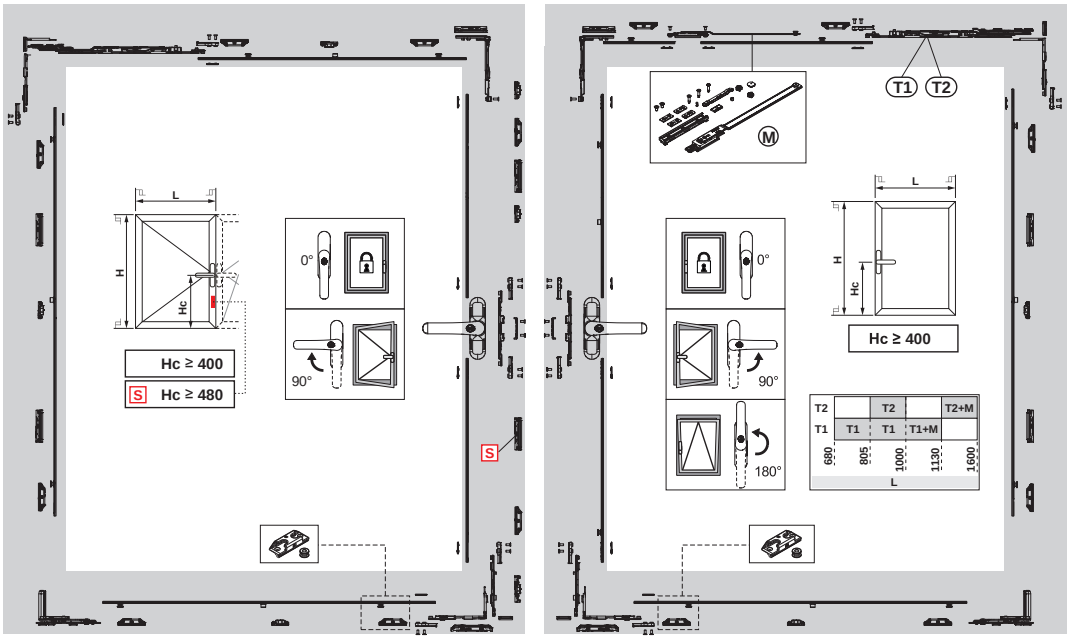
Quantity	Item code	Description
1	0108501 - 0119102	Cremone
1	04007	Tilt-and-Turn window kit
8	04000	Burglar-proof fastening mechanism
1	043561 - 043562	CHIC - Tilt-and-Turn window kit, T2 arm (RH or LH)



Single FUTURA tilt-and-turn window - Configuration with 1000x1500 mm sash (LxH)

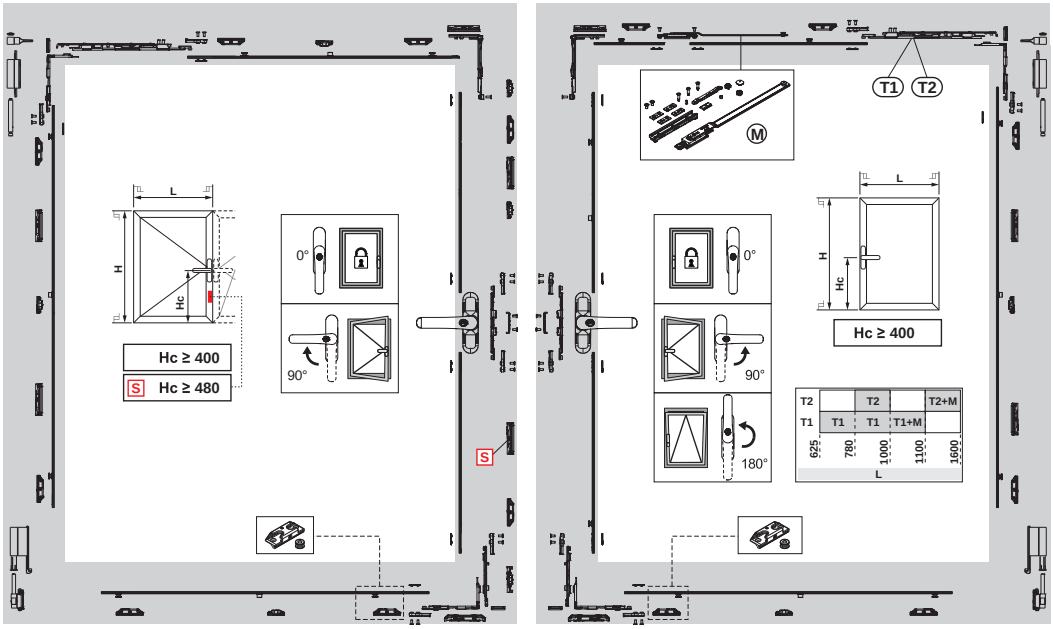
Quantity	Item code	Description
1	0108501 - 0119102	Cremone
1	04007	Tilt-and-Turn window kit
8	04000	Burglar-proof fastening mechanism
1	04285	T2 arm 130
1	04711	Tilt-and-Turn window hinge

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Double CHIC tilt-and-turn window - Configuration with 1000x1500 mm sash (LxH)

Quantity	Item code	Description
2	0108501 or 0119102	Cremone
2	04007	Tilt-and-Turn window kit
14	04000	Burglar-proof fastening mechanism
2	043561 or 043562	CHIC - Tilt-and-Turn window kit, T2 arm (RH or LH)



Double FUTURA tilt-and-turn window - Configuration with 1000x1500 mm sash (LxH)

Quantity	Item code	Description
2	0108501 or 0119102	Cremone
2	04007	Tilt-and-Turn window kit
14	04000	Burglar-proof fastening mechanism
2	04285	T2 arm 130
2	04711	Tilt-and-Turn window hinge

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SKG - CREMONES



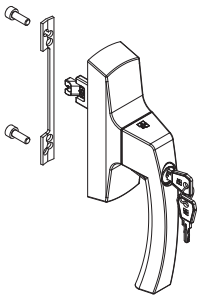
Functions
Reversible cremone with key lockable handle, with rotation through 90° and 180° and opening/closing positioning notch.

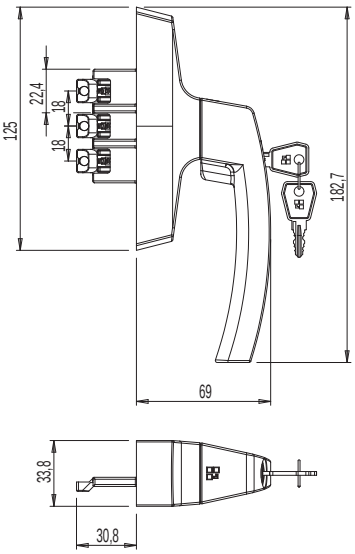
Technical Features
SKG*** certified, the cylinder makes it possible to lock the handle at 0° with a rotation and tear breaking strength greater than 100 Nm.
The cylinders of the FIRST KEY cremones have homogeneous coding, on request it is in any case possible to fulfill specific job orders with customized coding.

Materials
Handle in die-cast aluminium
Die-cast Zamak case, gears, racks and sliding parts
Nickel-plated brass cylinder
Internal sheath and Hostaform plate
Spring, screws and fixing plate in stainless steel

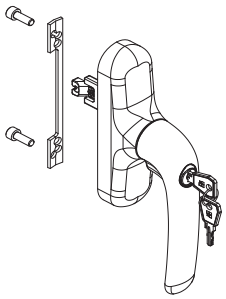
Parts
1 fixing plate
2 HSHC screws M5x14

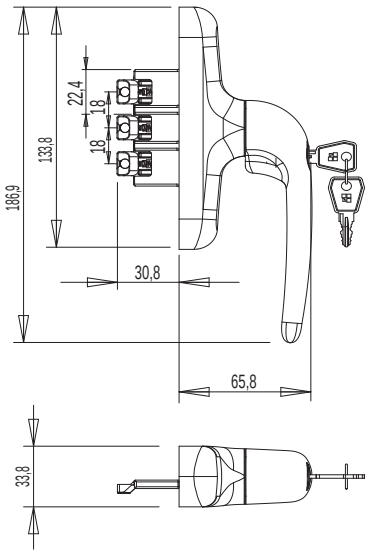
0108501





0119102





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0108501	SKG ASIA KEY MICRO CREMONE		X		X		5
0119102	SKG PRIMA KEY MICRO CREMONE		X		X		5

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SKG - TILT-AND-TURN WINDOW KIT



Functions

Tilt-and-Turn fastening mechanism available in standard version.

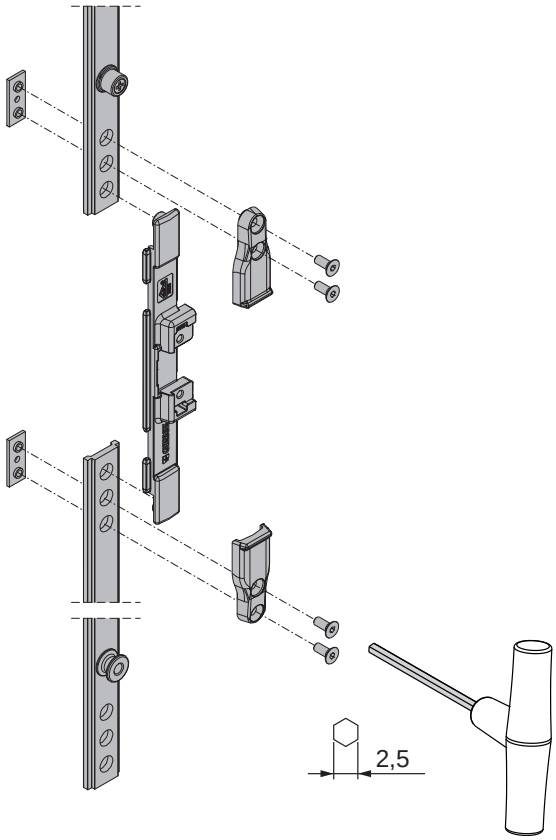
Technical Features

Perimetral closing: the 3 corner drives supplied allow closing on all sides.
It relation to a standard product, it includes strengthening components for the joints with the rod.
4 adjustable shims reduce sideways movement of the sash, increasing its resistance to burglary.

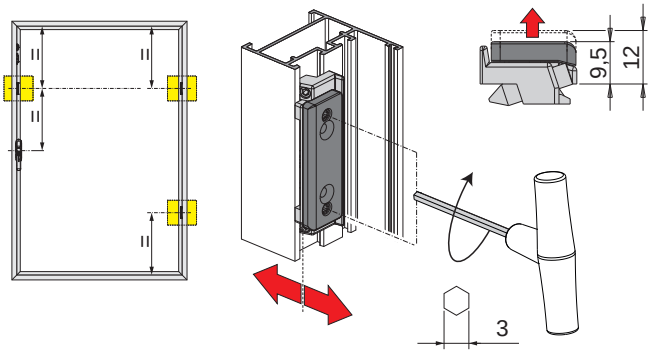
Materials

Corner drives, drive rod, mechanism bolt tip and strikers in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance)
Sash/frame shimming components in GS Silver Plus zamak
Rod strengthening components in microcast steel
Screws and grub screws in stainless steel

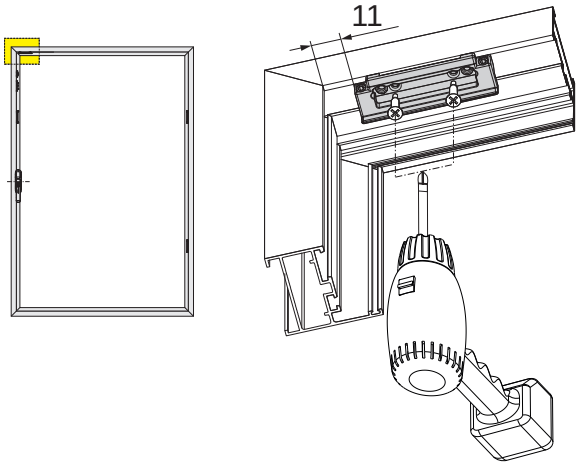
Rod strengthening components



Adjustable side shims



Top shim



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04007	SKG - TILT-AND-TURN WINDOW KIT		X				5

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2-STAR SKG - BURGLAR-PROOF FASTENING MECHANISM



Functions

Specially designed device to increase resistance of the tilt-and-turn window to break-in attempts, making intrusion through the window more difficult.

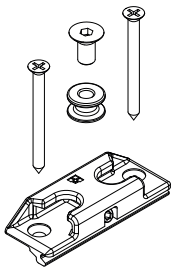
Technical Features

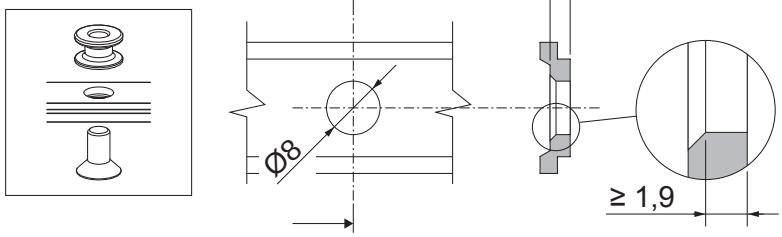
Article composed of two elements: the striker to be applied to the frame and the mushroom pawl to be applied to the rod.
The striker is reversible and is secured to the frame by means of the pre-assembled grub screw and two self-threading screws that ensure precise, quick fixing to the frame.
The pawl is applied to the rod of the series by simply making a hole Ø 8 mm; thanks to this solution, using the burglar-proof kit requires no changes to the cutting.

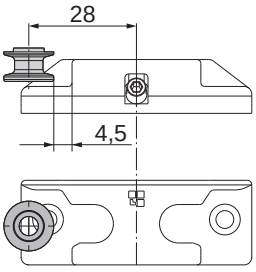
Materials

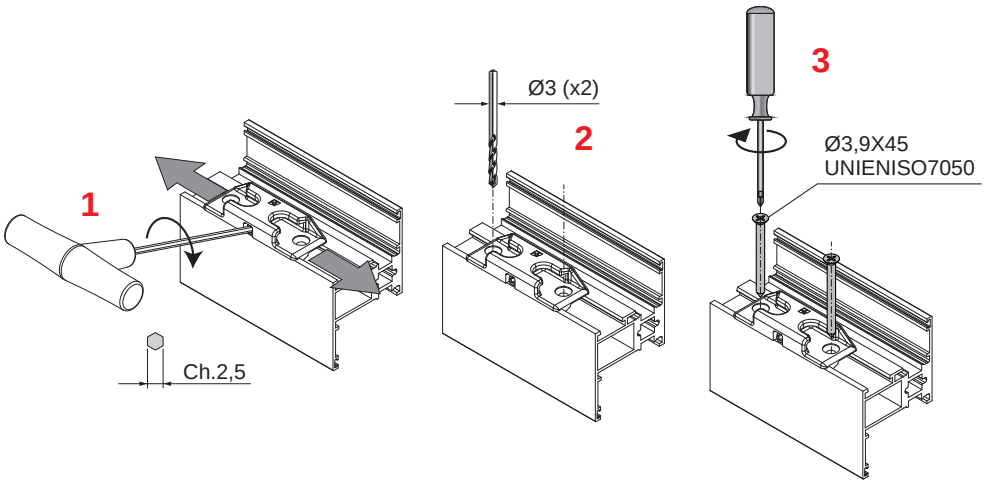
Striker in zamak with GS SILVER PLUS finish (over 500 hours of corrosion resistance)
Pawl and screws in stainless steel.

04000









Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04000	2-STAR SKG BURGLAR-PROOF FASTENING MECHANISM		X				20

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SKG - ADDITIONAL ARM



Functions

Additional arm for combination with the type 1 or type 2 arm on casements more than 1000 mm wide, installed to distribute the sash opening force during bottom-hung opening.
Specifically reinforced to achieve SKG certification.

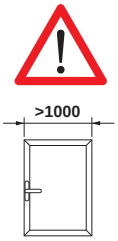
Technical Features

The additional arm is fitted to the cross-beam on opposite side to the arm (drive side) on sashes more than 1000 mm wide to prevent excessive leverage, which might impair operation of the window, during bottom-hung opening.
The arm consists of a component for connection to the corner driver without fixing screws, a rod and a slider which is fixed to the frame using three self-tapping screws provided.
The integral rod fixing utilises specific screws and plates.

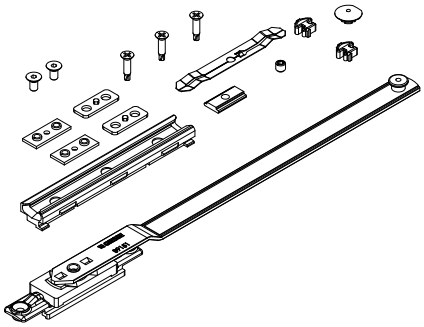
Materials

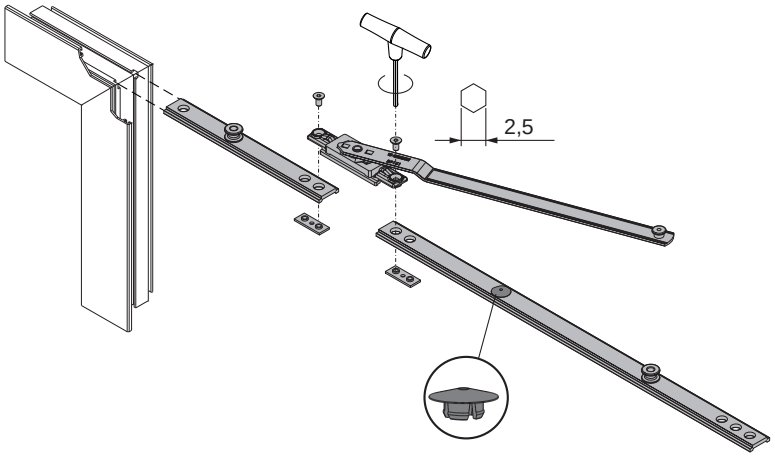
Stainless steel arm
Slider and fixing plug in GS SILVER PLUS zamak
Polyamide shim
Screws and grub screws in stainless steel

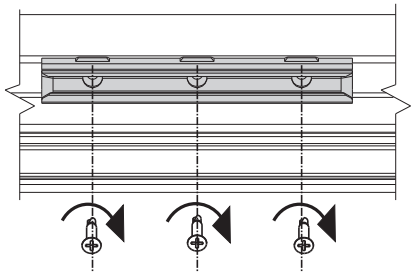


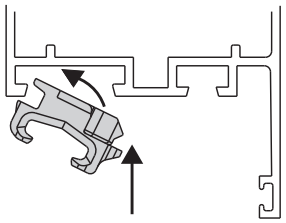


04300









Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04300	SKG - ADDITIONAL ARM		X				5

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SKG - CHIC 100 TILT-AND-TURN HINGES AND ARMS



Functions

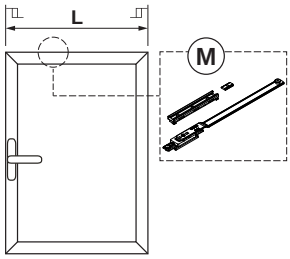
Hinge kit (upper and lower), completely pre-assembled and ready to be installed on the profile.

Technical Features

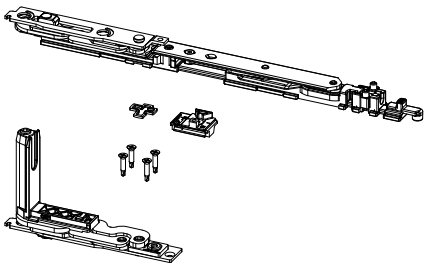
They enable tilt-and-turn opening combined with the mechanisms.
Micro-ventilation and logica versions.
The arm is equipped with micro-ventilation as standard (adjustable).
Moving the fastening pawl takes the arm from conventional to logica.
The T2 arm is adjustable: the opening "A" goes from 178 mm (base) to 148 mm.

Materials

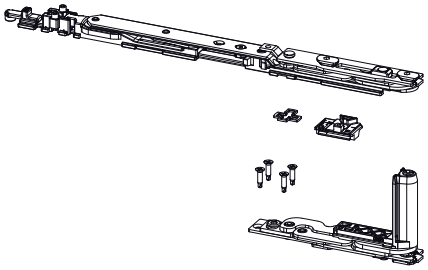
Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel
Connecting bracket and arm rod made of 304 grade stainless steel



043552

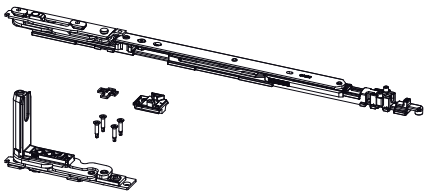


043551

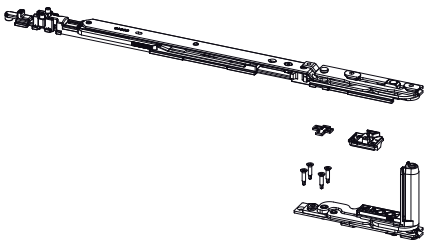


T2		T2		T2+M
T1	T1	T1	T1+M	
680	805	1000	1130	1600
L				

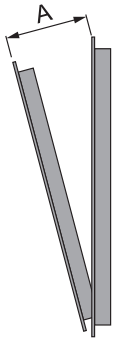
043562



043561



Sash opening



Item code	Description	PROFILE CROSS - SECTION	A (mm)	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
043551	CHIC - T1 ARM T&T KIT	C001-C002-C003-C004-C005-C006	-	RX	X				10
043552	CHIC - T1 ARM T&T KIT	C001-C002-C003-C004-C005-C006	-	LX	X				10
043561	CHIC - T2 ARM T&T KIT	C001-C002-C003-C004-C005-C006	148÷178	RX	X				10
043562	CHIC - T2 ARM T&T KIT	C001-C002-C003-C004-C005-C006	148÷178	LX	X				10

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SKG - CHIC 130 TILT-AND-TURN HINGES AND ARMS



Functions

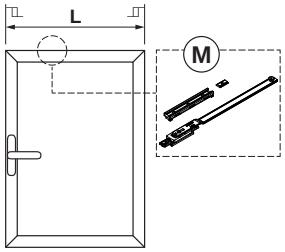
Set of hinges (top and bottom), completely pre-assembled and ready to be installed on the profile.

Technical Features

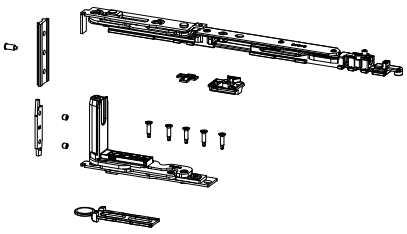
They enable tilt-and-turn opening combined with the mechanisms.
Micro-ventilation and logica versions.
The arm is equipped with micro-ventilation as standard (adjustable).
Moving the fastening pawl takes the arm from conventional to logica.
The T2 arm is adjustable: the opening "A" goes from 178 mm (base) to 148 mm.

Materials

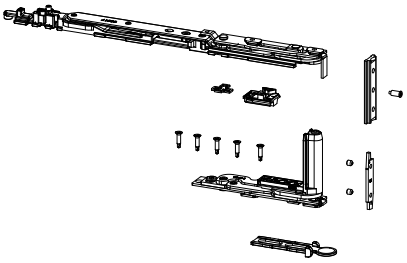
Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel
Connecting bracket and arm rod made of 304 grade stainless steel

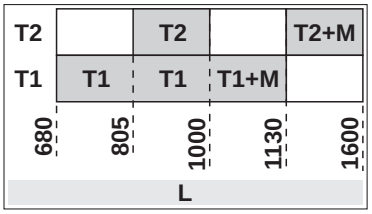


044252

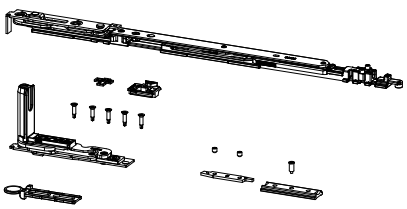


044251

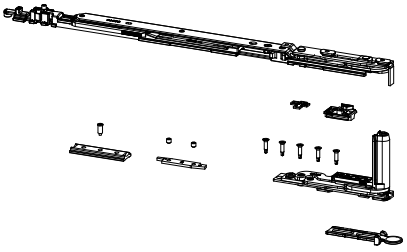




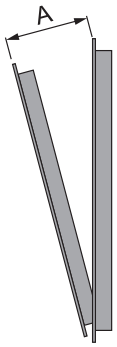
044262



044261



Sash opening



Item code	Description	PROFILE CROSS - SECTION	A (mm)	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
044251	CHIC - T1 ARM T&T KIT	C001-C002-C003-C004-C005-C006	-	RX	X				10
044252	CHIC - T1 ARM T&T KIT	C001-C002-C003-C004-C005-C006	-	LX	X				10
044261	CHIC - T2 ARM T&T KIT	C001-C002-C003-C004-C005-C006	148÷178	RX	X				10
044262	CHIC - T2 ARM T&T KIT	C001-C002-C003-C004-C005-C006	148÷178	LX	X				10

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SKG - FUTURA 3D 130 HINGES AND ARMS



Functions

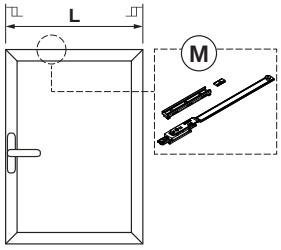
Futura 3D 130 tilt-and-turn hinge set (upper and lower) and arm.

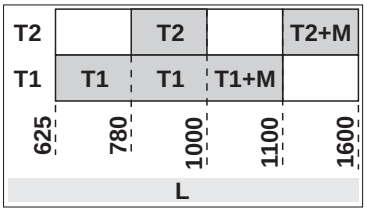
Technical Features

Hinges: hinge set (upper and lower), completely pre-assembled and ready to be installed on the profile.
Arms: allow tilt-and-turn opening in conjunction with tilt-and-turn hinges and mechanisms.

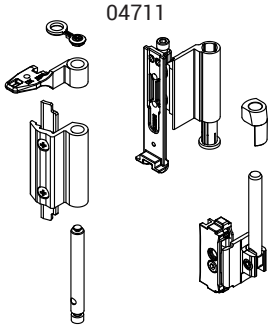
Materials

Hinges:
• Body of hinges in extruded aluminium and brass
• Supports in zamak with GS Silver Plus finish (up to 500 h corrosion resistance)
• Pins, screws and grub screws in stainless steel
Arms:
• Body, fixing block and slider in zamak with GS Silver Plus finish (up to 500 h corrosion resistance)
• Rod, connecting bracket, grub screws and screws in stainless steel
• Stop disk in polyamide

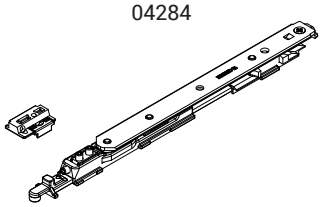




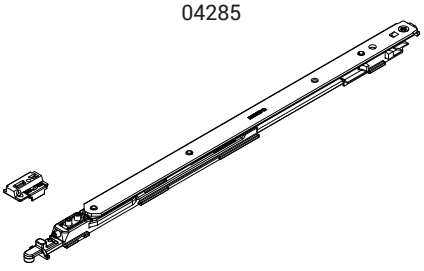
04711



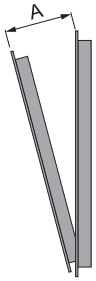
04284



04285



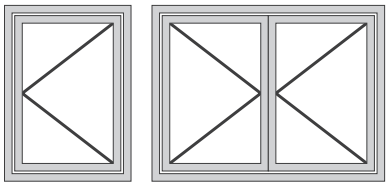
Sash opening



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04711	HINGE T/T FUTURA 130	C001-C002-C005-C006	X		X	X	10

Item code	Description	PROFILE CROSS - SECTION	A (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04284	ARM T1 130 WITH MICROVENTILATION	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	120					10
04285	ARM T2 130 WITH MICROVENTILATION	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	175					10

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2-STAR SKG - SIDE-HUNG

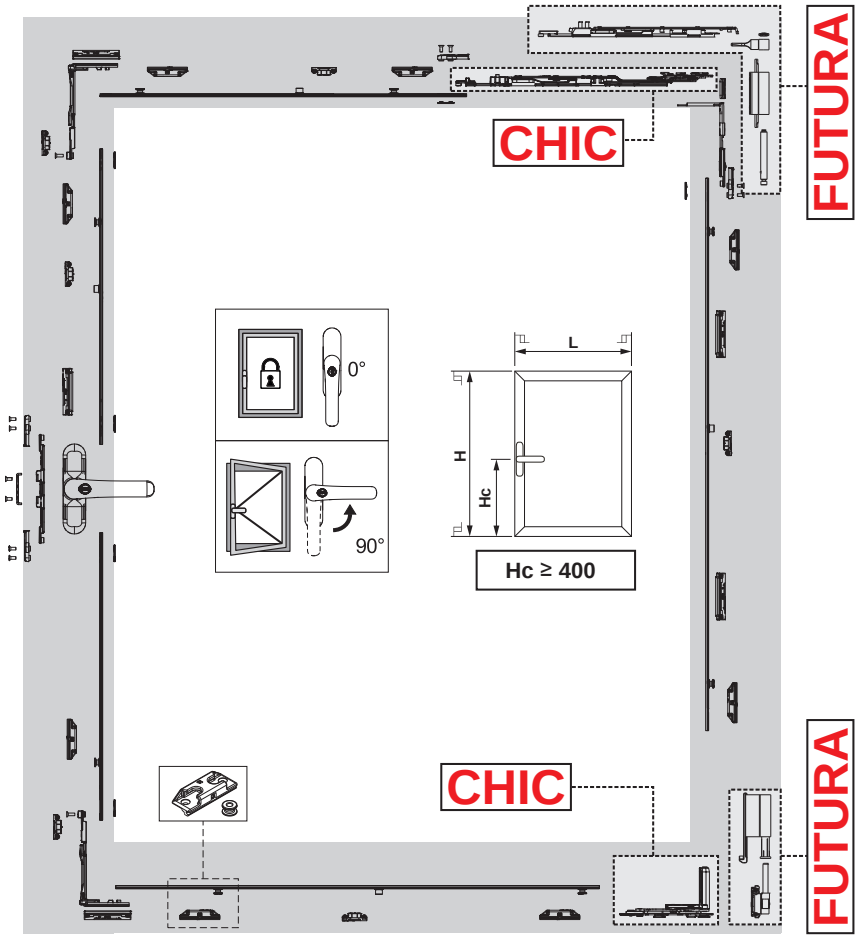
Functions

Complete SIDE-HUNG system available in both traditional FUTURA and concealed CHIC versions.

Technical Features

As it is a system which requires locking points on all sides, the tilt-and-turn arms must be used to allow the application of burglar-proof fastening mechanisms to the hinge side.
The SKG** system consists of:

- Mechanism - SKG** Cremone with key
- SKG** Side-Hung mechanism
- Arms and TILT-AND-TURN hinges - CHIC or FUTURA
- SKG** Burglar-proof fastening mechanism components



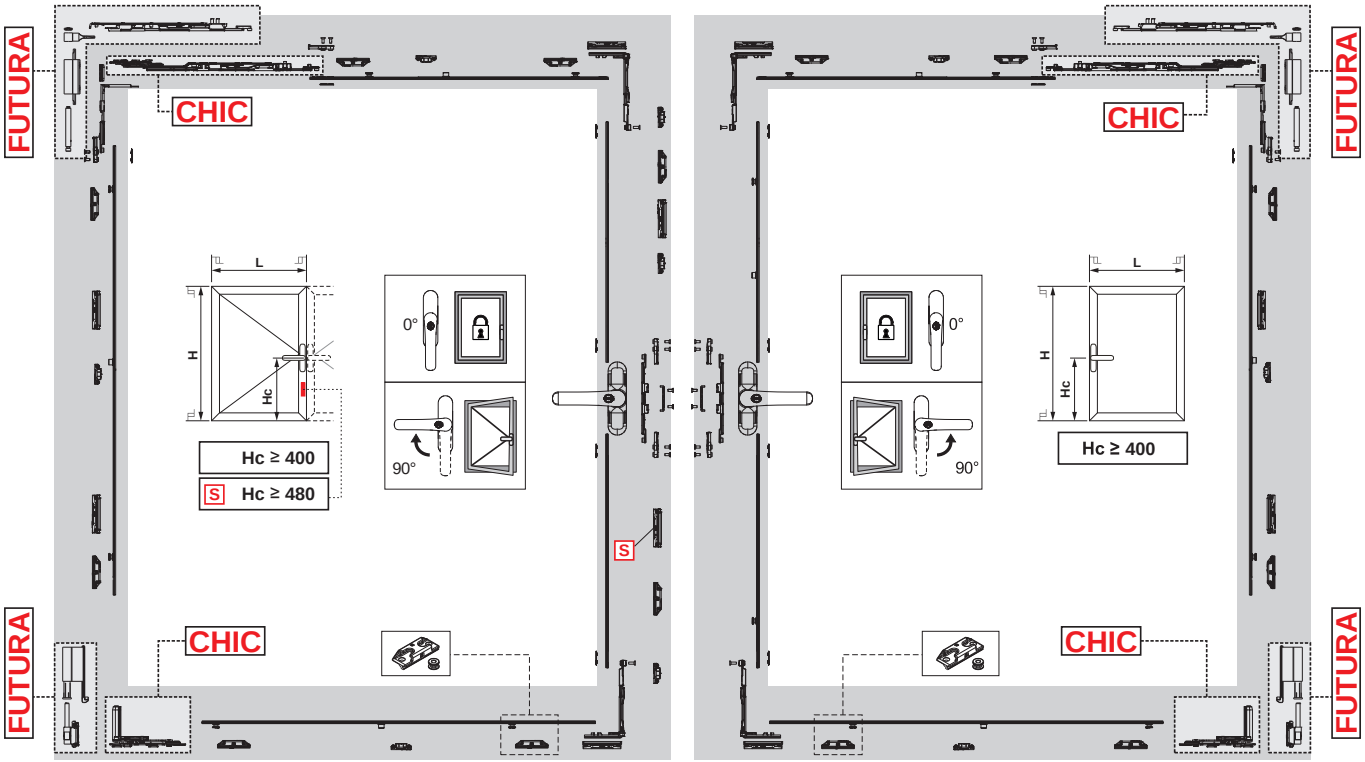
Single CHIC side-hung window - Configuration with 1000x1500 mm sash (LxH)

Quantity	Item code	Description
1	0108501 - 0119102	Cremone
1	04005	Side-Hung window kit
8	04000	Burglar-proof fastening mechanism
1	043561 - 043562	CHIC - Tilt-and-Turn window kit, T2 arm (RH or LH)

Single FUTURA side-hung window - Configuration with 1000x1500 mm sash (LxH)

Quantity	Item code	Description
1	0108501 - 0119102	Cremone
1	04005	Side-Hung window kit
8	04000	Burglar-proof fastening mechanism
1	04285	T2 arm 130
1	04711	Tilt-and-Turn window hinge

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Double CHIC side-hung window - Configuration with 1000x1500 mm sash (LxH)

Quantity	Item code	Description
2	0108501 or 0119102	Cremone
2	04005	Side-Hung window kit
14	04000	Burglar-proof fastening mechanism
2	043561 or 043562	CHIC - Tilt-and-Turn window kit, T2 arm (RH or LH)

Double FUTURA side-hung window - Configuration with 1000x1500 mm sash (LxH)

Quantity	Item code	Description
2	0108501 or 0119102	Cremone
2	04005	Side-Hung window kit
14	04000	Burglar-proof fastening mechanism
2	04285	T2 arm 130
2	04711	Tilt-and-Turn window hinge

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SKG - CREMONES



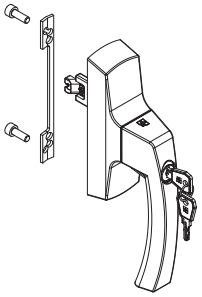
Functions
Reversible cremone with key lockable handle, with rotation through 90° and 180° and opening/ closing positioning notch.

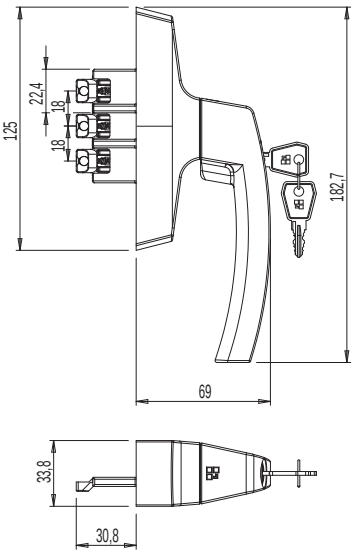
Technical Features
SKG*** certified, the cylinder makes it possible to lock the handle at 0° with a rotation and tear breaking strength greater than 100 Nm.
The cylinders of the FIRST KEY cremones have homogeneous coding, on request it is in any case possible to fulfill specific job orders with customized coding.

Materials
Handle in die-cast aluminium
Die-cast Zamak case, gears, racks and sliding parts
Nickel-plated brass cylinder
Internal sheath and Hostaform plate
Spring, screws and fixing plate in stainless steel

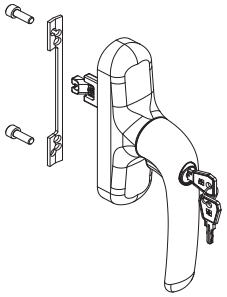
Parts
1 fixing plate
2 HSHC screws M5x14

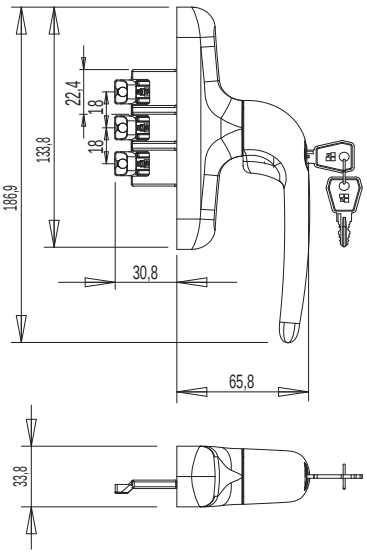
0108501





0119102





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0108501	SKG ASIA KEY MICRO CREMONE		X		X		5
0119102	SKG PRIMA KEY MICRO CREMONE		X		X		5

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SKG - SIDE-HUNG WINDOW KIT



Functions

Side-Hung fastening mechanisms.

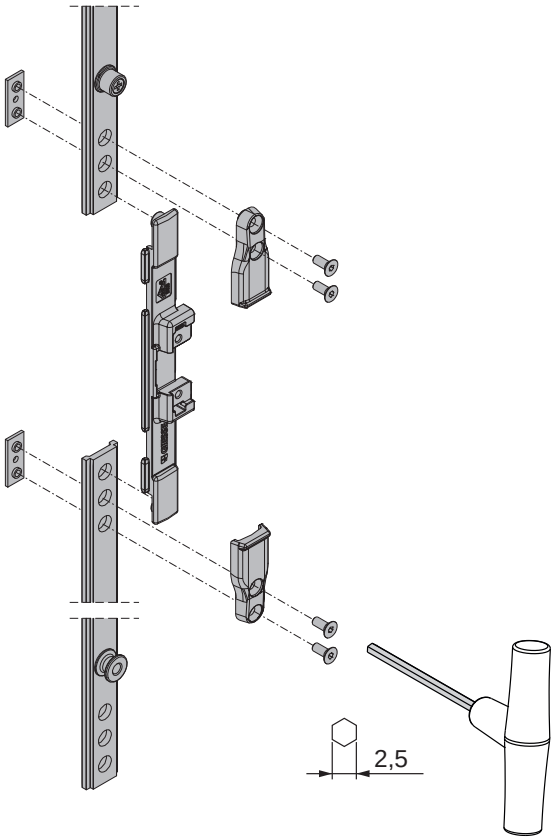
Technical Features

Perimetral closing: the 3 corner drives supplied allow closing on all sides.
It relation to a standard product, it includes strengthening components for the joints with the rod.
4 adjustable shims reduce sideways movement of the sash, increasing its resistance to burglary.

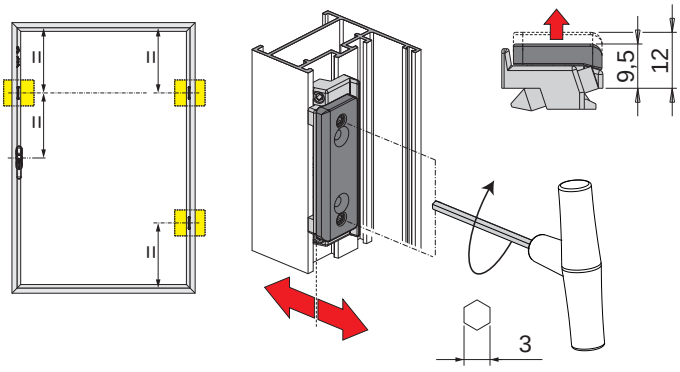
Materials

Corner drives, drive rod, mechanism bolt tip and strikers in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance)
Sash/frame shimming components in GS Silver Plus zamak
Rod strengthening components in microcast steel
Screws and grub screws in stainless steel

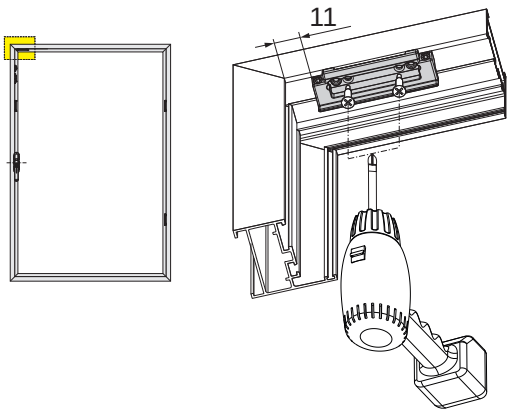
Rod strengthening components



Adjustable side shims



Top shim



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04005	SKG - SIDE-HUNG KIT		X				5

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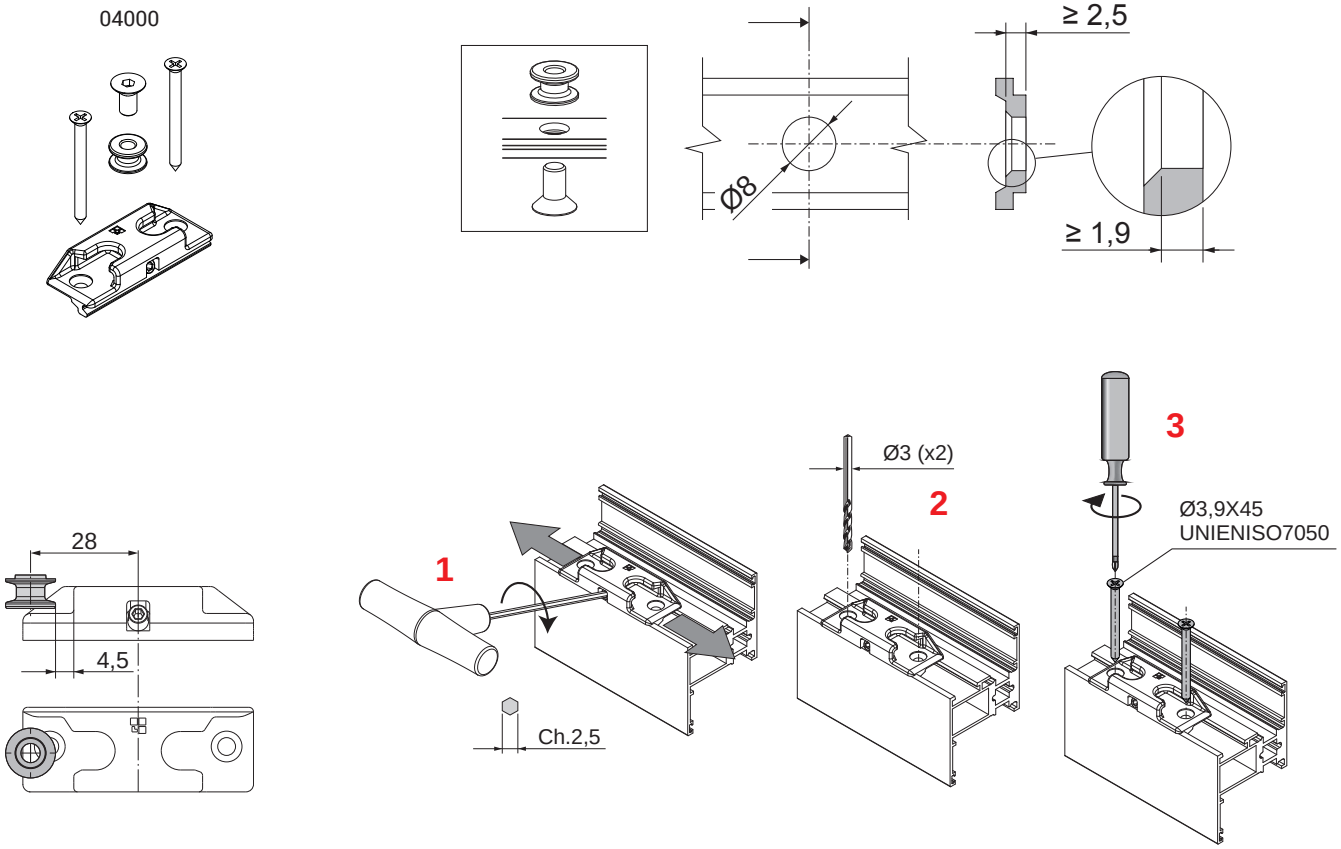
2-STAR SKG - BURGLAR-PROOF FASTENING MECHANISM



Functions
Specially designed device to increase resistance of the tilt-and-turn window to break-in attempts, making intrusion through the window more difficult.

Technical Features
Article composed of two elements: the striker to be applied to the frame and the mushroom pawl to be applied to the rod.
The striker is reversible and is secured to the frame by means of the pre-assembled grub screw and two self-threading screws that ensure precise, quick fixing to the frame.
The pawl is applied to the rod of the series by simply making a hole Ø 8 mm; thanks to this solution, using the burglar-proof kit requires no changes to the cutting.

Materials
Striker in zamak with GS SILVER PLUS finish (over 500 hours of corrosion resistance)
Pawl and screws in stainless steel.



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04000	2-STAR SKG BURGLAR-PROOF FASTENING MECHANISM		X				20

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SKG - CHIC 100 SIDE-HUNG HINGES AND ARMS



Functions

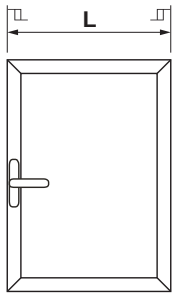
Set of hinges (top and bottom) for side-hung or secondary sash with tilt-and-turn CHIC 3D 100.

Technical Features

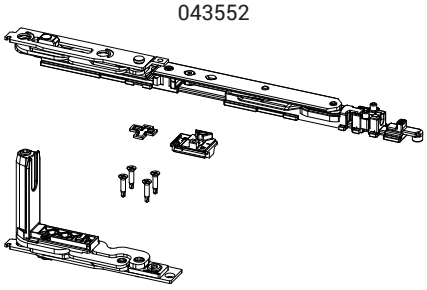
Sash opening to 180°.
Maximum load capacity 100 kg.
Assembly is simple, fast and easy using the special pre-assembled cams.
When there is an additional fastening mechanism, you need to use the CHIC fastening element.
Both hinges are adjustable (3D).
If opening is obstructed, you need to use the FRIZ limitation arm.
CAUTION: This hinge is designed to be used only on inward opening casements and is not suitable for outward opening casements.

Materials

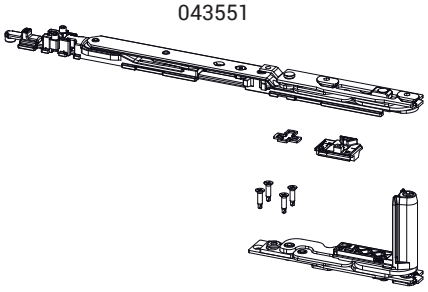
Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel

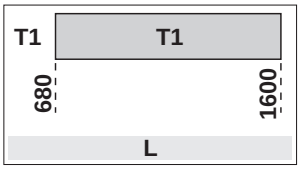


043552

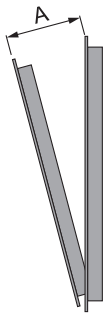


043551





Sash opening



Item code	Description	PROFILE CROSS - SECTION	A (mm)	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
043551	CHIC - T1 ARM T&T KIT	C001-C002-C003-C004-C005-C006	-	RX	X				10
043552	CHIC - T1 ARM T&T KIT	C001-C002-C003-C004-C005-C006	-	LX	X				10

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SKG - CHIC 130 SIDE-HUNG HINGES AND ARMS



Functions

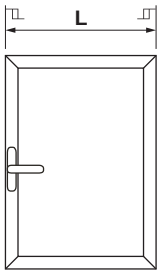
Set of hinges (top and bottom) for side-hung or secondary sash with tilt-and-turn CHIC 3D 130.

Technical Features

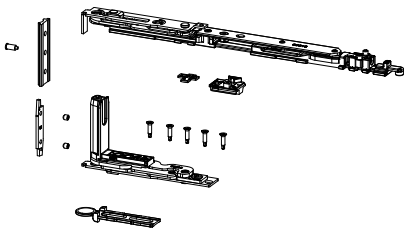
Sash opening to 180°.
Maximum load capacity 130 kg.
Assembly is simple, fast and easy using the special pre-assembled cams.
When there is an additional fastening mechanism, you need to use the CHIC fastening element.
Both hinges are adjustable (3D).
If opening is obstructed, you need to use the FRIZ limitation arm.
CAUTION: This hinge is designed to be used only on inward opening casements and is not suitable for outward opening casements.

Materials

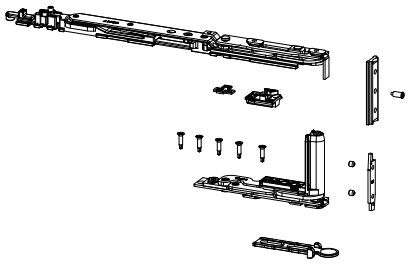
Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel

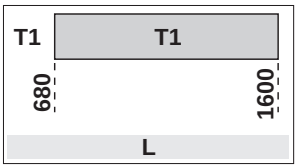


044252

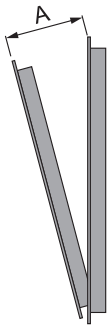


044251





Sash opening



Item code	Description	PROFILE CROSS - SECTION	A (mm)	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
044251	CHIC - T1 ARM T&T KIT	C001-C002-C003-C004-C005-C006	-	RX	X				10
044252	CHIC - T1 ARM T&T KIT	C001-C002-C003-C004-C005-C006	-	LX	X				10

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SKG - FUTURA 3D 130 HINGES AND ARMS



Functions

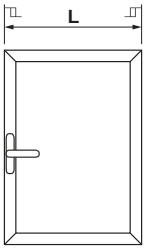
Futura 3D 130 tilt-and-turn hinge set (upper and lower) and arm.

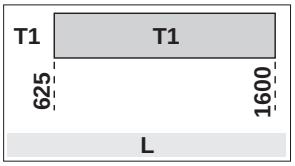
Technical Features

Hinges: hinge set (upper and lower), completely pre-assembled and ready to be installed on the profile.
Arms: allow tilt-and-turn opening in conjunction with tilt-and-turn hinges and mechanisms.

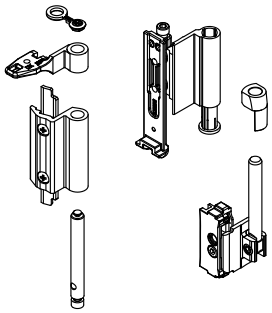
Materials

Hinges:
• Body of hinges in extruded aluminium and brass
• Supports in zamak with GS Silver Plus finish (up to 500 h corrosion resistance)
• Pins, screws and grub screws in stainless steel
Arms:
• Body, fixing block and slider in zamak with GS Silver Plus finish (up to 500 h corrosion resistance)
• Rod, connecting bracket, grub screws and screws in stainless steel
• Stop disk in polyamide

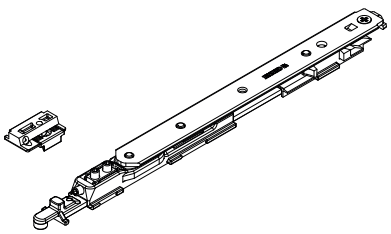




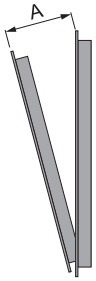
04711



04284



Sash opening



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04711	HINGE T/T FUTURA 130	C001-C002-C005-C006	X		X	X	10

Item code	Description	PROFILE CROSS - SECTION	A (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04284	ARM T1 130 WITH MICROVENTILATION	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	120					10

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3-STAR SKG SYSTEMS

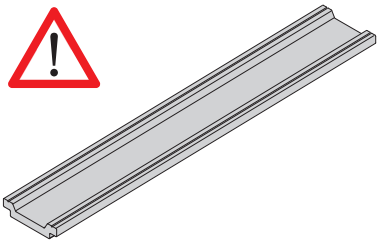
Functions

Giesse offers, for Sash and Tilt-and-Turn windows with a single and double sash, a complete burglar-proof closing system with SKG*** certification issued by IKOB SKG (Netherlands).
The use of premium materials (such as microcast steel) is essential for strengthening the components and connection devices and ensures the closing system is designed to withstand attempted burglaries and direct attacks.

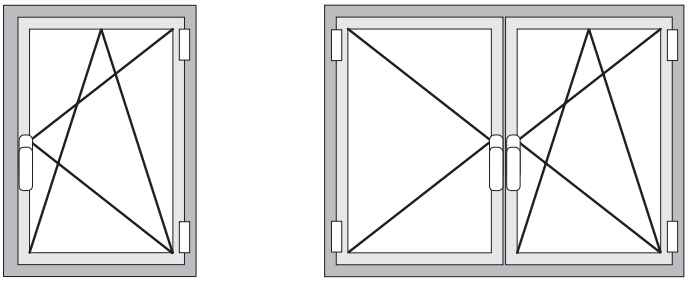
Technical Features

The SKG*** system consists of:
• Mechanism - Cremone with key
• Specific mechanism - Sash or Tilt-and-Turn
• Arms and Tilt-and-Turn hinges - CHIC or FUTURA
• Burglar-proof fastening mechanism components
The combination of these components in line with variations in the sash dimensions ensures that the Giesse closing system is strong enough to be defined as burglar-proof, with RC3 classification in accordance with EN1627.
System certification in accordance with EN1627, however, corresponds to the whole casement: hardware, profile, glass, wall fixings, etc.

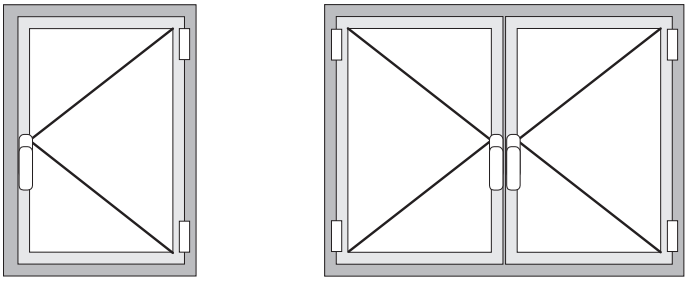
The rods used with the SKG certified closing system must be made using Aluminium.



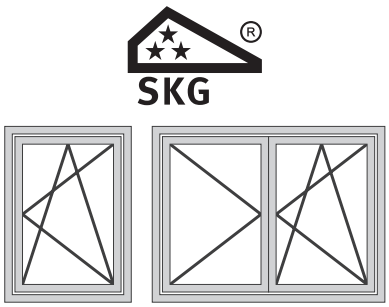
Tilt-and-turn window



Side-Hung



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CHIC

FUTURA 3D 130

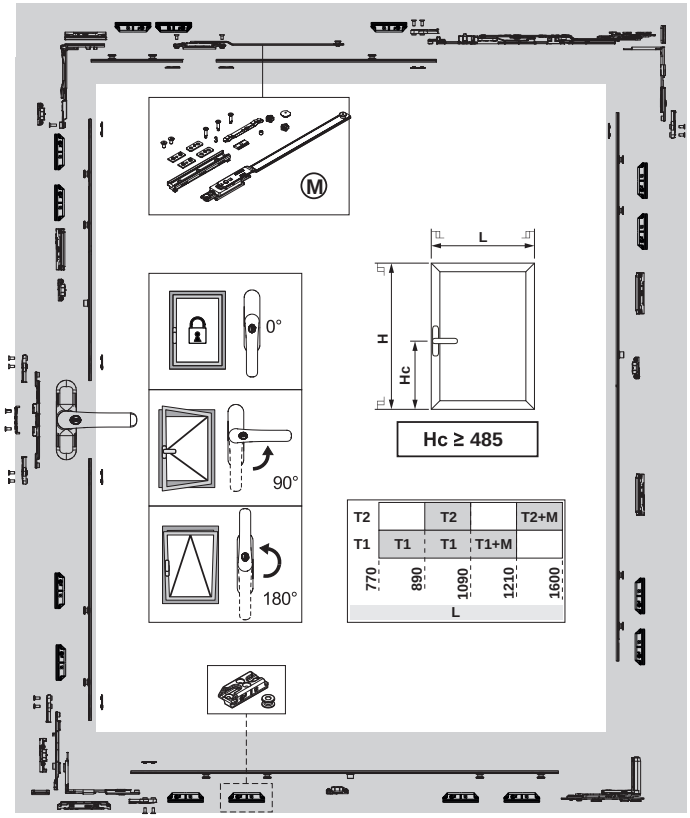
3-STAR SKG - TILT-AND-TURN

Functions

Complete Tilt-and-Turn system available in both traditional FUTURA and concealed CHIC versions.

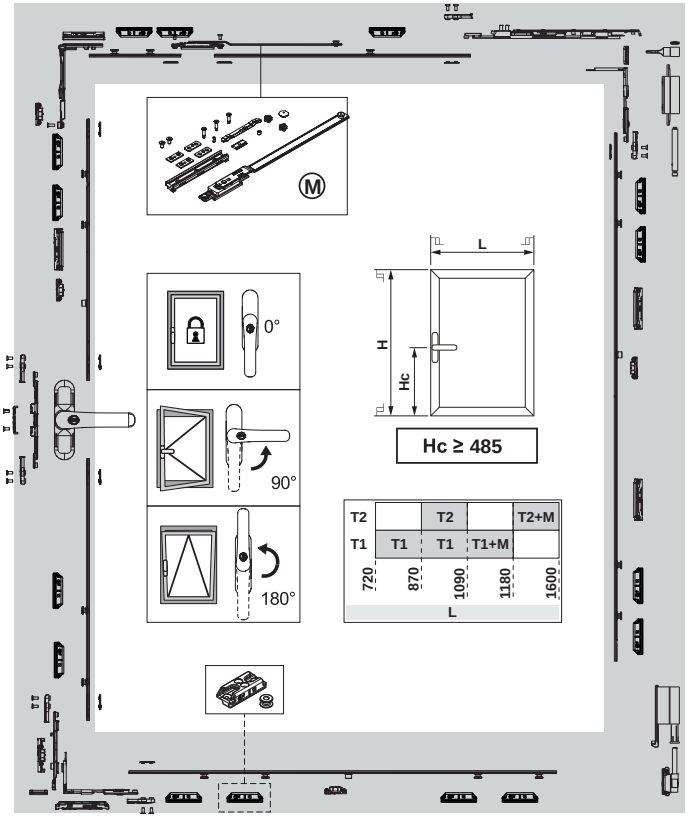
Technical Features

The SKG*** system consists of:
- Mechanism - SKG*** Cremone with key
- SKG*** Tilt-and-Turn mechanism
- Arms and Tilt-and-Turn hinges - CHIC or FUTURA
- SKG*** Burglar-proof fastening mechanism components



Single CHIC tilt-and-turn window - Configuration with 1000x1500 mm sash (LxH)

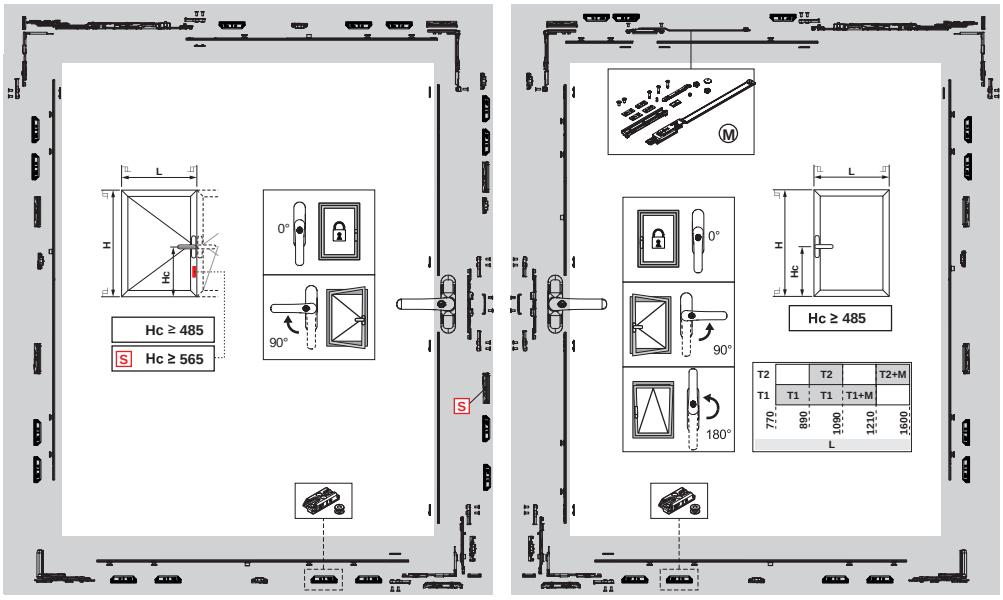
Quantity	Item code	Description
1	0108501 - 0119102	Cremone
1	04007	Tilt-and-Turn window kit
15	04009	Burglar-proof fastening mechanism
1	043561 - 043562	CHIC - Tilt-and-Turn window kit, T2 arm (RH or LH)
1	04107	Incorrect movement safety device



Single FUTURA tilt-and-turn window - Configuration with 1000x1500 mm sash (LxH)

Quantity	Item code	Description
1	0108501 - 0119102	Cremone
1	04007	Tilt-and-Turn window kit
15	04009	Burglar-proof fastening mechanism
1	04285	T2 arm 130
1	04711	Tilt-and-Turn window hinge
1	04107	Incorrect movement safety device

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Double CHIC tilt-and-turn window - Configuration with 1000x1500 mm sash (LxH)

Quantity	Item code	Description
2	0108501 or 0119102	Cremone
2	04007	Tilt-and-Turn window kit
26	04009	Burglar-proof fastening mechanism
2	043561 or 043562	CHIC - Tilt-and-Turn window kit, T2 arm (RH or LH)
1	04107	Incorrect movement safety device



Double FUTURA tilt-and-turn window - Configuration with 1000x1500 mm sash (LxH)

Quantity	Item code	Description
2	0108501 or 0119102	Cremone
2	04007	Tilt-and-Turn window kit
26	04009	Burglar-proof fastening mechanism
2	04285	T2 arm 130
2	04711	Tilt-and-Turn window hinge
1	04107	Incorrect movement safety device

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SKG - CREMONES



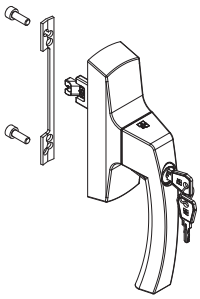
Functions
Reversible cremone with key lockable handle, with rotation through 90° and 180° and opening/closing positioning notch.

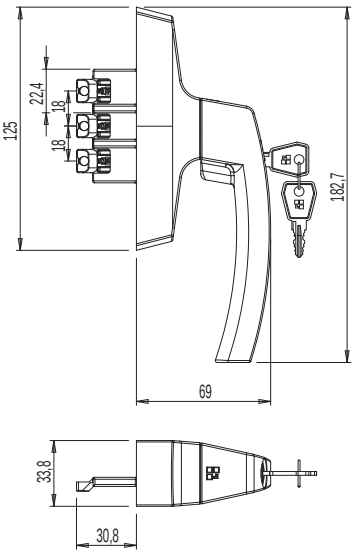
Technical Features
SKG*** certified, the cylinder makes it possible to lock the handle at 0° with a rotation and tear breaking strength greater than 100 Nm.
The cylinders of the FIRST KEY cremones have homogeneous coding, on request it is in any case possible to fulfill specific job orders with customized coding.

Materials
Handle in die-cast aluminium
Die-cast Zamak case, gears, racks and sliding parts
Nickel-plated brass cylinder
Internal sheath and Hostaform plate
Spring, screws and fixing plate in stainless steel

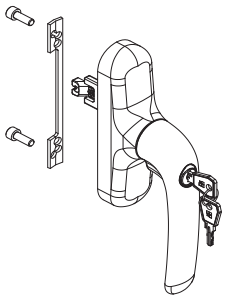
Parts
1 fixing plate
2 HSHC screws M5x14

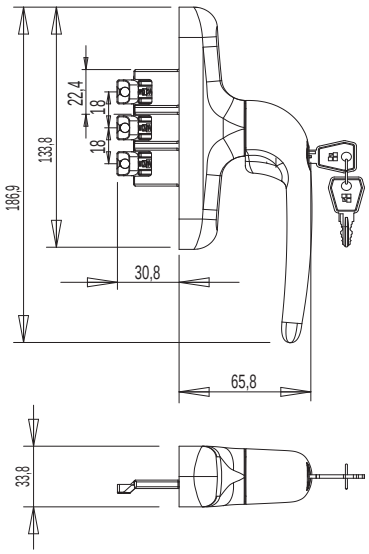
0108501





0119102





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0108501	SKG ASIA KEY MICRO CREMONE		X		X		5
0119102	SKG PRIMA KEY MICRO CREMONE		X		X		5

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SKG - TILT-AND-TURN WINDOW KIT



Functions

Tilt-and-Turn fastening mechanism available in standard version.

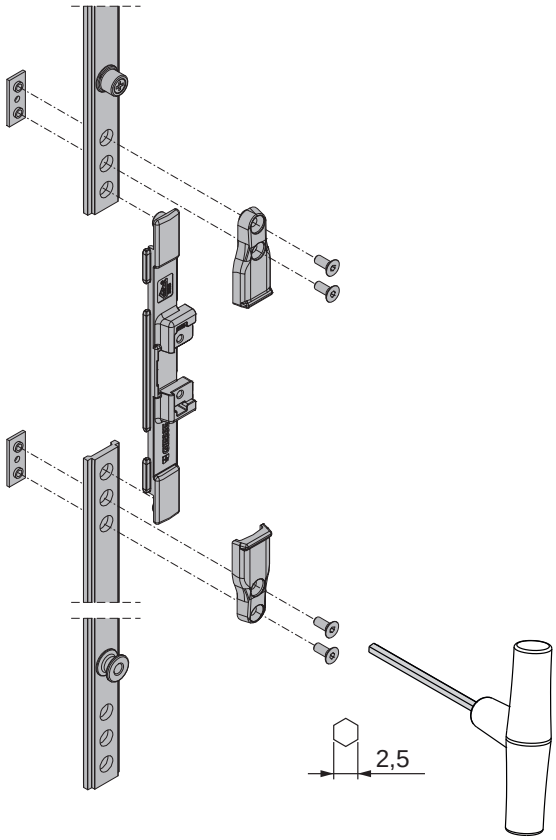
Technical Features

Perimetral closing: the 3 corner drives supplied allow closing on all sides.
It relation to a standard product, it includes strengthening components for the joints with the rod.
4 adjustable shims reduce sideways movement of the sash, increasing its resistance to burglary.

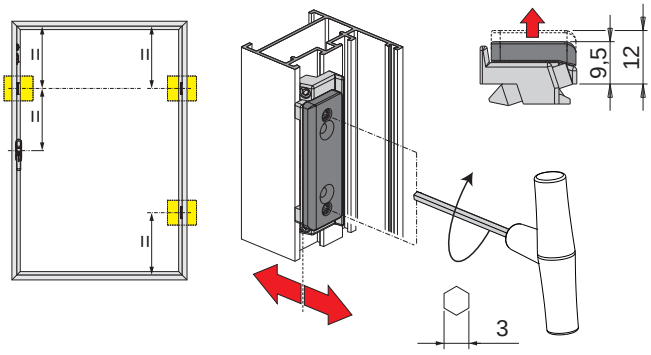
Materials

Corner drives, drive rod, mechanism bolt tip and strikers in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance)
Sash/frame shimming components in GS Silver Plus zamak
Rod strengthening components in microcast steel
Screws and grub screws in stainless steel

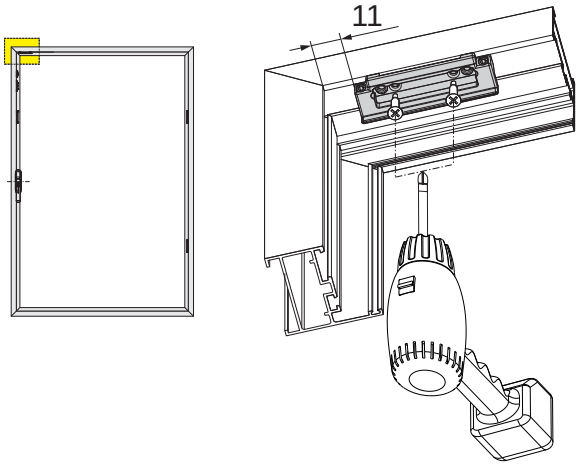
Rod strengthening components



Adjustable side shims



Top shim



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04007	SKG - TILT-AND-TURN WINDOW KIT		X				5

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3-STAR SKG BURGLAR-PROOF FASTENING MECHANISM



Functions

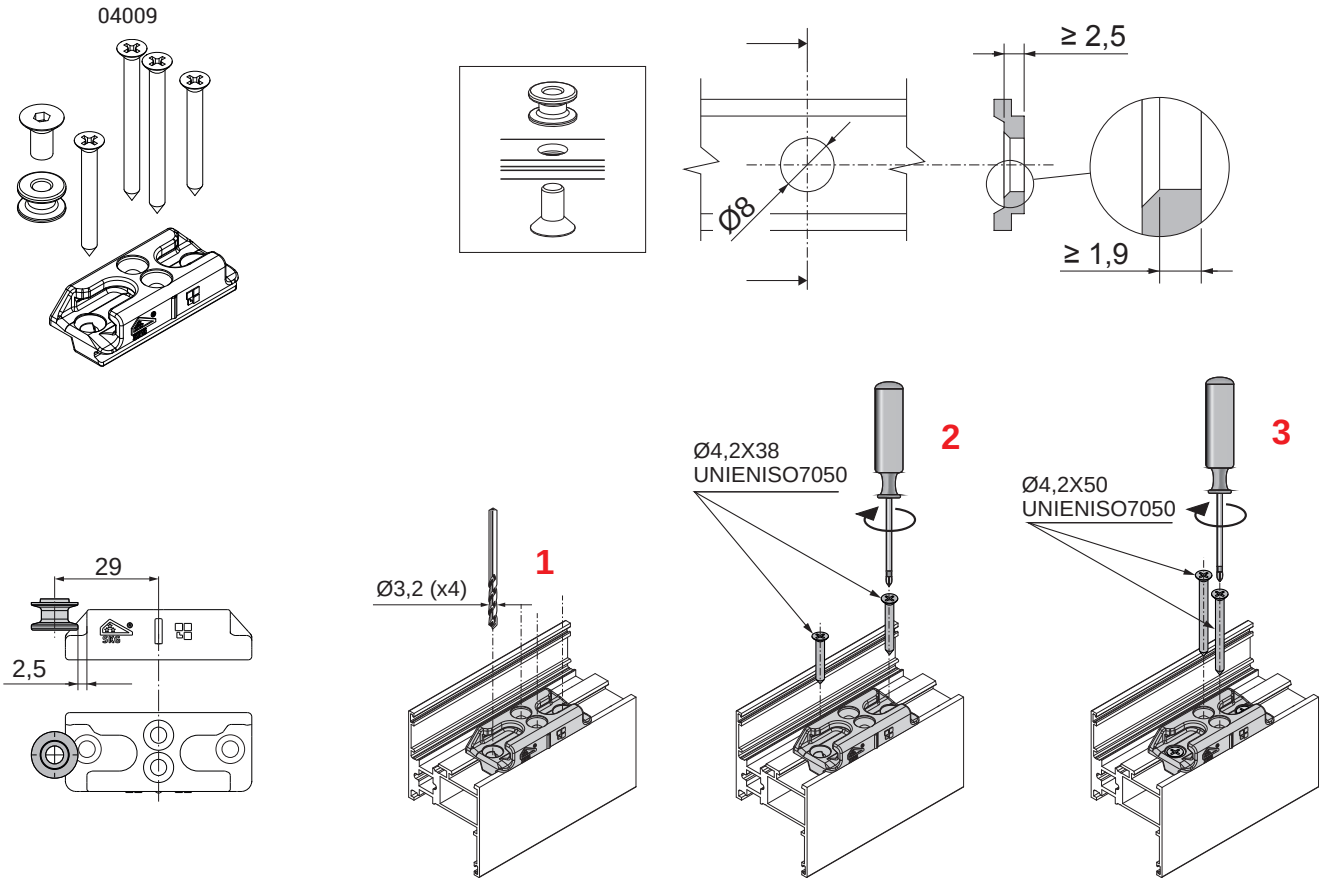
Specially designed device to increase resistance of the tilt-and-turn window to break-in attempts, making intrusion through the window more difficult.

Technical Features

Article composed of two elements: the striker to be applied to the frame and the mushroom pawl to be applied to the rod.
The striker is reversible and is secured to the frame by means of the four self-threading screws that ensure precise, quick fixing to the frame.
The pawl is applied to the rod of the series by simply making a hole Ø 8 mm; thanks to this solution, using the burglar-proof kit requires no changes to the cutting.

Materials

Microcast steel striker
Pawl and screws in stainless steel.



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04009	3-STAR SKG BURGLAR-PROOF FASTENING MECHANISM		X				20

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3-STAR SKG INCORRECT MOVEMENT SAFETY DEVICE

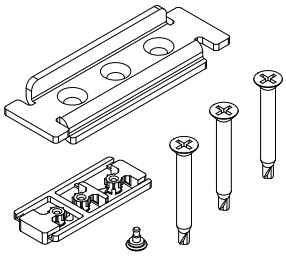


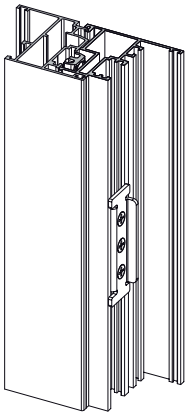
Functions
Reinforced incorrect movement safety device

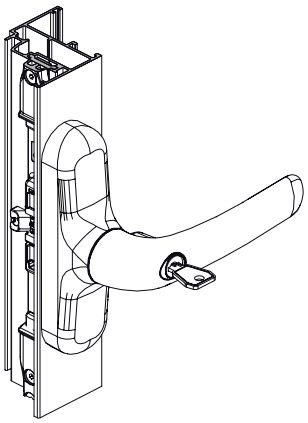
Technical Features
Made of stainless steel, it protects the incorrect movement safety device slide of the cremone.

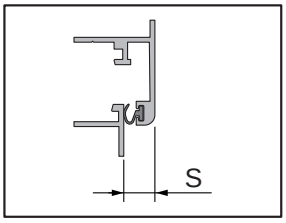
Materials
AISI 304 stainless steel components and screws.
Black polyamide shims for cremone.

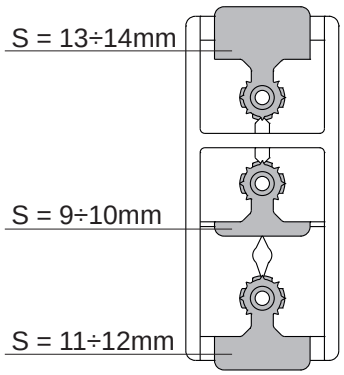
04107

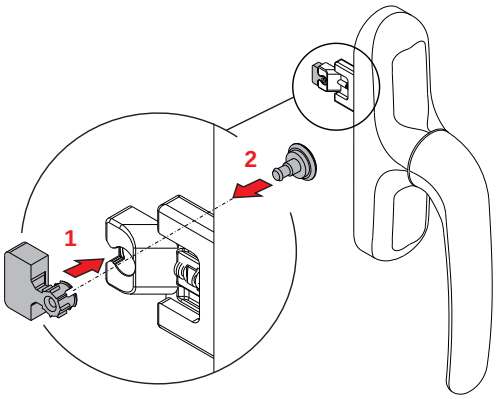












Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04107	INCORRECT MOVEMENT SAFETY DEVICE		X				10

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SKG - ADDITIONAL ARM



Functions

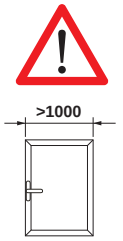
Additional arm for combination with the type 1 or type 2 arm on casements more than 1000 mm wide, installed to distribute the sash opening force during bottom-hung opening.
Specifically reinforced to achieve SKG certification.

Technical Features

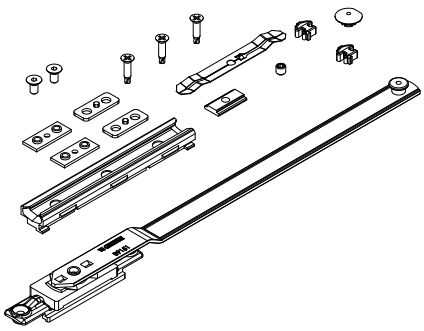
The additional arm is fitted to the cross-beam on opposite side to the arm (drive side) on sashes more than 1000 mm wide to prevent excessive leverage, which might impair operation of the window, during bottom-hung opening.
The arm consists of a component for connection to the corner driver without fixing screws, a rod and a slider which is fixed to the frame using three self-tapping screws provided.
The integral rod fixing utilises specific screws and plates.

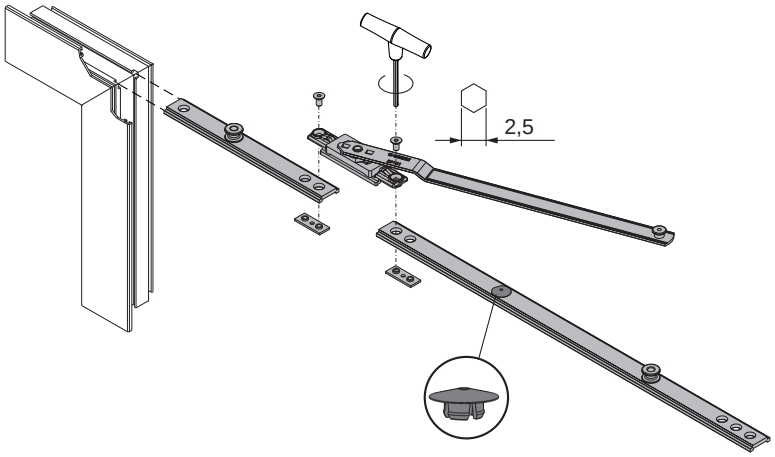
Materials

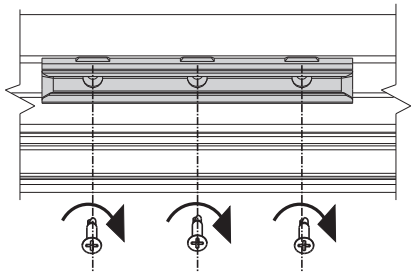
Stainless steel arm
Slider and fixing plug in GS SILVER PLUS zamak
Polyamide shim
Screws and grub screws in stainless steel

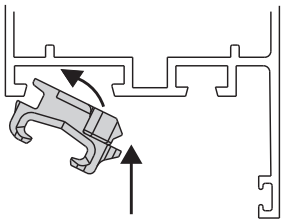


04300









Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04300	SKG - ADDITIONAL ARM		X				5

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SKG - CHIC 100 TILT-AND-TURN HINGES AND ARMS



Functions

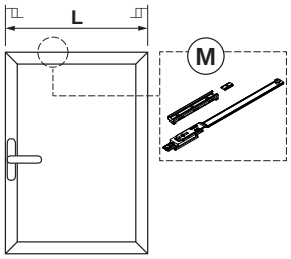
Hinge kit (upper and lower), completely pre-assembled and ready to be installed on the profile.

Technical Features

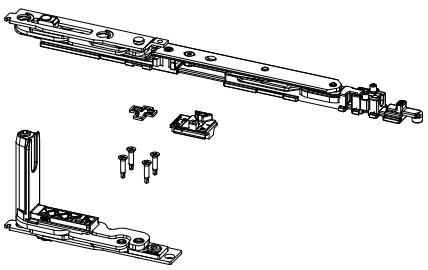
They enable tilt-and-turn opening combined with the mechanisms.
Micro-ventilation and logica versions.
The arm is equipped with micro-ventilation as standard (adjustable).
Moving the fastening pawl takes the arm from conventional to logica.
The T2 arm is adjustable: the opening "A" goes from 178 mm (base) to 148 mm.

Materials

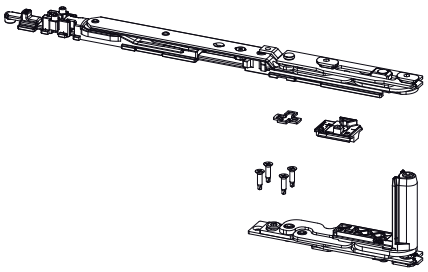
Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel
Connecting bracket and arm rod made of 304 grade stainless steel

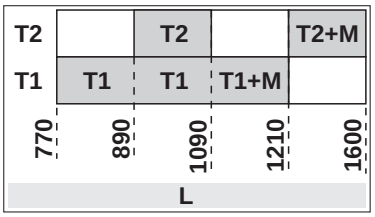


043552

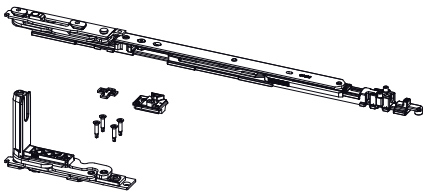


043551

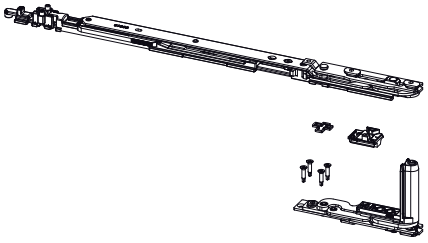




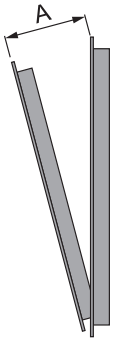
043562



043561



Sash opening



Item code	Description	PROFILE CROSS - SECTION	A (mm)	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
043551	CHIC - T1 ARM T&T KIT	C001-C002-C003-C004-C005-C006	-	RX	X				10
043552	CHIC - T1 ARM T&T KIT	C001-C002-C003-C004-C005-C006	-	LX	X				10
043561	CHIC - T2 ARM T&T KIT	C001-C002-C003-C004-C005-C006	148÷178	RX	X				10
043562	CHIC - T2 ARM T&T KIT	C001-C002-C003-C004-C005-C006	148÷178	LX	X				10

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SKG - CHIC 130 TILT-AND-TURN HINGES AND ARMS



Functions

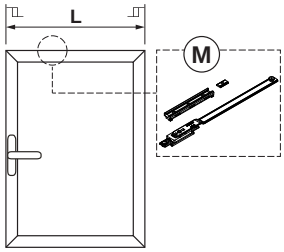
Set of hinges (top and bottom), completely pre-assembled and ready to be installed on the profile.

Technical Features

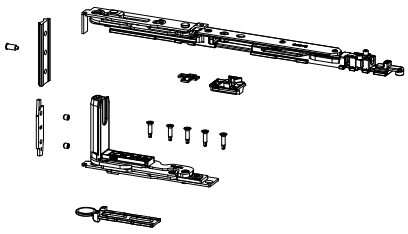
They enable tilt-and-turn opening combined with the mechanisms.
Micro-ventilation and logica versions.
The arm is equipped with micro-ventilation as standard (adjustable).
Moving the fastening pawl takes the arm from conventional to logica.
The T2 arm is adjustable: the opening "A" goes from 178 mm (base) to 148 mm.

Materials

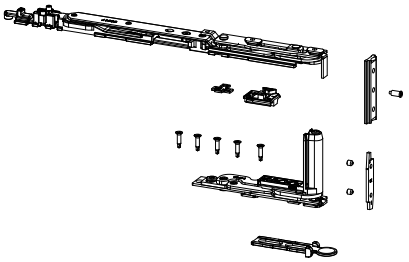
Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel
Connecting bracket and arm rod made of 304 grade stainless steel



044252

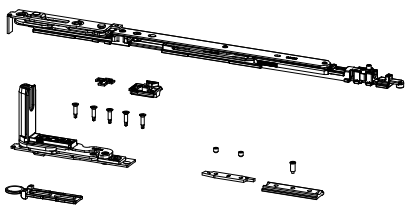


044251

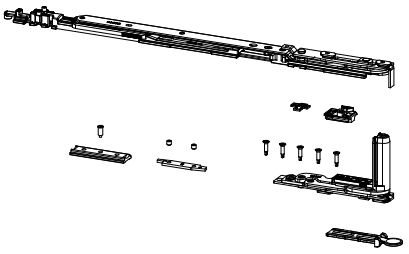


T2		T2		T2+M
T1	T1	T1	T1+M	
770	890	1090	1210	1600
L				

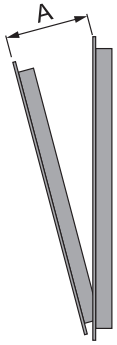
044262



044261



Sash opening



Item code	Description	PROFILE CROSS - SECTION	A (mm)	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
044251	CHIC - T1 ARM T&T KIT	C001-C002-C003-C004-C005-C006	-	RX	X				10
044252	CHIC - T1 ARM T&T KIT	C001-C002-C003-C004-C005-C006	-	LX	X				10
044261	CHIC - T2 ARM T&T KIT	C001-C002-C003-C004-C005-C006	148÷178	RX	X				10
044262	CHIC - T2 ARM T&T KIT	C001-C002-C003-C004-C005-C006	148÷178	LX	X				10

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SKG - FUTURA 3D 130 HINGES AND ARMS



Functions

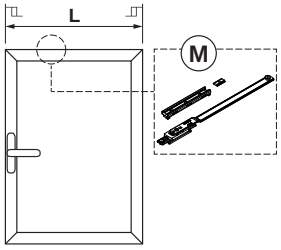
Futura 3D 130 tilt-and-turn hinge set (upper and lower) and arm.

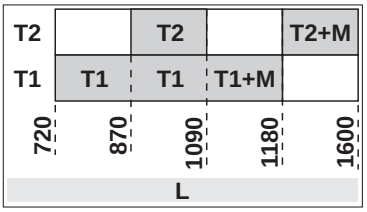
Technical Features

Hinges: hinge set (upper and lower), completely pre-assembled and ready to be installed on the profile.
Arms: allow tilt-and-turn opening in conjunction with tilt-and-turn hinges and mechanisms.

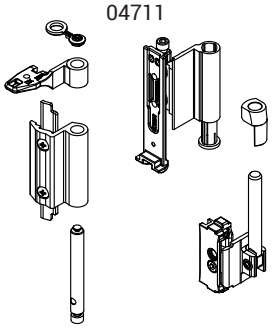
Materials

Hinges:
• Body of hinges in extruded aluminium and brass
• Supports in zamak with GS Silver Plus finish (up to 500 h corrosion resistance)
• Pins, screws and grub screws in stainless steel
Arms:
• Body, fixing block and slider in zamak with GS Silver Plus finish (up to 500 h corrosion resistance)
• Rod, connecting bracket, grub screws and screws in stainless steel
• Stop disk in polyamide

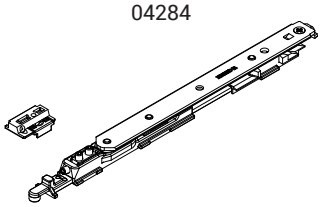




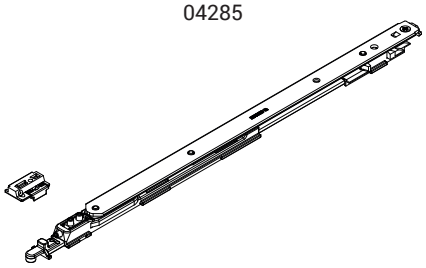
04711



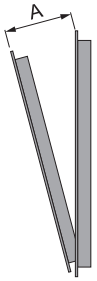
04284



04285



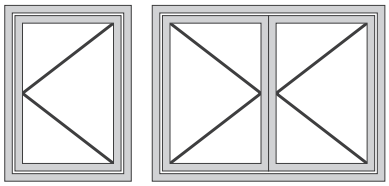
Sash opening



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04711	HINGE T/T FUTURA 130	C001-C002-C005-C006	X		X	X	10

Item code	Description	PROFILE CROSS - SECTION	A (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04284	ARM T1 130 WITH MICROVENTILATION	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	120					10
04285	ARM T2 130 WITH MICROVENTILATION	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	175					10

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CHIC

FUTURA 3D 130

3-STAR SKG SIDE-HUNG WINDOW

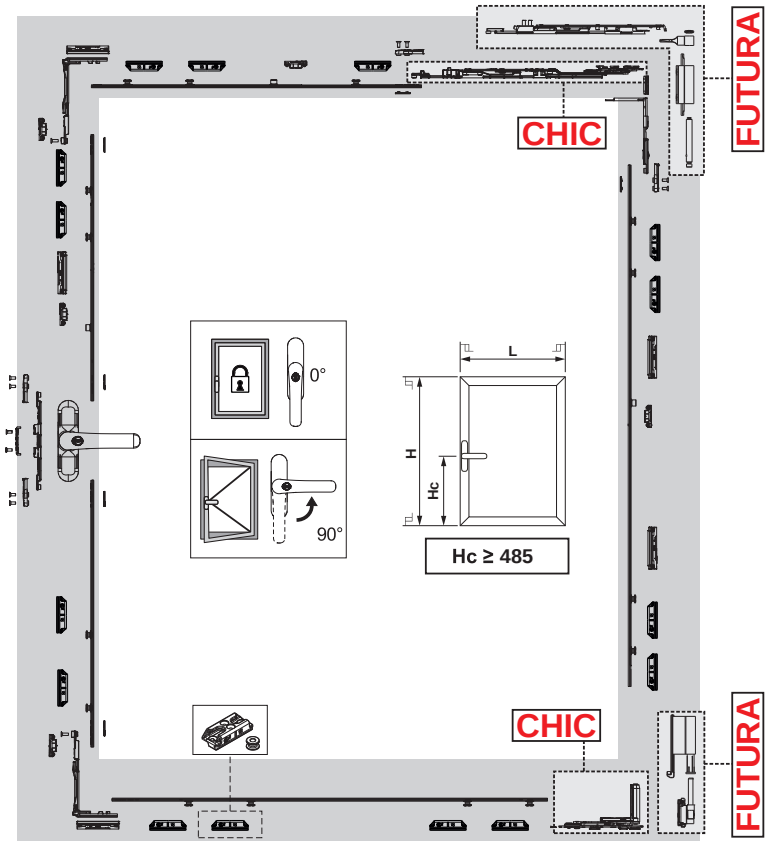
Functions

Complete SIDE-HUNG system available in both traditional FUTURA and concealed CHIC versions.

Technical Features

As it is a system which requires locking points on all sides, the tilt-and-turn arms must be used to allow the application of burglar-proof fastening mechanisms to the hinge side.
The SKG*** system consists of:

- Mechanism - SKG*** Cremone with key
- SKG*** Side-Hung mechanism
- Arms and TILT-AND-TURN hinges - CHIC or FUTURA
- SKG*** Burglar-proof fastening mechanism components



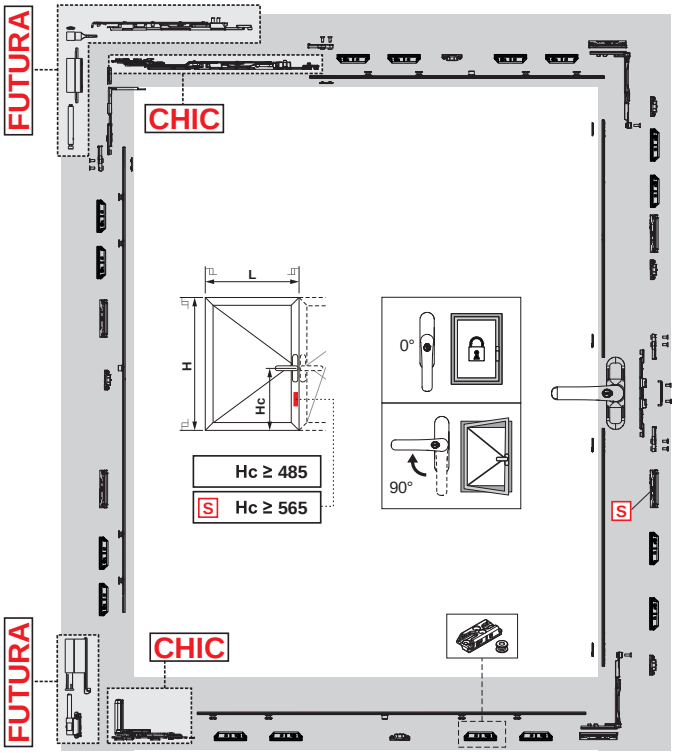
Single CHIC side-hung window - Configuration with 1000x1500 mm sash (LxH)

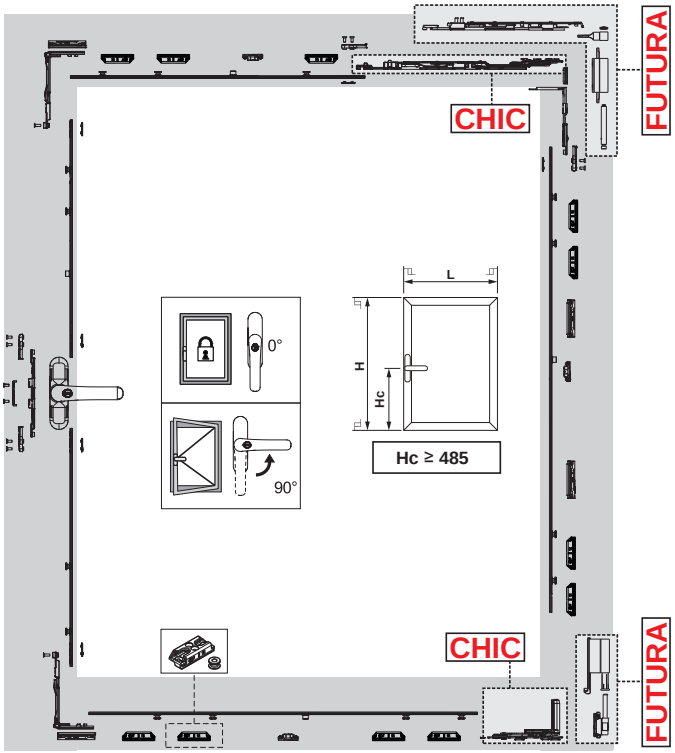
Quantity	Item code	Description
1	0108501 - 0119102	Cremone
1	04005	Side-Hung window kit
15	04009	Burglar-proof fastening mechanism
1	043561 - 043562	CHIC - Tilt-and-Turn window kit, T2 arm (RH or LH)
1	04107	Incorrect movement safety device

Single FUTURA side-hung window - Configuration with 1000x1500 mm sash (LxH)

Quantity	Item code	Description
1	0108501 - 0119102	Cremone
1	04005	Side-Hung window kit
15	04009	Burglar-proof fastening mechanism
1	04285	T2 arm 130
1	04711	Tilt-and-Turn window hinge
1	04107	Incorrect movement safety device

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Double CHIC side-hung window - Configuration with 1000x1500 mm sash (LxH)

Quantity	Item code	Description
2	0108501 or 0119102	Cremone
2	04005	Side-Hung window kit
26	04009	Burglar-proof fastening mechanism
2	043561 or 043562	CHIC - Tilt-and-Turn window kit, T2 arm (RH or LH)
1	04107	Incorrect movement safety device

Double FUTURA side-hung window - Configuration with 1000x1500 mm sash (LxH)

Quantity	Item code	Description
2	0108501 or 0119102	Cremone
2	04005	Side-Hung window kit
26	04009	Burglar-proof fastening mechanism
2	04285	T2 arm 130
2	04711	Tilt-and-Turn window hinge
1	04107	Incorrect movement safety device

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SKG - CREMONES



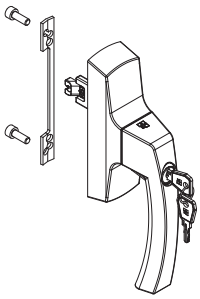
Functions
Reversible cremone with key lockable handle, with rotation through 90° and 180° and opening/closing positioning notch.

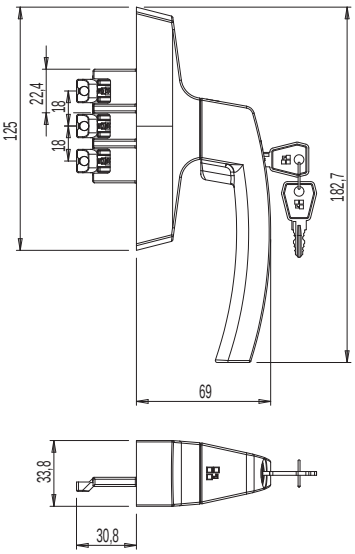
Technical Features
SKG*** certified, the cylinder makes it possible to lock the handle at 0° with a rotation and tear breaking strength greater than 100 Nm.
The cylinders of the FIRST KEY cremones have homogeneous coding, on request it is in any case possible to fulfill specific job orders with customized coding.

Materials
Handle in die-cast aluminium
Die-cast Zamak case, gears, racks and sliding parts
Nickel-plated brass cylinder
Internal sheath and Hostaform plate
Spring, screws and fixing plate in stainless steel

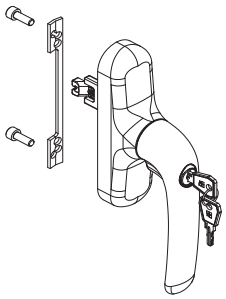
Parts
1 fixing plate
2 HSHC screws M5x14

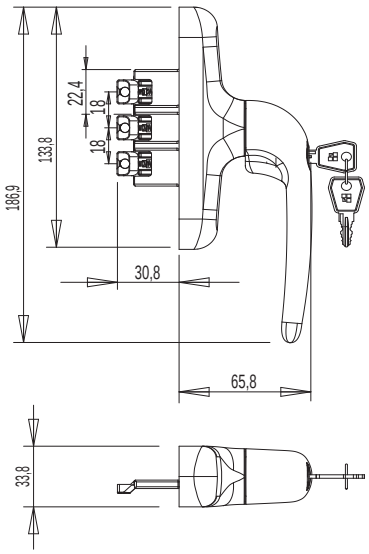
0108501





0119102





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0108501	SKG ASIA KEY MICRO CREMONE		X		X		5
0119102	SKG PRIMA KEY MICRO CREMONE		X		X		5

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SKG - SIDE-HUNG WINDOW KIT



Functions

Side-Hung fastening mechanisms.

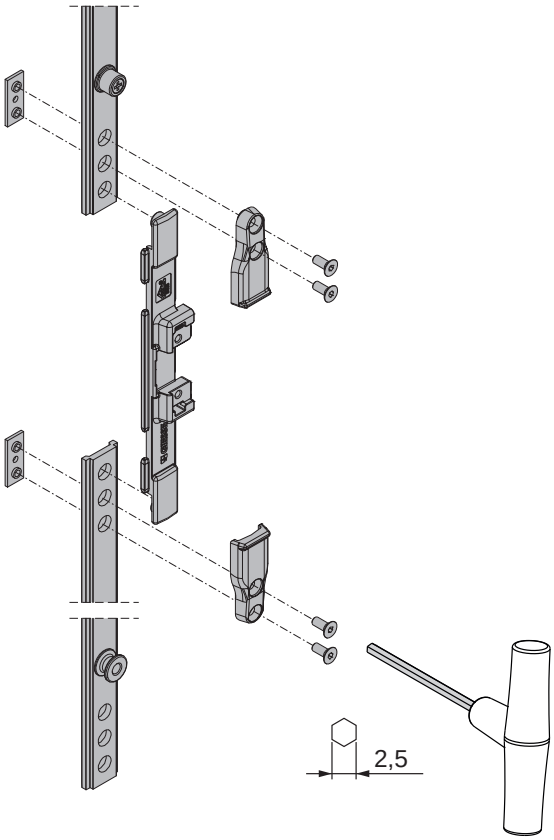
Technical Features

Perimetral closing: the 3 corner drives supplied allow closing on all sides.
It relation to a standard product, it includes strengthening components for the joints with the rod.
4 adjustable shims reduce sideways movement of the sash, increasing its resistance to burglary.

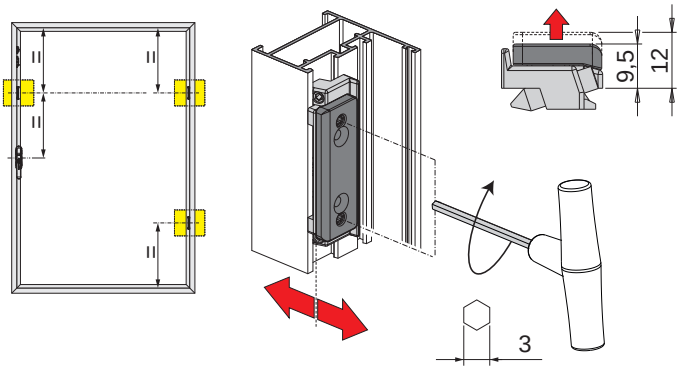
Materials

Corner drives, drive rod, mechanism bolt tip and strikers in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance)
Sash/frame shimming components in GS Silver Plus zamak
Rod strengthening components in microcast steel
Screws and grub screws in stainless steel

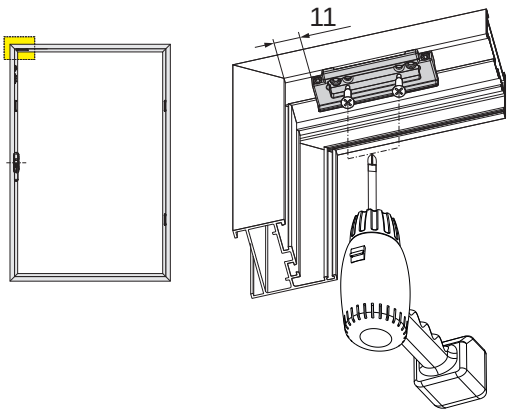
Rod strengthening components



Adjustable side shims



Top shim



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04005	SKG - SIDE-HUNG KIT		X				5

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3-STAR SKG BURGLAR-PROOF FASTENING MECHANISM



Functions

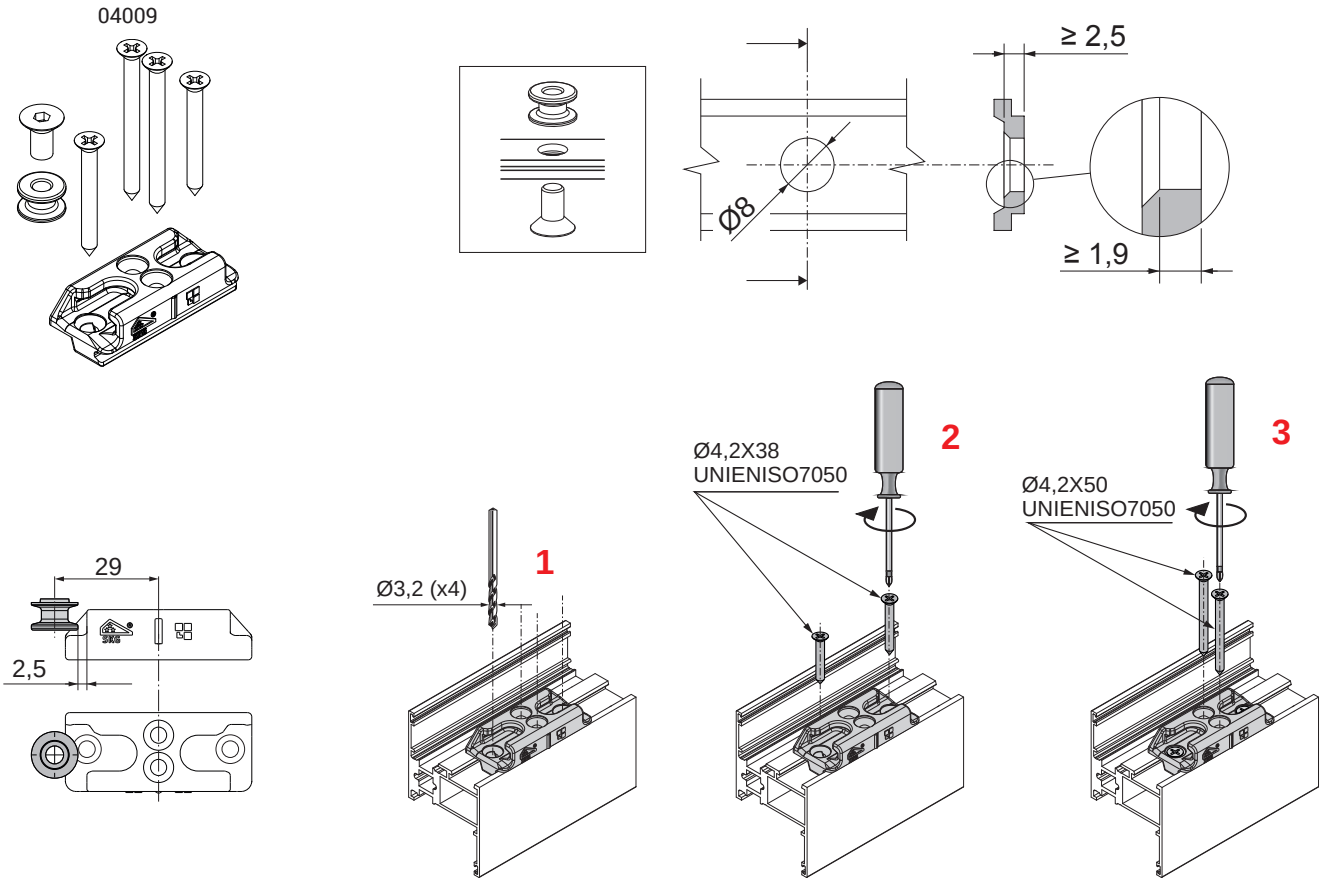
Specially designed device to increase resistance of the tilt-and-turn window to break-in attempts, making intrusion through the window more difficult.

Technical Features

Article composed of two elements: the striker to be applied to the frame and the mushroom pawl to be applied to the rod.
The striker is reversible and is secured to the frame by means of the four self-threading screws that ensure precise, quick fixing to the frame.
The pawl is applied to the rod of the series by simply making a hole Ø 8 mm; thanks to this solution, using the burglar-proof kit requires no changes to the cutting.

Materials

Microcast steel striker
Pawl and screws in stainless steel.



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04009	3-STAR SKG BURGLAR-PROOF FASTENING MECHANISM		X				20

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3-STAR SKG INCORRECT MOVEMENT SAFETY DEVICE

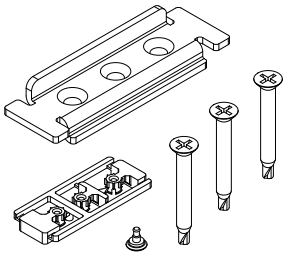


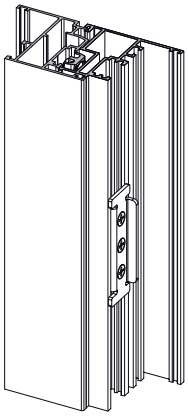
Functions
Reinforced incorrect movement safety device

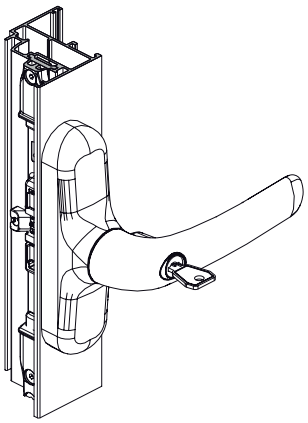
Technical Features
Made of stainless steel, it protects the incorrect movement safety device slide of the cremone.

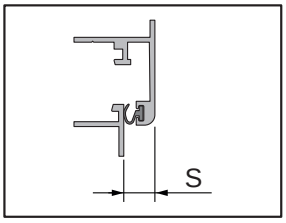
Materials
AISI 304 stainless steel components and screws.
Black polyamide shims for cremone.

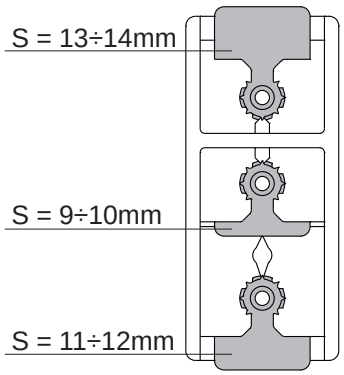
04107

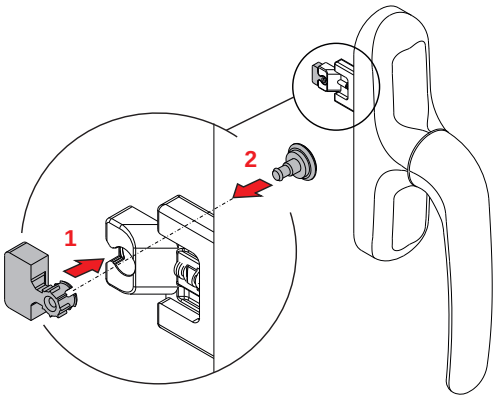












Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04107	INCORRECT MOVEMENT SAFETY DEVICE		X				10

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SKG - CHIC 100 SIDE-HUNG HINGES AND ARMS



Functions

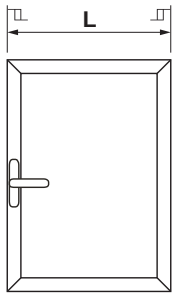
Set of hinges (top and bottom) for side-hung or secondary sash with tilt-and-turn CHIC 3D 100.

Technical Features

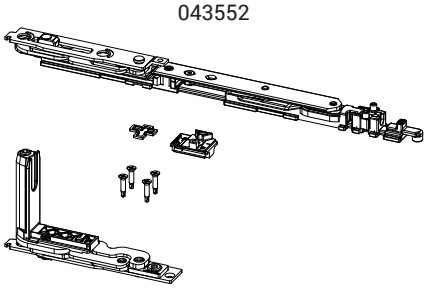
Sash opening to 180°.
Maximum load capacity 100 kg.
Assembly is simple, fast and easy using the special pre-assembled cams.
When there is an additional fastening mechanism, you need to use the CHIC fastening element.
Both hinges are adjustable (3D).
If opening is obstructed, you need to use the FRIZ limitation arm.
CAUTION: This hinge is designed to be used only on inward opening casements and is not suitable for outward opening casements.

Materials

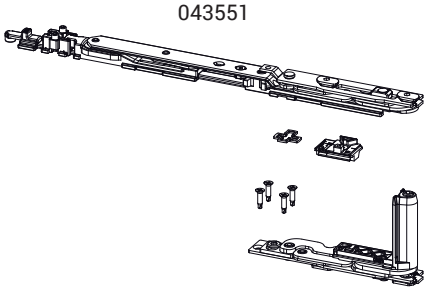
Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel

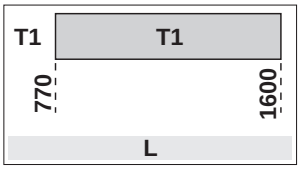


043552

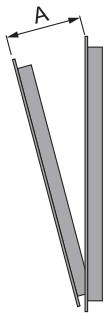


043551





Sash opening



Item code	Description	PROFILE CROSS - SECTION	A (mm)	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
043551	CHIC - T1 ARM T&T KIT	C001-C002-C003-C004-C005-C006	-	RX	X				10
043552	CHIC - T1 ARM T&T KIT	C001-C002-C003-C004-C005-C006	-	LX	X				10

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SKG - CHIC 130 SIDE-HUNG HINGES AND ARMS



Functions

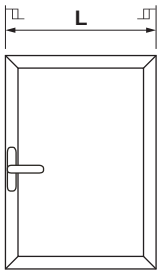
Set of hinges (top and bottom) for side-hung or secondary sash with tilt-and-turn CHIC 3D 130.

Technical Features

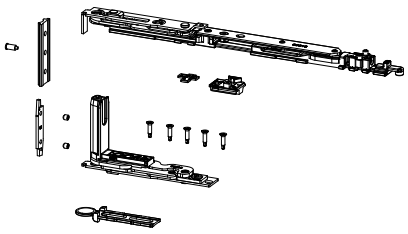
Sash opening to 180°.
Maximum load capacity 130 kg.
Assembly is simple, fast and easy using the special pre-assembled cams.
When there is an additional fastening mechanism, you need to use the CHIC fastening element.
Both hinges are adjustable (3D).
If opening is obstructed, you need to use the FRIZ limitation arm.
CAUTION: This hinge is designed to be used only on inward opening casements and is not suitable for outward opening casements.

Materials

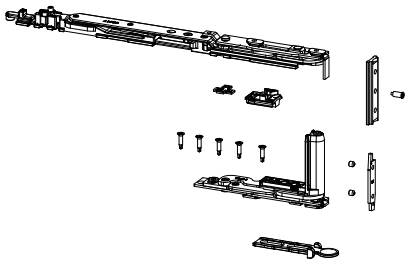
Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel

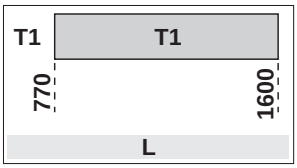


044252

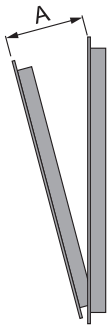


044251





Sash opening



Item code	Description	PROFILE CROSS - SECTION	A (mm)	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
044251	CHIC - T1 ARM T&T KIT	C001-C002-C003-C004-C005-C006	-	RX	X				10
044252	CHIC - T1 ARM T&T KIT	C001-C002-C003-C004-C005-C006	-	LX	X				10

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SKG - FUTURA 3D 130 HINGES AND ARMS



Functions

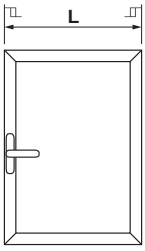
Futura 3D 130 tilt-and-turn hinge set (upper and lower) and arm.

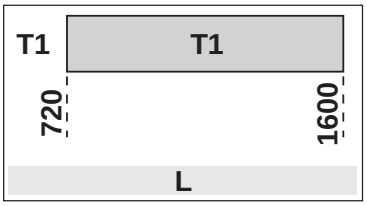
Technical Features

Hinges: hinge set (upper and lower), completely pre-assembled and ready to be installed on the profile.
Arms: allow tilt-and-turn opening in conjunction with tilt-and-turn hinges and mechanisms.

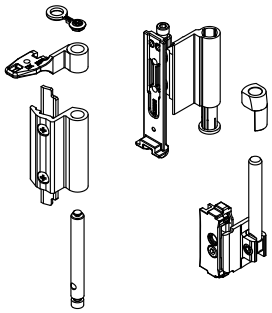
Materials

Hinges:
• Body of hinges in extruded aluminium and brass
• Supports in zamak with GS Silver Plus finish (up to 500 h corrosion resistance)
• Pins, screws and grub screws in stainless steel
Arms:
• Body, fixing block and slider in zamak with GS Silver Plus finish (up to 500 h corrosion resistance)
• Rod, connecting bracket, grub screws and screws in stainless steel
• Stop disk in polyamide

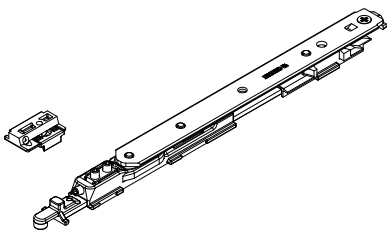




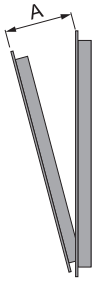
04711



04284



Sash opening



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04711	HINGE T/T FUTURA 130	C001-C002-C005-C006	X		X	X	10

Item code	Description	PROFILE CROSS - SECTION	A (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04284	ARM T1 130 WITH MICROVENTILATION	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	120					10

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SECURITY SASH

Functions

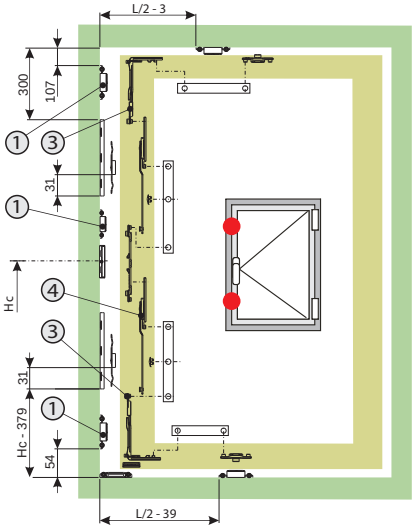
The Security Sash is a piece of hardware for making security side-hung casements.

Technical Features

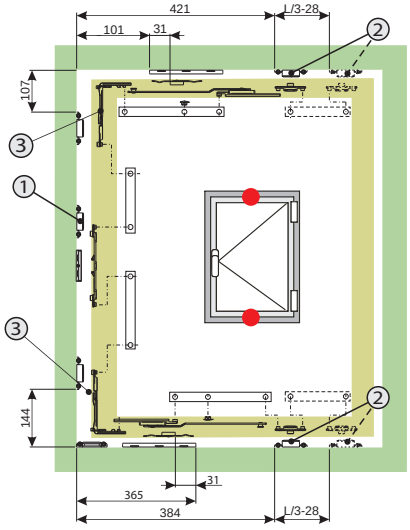
The Security Sash hardware permits limited opening of the sash (between 130 and 260 mm depending on the arm adjustment) with the cremone turned through 90°, and fully opened with the cremone turned through 180°.
It is available in two versions depending on the position of the arms that can be with horizontal or vertical closing.
Using the Security Sash hardware it is possible to make the Futura HP Bottom-Hung window configuration.

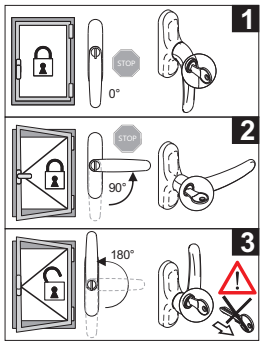


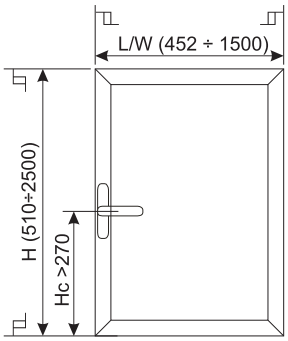
VERTICAL SECURITY SASH



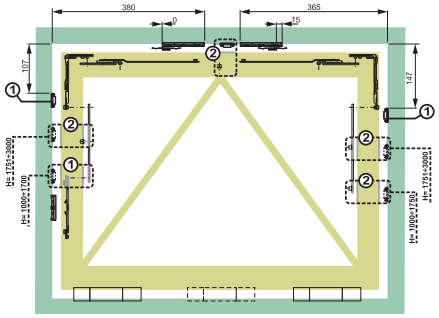
HORIZONTAL SECURITY SASH

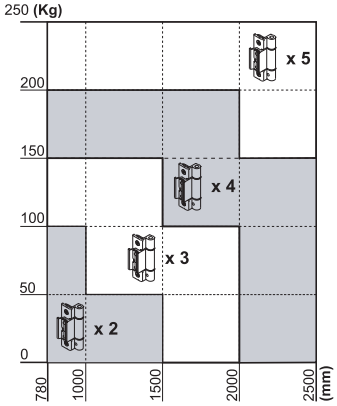


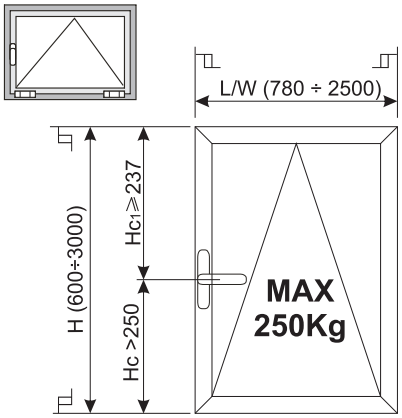




FUTURA HP BOTTOM-HUNG WINDOW







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SECURITY SASH KIT

Functions

Hardware kit for making two different types of casement:
- Side-hung security sash (with cremone at 0° sash closed, at 90° partly open and at 180° fully open) with the arms positioned on the beams;
- Heavy bottom-hung window with load capacity up to 250 kg and perimetral closing.

Technical Features

Security sash

It is available in two versions depending on the position of the arms that can be with horizontal or vertical closing.
With the security sash kit, the sash can be opened a limited distance (between 130 and 260 mm depending on the arm adjustment) with the cremone handle turned through 90° and fully opened with the cremone turned through 180°.
The kit is to be in addition to the Prima Key Capture cremone or Prima Key Logica window handle (along with the mechanism M180) and the Bridge 2, Flash XL, Flash XXL, Linea 3D type hinges depending on the size and load capacity of the casement.
Using Prima Key mechanisms you can inhibit full opening of the sash, retaining only the emergency exit.

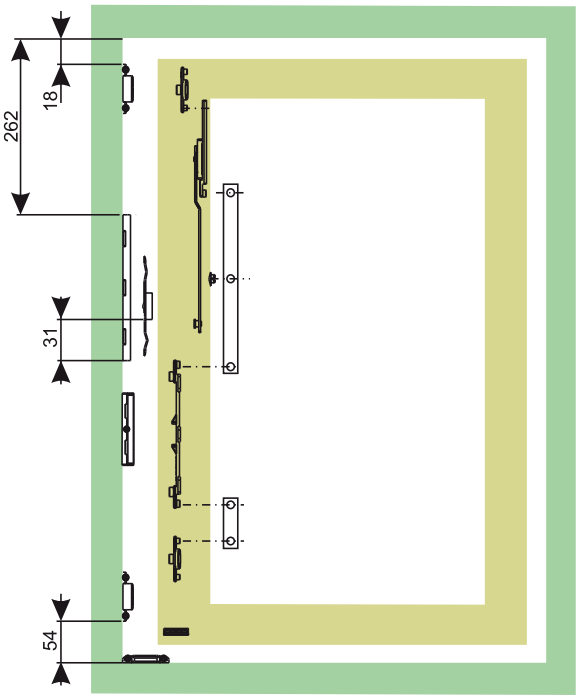
Futura HP bottom-hung window

The bottom-hung window requires a one-way cremone or a window handle, with or without a key, to which should be added the 90° locking component (art. 02235 for the cremone and a polyamide rod block for the window handle) because the mechanism must be limited to 90°.
The number of Bridge 2 type hinges required depends on the width and the weight of the casement.

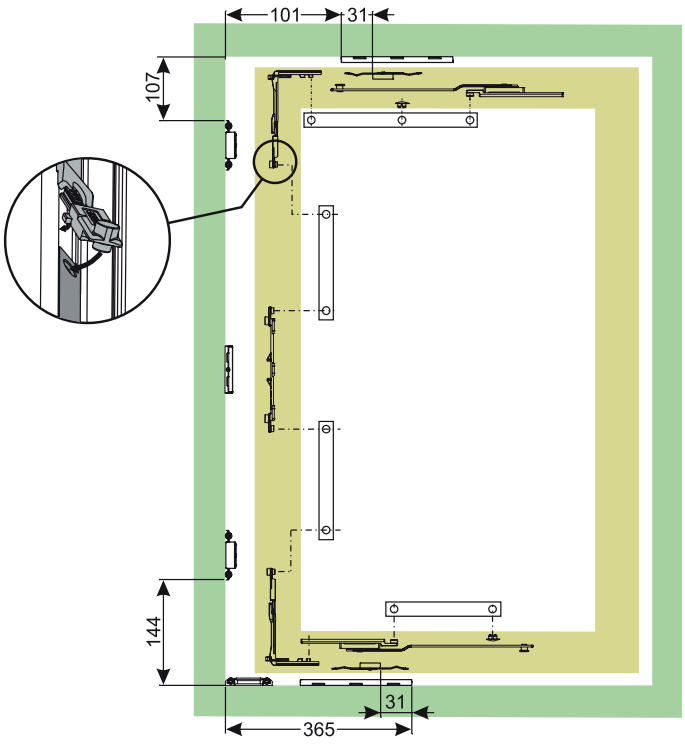
Materials

Strikers, connection elements, incorrect movement striker, drive rod, slider, stop plate, drives and clips in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance).
Striker and lifting element, incorrect movement safety device shims, adjustment shims and supporting plug in polyamide.
Screws, grub screws, additional arm and spring for arm in stainless steel.
Striker and microventilation device in zamak with GS Silver Plus finish (up to 500 h corrosion resistance).

VERTICAL SECURITY SASH KIT

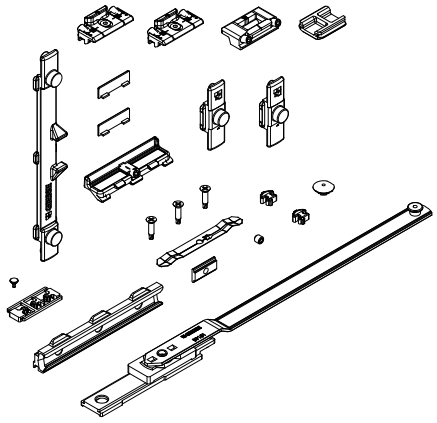


HORIZONTAL SECURITY SASH KIT

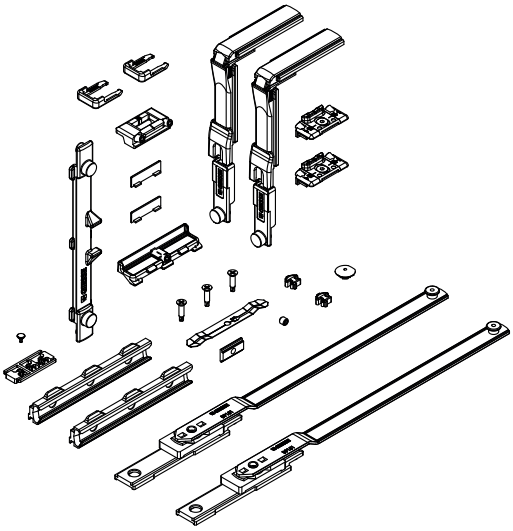


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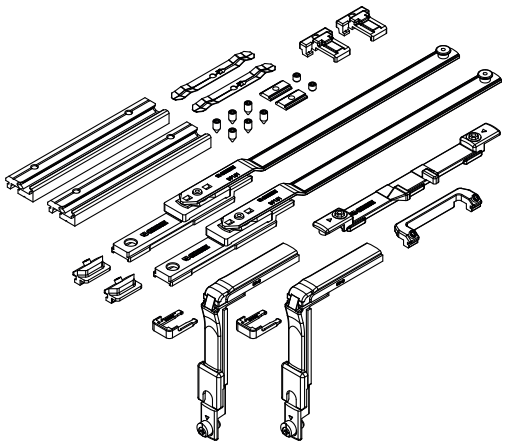
01174K



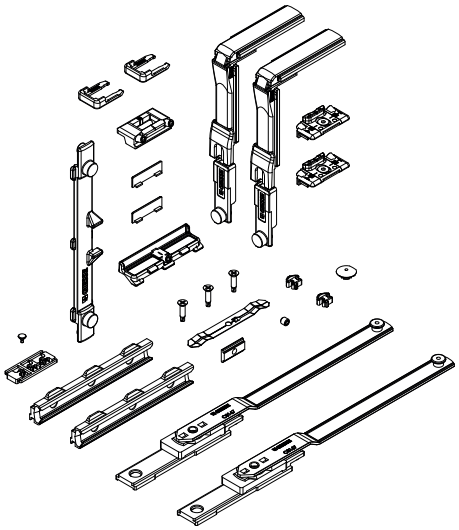
01175K



01207



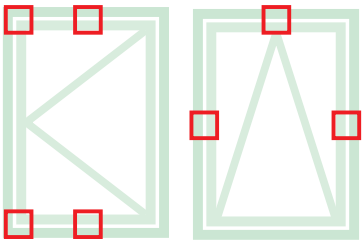
01210



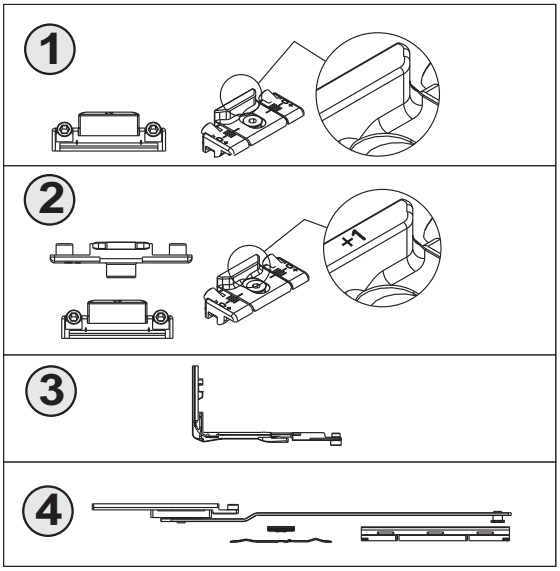
Item code	Description	PROFILE CROSS - SECTION	Sash range [mm]	Bottom-hung window range [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01174K	FUTURA VERTICAL SECURITY SASH MECHANISM	C001-C002-C003-C004-C005-C006-C012-C011-C012-C013-C014-C015-C016-C017	W 800 ÷ 1500 H 650 ÷ 2500	-	X				10
01175K	FUTURA HORIZONTAL SECURITY SASH MECHANISM	C001-C002-C003-C004-C005-C006-C012-C011-C012-C013-C014-C015-C016-C017	W 452 ÷ 1500 H 510 ÷ 2500	W 780 ÷ 2500 H 600 ÷ 3000	X				10
01207	FUTURA HORIZONTAL SECURITY SASH MECHANISM	C007	L 480 ÷ 1500 H 510 ÷ 2500	W 780 ÷ 2500 H 600 ÷ 3000	X				10
01210	FUTURA HORIZONTAL SECURITY SASH MECHANISM	C001-C002-C003-C004-C005-C006-C012-C011-C012-C013-C014-C015-C016-C017	L 397 ÷ 1500 H 510 ÷ 2500	-	X				10

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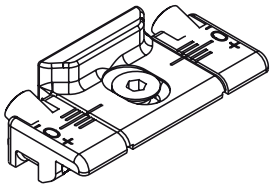
ADDITIONAL FASTENING MECHANISMS



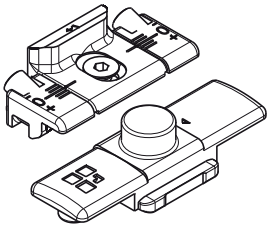
Functions
On the basis of the dimensions of the casement, the additional fastening mechanisms are to be used in conjunction with the Security Sash or Futura HP Bottom-Hung Windows mechanisms.



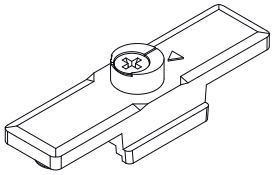
Closing striker 01347K



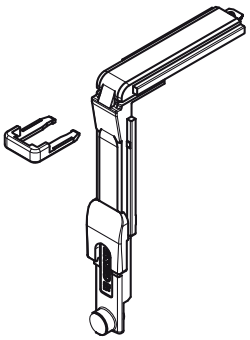
Additional fastening mechanism 04777K



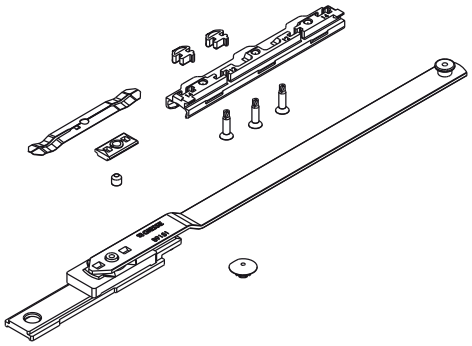
Fixed connection joint MX-MX 04048



Corner drive 04019K



Additional arm 04301K



Item code	Description	PROFILE CROSS - SECTION	L (mm)	H (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01347K	CLOSING STRIKER	C001-C002-C003-C004-C005-C012	-	1201 ÷ 2500	X				200
04019K	CORNER DRIVE FOR 01174K	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	1001 ÷ 1500	-	X				10
04048	FIXED CONNECTION JOINT MX-MX	C007	-	1201 ÷ 2500	X				100
04301K	ADDITIONAL ARM FOR 01174K	C001-C002-C003-C004-C005-C012	-	1201 ÷ 2500	X				5
04777K	HORIZONTAL ADDITIONAL FASTENING MECHANISM FOR 01175K	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	751 ÷ 1500	-	X				50

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CONFIGURATION EXAMPLES



Horizontal Security Sash Configuration

Sash width [mm]	452 ÷ 1500
Sash height [mm]	510 ÷ 2500
Horizontal security sash	01175K
PRIMA KEY CAPTURE Cremone	01192 - 01193



Horizontal Security Sash Configuration with microventilation

Sash width [mm]	452 ÷ 1500
Sash height [mm]	565 ÷ 2500
Horizontal security sash	01175K
PRIMA KEY CAPTURE MICRO Cremone	01194 - 01195
Micro-ventilation	02358

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OS OPERATOR



Functions

Complete system of opening, closing and multilocking, for top hung and side hung outward opening casement windows.

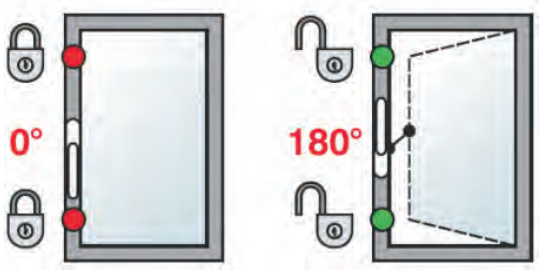
Technical Features

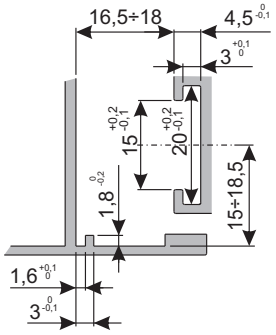
The OS Operator system to be applied requires a specific profile cross-section.
OS Operator has a push/pull force of 50 Nm.
The OS Operator System performs a dual function:
1. The sash is moved from the closed position to the open position, limited in safety.
2. The locking points engage and disengage.
Making the OS Operator casement always requires:
• Unica Cremone for OS Operator (1 pc)
• OS Operator fastening mechanism (1 pc)
• Arm for OS Operator (1 pc)

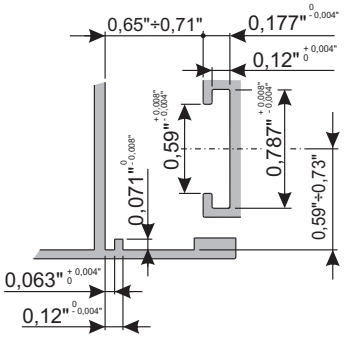
Possible dimensions

They are determined by the overall dimensions of the mechanism (standard and reduced)

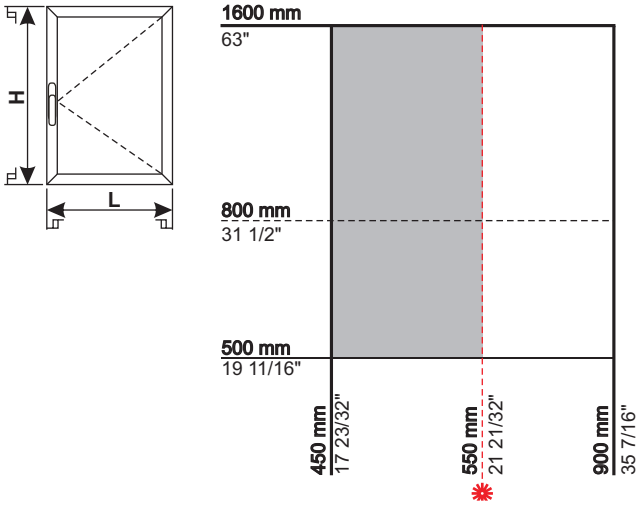
OS OPERATOR type profile cross-sections



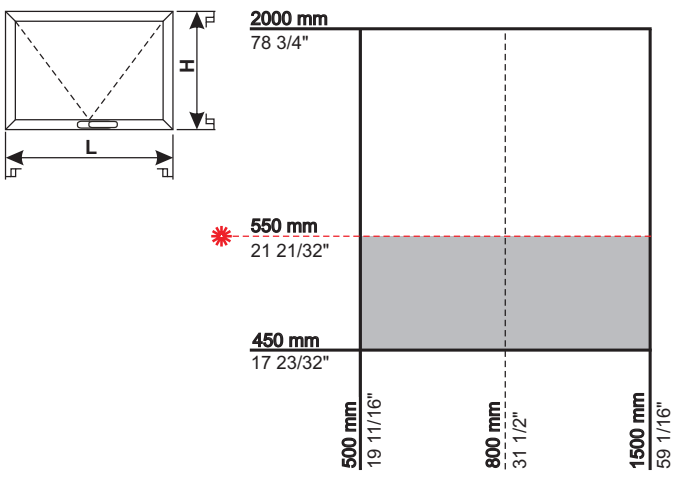




* If this dimension is <= 550 mm, use Loose Rivet swing-out arms for supporting the sash



* If this dimension is <= 550 mm, use Loose Rivet swing-out arms for supporting the sash



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UNICA OS OPERATOR CREMONE

Functions

Unica line Cremone, dedicated to the OS OPERATOR mechanism.

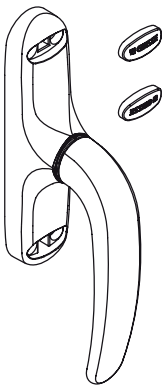
Technical Features

Compared to the standard cremones, these rotate with positioning notches at 0° and 180°.
Turning the pull handle of the cremone to 180° first unlocks the locking points (approximately 60°) and then takes the sash into the position of maximum opening (trip to 180° of the cremone).
The high stresses to which the casement is subjected when opening and closing has meant that for OS Operator there is a complete range of specific cremones. In addition to the Unica standard cremone, Key, Away and long handle versions are available. In particular, the one with the long handle reduces the effort when opening the casement and makes operation smoother.
The rotor and slider of all OS operator cremones are made of stainless steel to ensure maximum mechanical strength.
It is recommended to use the special gasket, made of black closed-cell foam adhesive on one side, which enables reducing the flow of air and water through the milling on the profile and the cremone case.

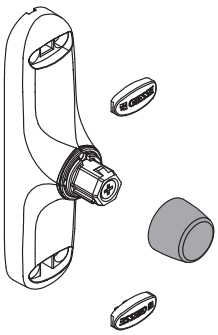
Materials

Handle in die-cast aluminium
Die-cast zamak cremone case
Internal rotor and slider in 304 grade stainless steel
Spring in harmonic steel
Black polyamide plate
Trip disc 0° - 180° in black polyamide

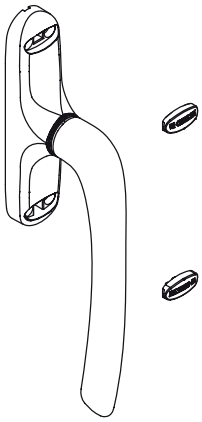
Unica OS Operator Cremone



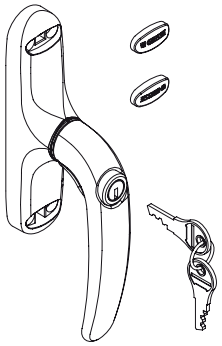
Unica Away OS Operator Cremone



Long pull handle Unica OS Operator Cremone



Unica Key OS Operator Cremone



Item code	Description	Version	Pull handle length	Handle match	Pull handle 0°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01127	CREM. UNICA OS OPERATOR - AWAY	Away		01129	Closed	Open			X		10
01128	CREM. UNICA OS OPER. LONG HANDLE	Standard	172 mm		Closed	Open			X		10
01129	PULL HANDLE FOR UNICA AWAY	Away	172 mm	01127	Closed	Open			X		10
01171	UNICA OS OPERATOR CREMONE	Standard	121 mm		Closed	Open			X		10
01172	UNICA KEY OS OPERATOR CREMONE	Key	121 mm		Closed	Open			X		10
06951	UNICA CREM. GASKET						X				100

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OS OPERATOR MECHANISMS

Functions

Two-handed mechanism that moves the sash of a Top or Side Hung aluminium casement, creating 2 locking points on the casement.

Technical Features

The mechanism is available in two versions:
• standard (overall size of mechanism 725 mm)
• reduced for small doors (overall size of mechanism 466.5 mm) available both left and right.
For particularly high side hung windows or very wide top hung windows it is possible to connect the extension to both sides of the mechanism.

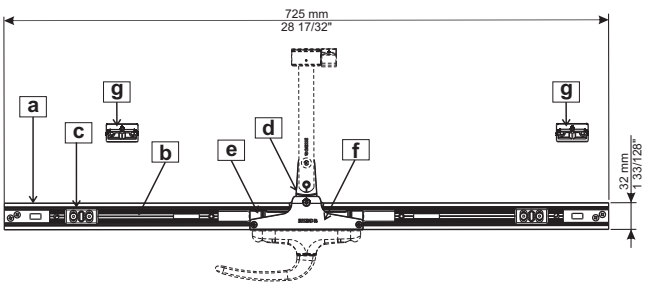
Locking point adjustment

You can adjust the 2 locking points both in compression (± 3.2 mm) and side (± 3 mm).

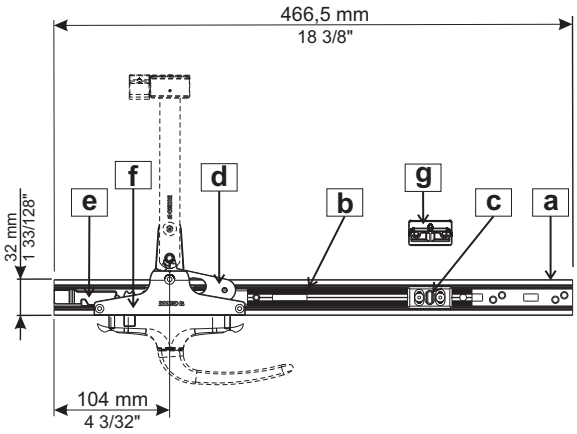
Materials

a) Main body (guide), in extruded aluminium, silver anodized
b) Internal rod, in extruded aluminium, silver anodized
c) Adjustable pawl, in zamak, Giesse Silver Plus
d) Pinion, in 304 grade stainless steel
e) Rack drive rod, in 304 stainless steel
f) Casing, in Giesse Silver Plus zamak
c) Frame striker, in zamak, Giesse Silver Plus
Fixing screws in 304 grade stainless steel

Standard mechanism

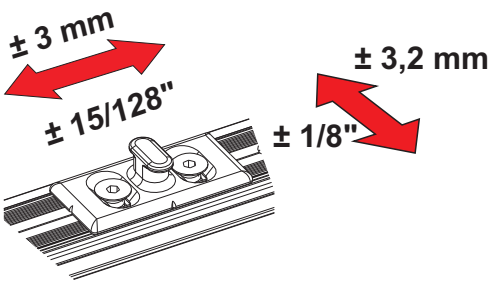


Reduced mechanism

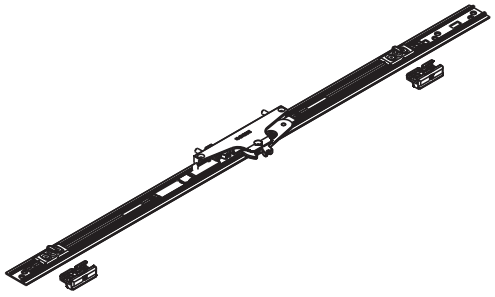


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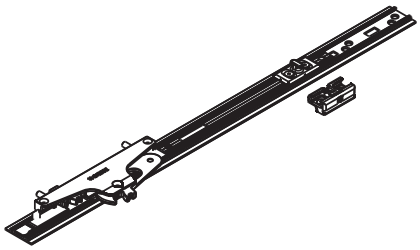
Locking point adjustment



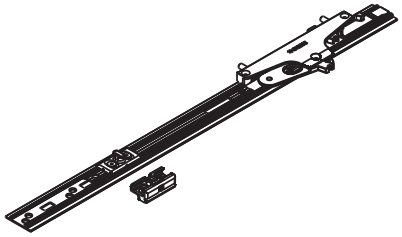
Standard mechanism



Right-hand reduced mechanism



Left-hand reduced mechanism



Item code	Description	Version	Hand	Length	Symmetric	Locking points	Extension	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02000	OS OPERATOR MECHANISM	Standard	RH - LH	725 mm	Yes	2	Above/below max 3 pieces (2+1)	X				10
020021	OS OPERATOR MECHANISM	Reduced	RX	466.5 mm	No	1	Only above max 2 pieces	X				10
020022	OS OPERATOR MECHANISM	Reduced	LX	466.5 mm	No	1	Only above max 2 pieces	X				10

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EXTENSIONS

Functions

350 mm (13 25/32") extension for use with an OS Operator mechanism to create a supplementary locking point.

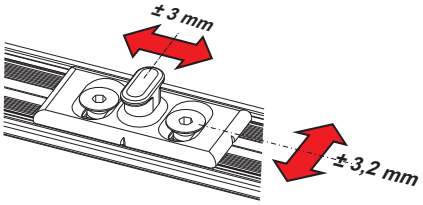
Technical Features

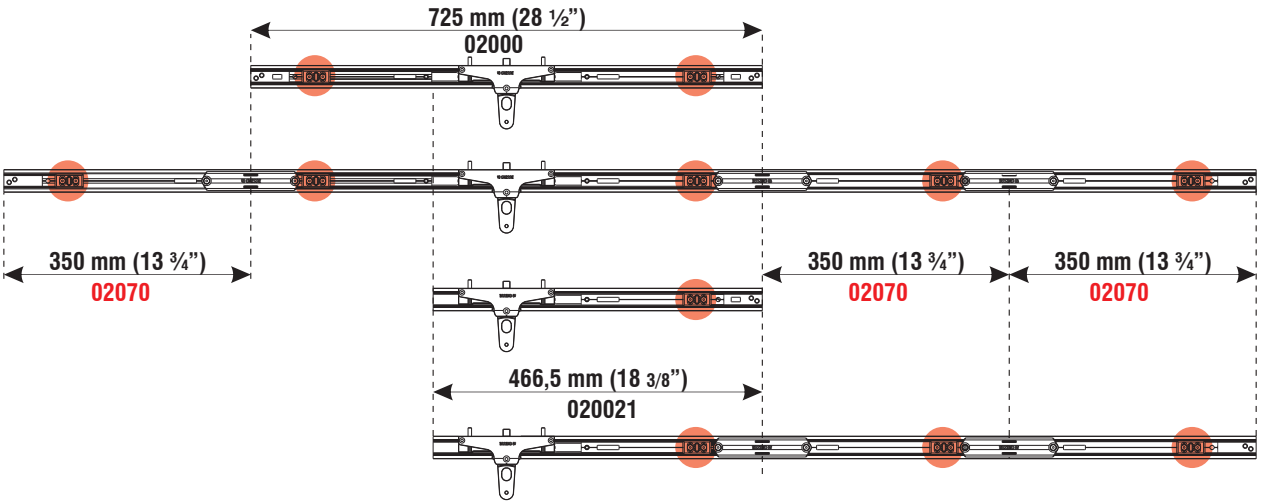
Fixing to the frame profile is done with the self-tapping screws supplied and connecting to the mechanism is done with a connection element.
The pawl on the extension can be adjusted.

Materials

Polyamide joint
Extension in extruded aluminium
Adjustable pawl and striker in zamak
Stainless steel screws, grub screws and fixing plates

Locking point adjustment





Item code	Description	Length	Can be combined with	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02070	OS OPERATOR EXTENSION	350 mm	02000 02002 1 02002 2	X				10

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OS OPERATOR ARMS

Functions

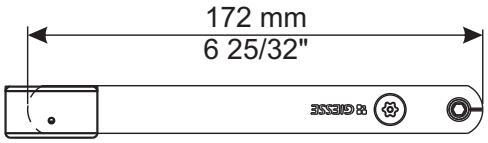
The arm for OS Operator performs the function of pushing the sash from the "sash closed" position to the "fully open" position and vice versa.

Technical Features

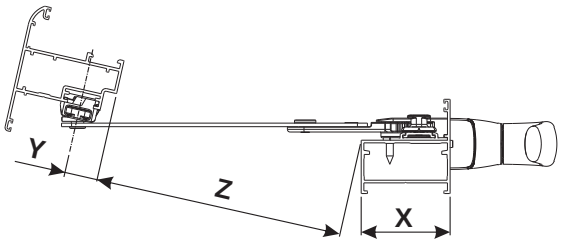
Available in two lengths (172 mm and 152 mm), The arm is attached to an OS Operator mechanism using the screw with security head Torx T30 (A).
The slider, available in both polyamide and aluminium, runs in the 15/20 mm channel on the mobile sash. A polyamide stop component provides the limit stop position.
You can, with the aid of the eccentric pin (B), using a T30 torx wrench, adjust the position of the slider and then obtain the optimal position for the sash during the phase of activating the locking points.

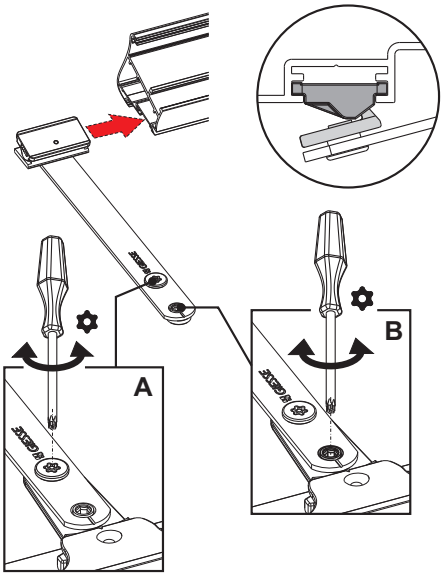
Materials

Arm in stainless steel 304
Slider in extruded aluminium or grey polyamide
Grey polyamide stop



Z = Distance between the profiles (see table)





Item code	Description	Length	Slider material	Stack between profiles Z	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02064	ALUMINIUM OS OPERATOR ARM	172 mm	Aluminium	210 mm - X - Y	X				10
02065	ALUMINIUM OS OPERATOR ARM	152 mm	Aluminium	190 mm - X - Y	X				10

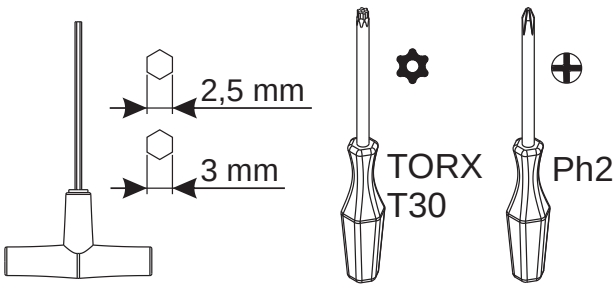
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OS OPERATOR TOOLS

Functions
Tool kit for correctly assembling the Os Operator

Technical Features
The kit includes all the necessary tools, especially the Torx T30 security wrench.
The kit consists of:
- Allen wrench 2.5 mm and 3 mm
- Torx T30 security insert
- ph 2 insert



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02003	TOOL KIT FOR OS OPERATOR		X				20

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CONFIGURATION EXAMPLES

OS Operator Top-Hung Configuration

Sash height [mm]	450 ÷ 2000	450 ÷ 2000
Sash width [mm]	500 ÷ 800	801 ÷ 1500
Cremone	01128 - 01171	01128 - 01171
Mechanism	020021 - 020021	02000
Arms	02054 - 02055 - 02064 - 02065	02054 - 02055 - 02064 - 02065

OS Operator Side-Hung Configuration

Sash height [mm]	450 ÷ 900	450 ÷ 900
Sash width [mm]	500 ÷ 800	801 ÷ 2500
Cremone	01128 - 01171	01128 - 01171
Mechanism	020021 - 020021	02000
Arms	02054 - 02055 - 02064 - 02065	02054 - 02055 - 02064 - 02065

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OS OPERATOR 2.0



Functions

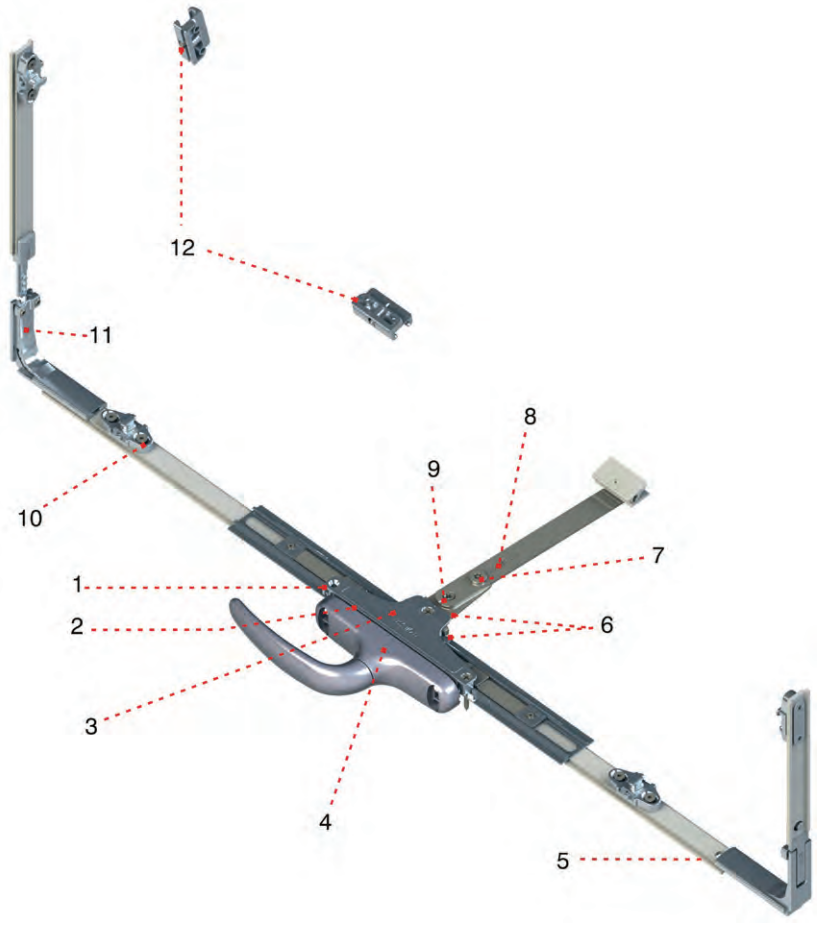
Complete system of opening, closing and multilocking, for top hung and side hung outward opening casement windows.

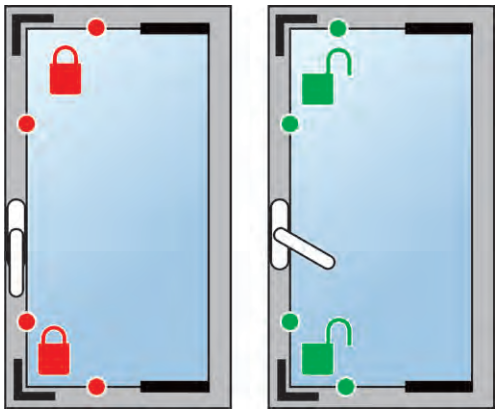
Technical Features

The OS Operator 2.0 system to be applied requires a specific profile cross-section.
The front force for opening the sash must be < 50 N.For forces > 35 N it is mandatory to use "loose rivet" arms.
The OS Operator System performs a dual function:
1. The sash is moved from the closed position to the open position, limited in safety.
2. The locking points engage and disengage.
With OS Operator 2.0 you can apply locking points connected by a rod made of polyamide, on 3 sides of the casement (mechanism side and arms side).
Making the OS Operator casement always requires:
• Cremone (1 pc)
• Mechanism (1 pc)
• Arm (1 pc)
• Locking points (their number varies depending on the size of the casement)
• Corner drive (2 pcs) if perimetral closing is necessary

Possible dimensions

In particular, the minimum size will vary depending on the locking points used (see examples)

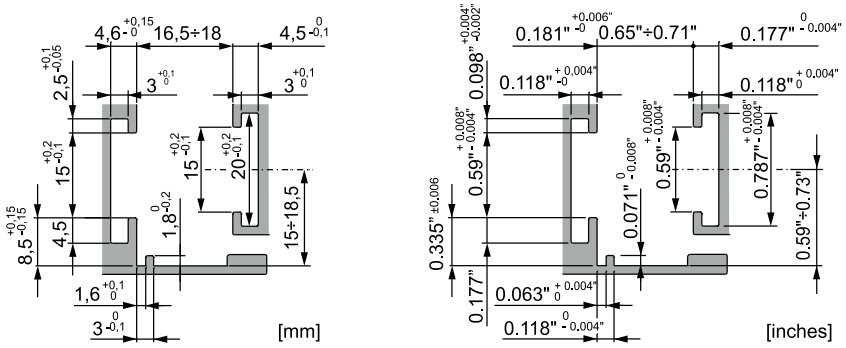




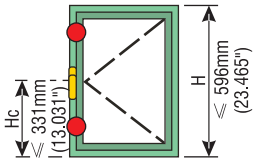
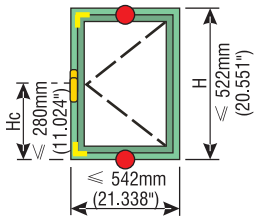
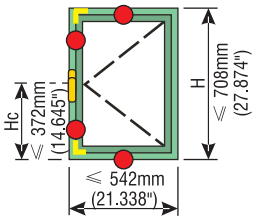
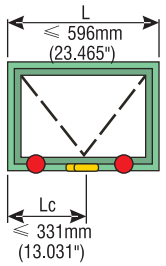
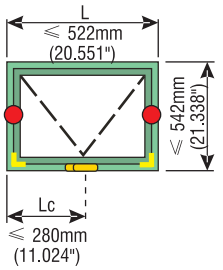
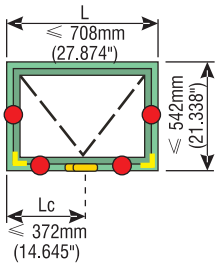
LEGEND
1 Basic mechanism
2 Unica cremone seal
3 Protective cover
4 Unica cremone
5 Polyamide rod
6 Mechanism gears
7 Arm release screw
8 Arm
9 Adjustment screws
10 Adjustable pawl (sash)
11 Corner drive
12 Fixed striker (frame)

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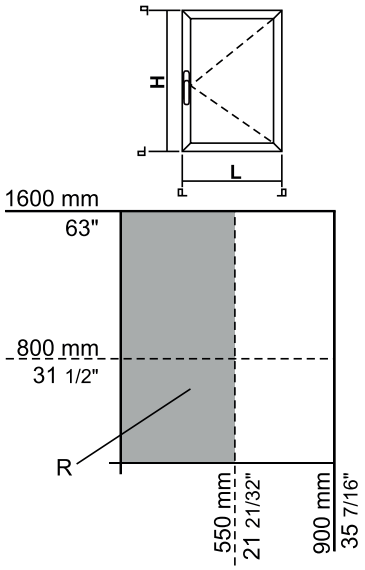
OS OPERATOR 2 type profile cross-sections



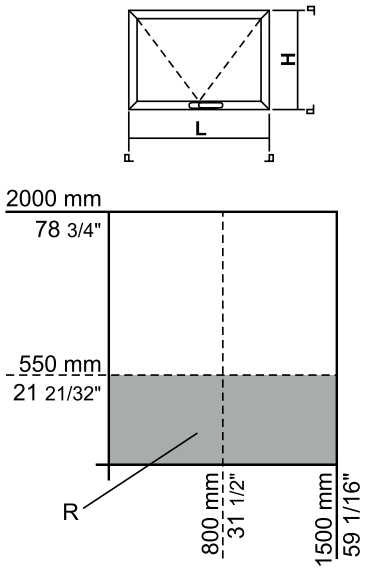
Minimum possible dimensions

Two locking points	Two locking points with corner drive	Four locking points with corner drive
		
		

R = use Loose Rivet swing-out arms for supporting the sash



R = use Loose Rivet swing-out arms for supporting the sash



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UNICA OS OPERATOR CREMONE

Functions

Unica line cremone, dedicated to the OS OPERATOR mechanism.

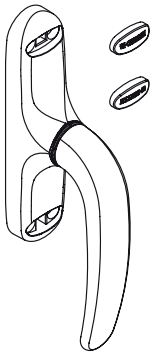
Technical Features

Compared to the standard cremones, these rotate with positioning notches at 0° and 180°.
Turning the pull handle of the cremone to 180° first unlocks the locking points (approximately 60°) and then takes the sash into the position of maximum opening (trip to 180° of the cremone).
The high stresses to which the casement is subjected when opening and closing has meant that for OS Operator there is a complete range of specific cremones. In addition to the Unica standard cremone, Key, Away and long handle versions are available. In particular, the one with the long handle reduces the effort when opening the casement and makes operation smoother.
The rotor and slider of all OS operator cremones are made of stainless steel to ensure maximum mechanical strength.
It is recommended to use the special gasket, made of black closed-cell foam adhesive on one side, which enables reducing the flow of air and water through the milling on the profile and the cremone case.

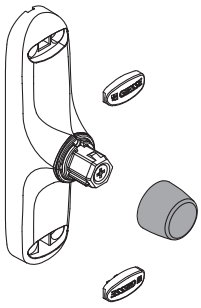
Materials

Handle in die-cast aluminium
Die-cast zamak cremone case
Internal rotor and slider in 304 grade stainless steel
Spring in harmonic steel
Black polyamide plate
Trip disc 0° - 180° in black polyamide

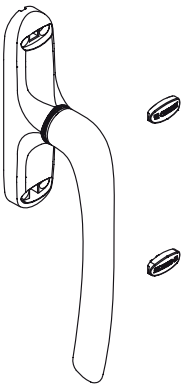
Unica OS Operator Cremone



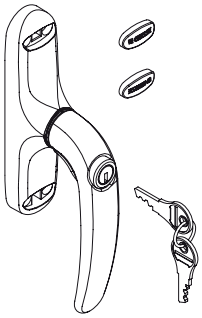
Unica Away OS Operator Cremone



Long pull handle Unica OS Operator Cremone



Unica Key OS Operator Cremone



Item code	Description	Version	Pull handle length	Handle match	Pull handle 0°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01127	CREM. UNICA OS OPERATOR - AWAY	Away		01129	Closed	Open			X		10
01128	CREM. UNICA OS OPER. LONG HANDLE	Standard	172 mm		Closed	Open			X		10
01129	PULL HANDLE FOR UNICA AWAY	Away	172 mm	01127	Closed	Open			X		10
01171	UNICA OS OPERATOR CREMONE	Standard	121 mm		Closed	Open			X		10
01172	UNICA KEY OS OPERATOR CREMONE	Key	121 mm		Closed	Open			X		10
06951	UNICA CREM. GASKET						X				100

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OS OPERATOR 2.0 MECHANISM

Functions

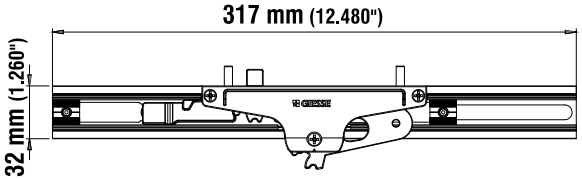
Reversible mechanism that moves the sash of a Top or Side Hung aluminium casement.

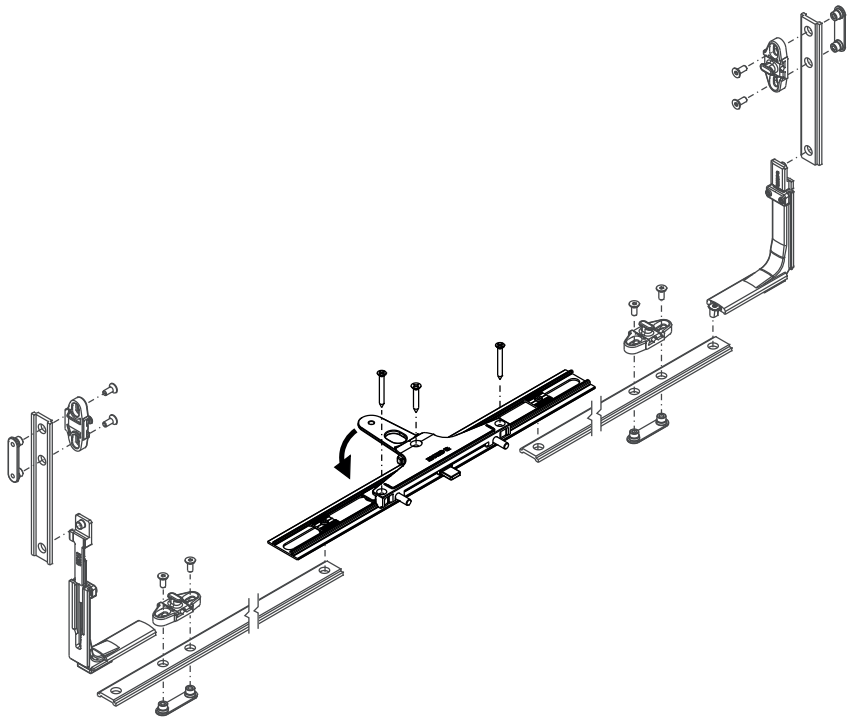
Technical Features

The mechanism is 317 mm long.
Acts as a link between the cremone and the opening arms.
Connected to the Giesse polyamide rod, it is used to move the locking points (applied on the rod) and/or corner drives in the case of perimetral closing mechanisms.

Materials

Main body (guide), made of extruded aluminium, silver anodised
Internal rod, in extruded aluminium, silver anodised
Pinion, in 304 grade stainless steel
Rack drive rod, in 304 grade stainless steel
Casing, in Giesse Silver Plus zamak
Fixing screws in 304 grade stainless steel





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02009	OS OPERATOR MECHANISM		X				10

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OS OPERATOR 2 ARMS

Functions

The arm for OS Operator performs the function of pushing the sash from the "sash closed" position to the "fully open" position and vice versa.

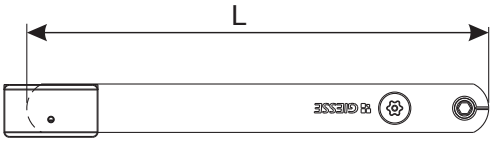
Technical Features

Available in various lengths), the arm is attached to an OS Operator mechanism using the screw with security head Torx T30 (A). The slider, available in both polyamide and aluminium, runs in the 15/20 mm channel on the mobile sash. A polyamide stop component provides the limit stop position.
You can, with the aid of the eccentric pin (B), using a T30 torx wrench, adjust the position of the slider and then obtain the optimal position for the sash during the phase of activating the locking points.

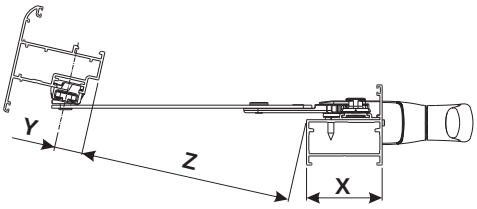
Materials

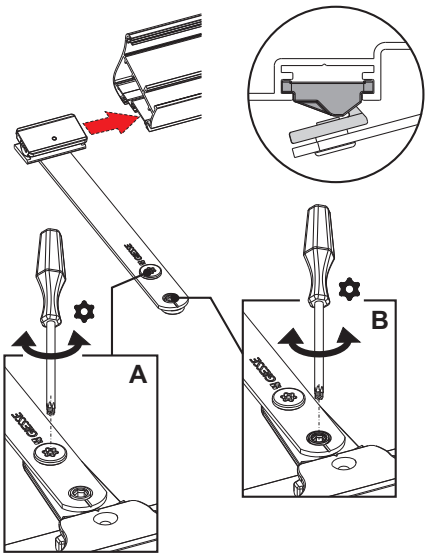
Arm in stainless steel 304
Slider in extruded aluminium or grey polyamide
Grey polyamide stop

L = Length (see table)



Z = Distance between the profiles (see table)





Item code	Description	Length	Slider material	Stack between profiles Z	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02056	OS OPERATOR HP ARM	172 mm	Aluminium	210 mm - X - Y	X				10
02057	OS OPERATOR HP ARM	152 mm	Aluminium	190 mm - X - Y	X				10
02058	OS OPERATOR HP ARM	146 mm	Aluminium	184 mm - X - Y	X				10
02059	OS OPERATOR HP ARM	127 mm	Aluminium	165 mm - X - Y	X				10
02061	OS OPERATOR HP ARM	140 mm	Aluminium	178 mm - X - Y	X				10
02064	ALUMINIUM OS OPERATOR ARM	172 mm	Aluminium	210 mm - X - Y	X				10
02065	ALUMINIUM OS OPERATOR ARM	152 mm	Aluminium	190 mm - X - Y	X				10

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OS OPERATOR CORNER DRIVE

Component allowing the mechanism to move from the cross-beam to the upright of the casement and vice versa.

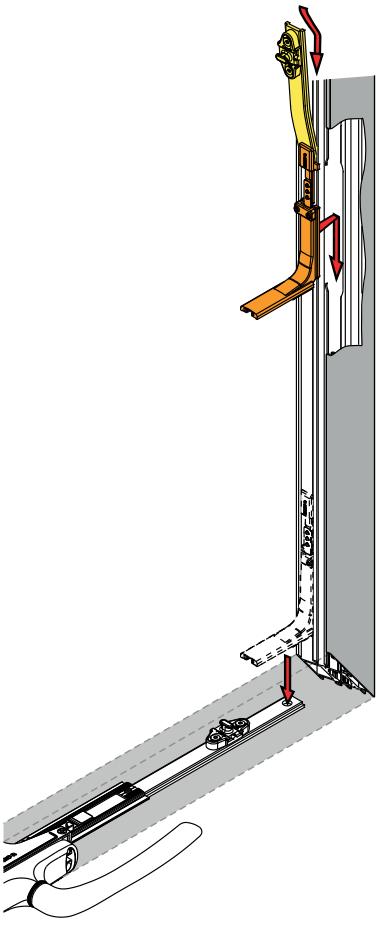
Technical features

Specific for fitting on the frame.
Fits on 15/20 channel.
It is installed after machining the frame or before the frame is assembled.
It is fixed with 2 contrast grubscrews and is joined to the other components with a polyamide rod.

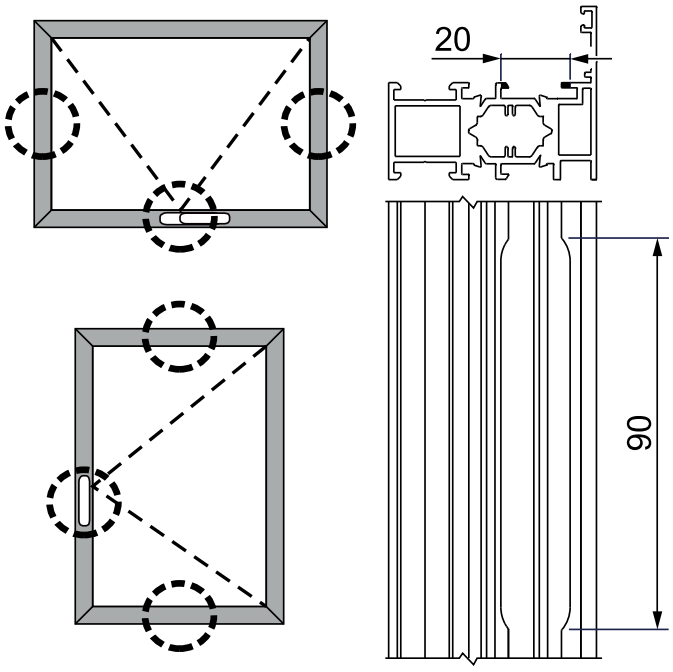
Materials

Drive body and connection device made of Giesse Silver Plus
Plates and grub screws in stainless steel

Inserting in channel



Machining



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02066	CORNER DRIVE		X				10

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OS OPERATOR FASTENING MECHANISM KIT

Fastening mechanism kit composed of a striker and an adjustable pawl.

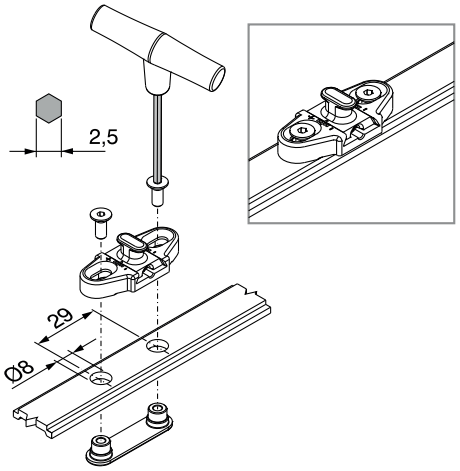
Technical features

The OS Operator 2.0 closing kit is composed of 2 components:
• Striker to be applied on the sash
• Adjustable pawl to apply on the polyamide rod
The system provides for an adjustment of +/-3.2 mm and laterally +/-3.0 mm with the aid of the pawl.
The system is designed for at most 6 locking points.

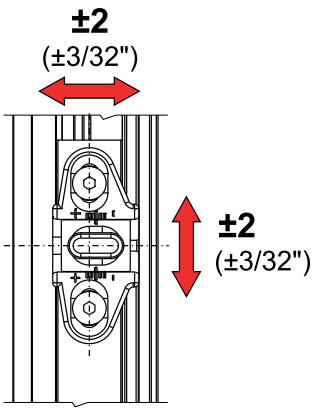
Materials

Striker body, pawl body, plate and adjustable element made of Giesse Silver Plus zamak
Screws and grub screws in stainless steel

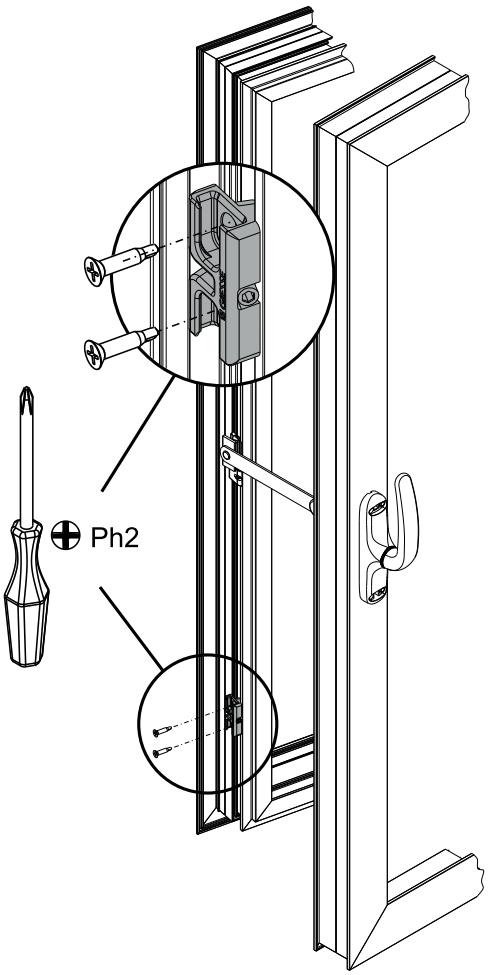
Pawl assembly



Adjustment



Striker assembly



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02067	LOCKING POINT		X				10

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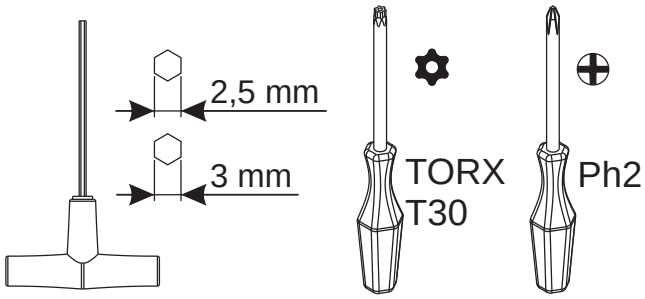
OS OPERATOR 2.0 TOOLS

Functions

Tool kit for correctly assembling the Os Operator

Technical Features

The kit includes all the necessary tools, especially the Torx T30 security wrench.
The kit consists of:
- Allen wrench 2.5 mm and 3 mm
- Torx T30 security insert
- ph 2 insert



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02003	TOOL KIT FOR OS OPERATOR		X				20

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CONFIGURATION EXAMPLES

Configuration of OS Operator 2.0 Top-Hung 2 locking points

Sash height [mm]	450 ÷ 2000
Sash width [mm]	596 ÷ 1500
Cremone	01128 - 01171
Mechanism	02009
Fastening mechanisms	02067 (2 pcs)
Arms	02054 - 02055 - 02064 - 02065

Configuration of OS Operator 2.0 Top-Hung 4 locking points

Sash height [mm]	542 ÷ 2000
Sash width [mm]	708 ÷ 1500
Cremone	01128 - 01171
Mechanism	02009
Drive	02066 (2 pcs)
Fastening mechanisms	02067 (4 pcs)
Arms	02054 - 02055 - 02064 - 02065

Configuration of OS Operator 2.0 Side-Hung 2 locking points

Sash height [mm]	596 ÷ 1600
Sash width [mm]	450 ÷ 900
Cremone	01128 - 01171
Mechanism	02009
Fastening mechanisms	02067 (2 pcs)
Arms	02054 - 02055 - 02064 - 02065

Configuration of OS Operator 2.0 Side-Hung 4 locking points

Sash height [mm]	704 ÷ 1600
Sash width [mm]	450 ÷ 900
Cremone	01128 - 01171
Mechanism	02009
Drive	02066 (2 pcs)
Fastening mechanisms	02067 (4 pcs)
Arms	02054 - 02055 - 02064 - 02065

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CW BAR OPERATING SYSTEM



Functions

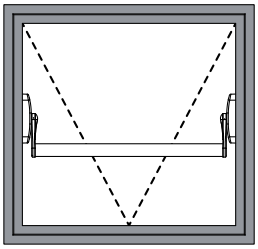
Complete opening and closing system for Parallel and Top Hung outward opening Curtain Wall windows.

Technical Features

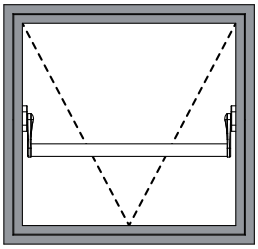
The CW BAR operating system permits simultaneously operating the cremones and window handles on the sash uprights.
This hardware is connected via a bar supplied in different lengths and cut to size.
The CW BAR Operating System performs a dual function:
1. The mechanisms (cremones or window handles) are operated simultaneously, for locking/unlocking the locking points.
2. The sash is opened and closed by pushing or pulling the bar.

Making a CW BAR closing system always requires:
- COVER window handle or cremone (mechanism + cover) – 2 pcs
- CW BAR handles (pair) – 1 pc
- Connection bar – 1 pc
- Connection components (block or mechanism) – 2 pcs
- Fastening components to choose from those applicable to the profile used

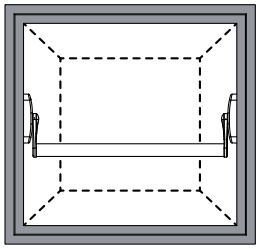
Top-Hung with CW BAR cremone



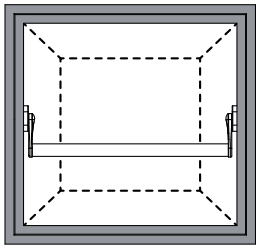
Top-Hung with CW BAR window handle



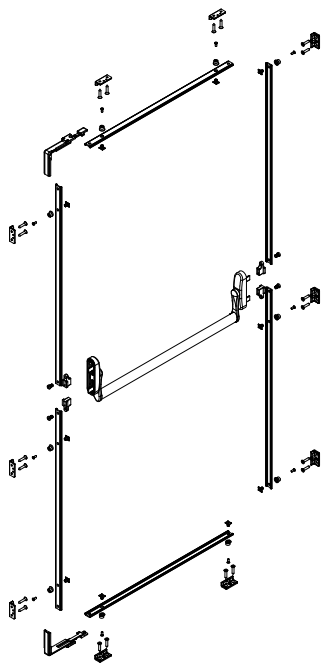
Parallel window with CW BAR cremone



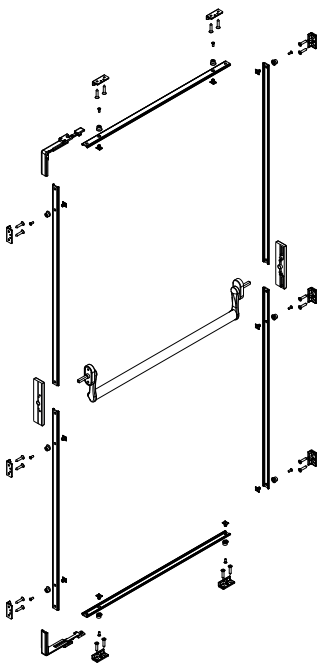
Parallel window with CW BAR window handle



Example of parallel opening with Cremone



Example of parallel opening with Window Handle



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CREMONE MECHANISM

Functions

Internal reversible (left/right) devices for Cremone of sash, tilt-and-turn window and outward opening casement.
This is completed with the appropriate stylish cover.

Materials

Die-cast zamak case, rotor, racks and sliders
POM bull ring and stoppers
Polyamide plate
Positioning springs in nickel-plated steel
Plate and screws in stainless steel
Cover made of brass, aluminium or stainless steel

Item code	Description	Type	Operation	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04135	CREMONE COVER	Cover		X				20

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WINDOW HANDLE MECHANISM

Functions

Internal device for window handle with positioning notch at 90° and 180° suitable for operating one-way mechanisms.
This is completed with the appropriate stylish cover.

Materials

Pre-assembled zinc plated steel body and square pin (supplied as a single component)
Brass rotor body (inserted in the window handle component)
Notch positioning device in spring steel
Zinc plated steel screws
Cover made of brass, aluminium or stainless steel

Item code	Description	Type	Operation	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04142	WINDOW HANDLE COVER	Cover		X		X	X	20

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CW HANDLES

Functions

The CW handle can be fitted on either a Cremone or a window handle.
Supplied as a pair (right and left), via the bar it enables joining the cremones or window handles on the casement uprights, simultaneously operating the hardware and closing/opening the sash.

Materials

Body in die-cast aluminium
Stainless steel locking grub screws

Item code	Description	Window handle	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0415901	CW HANDLE	Cremone and window handle			X		5

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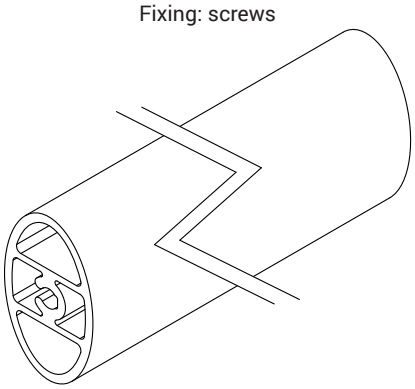


PUSH-BARS

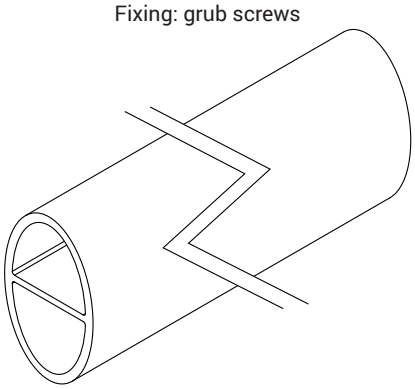
Functions
Push-bar (the same one used for panic exit devices).
It connects the CW handles.
Available in various lengths.

Materials
Painted extruded aluminium bar

Fixing: screws



Fixing: grub screws



Item code	Description	Type of Fixing	Length	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04157	BAR	Screws	1200 mm			X		1
04158	BAR	Screws	1800 mm			X		1
07843	BAR	Grub screws	950 mm			X		1
07844	BAR	Grub screws	1150 mm			X		1
07845	BAR	Grub screws	1450 mm			X		1

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CONNECTION COMPONENTS

Functions

Connection components between mechanisms (cremone or window handle) and connection rods.

Item code	Description	Window handle	Operation	H	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02236	CONNECTING BLOCKS	Cremone	Two-way	18 mm	X				50
02262	CONNECTING BLOCKS	Cremone	Two-way	15 mm	X				50
02194	CONNECTING BLOCKS	Cremone	Two-way	12 mm	X				50
02013	GHIBO CW1 ONE-WAY MECHANISM	Window handle	One-way		X				5

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CONFIGURATION EXAMPLES

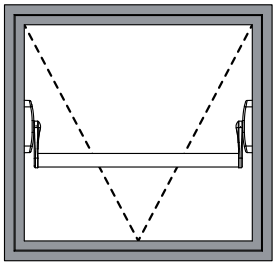
Configuration with Cremone

Description	Item code	Qty
CREMONE MECHANISM	04100V	2 (pcs)
CREMONE COVER	04135	2 (pcs)
CW HANDLE	04159	1 (pr)
CONNECTING BLOCKS	02236, 02262, 02194	2 (prs)
BAR	07843, 07844, 07845	1 (pc)

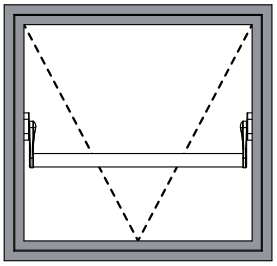
Configuration with Window Handle

Description	Item code	Qty
WINDOW HANDLE MECHANISM	04126	2 (pcs)
WINDOW HANDLE COVER	04142	2 (pcs)
CW HANDLE	04159	1 (pr)
GHIBO CW1 MECHANISM	02013	2 (pcs)
BAR	07843, 07844, 07845	1 (pc)

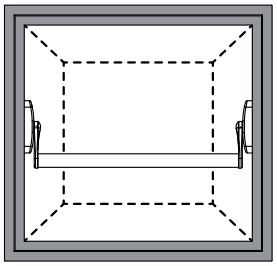
Top-Hung with CW BAR cremone



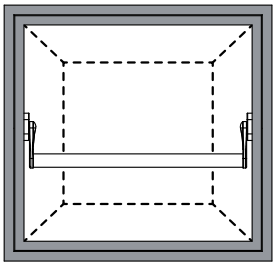
Top-Hung with CW BAR window handle



Parallel window with CW BAR cremone



Parallel window with CW BAR window handle



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JALOUSIE

Functions

Opening system for Jalousie casements featuring a fixed frame on which are mounted cremone adjustable slats.
Jalousie windows are ideal for verandas, terraces and other places where the user wishes to be able to ventilate the interior without opening the window.

Technical Features

The system consists of a set of accessories that combined together enable operating the adjustable slats.
The window slats can be in aluminium or glass, depending on the application.
Up to 6 can be moved with the cremone. For casements with more than 6 slats you need to use 2 cremones.
Components of the system (in the case of 6 slats)

- UNICA Cremone (no. 1 pc)
- Cam (no. 12 pcs)
- Slat container (no. 6 pcs)
- Pack screw (no. 12 pcs)
- Transmission pin (no. 12 pcs)

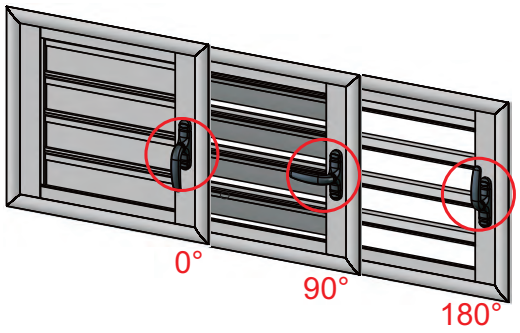
The cremone handle can be set to adjust the slats to fully closed, ventilation, or fully open.

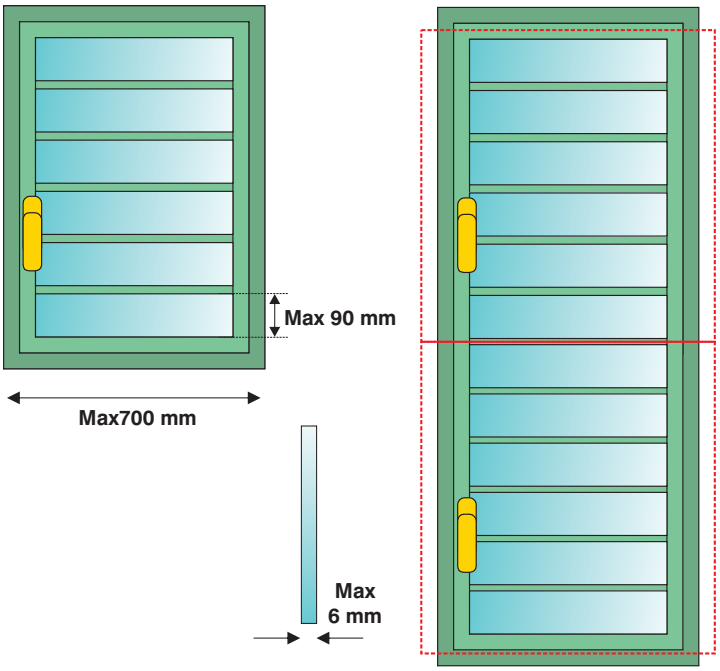
- Cremone 0° - Slats closed
- Cremone 90° - Slats open in ventilation position
- Cremone 180° - Slats fully open

Possible dimensions

- Maximum glass thickness 6 mm
- Maximum distance between slats 90 mm
- Maximum sash width 700 mm







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UNICA CREMONE FOR JALOUSIE

Functions

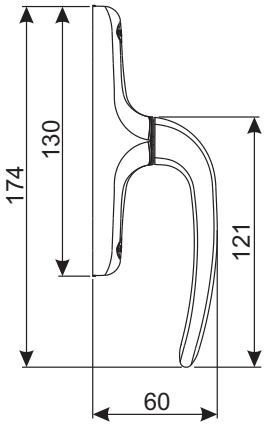
Specific Cremone for the Jalousie system.

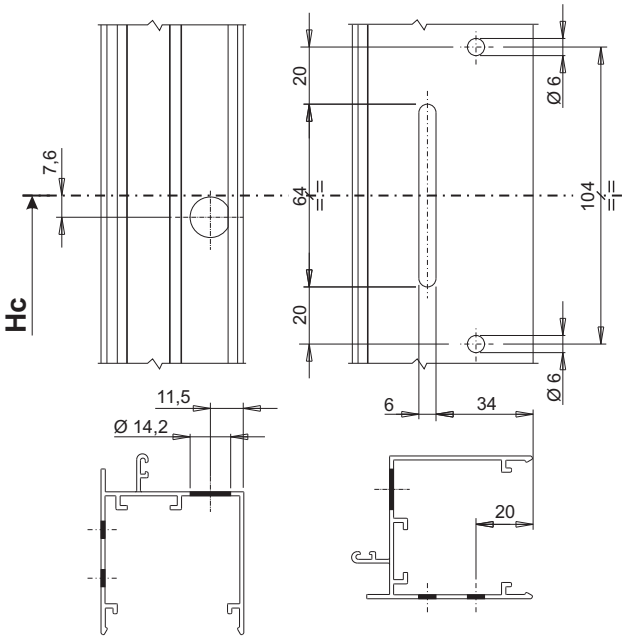
Technical Features

Controls opening the slats that depending on the position of the pull handle may be in the closed, ventilation or fully open position.

Materials

Handle in die-cast aluminium
Case, gear and sliding parts in zinc plated zamak
Polyamide plate
Stainless steel fixing screws





Item code	Description	Operation	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01987	UNICA CREMONE FOR JALOUSIE	one-way			X		10

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JALOUSIE COMPONENTS

Functions

Operated by the Unica Cremone, the Jalousie components enable operating the hardware and opening and closing the slats.

Technical Features

The system must be connected with an aluminium rod for the European groove and is composed of:

1 - Cam

Connected to the rod via the transmission pins it allows the slats to move. Made of punched aluminium.

2 - Slat container (pair)

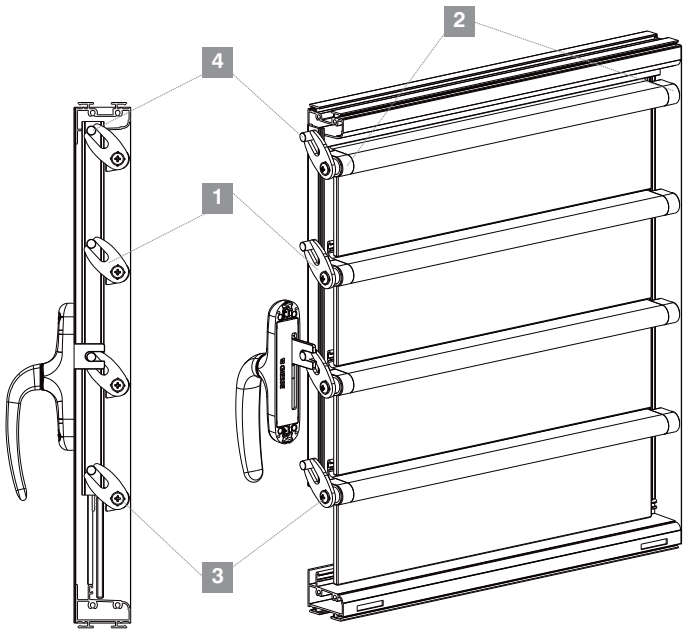
Sized to accommodate the swivel slat.
Blocks in black painted die-cast zamak and washers in black polyamide.

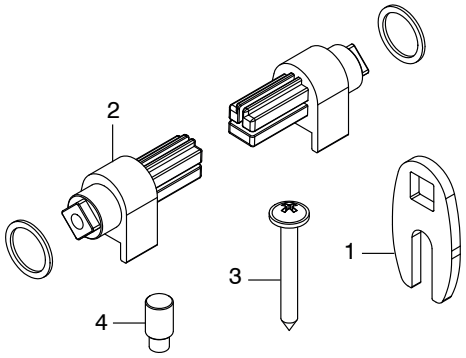
3 - Slat-cam packing screw

Enables fixing together the cam and the slat container. Made of stainless steel.

4 - Transmission pin

It transmits the movement from the cremone to the connection rod and to the cam.
Made of stainless steel.





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01984	CAM FOR JALOUSIE SYSTEM (1)		X				100
01985	SLAT CONTAINER (RIGHT AND LEFT) (2)	pair			X		100
01986	SLAT-CAM PACKING SCREW (3)		X				100
01988	DRIVE PIN (4)		X				100

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CONFIGURATION EXAMPLE

Jalousie Configuration (max. 6 slats)

Maximum sash width [mm]	700	-
Cremone	01987	N° 1
Cam	01984	N° 12
Slat container	01985	N° 6
Screw	01986	N° 12
Drive pin	01988	N° 12

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PROVENCE

Functions

Fastening system with cremone and rods with front fixing, designed for making fastening mechanisms for inward or outward opening casement windows, applicable on profiles of any material, aluminium, wood, PVC.

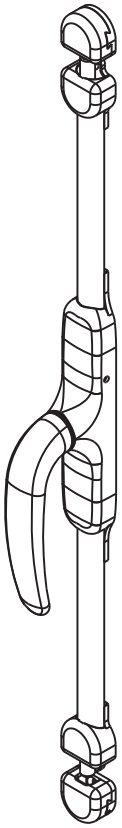
Technical Features

Provence is ideal for creating old-style windows, thanks to its careful design featuring rods in full view.
Applicable on both inward-opening and outward-opening casements:
• Inward opening casement: flush and overlap (7-10 mm)
• Outward opening casement: both with and without frame, flush inside and overlap (7-10 mm).

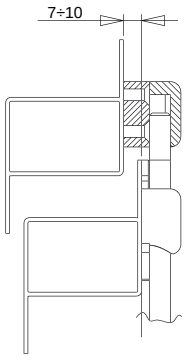
Making a casement with PROVENCE requires:

• Cremone (1 pc)
• Lock rod (2 pcs)
• Bolt tips (2 pcs)
• Strikers (2 pcs)

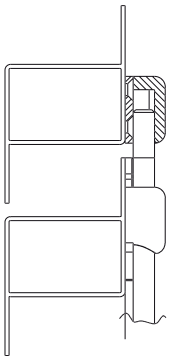
All the elements are revealed and specific to this system.



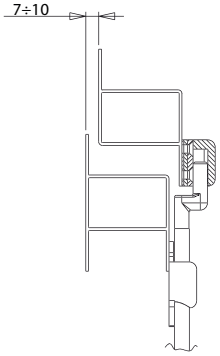
Inward opening with overlap



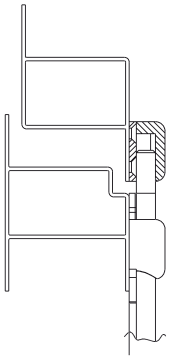
Flush inward opening

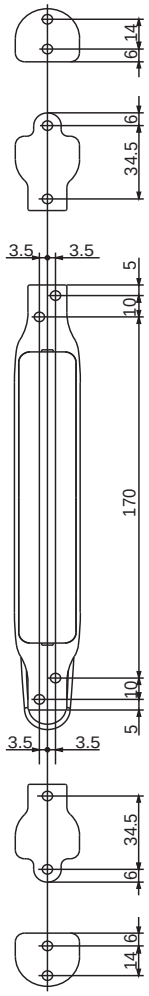


Outward opening casement with overlap

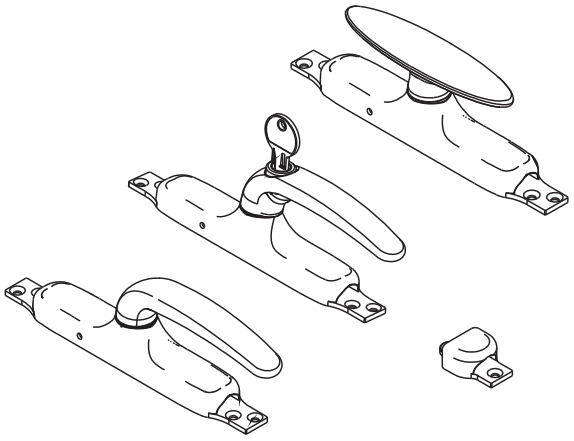


Flush outward opening casement





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PROVENCE CREMONE

Functions

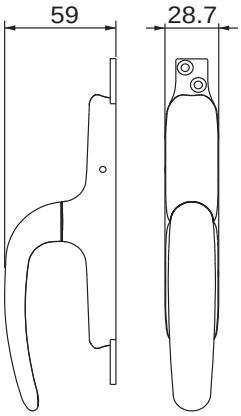
Lever Cremone, reversible, with closing rods in view, for front mounting for windows and shutters

Technical Features

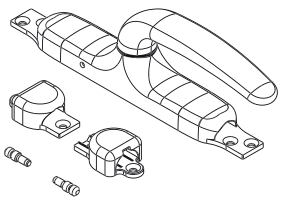
Front fixing with self-tapping screws.
All the fixing screws are concealed to enhance the design of the cremone and of the entire fastening mechanism.
The necessary machining consists of just holes with a single drill bit (Ø2.7mm in the case of aluminium). We recommend using the dedicated template.
Provence has a stroke of 18 mm, which allows an effective grip in the wall or in its strikers. The cremone package includes two rod guides and two pins for connection with the locking rods.

Materials

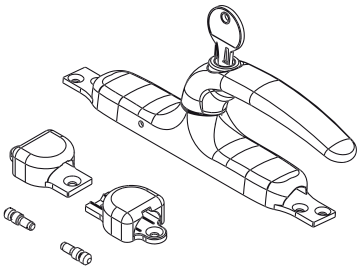
Handle in die-cast aluminium
Cremone case, gear, racks and rod guide in die-cast zamak
Trip spring, screws and grub screw, pre-assembled, in stainless steel
Liners in white polyamide
Extruded aluminium rod connecting blocks
Rod connection terminal and fixing screws in zinc plated steel



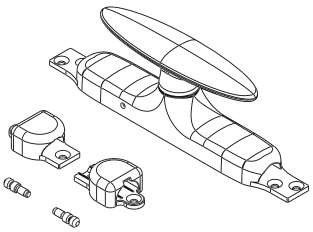
Lever pull handle Provence Cremone



Provence Cremone, lever pull handle with key

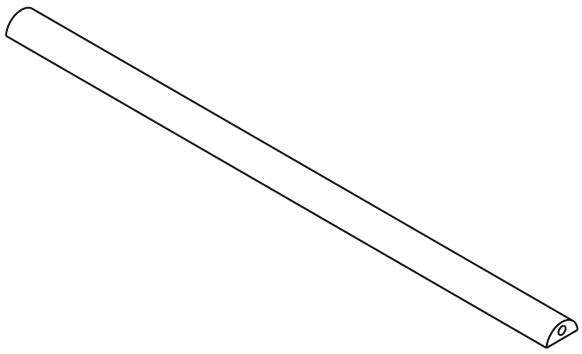


"T" pull handle Provence Cremone



Item code	Description	Version	Pull handle	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01160	LEVER PULL HANDLE PROVENCE CREMONE		Unica	X		X		10
01161	PROVENCE CREMONE, LEVER/KEY PULL HANDLE	Key	Unica	X		X		10
01162	T PULL HANDLE PROVENCE CREMONE		T	X		X		10

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RODS

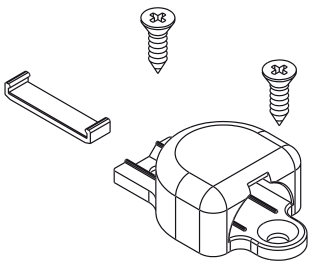
Functions
Connection rod in view for closing the Provence Cremone.

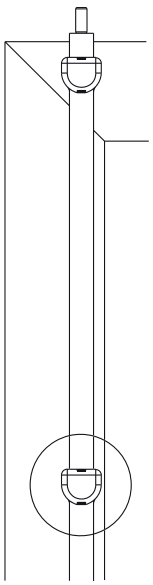
Technical Features
They are available in different lengths, to be cut to size on the basis of the position of the Cremone and the dimensions of the sash. At its ends you are to add the pin for connecting to the Cremone (included with the latter) and the fastening bolt tip, to be ordered separately.

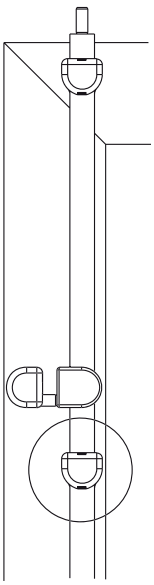
Materials
Extruded aluminium

Rod Guide
Additional element to be ordered separately if the casement is particularly large and you want to prevent the risk of the rod flexing. Recommended for use near the third fastener, if fitted, in order to strengthen it.
Rod guide in die-cast zamak.
Zinc plated steel screws.
Clearance reduction element made of polyamide.

Rod guide

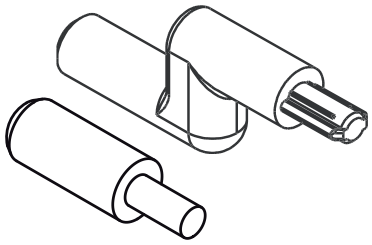






Item code	Description	Length	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01297	PROVENCE FASTENING MECHANISM ROD	1600 mm	X		X		10
01298	PROVENCE ROD GUIDE		X		X		10
01300	PROVENCE FASTENING MECHANISM ROD	1000 mm	X		X		10
01304	PROVENCE FASTENING MECHANISM ROD	1250 mm	X		X		10

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PROVENCE BOLT TIPS

Functions

Straight terminals for top and bottom closing of the Provence cremone

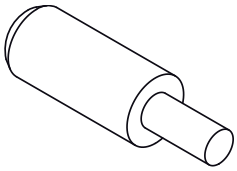
Technical Features

Available in two versions, straight and offset.
The straight terminal is used in all flush situations or when combined with strikers with a plate and their shims that always go into flush conditions.
The offset terminal is used when there is an overlap between the sash and frame.
They are engaged at the end of the rod, with a hammer, with the aid of the specific kit that has the purpose of preventing the hammer from accidentally chipping the surface finish of the rods or blocks of the third fastening mechanisms.

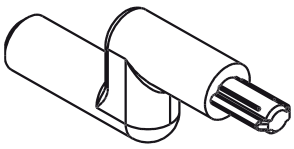
Materials

Stainless Steel

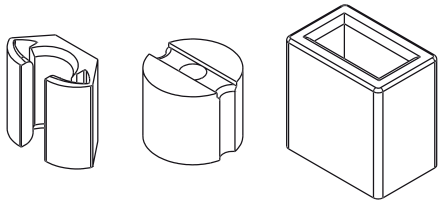
Straight terminal

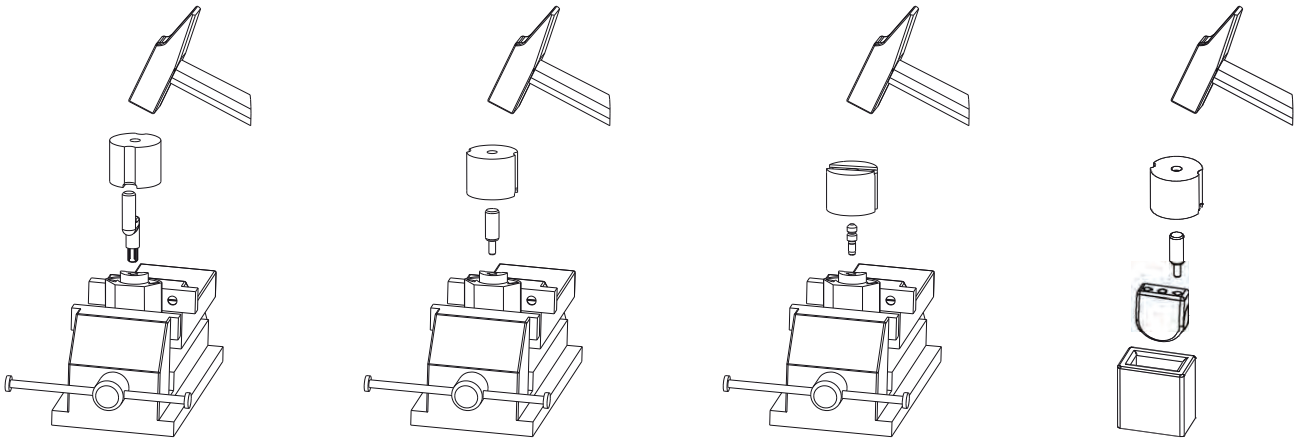


Offset terminal



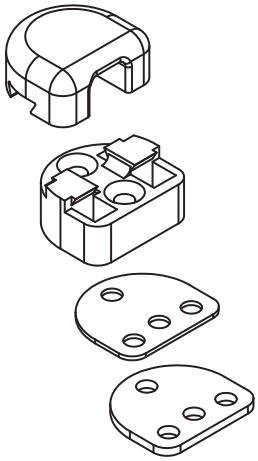
Provence bolt tip insertion kit





Item code	Description	Offset terminal	Opening	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02135	PROVENCE STRAIGHT TERMINAL	NO	External / Internal	X				20
02136	PROVENCE OFFSET TERMINAL	YES	External	X				20

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PROVENCE STRIKERS

Functions

Strikers for closing the Provence cremone

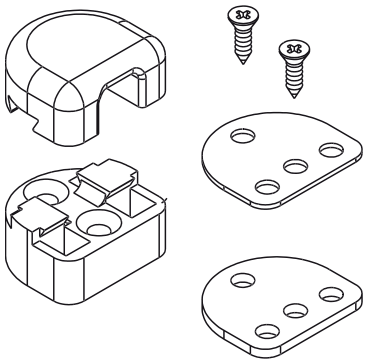
Technical Features

It is fitted on the frame and intercepts the bolt tip applied on the aluminium rod, which is moved by the cremone.
Both models are for an overlap of 7 mm, but with shims they can go up to 10 mm.
With the Provence strikers it is possible to have fasteners on both inward-opening and outward-opening casements (flush and overlap).

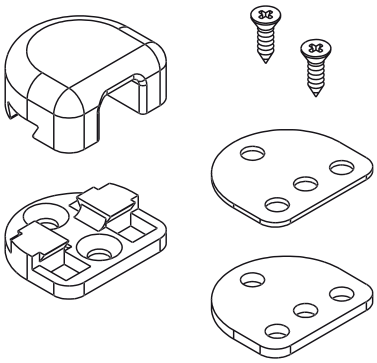
Materials

Die-cast zamak plate and casing
Polyamide shims
Zinc plated steel screws.

Inward opening striker

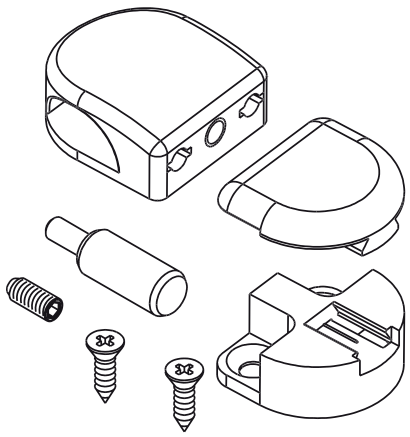


Outward opening casement striker



Item code	Description	Step	Overlap Inward Opening	Flush Inward Opening	Overlap Outward Opening	Flush Outward Opening	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01294N	PROVENCE STRIKER	7 ÷ 10 mm	x				X		X		20
01295N	PROVENCE STRIKER	7 ÷ 10 mm		x	x	x	X		X		20

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ADDITIONAL FASTENING MECHANISMS

Functions

Additional fastening mechanisms for PROVENCE Cremone

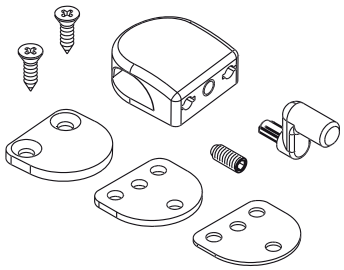
Technical Features

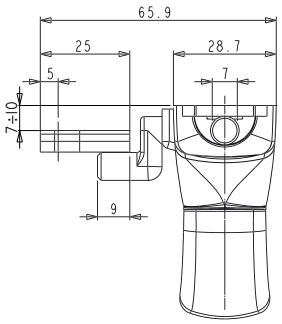
It is composed of a component bearing the bolt tip and is fixed on the rod with a grub screw. To strengthen the system it is recommended to be used near the cremone or near an additional rod guide.
Recommended for heights over 1800 mm.

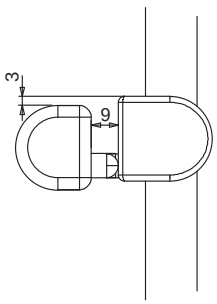
Materials

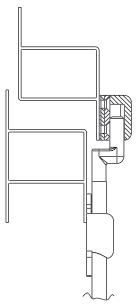
Bolt tip made of stainless steel
Block in die-cast zamak
Steel striker
Mounting grubscrew and fixing screws in stainless steel
Polyamide shims (overlap version)

Outward opening casement fastening mechanism (overlap)

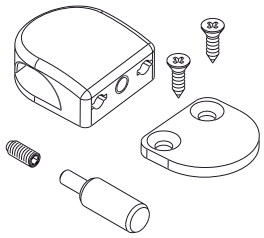


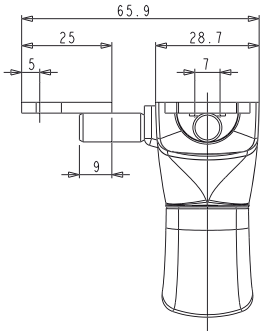


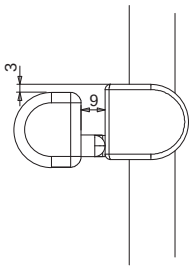


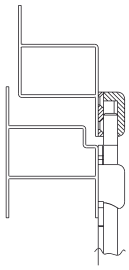


Outward opening casement fastening mechanism (flush)

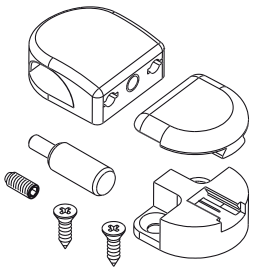


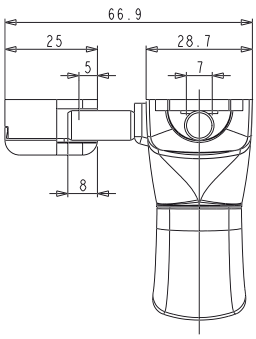


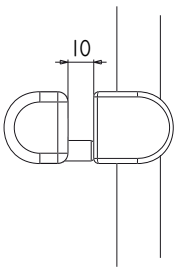


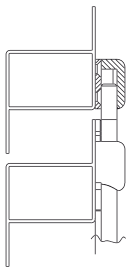


Inward opening fastening mechanism (flush)





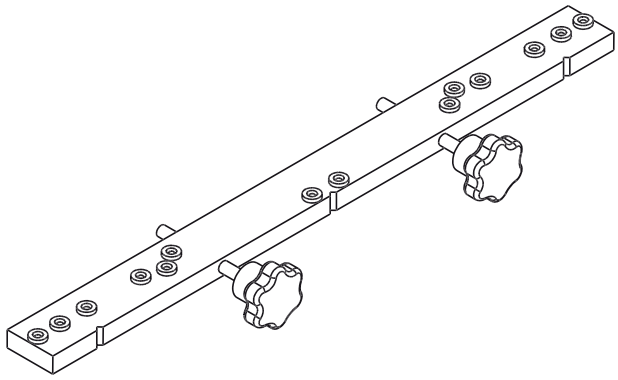




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Item code	Description	Version	Step	Opening	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01292	ADDITIONAL FASTENING MECHANISM	Overlap	7 ÷ 10	External	X		X		10
01293	ADDITIONAL FASTENING MECHANISM	Flush	-	External	X		X		10
01296	ADDITIONAL FASTENING MECHANISM	Flush	-	Internal	X		X		10

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MACHINING TEMPLATE

Functions

Enables making holes for all the components in the Provence range.

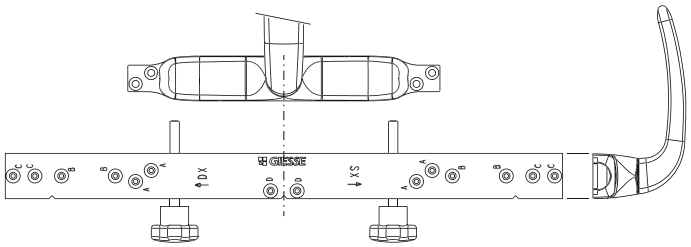
Technical Features

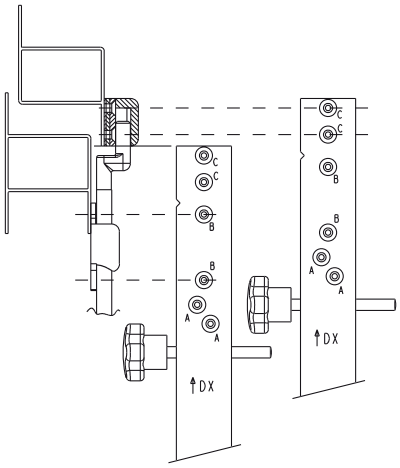
The template has a width equivalent to the cremone so that, once you have determined the position on the profile, you are sure that the Provence will find the right housing.
The template allows you to make all the necessary holes for:

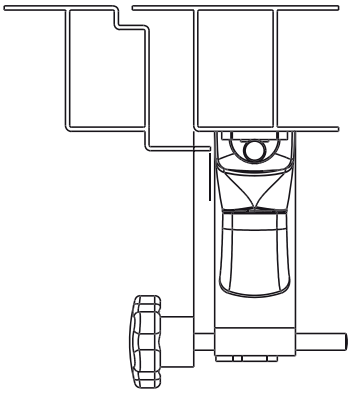
- cremone
- rod guide
- strikers
- additional fastening mechanisms

Materials

Aluminium template
Carbonitrided steel bushes







Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03280	PROVENCE MACHINING TEMPLATE		X				1

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CONFIGURATION EXAMPLES

Inward opening Provence configuration

Profile type	Overlap	Flush
Cremone	01160 - 01161 - 01162	01160 - 01161 - 01162
Rod	01297 - 01300 - 01304	01297 - 01300 - 01304
Bolt tip	02135	02135
Striker	01294N	01295N

Outward opening casement Provence configuration

Profile type	Overlap	Flush
Cremone	01160 - 01161 - 01162	01160 - 01161 - 01162
Rod	01297 - 01300 - 01304	01297 - 01300 - 01304
Bolt tip	02136	02135
Striker	01295N	01295N

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CDM 30

Functions

Remote manual control for opening bottom-hung casements of maximum width 1200 mm, composed of scissor, corner drive, articulated handle.

Technical Features

The manual bottom-hung opening CDM30 is formed by:
- control for bottom-hung windows including manual lever, main scissor and chain corner drive;
- transmission rod;
- casing;

The scissor of the CDM30 control allows the maximum opening of 180 mm. The CDM30 control is applicable on all casements with a minimum height of 250 mm and a maximum weight of 80 kg.
The corner drive uses a chain and ensures sturdiness and functionality over time. The scissor of the CDM30 control enables quickly locking and releasing the sash with a lug, and you can also adjust the pressure of the sash with the mechanism installed.
The CDM30 control is applicable on flush or stepped profiles from 0 to 25 mm.

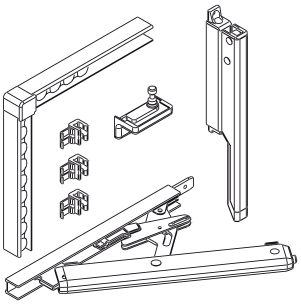
Additional fastening mechanisms

For sashes of width greater than 1200 mm, it is necessary to use one or more additional scissors. Using additional scissors does not increase the load capacity that remains at 80 kg max.

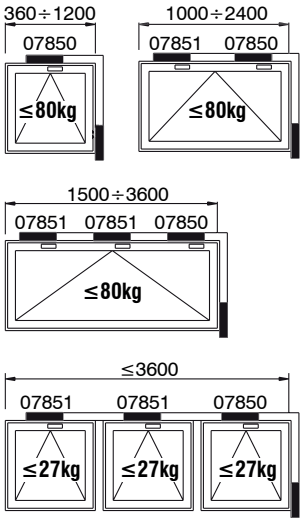
Materials

Control for bottom-hung windows and additional scissor made of extruded aluminium, stainless steel and zamak.
Polyamide caps.
Driving rod made of stainless steel.
Extruded aluminium casing.

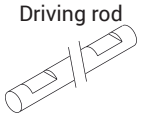
Bottom-hung windows control



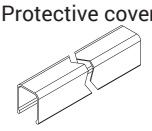
Types and load capacities

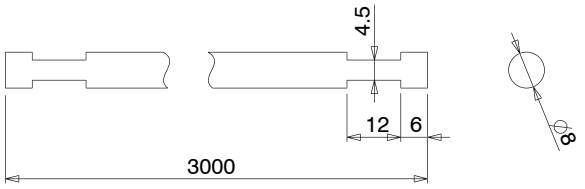


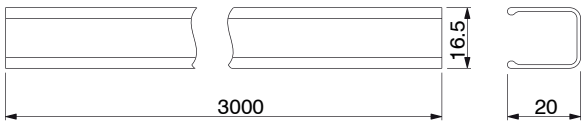
Driving rod



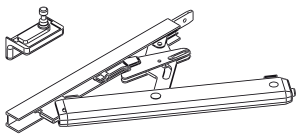
Protective cover

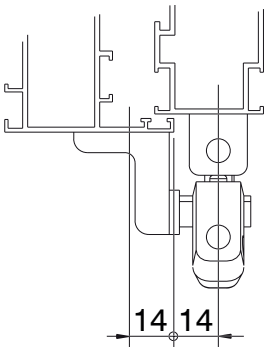






Additional scissor





Codes	Description	Length (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07850	BOTTOM-HUNG WINDOWS CONTROL CDM30	-		X	X		1
07851	ADDITIONAL SCISSOR	> 1200		X	X		1
07852	DRIVING ROD	3000	X				1
07853	PROTECTIVE COVER	3000		X	X		1

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MECHANISMS AND KITS FOR TILT-AND-TURN WINDOWS

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CHIC 3D





Functions
CHIC 3D is the Tilt-and-Turn retractable system with sash opening to 180°.

Technical Features
The CHIC 3D Tilt-and-Turn is available in the following versions:
CHIC 3D 100
CHIC 3D 130

Adjustments
The CHIC 3D Tilt-and-Turn enables micrometric adjustment in every direction, ideal after installing the casement.

Standard microventilation
Micro-ventilation enables having simultaneously both the tilt-and-turn position and micro-ventilation (precision opening of the sash) on the casement, for better air exchange.

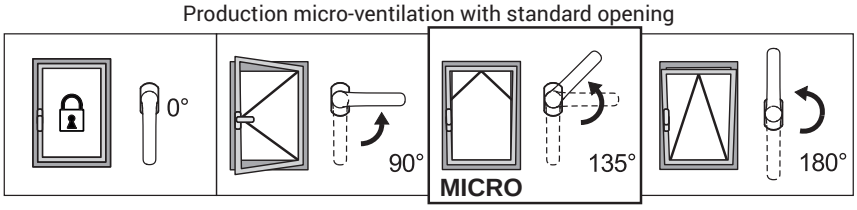
Logica
The logical operation consists in first tilt-and-turn opening (with the cremone at 90°) and secondly side-hung opening (with the cremone at 180°). Its use is particularly recommended in public buildings (schools, hospitals, etc.) in combination with a cremone with a key in order to have only tilt-and-turn window opening for safety reasons and to allow full opening only for staff with the key.

CHIC 100 CHIC 130

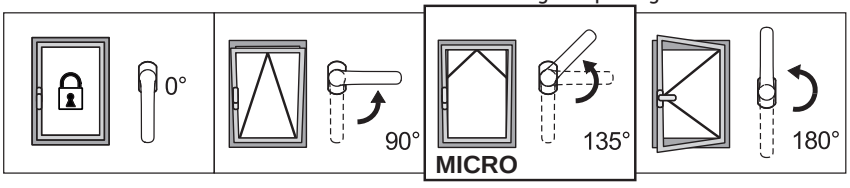
CHIC 3D Tilt-and-Turn versions: type and weight

Description	3D adjustments	Micro-ventilation	Logica	Maximum load capacity
CHIC 3D 100	Yes	Yes	Yes	100 kg
CHIC 3D 130	Yes	Yes	Yes	130 Kg

Production micro-ventilation with standard opening



Production micro-ventilation with Logica opening



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CHIC 3D 100

Functions

Complete system for the construction of tilt-and-turn windows with load capacities of up to 100 kg. Available in the standard, logica and micro-ventilation versions.

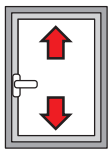
Technical Features

Making a CHIC 3D 100 Tilt-and-Turn mechanism requires:
1. Set of hinges + arms
2. Set of mechanisms for cremones, window handles and NP SUPRA window handles
3. Cremone, window handle or NP SUPRA window handle (available in different models to choose from in the specific catalogue section)

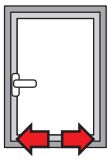
Adjustments

The adjustments are micrometric and indipendent.

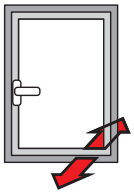
ADJUSTMENTS [mm]



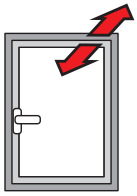
Height:
+2.5 / -1



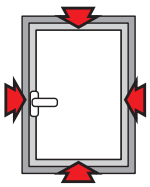
Side:
±1.5



Bottom hinge compression:
+1.4 / -0.6



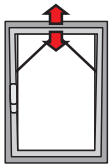
Top hinge compression:
±1.5



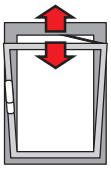
Striker compression:
±1.8



Sash fall:
+3.5 / -1.5



Micro-ventilation:
+3.6 / -1.8



T2 arm opening:
148 ÷ 178

Table of maximum glass thickness [mm]

	500	600	700	800	900	1000	1100	1200	1300	1400	1500
2500	33	27	23	20	18	16	15	14	13	12	11
2400	33	27	23	20	18	16	15	14	13	12	11
2300	34	28	24	21	19	17	16	14	13	12	11
2200	36	30	25	22	20	18	16	15	14	13	12
2100	37	31	27	23	21	19	17	16	14	13	12
2000	39	33	28	25	22	20	18	16	15	14	13
1900	41	34	30	26	23	21	19	17	16	15	14
1800	44	36	31	27	24	22	20	18	17	16	15
1700	46	38	33	29	26	23	21	19	18	16	15
1600	49	41	35	31	27	25	22	20	19	17	15
1500	50	44	37	33	29	26	24	22	20	17	15
1400	50	47	40	35	31	28	25	23	20	17	15
1300	50	50	43	38	34	30	27	24	20	17	15
1200	50	50	47	41	36	33	28	24	20	17	15
1100	50	50	50	45	40	34	28	24	20	17	
1000	50	50	50	49	42	34	28	24	20		
900	50	50	50	50	42	34	28	24			
800	50	50	50	50	42	34	28				
700	50	50	50	50	42	34					

600
445

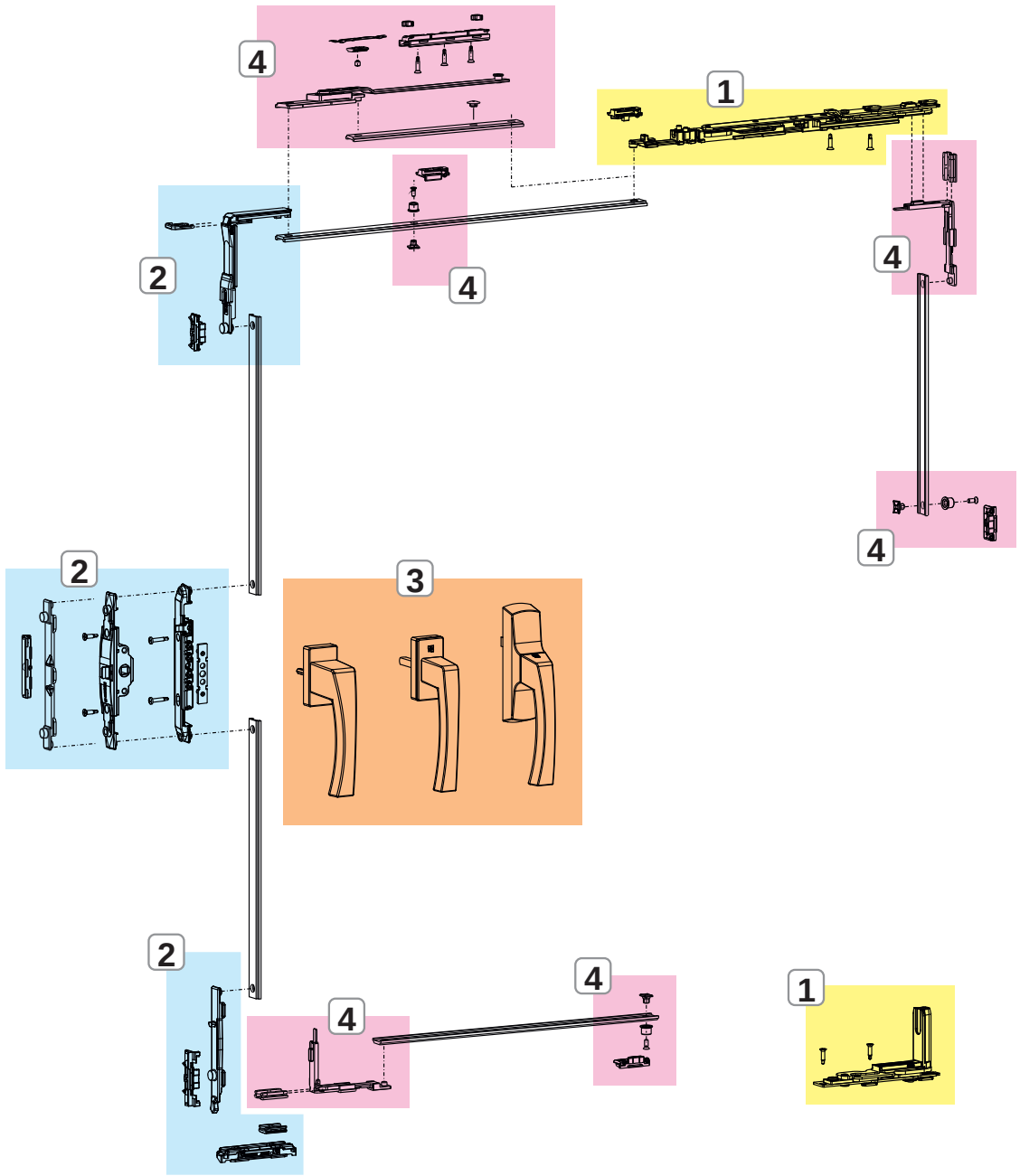
Table of maximum load capacity [kg]

	500	600	700	800	900	1000	1100	1200	1300	1400	1500
2500	100	100	100	100	100	100	100	100	100	100	100
2400	100	100	100	100	100	100	100	100	100	100	100
2300	100	100	100	100	100	100	100	100	100	100	100
2200	100	100	100	100	100	100	100	100	100	100	100
2100	100	100	100	100	100	100	100	100	100	100	100
2000	100	100	100	100	100	100	100	100	100	100	100
1900	100	100	100	100	100	100	100	100	100	100	100
1800	100	100	100	100	100	100	100	100	100	100	100
1700	100	100	100	100	100	100	100	100	100	100	98
1600	100	100	100	100	100	100	100	100	100	99	92
1500	100	100	100	100	100	100	100	100	100	93	87
1400	100	100	100	100	100	100	100	100	93	87	81
1300	100	100	100	100	100	100	100	94	87	80	75
1200	100	100	100	100	100	100	95	87	80	74	69
1100	100	100	100	100	100	95	87	79	73	68	
1000	100	100	100	100	96	87	79	72	67		
900	100	100	100	98	87	78	71	65			
800	100	100	99	87	77	69	63				
700	100	100	87	76	67	61					

600
445

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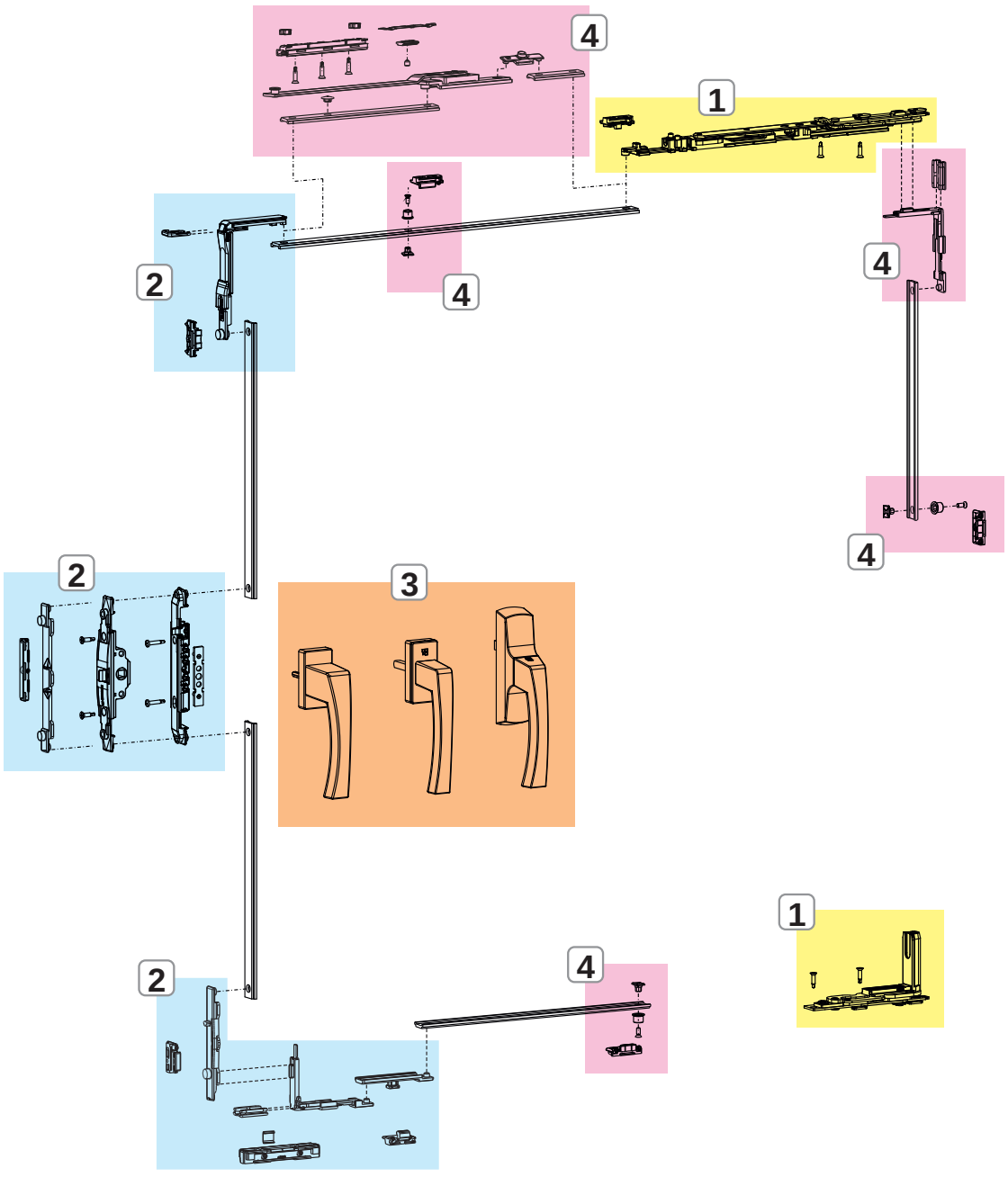
CHIC 3D 100 standard



1. CHIC 3D 100 HINGES AND ARMS
2. CHIC 3D 100 FASTENING MECHANISMS
3. NP SUPRA CREMONES, WINDOW HANDLES AND MECHANISMS
4. CHIC 3D 100 ADDITIONAL FASTENING MECHANISMS AND HARDWARE

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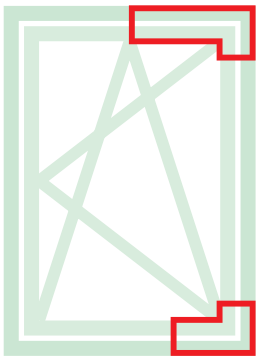
CHIC 3D 100 logica



1. CHIC 3D 100 HINGES AND ARMS
2. CHIC 3D 100 FASTENING MECHANISMS
3. NP SUPRA CREMONES, WINDOW HANDLES AND MECHANISMS
4. CHIC 3D 100 ADDITIONAL FASTENING MECHANISMS AND HARDWARE

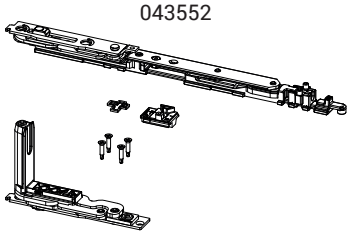
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CHIC 3D 100 HINGES AND ARMS

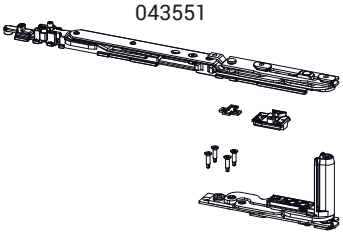


Set of hinges (top and bottom), completely pre-assembled and ready to be installed on the profile.
They enable tilt-and-turn opening combined with the mechanisms.
Micro-ventilation and logica versions.
The arm is equipped with micro-ventilation as standard (adjustable).
Moving the fastening pawl takes the arm from conventional to logica.
The T2 arm is adjustable: the opening "A" goes from 178 mm (base) to 148 mm.
Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel
Connecting bracket and arm rod made of 304 grade stainless steel

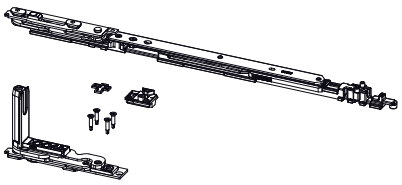
043552



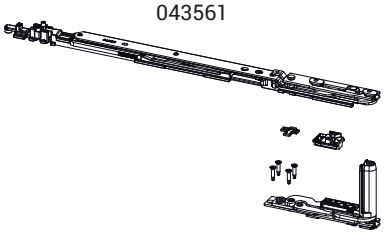
043551



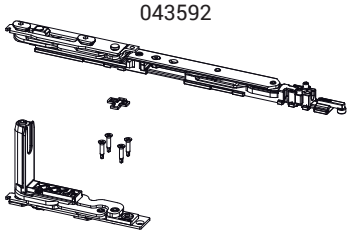
043562



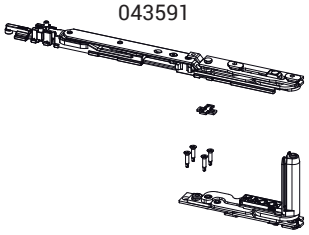
043561



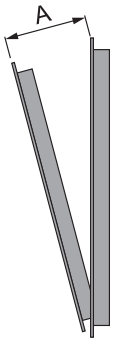
043592



043591



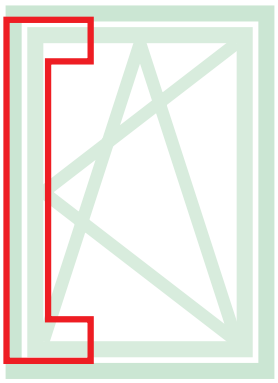
Sash opening



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Version	A (mm)	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
043551	CHIC - T1 ARM T&T KIT	C001-C002-C003-C004-C005-C006	L 470 ÷ 700	Micro	-	RX	X				10
043552	CHIC - T1 ARM T&T KIT	C001-C002-C003-C004-C005-C006	L 470 ÷ 700	Micro	-	LX	X				10
043561	CHIC - T2 ARM T&T KIT	C001-C002-C003-C004-C005-C006	L 600 ÷ 1500	Micro	148÷178	RX	X				10
043562	CHIC - T2 ARM T&T KIT	C001-C002-C003-C004-C005-C006	L 600 ÷ 1500	Micro	148÷178	LX	X				10
043591	CHIC - T1 ARM T&T KIT (WITHOUT MICRO-VENTILATION)	C001-C002-C003-C004-C005-C006	L 445 ÷ 700	-	-	RX	X				10
043592	CHIC - T1 ARM T&T KIT (WITHOUT MICRO-VENTILATION)	C001-C002-C003-C004-C005-C006	L 445 ÷ 700	-	-	LX	X				10

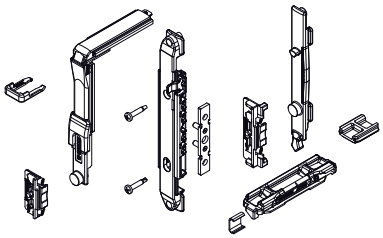
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CHIC 3D 100 FASTENING MECHANISMS

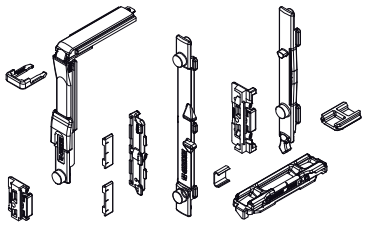


Tilt-and-Turn fastening mechanisms for cremone, window handle and NP SUPRA window handle, available in the Standard and Logica versions.
Drive, drive rod, mechanism bolt tip and strikers in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance).
Screws and grub screws in stainless steel.
Polyamide raiser.

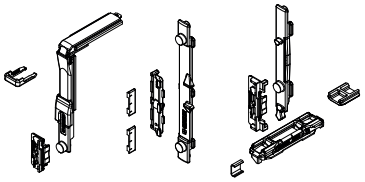
0395501



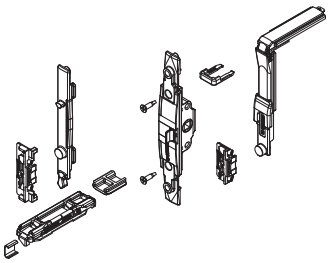
04704



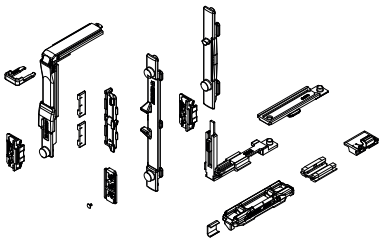
04704010



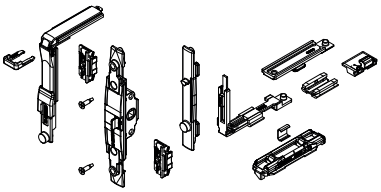
04705N



04706N



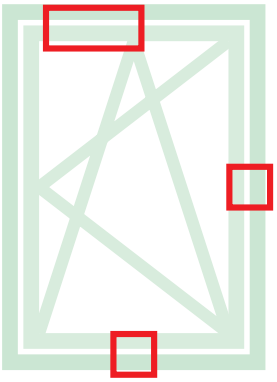
04707V



Item code	Description	PROFILE CROSS - SECTION	Window handle	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0395501	T/T FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	NP SUPRA	-	X				10
04704	T/T FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Cremone	-	X				10
04704010	T/T FASTENING MECHANISM	C003	Cremone	-	X				10
04705N	T/T M 180 FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle	-	X				10
04707V	T/T M 180 LOGICA FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle	Logica	X				10

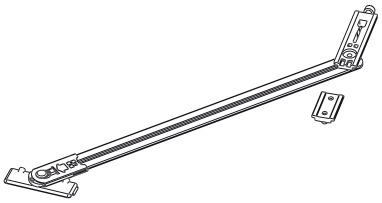
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CHIC 3D 100 ADDITIONAL FASTENING MECHANISMS AND HARDWARE

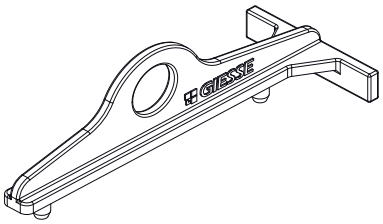


The additional fasteners make it possible to add further fastening elements that either increase the dimensions of the casement or that can be used when locking points are needed on the cross beams or hinge-side upright.
On the basis of the dimensions of the casement, additional fasteners (for H>1200 mm and W>1000 mm) and the additional arm (which is mandatory for W>1000 mm) are to be used in combination with this mechanism.

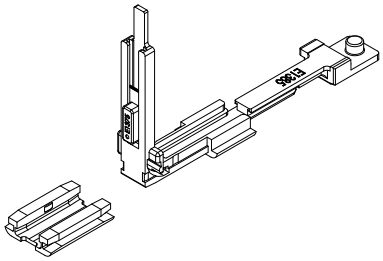
02030K



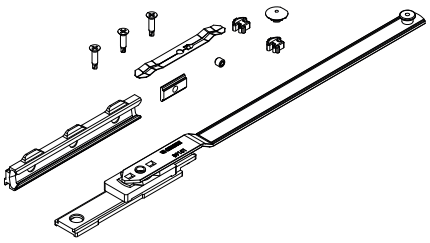
03535



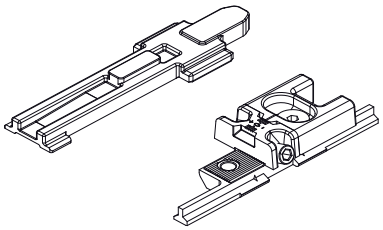
04024K



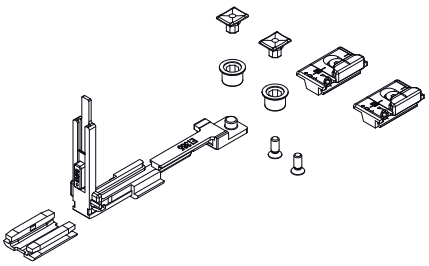
04301K



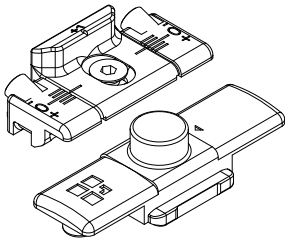
04357



04770K

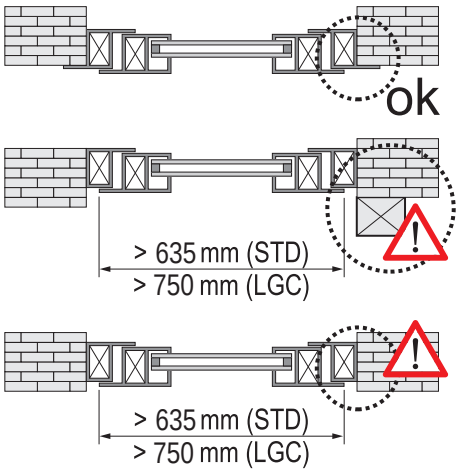


04777K

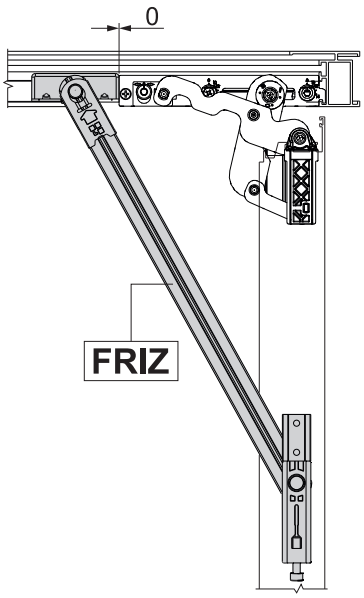


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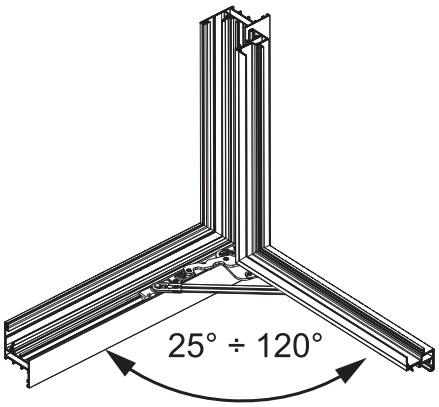
Mandatory to use the FRIZ arm



FRIZ arm positioning



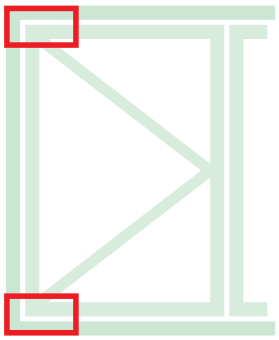
Opening angle with FRIZ arm



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02030K	FRIZ STAY LIMITATION ARM	C001-C002-C004-C011-C012-C013-C014-C015-C016-C017	See picture	-	X				10
03535	CHIC - TEMPLATE FOR TILT-AND-TURN	C001-C002-C003-C004-C005-C006	-	-	X				10
04024K	CORNER DRIVE FOR FUTURA BURGLAR-PROOF FUNCTION	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	-	-	X				10
04301K	T/T FUTURA ADDITIONAL ARM	C001-C002-C003-C004-C005-C006	W > 1000	-	X				5
04357	CHIC - ARM ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C004-C005-C006	-	-	X				10
04770K	FUTURA ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	H > 1200 L > 1000	-	X				10
04777K	FUTURA ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	H > 1200 L > 1000	Logica	X				50

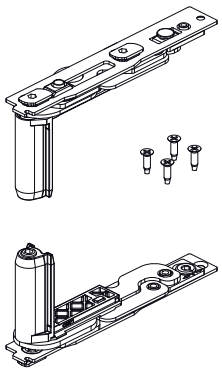
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SECONDARY SASH HINGE SET FOR CHIC 3D 100

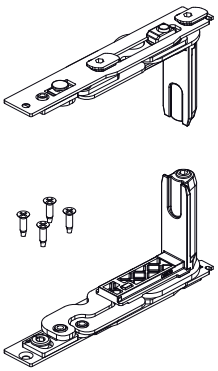


Set of hinges (top and bottom) for side-hung or secondary sash with tilt-and-turn CHIC 3D 100.
Sash opening to 180°.
Maximum load capacity 100 kg.
Assembly is simple, fast and easy using the special pre-assembled cams.
When there is an additional fastening mechanism, you need to use the CHIC fastening element.
Both hinges are adjustable (3D).
If opening is obstructed, you need to use the FRIZ limitation arm.
Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel

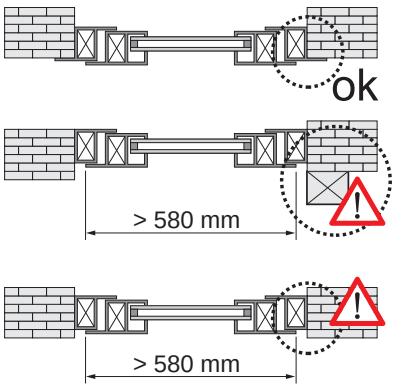
043542



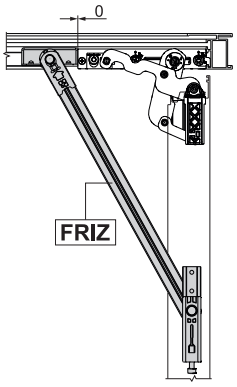
043541



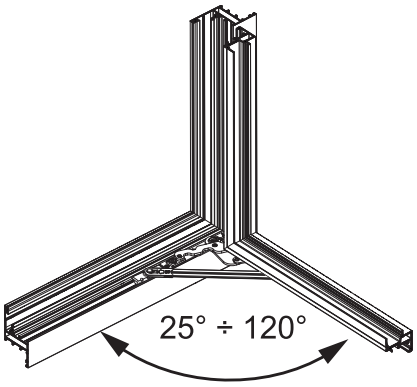
Mandatory to use the FRIZ arm



FRIZ arm positioning



Opening angle with FRIZ arm



Item code	Description	PROFILE CROSS - SECTION	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
043541	CHIC - SASH HINGE SET	C001-C002-C003-C004-C005-C006	RX	X				10
043542	CHIC - SASH HINGE SET	C001-C002-C003-C004-C005-C006	LX	X				10

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CONFIGURATION EXAMPLES

CHIC 3D 100

Micro configuration with Cremone

Sash width	445 ÷ 469*	470 ÷ 700	600 ÷ 1000	1001 ÷ 1500
Hinges + Arm	043591 - 043592	043551 - 043552	043561 - 043562	043561 - 043562
Mecha-nism	04704 - 04704010	04704 - 04704010	04704 - 04704010	04704 - 04704010
Addition-al arm	-	-	-	04301K
Cremone	01039 - 01094	01039 - 01094	01039 - 01094	01039 - 01094

* No Micro-ventilation

Micro configuration with window handle

Sash width	445 ÷ 469*	470 ÷ 700	600 ÷ 1000	1001 ÷ 1500
Hinges + Arm	043591 - 043592	043551 - 043552	043561 - 043562	043561 - 043562
Mecha-nism	04705N	04705N	04705N	04705N
Addition-al arm	-	-	-	04301K
Window handle	02476 - 02415 - 00997	02476 - 02415 - 00997	02476 - 02415 - 00997	02476 - 02415 - 00997

* No Micro-ventilation

Micro configuration with NP Supra

Sash width	445 ÷ 469*	470 ÷ 700	600 ÷ 1000	1001 ÷ 1500
Hinges + Arm	043591 - 043592	043551 - 043552	043561 - 043562	043561 - 043562
Mecha-nism	03955	03955	03955	03955
Addition-al arm	-	-	-	04301K
NP Supra	03962 - 03963	03962 - 03963	03962 - 03963	03962 - 03963

* No Micro-ventilation

Logica micro configuration with Cremone

Sash width	445 ÷ 469*	470 ÷ 700	600 ÷ 1000	1001 ÷ 1500
Hinges + Arm	043591 - 043592	043551 - 043552	043561 - 043562	043561 - 043562
Mecha-nism	04706N - 04706010N	04706N - 04706010N	04706N - 04706010N	04706N - 04706010N
Addition-al arm	-	-	-	04301K
Cremone	01194 - 01195	01194 - 01195	01194 - 01195	01194 - 01195

* No Micro-ventilation

Logica configuration with window handle

Sash width	445 ÷ 469*	470 ÷ 700	600 ÷ 1000	1001 ÷ 1500
Hinges + Arm	043591 - 043592	043551 - 043552	043561 - 043562	043561 - 043562
Mecha-nism	04707V	04707V	04707V	04707V
Addition-al arm	-	-	-	04301K
Window handle	02486	02486	02486	02486

* No Micro-ventilation

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CHIC 3D 130

Functions

Complete system for the construction of tilt-and-turn windows with load capacities of up to 130 kg. Available in the standard, logica and micro-ventilation versions.

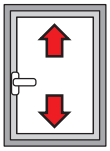
Technical Features

Making a CHIC 3D 130 Tilt-and-Turn mechanism requires:
1. Set of hinges + arms
2. Set of mechanisms for cremones, window handles and NP SUPRA window handles
3. Cremone, window handle or NP SUPRA window handle (available in different models to choose from in the specific catalogue section)

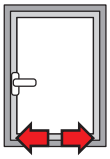
Adjustments

The adjustments are micrometric and indipendent.

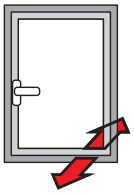
ADJUSTMENTS [mm]



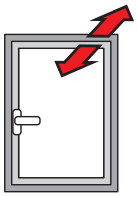
Height:
+2.5 / -1



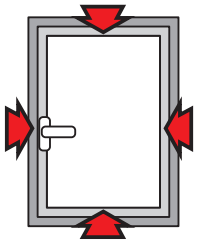
Side:
±1.5



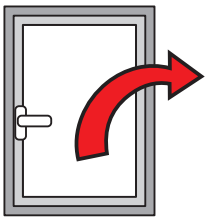
Bottom hinge compression:
+1.4 / -0.6



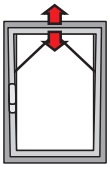
Top hinge compression:
±1.5



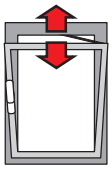
Striker compression:
±1.8



Sash fall:
+3.5 / -1.5



Micro-ventilation:
+3.6 / -1.8



T2 arm opening:
148 ÷ 178

Table of maximum glass thickness [mm]

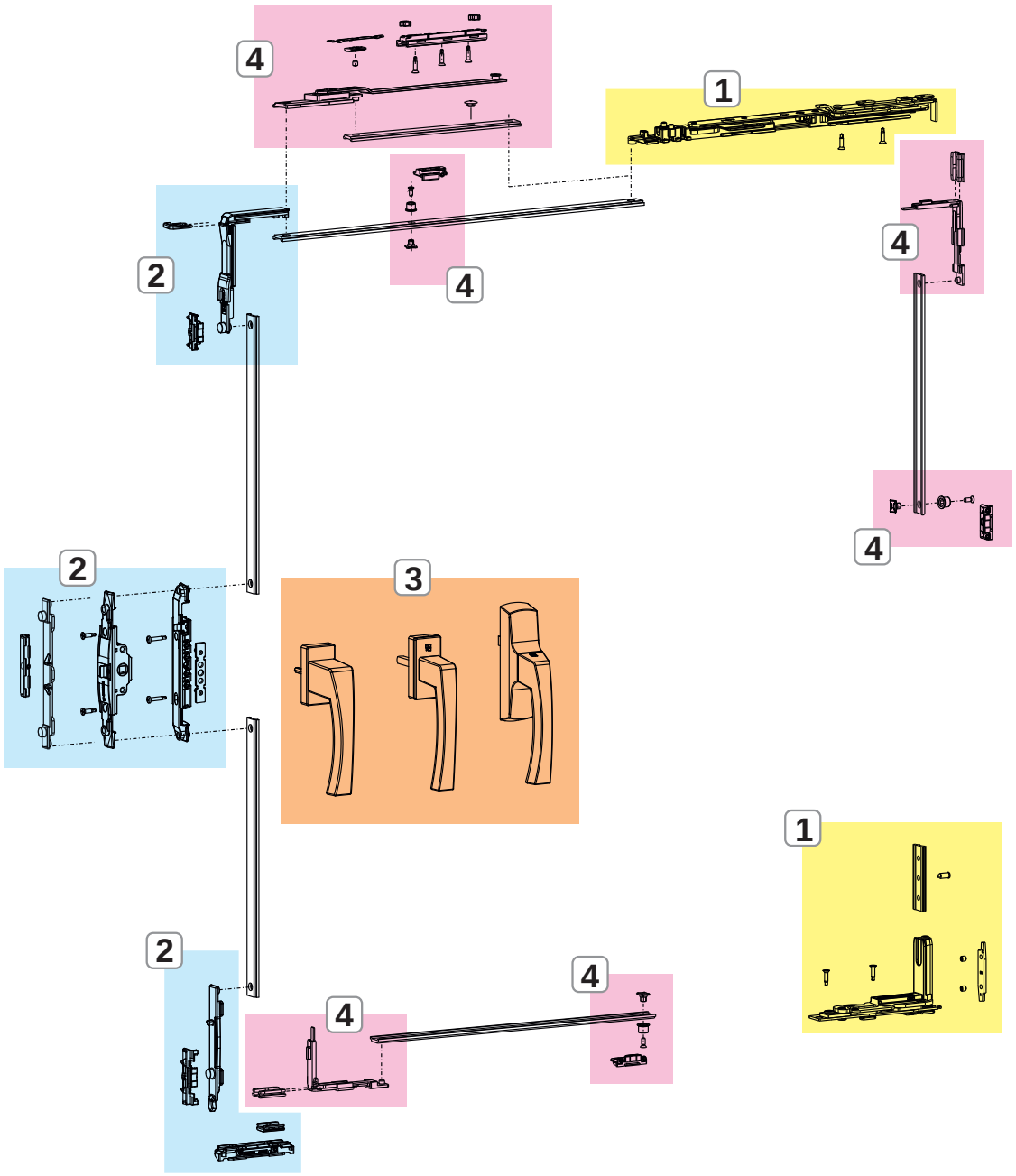
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
2800	35	29	25	22	19	17	16	14	13	12	12	
2700	37	31	26	23	20	18	17	15	14	13	12	
2600	39	32	28	24	21	19	18	16	15	14	13	12
2500	43	35	30	27	24	21	19	18	16	15	14	13
2400	43	35	30	27	24	21	19	18	16	15	14	13
2300	44	37	32	28	25	22	20	18	17	16	15	14
2200	46	39	33	29	26	23	21	19	18	17	15	14
2100	49	40	35	30	27	24	22	20	19	17	16	15
2000	51	43	36	32	28	26	23	21	20	18	17	16
1900	54	45	38	34	30	27	24	22	21	19	18	17
1800	57	47	40	35	31	28	26	24	22	20	19	18
1700	60	50	43	38	33	30	27	25	23	21	20	18
1600	60	53	46	40	35	32	29	27	25	23	21	18
1500	60	57	49	43	38	34	31	28	26	24	21	18
1400	60	60	52	46	40	36	33	30	28	24	21	18
1300	60	60	56	49	44	39	36	33	28	24	21	18
1200	60	60	60	53	47	43	39	33	28	24	21	
1100	60	60	60	58	52	46	39	33	28	24		
1000	60	60	60	60	57	47	39	33	28			
900	60	60	60	60	58	47	39	33				
800	60	60	60	60	58	47	39					
700	60	60	60	60	58	47						
600												
470												

Table of maximum load capacity [kg]

	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
2800	124	124	124	124	124	124	124	124	124	124	124	
2700	126	126	126	126	126	126	126	126	126	126	126	
2600	128	128	128	128	128	128	128	128	128	128	128	128
2500	130	130	130	130	130	130	130	130	130	130	130	130
2400	130	130	130	130	130	130	130	130	130	130	130	130
2300	130	130	130	130	130	130	130	130	130	130	130	130
2200	130	130	130	130	130	130	130	130	130	130	130	130
2100	130	130	130	130	130	130	130	130	130	130	130	130
2000	130	130	130	130	130	130	130	130	130	130	130	130
1900	130	130	130	130	130	130	130	130	130	130	130	130
1800	130	130	130	130	130	130	130	130	130	130	130	130
1700	130	130	130	130	130	130	130	130	130	130	130	127
1600	130	130	130	130	130	130	130	130	130	130	127	119
1500	130	130	130	130	130	130	130	130	130	128	119	112
1400	130	130	130	130	130	130	130	130	129	119	111	104
1300	130	130	130	130	130	130	130	129	119	111	103	97
1200	130	130	130	130	130	130	130	119	110	102	95	
1100	130	130	130	130	130	130	119	109	101	94		
1000	130	130	130	130	130	119	108	99	92			
900	130	130	130	130	119	107	98	90				
800	130	130	130	119	106	95	87					
700	130	130	119	104	93	84						
600												
470												

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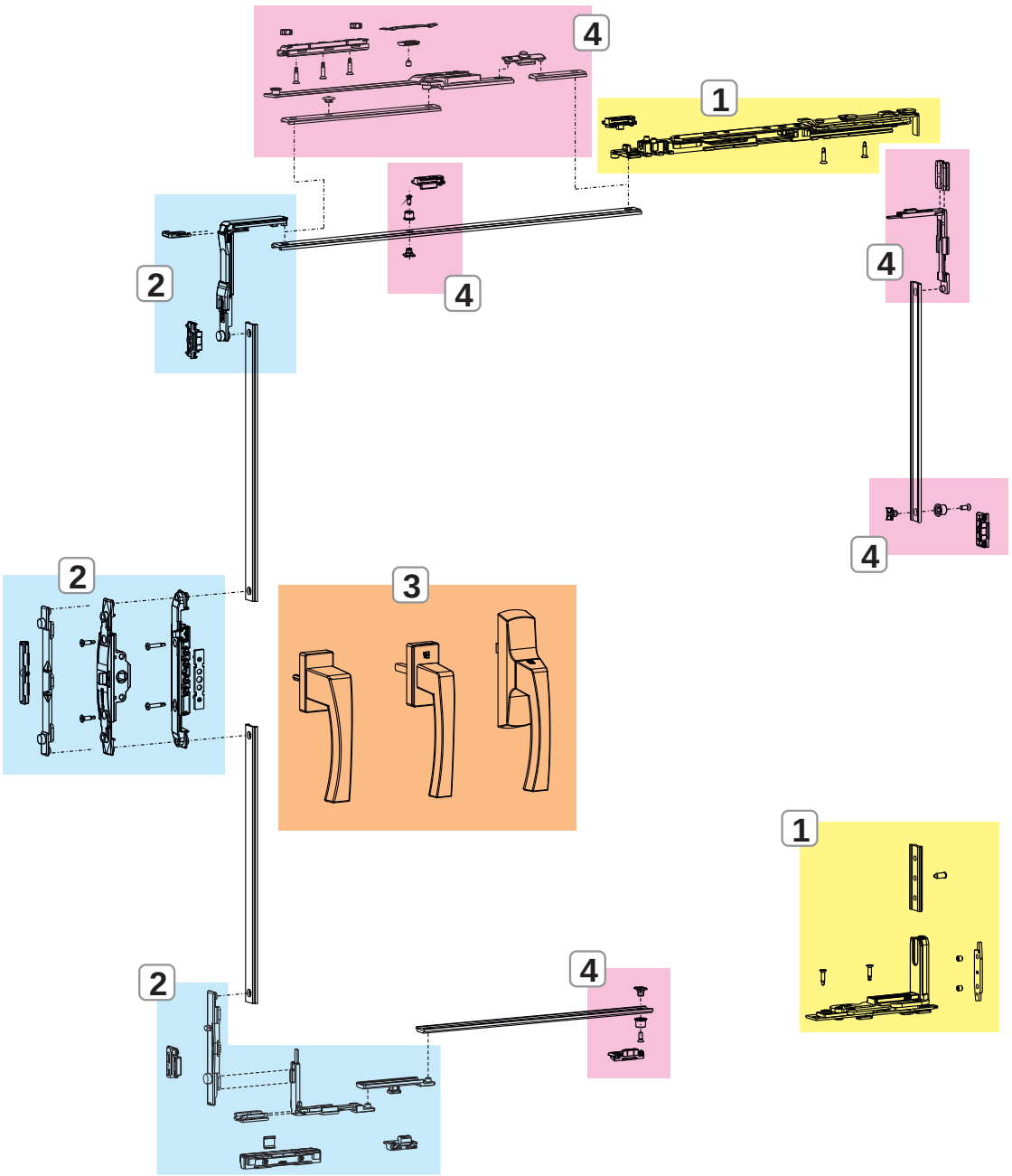
CHIC 3D 130 standard



1. CHIC 3D 130 HINGES AND ARMS
2. CHIC 3D 130 FASTENING MECHANISMS
3. NP SUPRA CREMONES, WINDOW HANDLES AND MECHANISMS
4. CHIC 3D 130 ADDITIONAL FASTENING MECHANISMS AND HARDWARE

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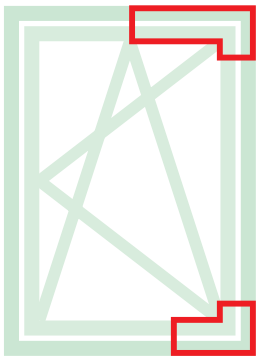
CHIC 3D 130 logica



1. CHIC 3D 130 HINGES AND ARMS
2. CHIC 3D 130 FASTENING MECHANISMS
3. NP SUPRA CREMONES, WINDOW HANDLES AND MECHANISMS
4. CHIC 3D 130 ADDITIONAL FASTENING MECHANISMS AND HARDWARE

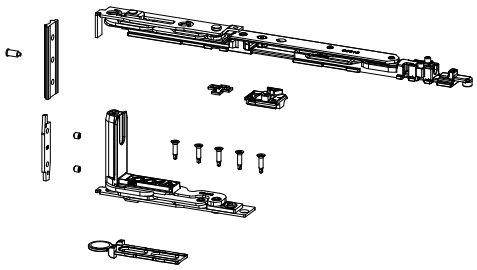
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CHIC 3D 130 HINGES AND ARMS

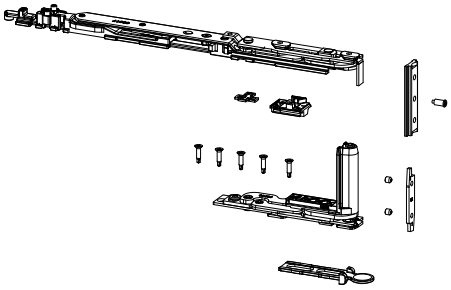


Set of hinges (top and bottom), completely pre-assembled and ready to be installed on the profile.
They enable tilt-and-turn opening combined with the mechanisms.
Micro-ventilation and logica versions.
The arm is equipped with micro-ventilation as standard (adjustable).
Moving the fastening pawl takes the arm from conventional to logica.
The T2 arm is adjustable: the opening "A" goes from 178 mm (base) to 148 mm.
Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel
Connecting bracket and arm rod made of 304 grade stainless steel

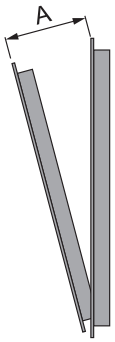
044252



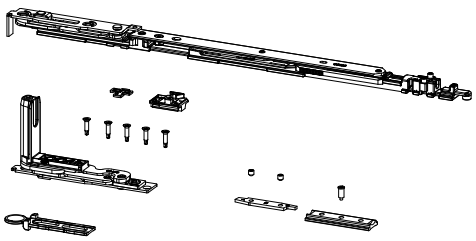
044251



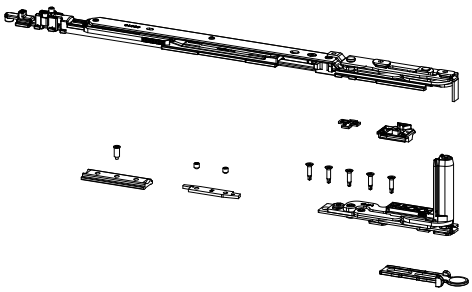
Sash opening



044262



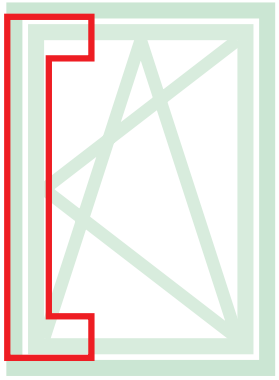
044261



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Version	A (mm)	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
044251	CHIC - T1 ARM T&T KIT	C001-C002-C003-C004-C005-C006	L 470 ÷ 700	Micro	-	RX	X				10
044252	CHIC - T1 ARM T&T KIT	C001-C002-C003-C004-C005-C006	L 470 ÷ 700	Micro	-	LX	X				10
044261	CHIC - T2 ARM T&T KIT	C001-C002-C003-C004-C005-C006	L 600 ÷ 1600	Micro	148÷178	RX	X				10
044262	CHIC - T2 ARM T&T KIT	C001-C002-C003-C004-C005-C006	L 600 ÷ 1600	Micro	148÷178	LX	X				10

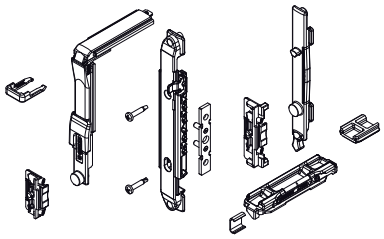
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CHIC 3D 130 FASTENING MECHANISMS

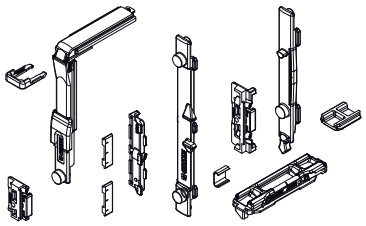


Tilt-and-Turn fastening mechanisms for cremone, window handle and NP SUPRA window handle, available in the Standard and Logica versions.
Drive, drive rod, mechanism bolt tip and strikers in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance).
Screws and grub screws in stainless steel.
Polyamide raiser.

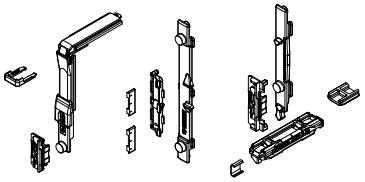
0395501



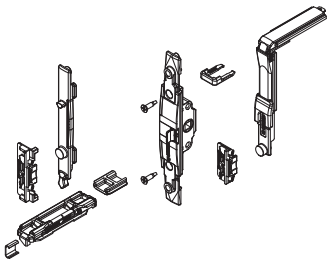
04704



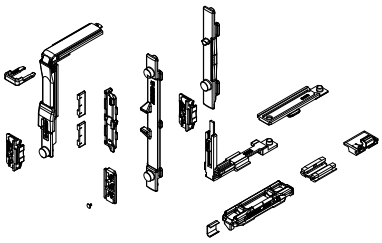
04704010



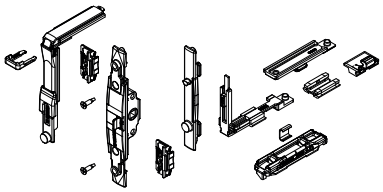
04705N



04706N



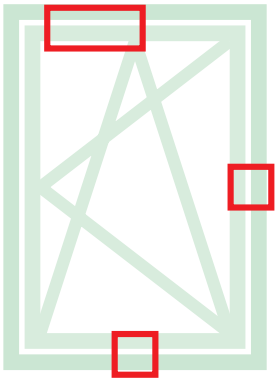
04707V



Item code	Description	PROFILE CROSS - SECTION	Window handle	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0395501	T/T FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	NP SUPRA	-	X				10
04704	T/T FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Cremone	-	X				10
04704010	T/T FASTENING MECHANISM	C003	Cremone	-	X				10
04705N	T/T M 180 FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle	-	X				10
04707V	T/T M 180 LOGICA FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle	Logica	X				10

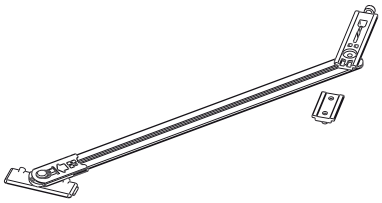
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CHIC 3D 130 ADDITIONAL FASTENING MECHANISMS AND HARDWARE

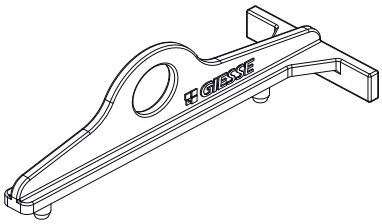


The additional fasteners make it possible to add further fastening elements that either increase the dimensions of the casement or that can be used when locking points are needed on the cross beams or hinge-side upright.
On the basis of the dimensions of the casement, additional fasteners (for H>1200 mm and W>1000 mm) and the additional arm (which is mandatory for W>1000 mm) are to be used in combination with this mechanism.

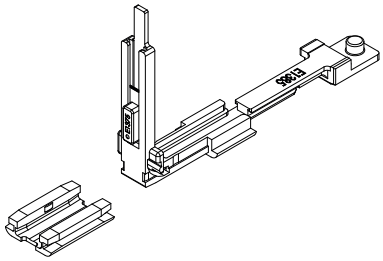
02030K



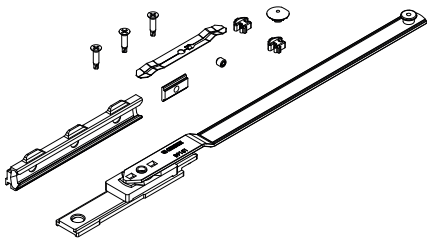
03535



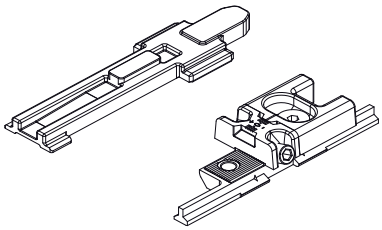
04024K



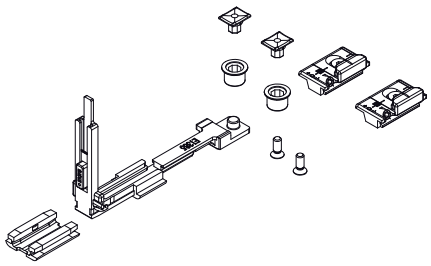
04301K



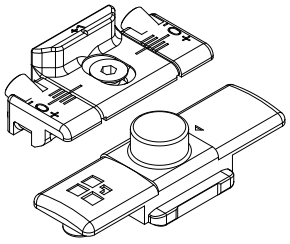
04357



04770K

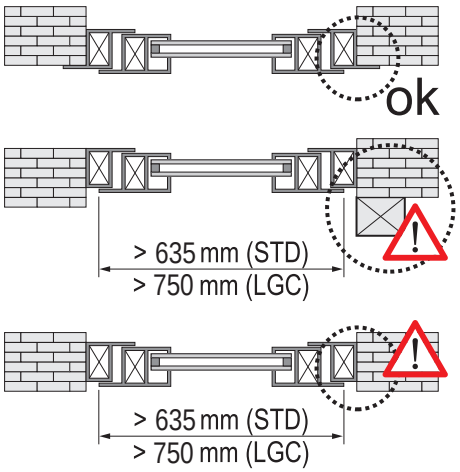


04777K

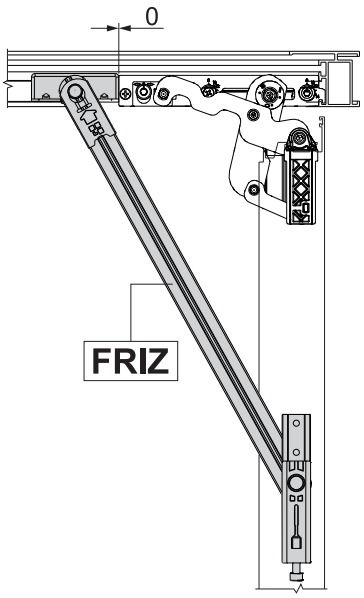


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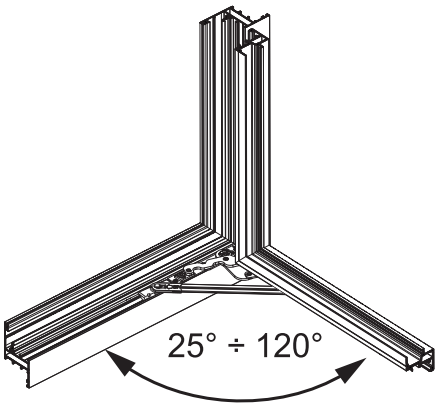
Mandatory to use the FRIZ arm



FRIZ arm positioning



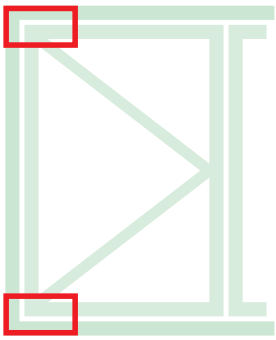
Opening angle with FRIZ arm



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02030K	FRIZ STAY LIMITATION ARM	C001-C002-C004-C011-C012-C013-C014-C015-C016-C017	See picture	-	X				10
03535	CHIC - TEMPLATE FOR TILT-AND-TURN	C001-C002-C003-C004-C005-C006	-	-	X				10
04024K	CORNER DRIVE FOR FUTURA BURGLAR-PROOF FUNCTION	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	-	-	X				10
04301K	T/T FUTURA ADDITIONAL ARM	C001-C002-C003-C004-C005-C006	W > 1000	-	X				5
04357	CHIC - ARM ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C004-C005-C006	-	-	X				10
04770K	FUTURA ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	H > 1200 L > 1000	-	X				10
04777K	FUTURA ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	H > 1200 L > 1000	Logica	X				50

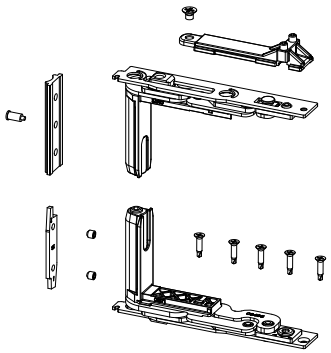
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SECONDARY SASH HINGE SET FOR CHIC 3D 130

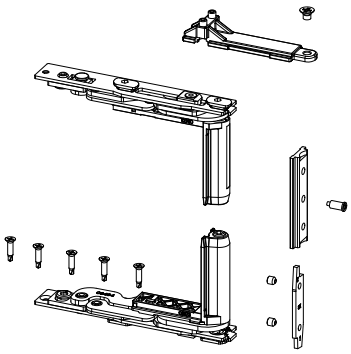


Set of hinges (top and bottom) for side-hung or secondary sash with tilt-and-turn CHIC 3D 130.
Sash opening to 180°.
Maximum load capacity 130 kg.
Assembly is simple, fast and easy using the special pre-assembled cams.
When there is an additional fastening mechanism, you need to use the CHIC fastening element.
Both hinges are adjustable (3D).
If opening is obstructed, you need to use the FRIZ limitation arm.
Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel

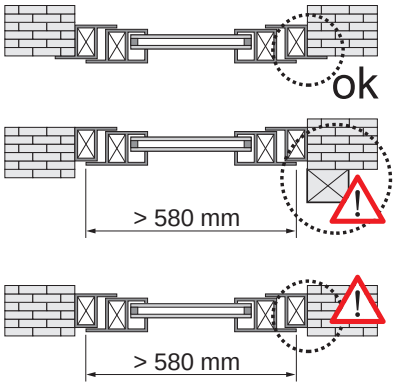
044242



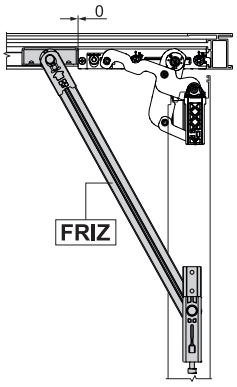
044241



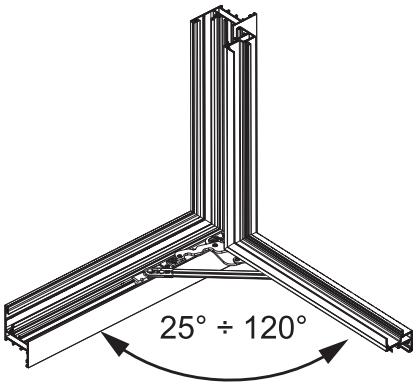
Mandatory to use the FRIZ arm



FRIZ arm positioning



Opening angle with FRIZ arm



Item code	Description	PROFILE CROSS - SECTION	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
044241	CHIC - SASH HINGE SET	C001-C002-C003-C004-C005-C006	RX	X				10
044242	CHIC - SASH HINGE SET	C001-C002-C003-C004-C005-C006	LX	X				10

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CONFIGURATION EXAMPLES

CHIC 3D 130

Micro configuration with Cremone

Sash width	470 ÷ 700	600 ÷ 1000	1001 ÷ 1600
Hinges + Arm	044251 - 044252	044261 - 044262	044261 - 044262
Mechanism	04704 - 04704010	04704 - 04704010	04704 - 04704010
Additional arm	-	-	04301K
Cremone	01039 - 01094 - 01084	01039 - 01094 - 01084	01039 - 01094 - 01084

Micro configuration with window handle

Sash width	470 ÷ 700	600 ÷ 1000	1001 ÷ 1600
Hinges + Arm	044251 - 044252	044261 - 044262	044261 - 044262
Mechanism	04705N	04705N	04705N
Additional arm	-	-	04301K
Window handle	02476 - 02415 - 00997	02476 - 02415 - 00997	02476 - 02415 - 00997

Micro configuration with NP Supra

Sash width	470 ÷ 700	600 ÷ 1000	1001 ÷ 1600
Hinges + Arm	044251 - 044252	044261 - 044262	044261 - 044262
Mechanism	03955	03955	03955
Additional arm	-	-	04301K
NP Supra	03962 - 03963	03962 - 03963	03962 - 03963

Logica micro configuration with Cremone

Sash width	470 ÷ 700	600 ÷ 1000	1001 ÷ 1600
Hinges + Arm	044251 - 044252	044261 - 044262	044261 - 044262
Mechanism	04706N - 04706010N	04706N - 04706010N	04706N - 04706010N
Additional arm	-	-	04301K
Cremone	01194 - 01087	01194 - 01087	01194 - 01087

Logica configuration with window handle

Sash width	470 ÷ 700	600 ÷ 1000	1001 ÷ 1600
Hinges + Arm	044251 - 044252	044261 - 044262	044261 - 044262
Mechanism	04707V	04707V	04707V
Additional arm	-	-	04301K
Window handle	02486	02486	02486

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FUTURA 3D

FUTURA 3D 80
FUTURA 3D 80 lgc
FUTURA 3D R
FUTURA 3D 80 micro
FUTURA 3D 80 micro lgc
FUTURA 3D R lgc
FUTURA 3D 130
FUTURA 3D 130 lgc
FUTURA 3D 150 HP
FUTURA 3D 130 micro
FUTURA 3D 130 micro lgc
FUTURA 3D 150 HP lgc
FUTURA 3D 170 HP Invisible
FUTURA 3D ARCO
FUTURA 3D 170 HP Invisible lgc
FUTURA 3D FSQ



Functions

FUTURA 3D is the Tilt-and-Turn Window system recognized by the market for its features of simplicity, speed of assembly, load capacity and 3D adjustments.

Technical Features

The FUTURA 3D tilt-and-turn window is available in six different versions by type and weight:
FUTURA 3D 130
FUTURA 3D 150 HP
FUTURA 3D 170 HP INVISIBLE
FUTURA 3D 80
FUTURA 3D ARCO AND FSQ
FUTURA 3D R
FUTURA 3D 80 ALUMINIUM WOOD

Adjustments

The FUTURA 3D tilt-and-turn window enables micrometric adjustment in every direction, ideal after installing the casement.

Micro-ventilation

Microventilation enables having simultaneously both the tilt-and-turn position and micro-ventilation (precision opening of the sash) on the casement. Available both as standard and with an additional device.

Logica

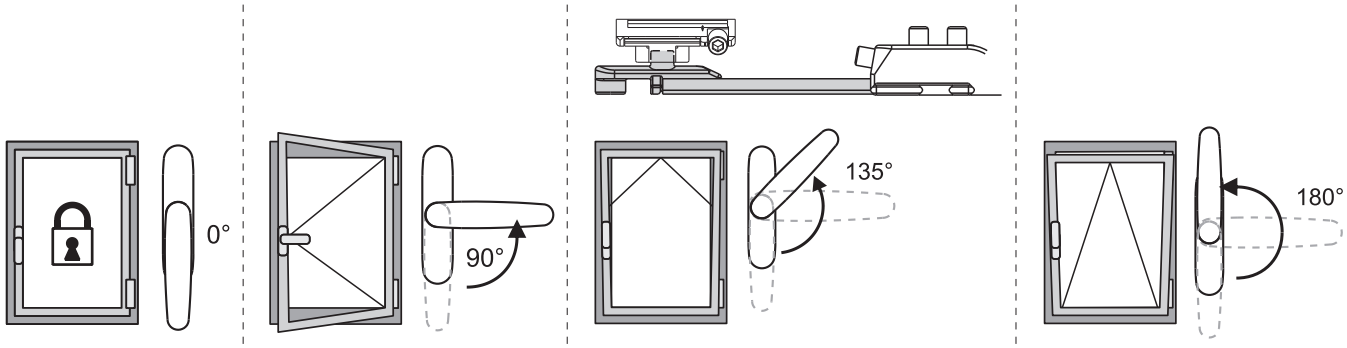
The logical operation consists in first tilt-and-turn opening (with the cremone at 90°) and secondly side-hung opening (with the cremone at 180°). Its use is particularly recommended in public buildings (schools, hospitals, etc.) in combination with a cremone with a key in order to have only tilt-and-turn window opening for safety reasons and to allow full opening only for staff with the key.

FUTURA 3D tilt-and-turn window versions: type and weight

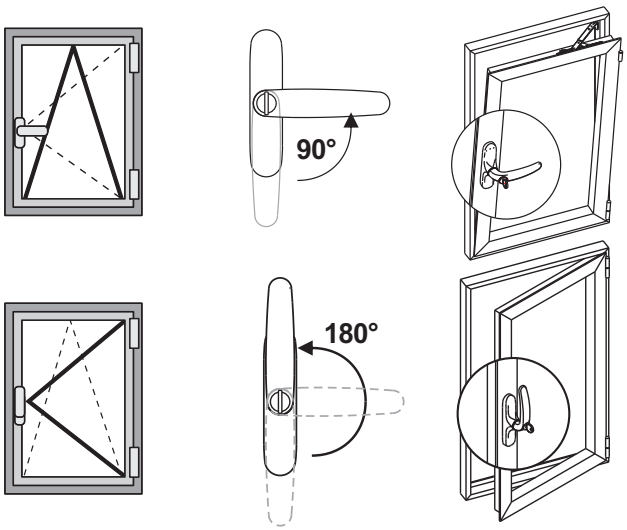
Description	3D adjustments	Micro-ventilation	Logica	Maximum load capacity
FUTURA 3D 130	Yes	Yes	Yes	140 Kg
FUTURA 3D 150 HP	Yes	Yes	Yes	150 Kg
FUTURA 3D 170 HP INVISIBLE	Yes	Yes	Yes	170 Kg
FUTURA 3D 80	Yes	Yes	Yes	90 Kg
FUTURA 3D ARCO AND FSQ	Yes	No	No	80 Kg
FUTURA 3D R	Yes	No	Yes	110 Kg
FUTURA 3D 80 ALUMINIUM WOOD	Yes	Yes	Yes	90 Kg

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Standard microventilation



Logica mechanism operation



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FUTURA 3D 130 | FUTURA 3D 130 lgc | FUTURA 3D 130 micro | FUTURA 3D 130 micro lgc

FUTURA 3D 130

Functions

Complete system for the construction of tilt-and-turn windows with load capacities of up to 140 kg. Available in the standard, logic and microventilation versions.

Technical Features

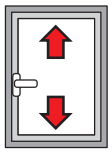
Making a FUTURA 3D 130 tilt-and-turn window mechanism requires:

- Hinge kit
- Set of fastening mechanisms for Cremones and window handles
- Arms, available in three versions (standard, micro-ventilation and logic)
- Cremone or window handle (available in different models to choose from in the specific catalogue section)

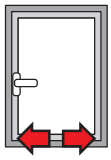
Adjustments

The adjustments are micrometric and indipendent.

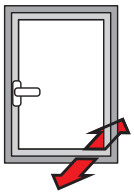
ADJUSTMENTS [mm]



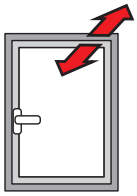
Height:
+1.5 / -0.5



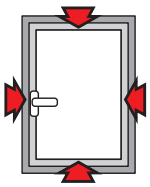
Side:
±1



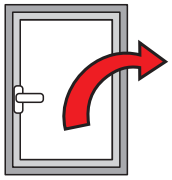
Bottom hinge compression:
±0.3



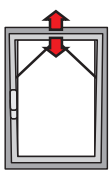
Top hinge compression:
±1.5



Striker compression:
±1.8



Sash fall:
+3.5 / -1.5



Micro-ventilation:
+3.6 / -1.8

Table of maximum glass thickness [mm]

	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
3000	35	28	24	21	19	17	15	14	13	12	11	11	10	
2900	35	29	25	22	20	18	16	15	14	13	12	11	10	10
2800	36	30	26	23	20	18	17	15	14	13	12	11	11	10
2700	38	31	27	24	21	19	17	16	15	13	13	12	11	10
2600	39	33	28	25	22	20	18	16	15	14	13	12	12	11
2500	44	37	31	27	24	22	20	18	17	16	15	14	13	11
2400	46	38	33	29	25	23	21	19	18	16	15	14	13	12
2300	48	40	34	30	27	24	22	20	18	17	16	15	14	12
2200	50	42	36	31	28	25	23	21	19	18	17	16	15	13
2100	50	44	37	33	29	26	24	22	20	19	17	16	15	13
2000	50	46	39	34	31	27	25	23	21	20	18	17	16	14
1900	50	48	41	36	32	29	26	24	22	21	19	18	16	14
1800	50	50	44	38	34	31	28	25	23	22	20	18	16	14
1700	50	50	46	40	36	32	29	27	25	23	21	18	16	14
1600	50	50	49	43	38	34	31	29	26	24	21	18	16	14
1500	50	50	50	46	41	37	33	31	27	24	21	18	16	14
1400	50	50	50	49	44	39	36	32	27	24	21	18	16	
1300	50	50	50	50	47	42	38	32	27	24	21	18		
1200	50	50	50	50	50	46	38	32	27	24	21			
1100	50	50	50	50	50	46	38	32	27	24				
1000	50	50	50	50	50	46	38	32	27					
900	50	50	50	50	50	46	38	32						
800	50	50	50	50	50	46	38							
700	50	50	50	50	50	46								
600														
350														

Table of maximum load capacity [kg]

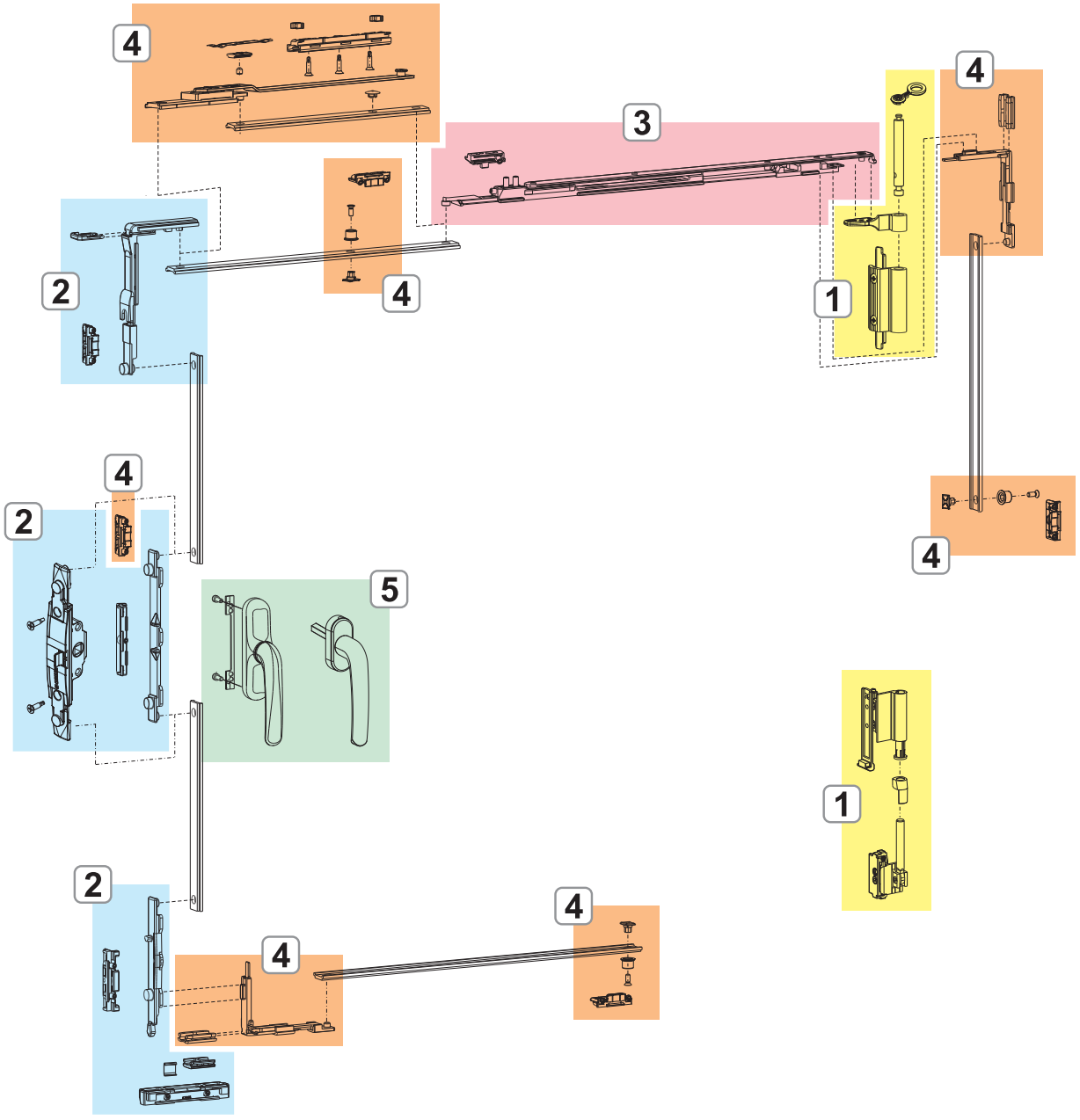
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
3000	130	130	130	130	130	130	130	130	130	130	130	130	130	
2900	130	130	130	130	130	130	130	130	130	130	130	130	130	130
2800	130	130	130	130	130	130	130	130	130	130	130	130	130	130
2700	130	130	130	130	130	130	130	130	130	130	130	130	130	130
2600	130	130	130	130	130	130	130	130	130	130	130	130	130	130
2500	140	140	140	140	140	140	140	140	140	140	140	140	140	130
2400	140	140	140	140	140	140	140	140	140	140	140	140	140	130
2300	140	140	140	140	140	140	140	140	140	140	140	140	140	130
2200	140	140	140	140	140	140	140	140	140	140	140	140	140	130
2100	140	140	140	140	140	140	140	140	140	140	140	140	140	130
2000	140	140	140	140	140	140	140	140	140	140	140	140	139	125
1900	140	140	140	140	140	140	140	140	140	140	140	140	132	118
1800	140	140	140	140	140	140	140	140	140	140	140	133	125	112
1700	140	140	140	140	140	140	140	140	140	140	134	126	118	118
1600	140	140	140	140	140	140	140	140	140	135	126	118	111	105
1500	140	140	140	140	140	140	140	140	137	127	118	111	104	99
1400	140	140	140	140	140	140	140	138	127	118	110	104	97	
1300	140	140	140	140	140	140	140	128	118	110	103	96		
1200	140	140	140	140	140	140	129	118	109	101	95			
1100	140	140	140	140	140	130	118	108	100	93				
1000	140	140	140	140	131	118	108	99	91					
900	140	140	140	133	118	106	97	89						
800	140	140	135	118	105	95	86							
700	140	138	118	104	92	83								
600														
350														

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FUTURA 3D 130

FUTURA 3D 130 micro

Futura 3D 130 traditional



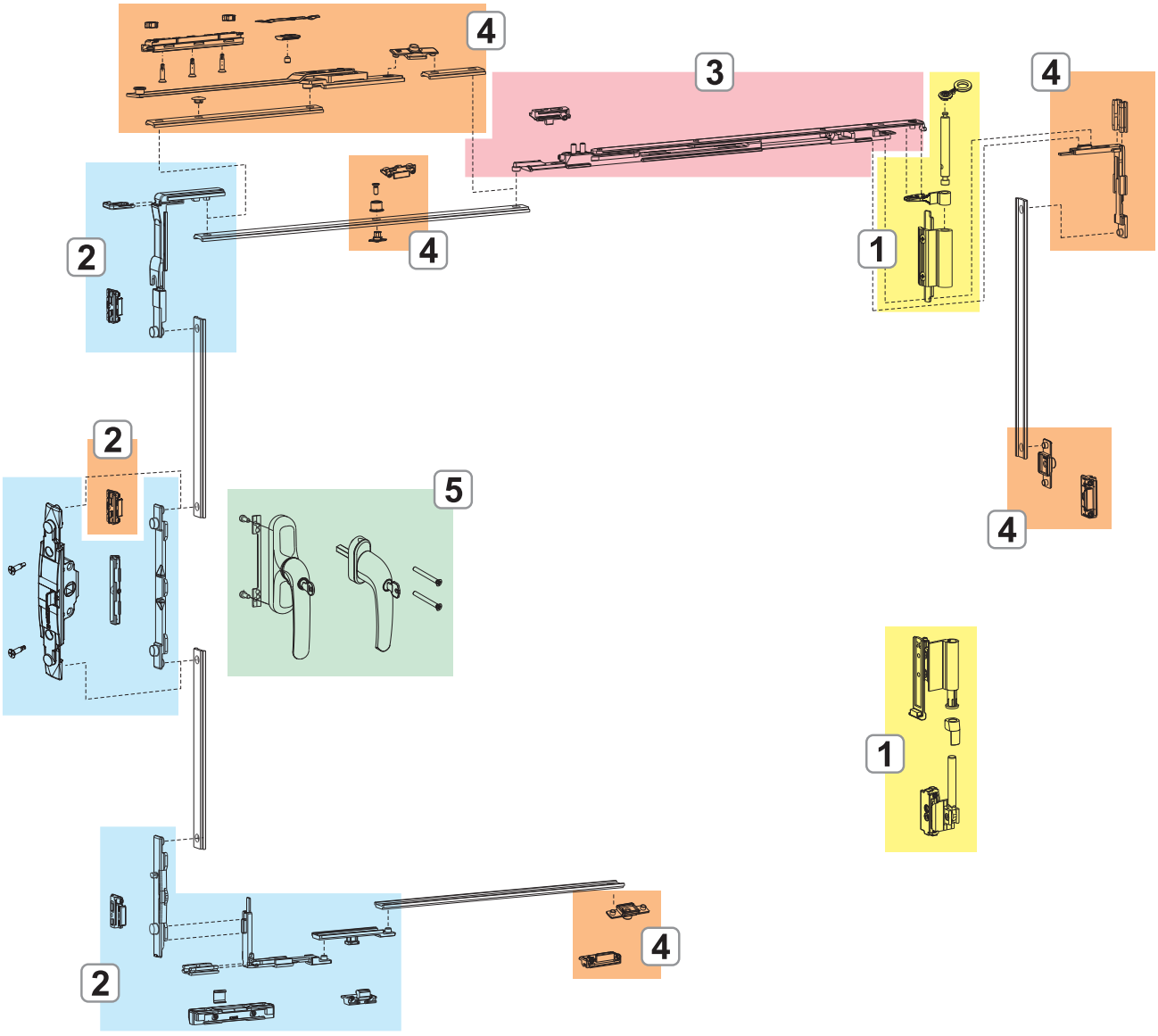
1. FUTURA 3D 130 HINGES
2. FUTURA 3D 130 FASTENING MECHANISMS
3. FUTURA 3D 130 ARMS
4. FUTURA 3D 130 ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES
5. CREMONES AND WINDOW HANDLES

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FUTURA 3D 130 lgc

FUTURA 3D 130 micro lgc

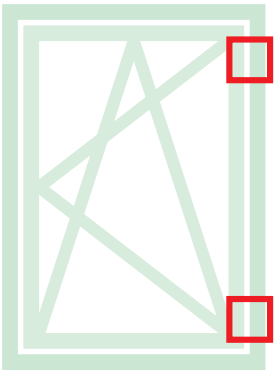
Futura 3D 130 logica



1. FUTURA 3D 130 HINGES
2. FUTURA 3D 130 FASTENING MECHANISMS
3. FUTURA 3D 130 ARMS
4. FUTURA 3D 130 ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES
5. CREMONES AND WINDOW HANDLES

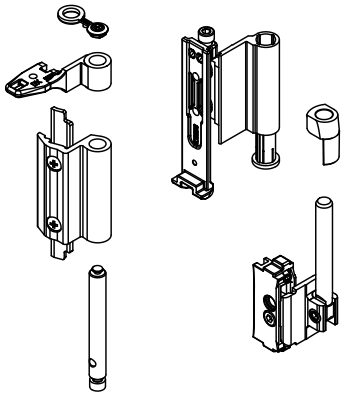
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FUTURA 3D 130 HINGES

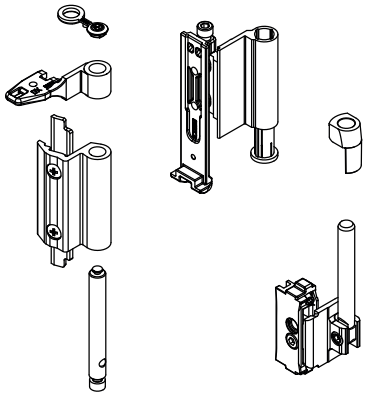


Hinge set (upper and lower), completely pre-assembled and ready to be installed on the profile.
Body of hinges in extruded aluminium and brass.
Supports in zamak with GS Silver Plus finish (up to 500 hr corrosion resistance).
Pins, screws and grub screws in stainless steel.

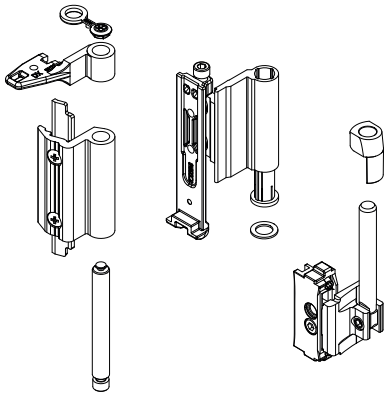
04711



04711010



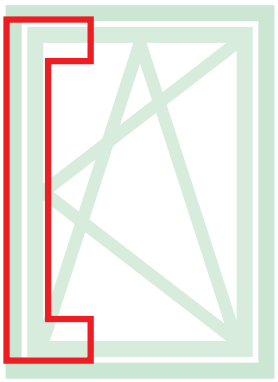
04756N



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04711	HINGE T/T FUTURA 130	C001-C002-C005-C006	X		X	X	10
04711010	HINGE T/T FUTURA 130	C003	X		X		10
04756N	HINGE T/T FUTURA 130	C004	X		X	X	10

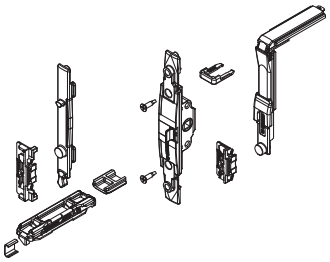
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FUTURA 3D 130 FASTENING MECHANISMS

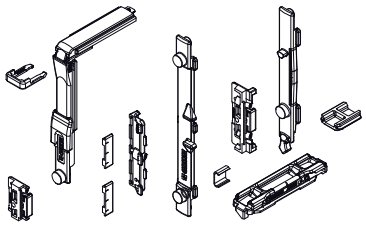


Tilt-and-turn window fastening mechanisms for cremone or window handle, available in Base and Logica versions
Drive, drive rod, mechanism bolt tip and strikers in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance).
Screws and grub screws in stainless steel.
Polyamide raiser.

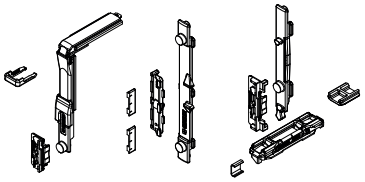
04705N



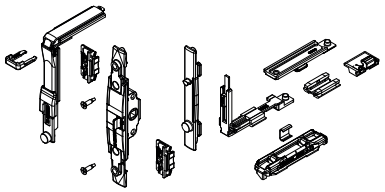
04704



04704010



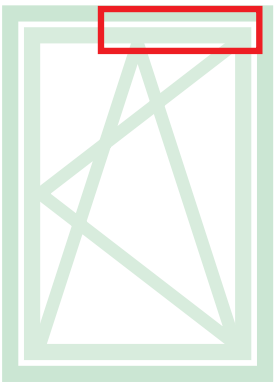
04707V



Item code	Description	PROFILE CROSS - SECTION	Window handle	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04704	T/T FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Cremone	-	X				10
04704010	T/T FASTENING MECHANISM	C003	Cremone	-	X				10
04705N	T/T M 180 FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle	-	X				10
04707V	T/T M 180 LOGICA FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle	Logica	X				10

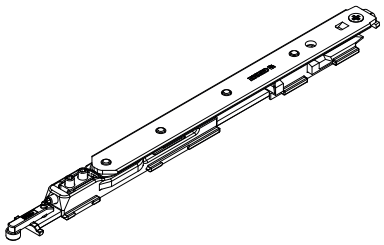
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FUTURA 3D 130 ARMS

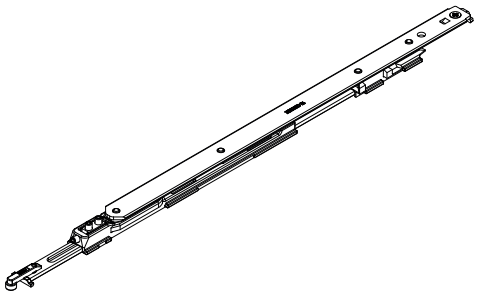


They enable tilt-and-turn opening in conjunction with the mechanisms and are available in three versions (standard, microventilation and logic).
Body, fixing block and slider in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance).
Rod, connecting bracket, grub screws and screws in stainless steel.
Stop disk in polyamide.

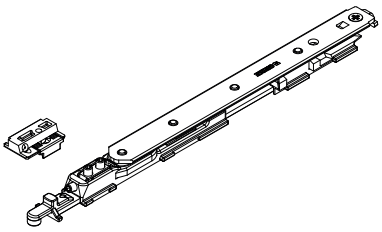
04202



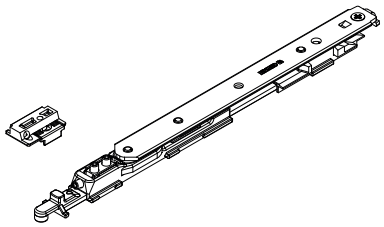
04203



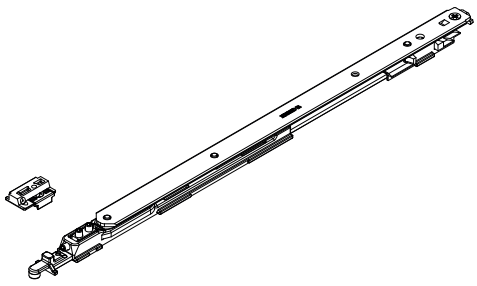
04344



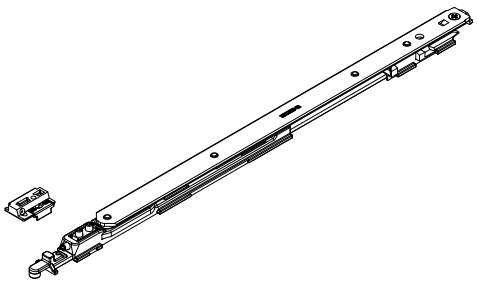
04284



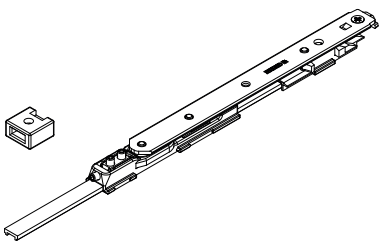
04285



04345

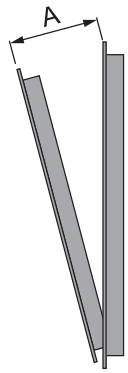


04353



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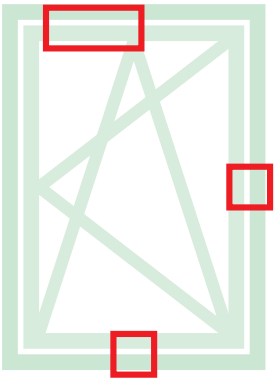
Sash opening



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Version	A (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04202	ARM TYPE 1 T/T FUTURA LOGICA 130	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	W 390 ÷ 700	Logica	120					10
04203	ARM TYPE 2 T/T FUTURA LOGICA 130	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	W 701 ÷ 1800	Logica	175					10
04284	ARM T1 130 WITH MICROVENTI-LATION	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	W 410 ÷ 700	Micro	120					10
04285	ARM T2 130 WITH MICROVENTI-LATION	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	W 701 ÷ 1800	Micro	175					10
04344	ARM T1 130 MICROVENTILATION LOGIC	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	W 410 ÷ 700	Logica Micro	120					10
04345	ARM T2 130 MICROVENTILATION LOGIC	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	W 701 ÷ 1800	Logica Micro	175					10
04353	ARM TYPE 0 T/T FUTURA 130	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	W 350 ÷ 410	-	120					10

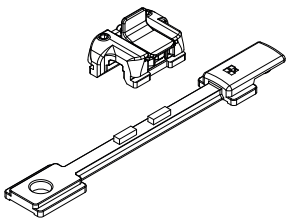
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FUTURA 3D 130 ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES

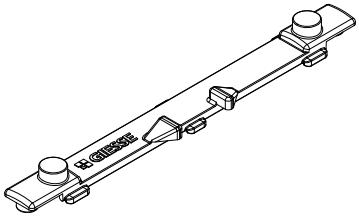


The additional fasteners make it possible to add further fastening elements that either increase the dimensions of the casement or that can be used when locking points are needed on the cross beams or hinge-side upright.
On the basis of the dimensions of the casement, additional fasteners (for H>1200 mm and W>1000 mm) and the additional arm (which is mandatory for W>1000 mm) are to be used in combination with this mechanism.

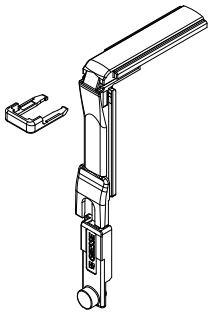
01299



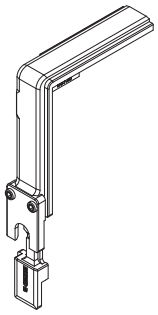
04014K



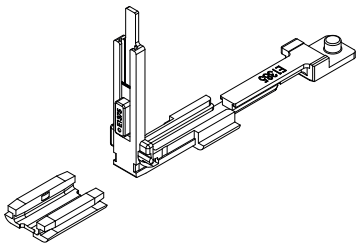
04019K



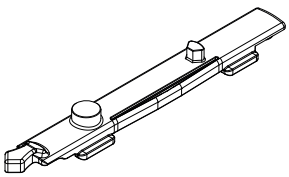
04020K



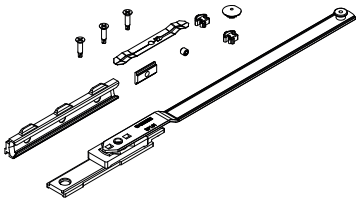
04024K



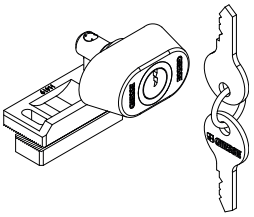
04026K



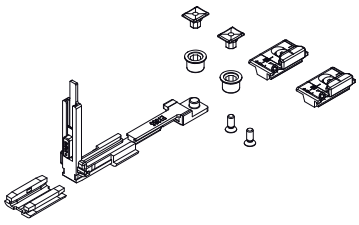
04301K



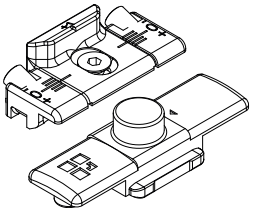
04311



04770K



04777K

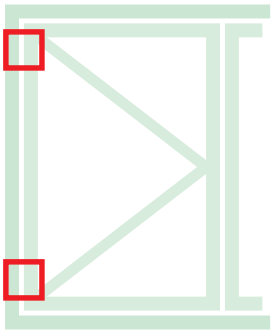


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Item code	Description	Interface type	Range (mm)	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01299	INCORRECT MOVEMENT SAFETY DEVICE	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	H > 620 HC > 250	-	X				10
04014K	FUTURA T/T DRIVE ROD	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	-	-	X				10
04019K	CORNER DRIVE GROOVE 15/20 FUTURA	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C015-C016-C017	-	-	X				10
04020K	FUTURA CORNER DRIVE	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	-	-	X				50
04024K	CORNER DRIVE FOR FUTURA BURGLAR-PROOF FUNCTION	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	-	-	X				10
04026K	FUTURA T/T BOLT TIP	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	-	-	X				10
04301K	T/T FUTURA ADDITIONAL ARM	C001-C002-C003-C004-C005-C006	W > 1000	-	X				5
04311	SASH OPENING BLOCK LOCK	C001-C002-C003-C004-C005-C006-C007-C013-C014-C015-C016-C017	-	-	X				10
04770K	FUTURA ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	H > 1200 L > 1000	-	X				10
04777K	FUTURA ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	H > 1200 L > 1000	Logica	X				50

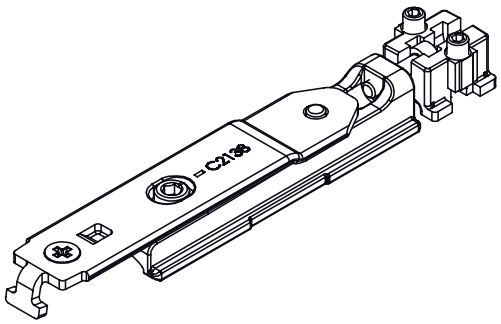
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FUTURA 3D 130 SECONDARY SASH



FUTURA 3D 130 features specific hinges for the secondary sash, with the same styling line and the same adjustments.
Body of hinges in extruded aluminium and brass.
Supports in zamak with GS Silver Plus finish (up to 500 hr corrosion resistance).
Pins, screws and grub screws in stainless steel.

04728



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04728	FUTURA 3D 130 SECONDARY SASH ADAPTER	C001-C002-C003-C004-C005-C006	X				10

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CONFIGURATION EXAMPLES

FUTURA 3D 130

Basic configuration with Cremone

Sash width	350 ÷ 389	390 ÷ 700	701 ÷ 1000	1001 ÷ 1800
Hinges	04711 - 04711010 - 04756N	04711 - 04711010 - 04756N	04711 - 04711010 - 04756N	04711 - 04711010 - 04756N
Mecha-nism	04704 - 04704010	04704 - 04704010	04704 - 04704010	04704 - 04704010
Arm	04353	04200	04201	04201
Addition-al arm	-	-	-	04301K
Cremone	01033K - 01090K	01033K - 01090K	01033K - 01090K	01033K - 01090K

Basic configuration with window handle

Sash width	350 ÷ 389	390 ÷ 700	701 ÷ 1000	1001 ÷ 1800
Hinges	04711 - 04711010 - 04756N	04711 - 04711010 - 04756N	04711 - 04711010 - 04756N	04711 - 04711010 - 04756N
Mecha-nism	04705N	04705N	04705N	04705N
Arm	04353	04200	04201	04201
Addition-al arm	-	-	-	04301K
Window handle	02476 - 02415 - 00997	02476 - 02415 - 00997	02476 - 02415 - 00997	02476 - 02415 - 00997

Basic configuration with NP Supra

Sash width	350 ÷ 389	390 ÷ 700	701 ÷ 1000	1001 ÷ 1800
Hinges	04711 - 04711010 - 04756N	04711 - 04711010 - 04756N	04711 - 04711010 - 04756N	04711 - 04711010 - 04756N
Mecha-nism	0395501	0395501	0395501	0395501
Arm	04353	04200	04201	04201
Addition-al arm	-	-	-	04301K
NP Supra	03962 - 03963	03962 - 03963	03962 - 03963	03962 - 03963

Micro configuration with Cremone

Sash width	410 ÷ 700	701 ÷ 1000	1001 ÷ 1800
Hinges	04711 - 04711010 - 04756N	04711 - 04711010 - 04756N	04711 - 04711010 - 04756N
Mechanism	04704 - 04704010	04704 - 04704010	04704 - 04704010
Arm	04284	04285	04285
Additional arm	-	-	04301K
Cremone	01039 - 01094	01039 - 01094	01039 - 01094

Micro configuration with window handle

Sash width	410 ÷ 700	701 ÷ 1000	1001 ÷ 1800
Hinges	04711 - 04711010 - 04756N	04711 - 04711010 - 04756N	04711 - 04711010 - 04756N
Mechanism	04705N	04705N	04705N
Arm	04284	04285	04285
Additional arm	-	-	04301K
Window handle	02476 - 02415 - 00997	02476 - 02415 - 00997	02476 - 02415 - 00997

Micro configuration with NP Supra

Sash width	410 ÷ 700	701 ÷ 1000	1001 ÷ 1800
Hinges	04711 - 04711010 - 04756N	04711 - 04711010 - 04756N	04711 - 04711010 - 04756N
Mechanism	0395501	0395501	0395501
Arm	04284	04285	04285
Additional arm	-	-	04301K
NP Supra	03962 - 03963	03962 - 03963	03962 - 03963

Logica configuration with Cremone

Sash width	390 ÷ 700	701 ÷ 1000	1001 ÷ 1800
Hinges	04711 - 04711010 - 04756N	04711 - 04711010 - 04756N	04711 - 04711010 - 04756N
Mechanism	04706N - 04706010N	04706N - 04706010N	04706N - 04706010N
Arm	04202	04203	04203
Additional arm	-	-	04301K
Cremone	01192 - 01193	01192 - 01193	01192 - 01193

Logica configuration with window handle

Sash width	390 ÷ 700	701 ÷ 1000	1001 ÷ 1800
Hinges	04711 - 04711010 - 04756N	04711 - 04711010 - 04756N	04711 - 04711010 - 04756N
Mechanism	04707V	04707V	04707V
Arm	04202	04203	04203
Additional arm	-	-	04301K
Window handle	02486	02486	02486

Logica micro configuration with Cremone

Sash width	410 ÷ 700	701 ÷ 1000	1001 ÷ 1800
Hinges	04711 - 04711010 - 04756N	04711 - 04711010 - 04756N	04711 - 04711010 - 04756N
Mechanism	04706N - 04706010N	04706N - 04706010N	04706N - 04706010N
Arm	04344	04345	04345
Additional arm	-	-	04301K
Cremone	01194 - 01195	01194 - 01195	01194 - 01195

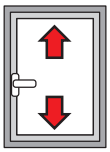
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FUTURA 3D 170 HP Invisible

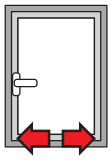
FUTURA 3D 170 HP Invisible lgc

FUTURA 3D 170 HP Invisible micro

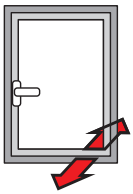
ADJUSTMENTS [mm]



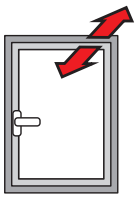
Height:
+1.5 / -0.5



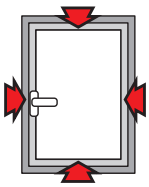
Side:
±1



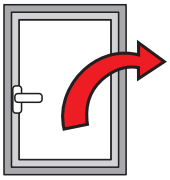
Bottom hinge compression:
±0.3



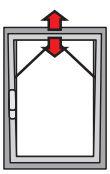
Top hinge compression:
±1.5



Striker compression:
±1.8



Sash fall:
+3.5 / -1.5



Micro-ventilation:
+3.6 / -1.8

FUTURA 3D 170 HP INVISIBLE

Functions

Complete system for the construction of tilt-and-turn windows with load capacities of up to 170 kg. Available in the standard, logic and microventilation versions.

Technical Features

Making a FUTURA 3D 170 HP Invisible tilt-and-turn window mechanism requires:
- Hinges and arms kit
- Set of fastening mechanisms for Cremones and window handles
- Cremone or window handle (available in different models to choose from in the specific catalogue section)

Possible load capacities and sizes

The adjustments are micrometric and indipendent.

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Table of maximum glass thickness [mm]
(weight less than 130 kg)

	430	500	550	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
2500	43	39	36	31	27	24	22	20	18	17	15	14	14	13	
2400	45	41	38	32	28	25	23	21	19	17	16	15	14	13	
2300	47	43	39	34	30	26	24	21	20	18	17	16	15	14	
2200	50	45	41	35	31	28	25	23	21	19	18	17	15	15	
2100	50	47	43	37	33	29	26	24	22	20	19	17	16	15	
2000	50	50	46	39	34	30	27	25	23	21	20	18	17	16	
1900	50	50	48	41	36	32	29	26	24	22	21	19	18	17	
1800	50	50	50	44	38	34	31	28	25	24	22	20	19	18	
1700	50	50	50	46	41	36	33	30	27	25	23	22	20	19	
1600	50	50	50	50	43	39	35	32	29	27	25	23	22	19	
1500	50	50	50	50	46	41	37	34	31	29	27	25	22	19	
1400	50	50	50	50	50	44	40	36	33	31	29	25	22	19	
1300	50	50	50	50	50	48	43	39	36	33	29	25	22		
1200	50	50	50	50	50	50	47	43	39	33	29	25			
1100	50	50	50	50	50	50	50	47	39	33	29				
1000	50	50	50	50	50	50	50	47	39	33					
900	50	50	50	50	50	50	50	47	39						
800	50	50	50	50	50	50	50	47							
700	50	50	50	50	50	50	50								
600															

Table of maximum glass thickness [mm]
(weight up to 170 kg)

	430	500	550	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
2500	43	39	47	40	35	31	28	26	24	22	20	19	18	17	
2400	45	41	49	42	37	33	30	27	25	23	21	20	18	17	
2300	47	43	50	44	39	34	31	28	26	24	22	21	19	18	
2200	50	45	50	46	40	36	32	29	27	25	23	22	20	19	
2100	50	47	50	49	43	38	34	31	28	26	24	23	21	19	
2000	50	50	50	50	45	40	36	33	30	28	26	24	22	19	
1900	50	50	50	50	47	42	38	34	31	29	27	25	22	19	
1800	50	50	50	50	50	44	40	36	33	31	29	25	22	19	
1700	50	50	50	50	50	47	43	39	35	33	29	25	22	19	
1600	50	50	50	50	50	50	45	41	38	33	29	25	22	19	
1500	50	50	50	50	50	50	49	44	39	33	29	25	22	19	
1400	50	50	50	50	50	50	50	47	39	33	29	25	22	19	
1300	50	50	50	50	50	50	50	47	39	33	29	25	22		
1200	50	50	50	50	50	50	50	47	39	33	29	25			
1100	50	50	50	50	50	50	50	47	39	33	29				
1000	50	50	50	50	50	50	50	47	39	33					
900	50	50	50	50	50	50	50	47	39						
800	50	50	50	50	50	50	50	47							
700	50	50	50	50	50	50	50								
600															

Table of maximum load capacity [kg]
(weight less than 130 kg)

	430	500	550	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
2500	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
2400	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
2300	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
2200	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
2100	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
2000	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
1900	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
1800	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
1700	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
1600	130	130	130	130	130	130	130	130	130	130	130	130	130	122	
1500	130	130	130	130	130	130	130	130	130	130	130	130	121	114	
1400	130	130	130	130	130	130	130	130	130	130	130	121	113	106	
1300	130	130	130	130	130	130	130	130	130	130	120	111	104		
1200	130	130	130	130	130	130	130	130	130	119	110	102			
1100	130	130	130	130	130	130	130	130	118	108	100				
1000	130	130	130	130	130	130	130	117	106	98					
900	130	130	130	130	130	130	116	104	95						
800	130	130	130	130	130	114	101	91							
700	130	130	130	130	111	98	87								
600															

Table of maximum load capacity [kg]
(weight up to 170 kg)

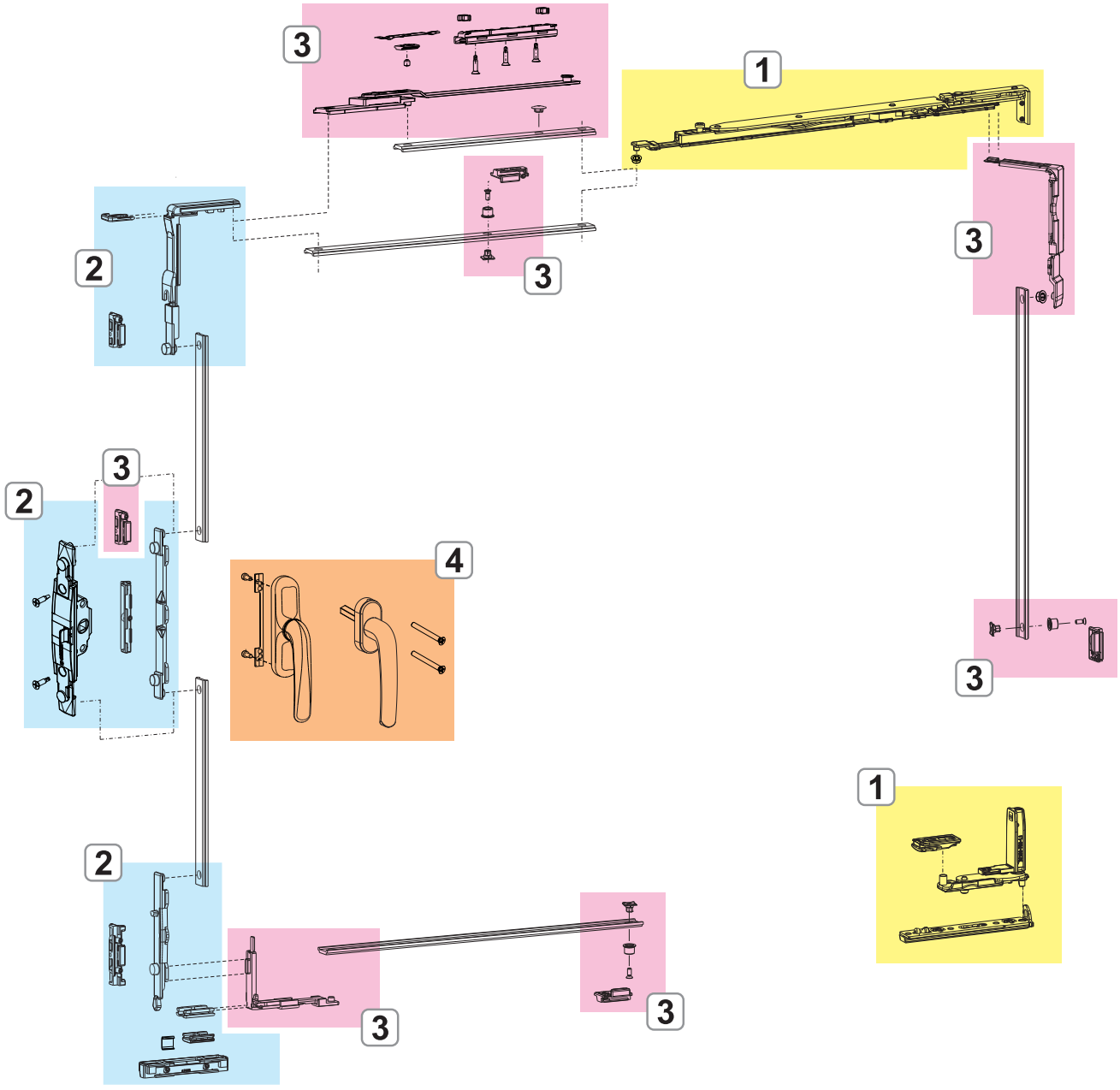
	430	500	550	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
2500	130	130	170	170	170	170	170	170	170	170	170	170	170	170	
2400	130	130	170	170	170	170	170	170	170	170	170	170	170	170	
2300	130	130	170	170	170	170	170	170	170	170	170	170	170	170	
2200	130	130	170	170	170	170	170	170	170	170	170	170	170	170	
2100	130	130	170	170	170	170	170	170	170	170	170	170	170	163	
2000	130	130	170	170	170	170	170	170	170	170	170	170	165	154	
1900	130	130	170	170	170	170	170	170	170	170	170	167	156	146	
1800	130	130	170	170	170	170	170	170	170	170	170	158	147	138	
1700	130	130	170	170	170	170	170	170	170	170	160	149	139	130	
1600	130	130	170	170	170	170	170	170	170	163	150	139	130	122	
1500	130	130	170	170	170	170	170	170	165	152	140	130	121	114	
1400	130	130	170	170	170	170	170	169	154	141	130	121	113	106	
1300	130	130	170	170	170	170	170	156	142	130	120	111	104		
1200	130	130	170	170	170	170	159	143	130	119	110	102			
1100	130	130	170	170	170	163	144	130	118	108	100				
1000	130	130	170	170	167	146	130	117	106	98					
900	130	130	170	170	149	130	116	104	95						
800	130	130	165	152	130	114	101	91							
700	130	130	142	130	111	98	87								
600															

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FUTURA 3D 170 HP Invisible

FUTURA 3D 170 HP Invisible micro

Futura 3D 170 HP Invisible traditional

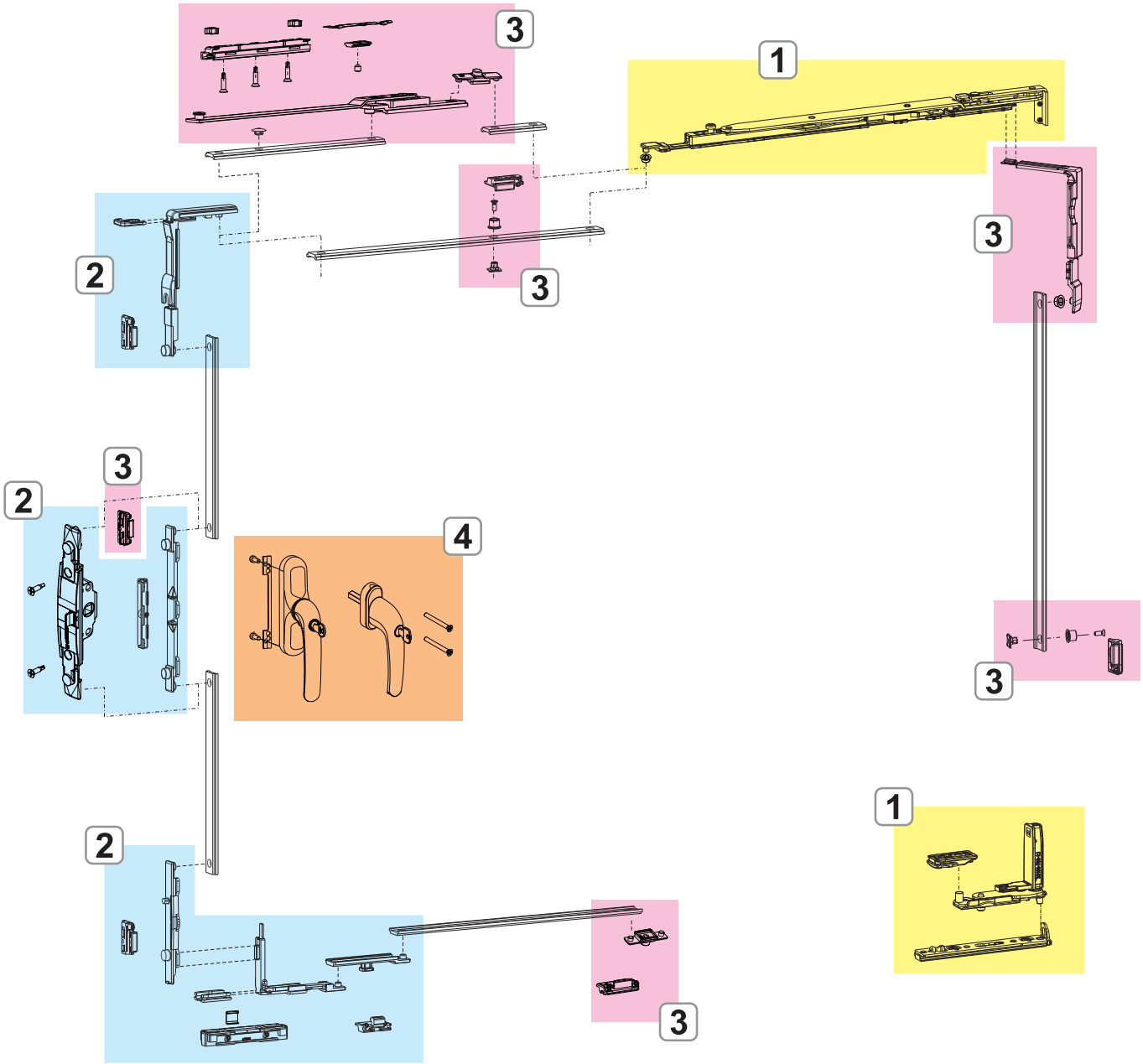


1. FUTURA 3D 170 HP INVISIBLE HINGES AND ARMS
2. FUTURA 3D 170 HP INVISIBLE FASTENING MECHANISMS
3. FUTURA 3D 170 HP INVISIBLE ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES
4. CREMONES AND WINDOW HANDLES

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FUTURA 3D
170 HP Invisible lgc

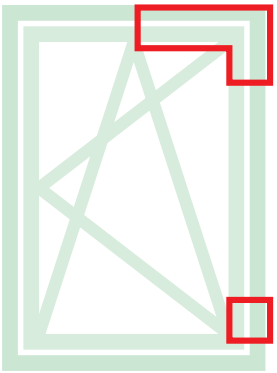
Futura 3D 170 HP Invisible logica



1. FUTURA 3D 170 HP INVISIBLE HINGES AND ARMS
2. FUTURA 3D 170 HP INVISIBLE FASTENING MECHANISMS
3. FUTURA 3D 170 HP INVISIBLE ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES
4. CREMONES AND WINDOW HANDLES

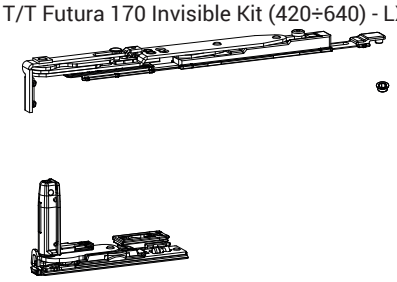
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FUTURA 3D 170 HP INVISIBLE HINGES AND ARMS

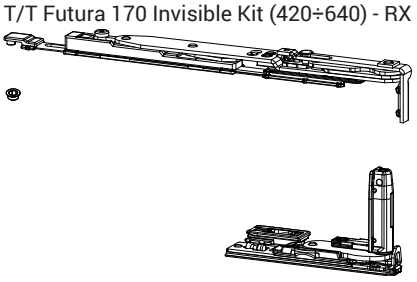


Hinges (upper and lower) and arm kit, completely pre-assembled and ready to be installed on the profile.
Body of hinges and arms in stainless steel and zamak.
Rod, connecting bracket, pins, screws and grub screws in stainless steel.

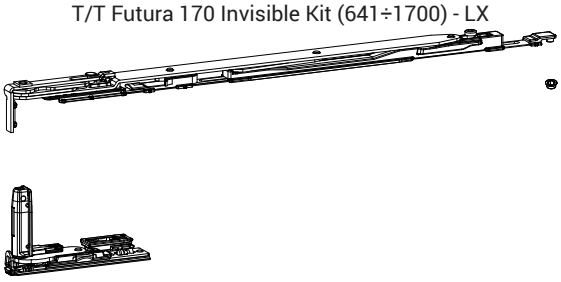
T/T Futura 170 Invisible Kit (420÷640) - LX



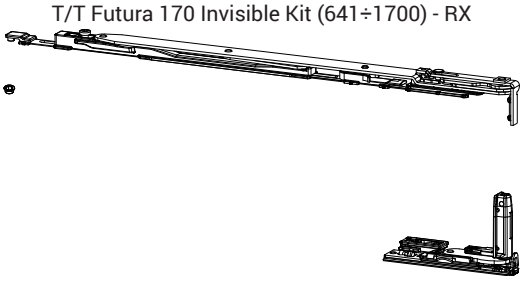
T/T Futura 170 Invisible Kit (420÷640) - RX



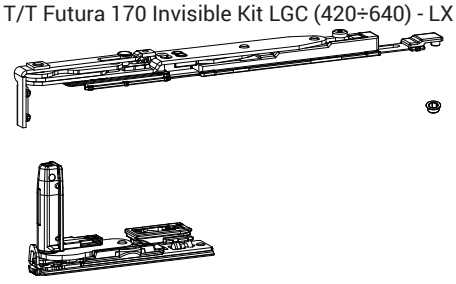
T/T Futura 170 Invisible Kit (641÷1700) - LX



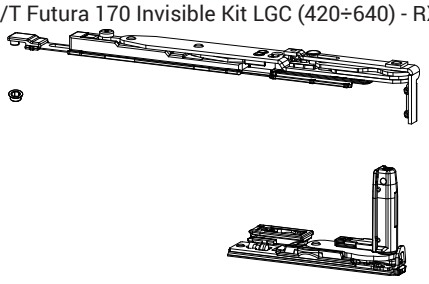
T/T Futura 170 Invisible Kit (641÷1700) - RX



T/T Futura 170 Invisible Kit LGC (420÷640) - LX



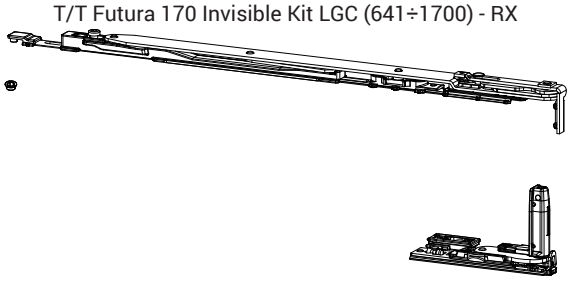
T/T Futura 170 Invisible Kit LGC (420÷640) - RX



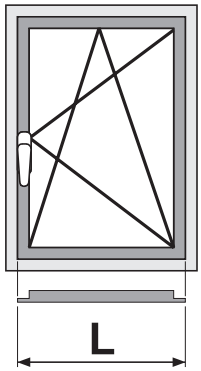
T/T Futura 170 Invisible Kit LGC (641÷1700) - LX



T/T Futura 170 Invisible Kit LGC (641÷1700) - RX



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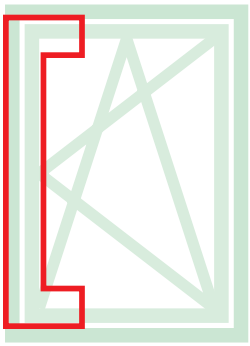


Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Version	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
042061	T/T FUTURA 170 INVISIBLE KIT	C001	W 430 ÷ 640	-	RX	X				5
042062	T/T FUTURA 170 INVISIBLE KIT	C001	W 430 ÷ 640	-	LX	X				5
042071	T/T FUTURA 170 INVISIBLE KIT	C001	W 641 ÷ 1700	-	RX	X				5
042072	T/T FUTURA 170 INVISIBLE KIT	C001	W 641 ÷ 1700	-	LX	X				5
042081	AR FUTURA 170 INVISIBLE LGC KIT	C001	W 430 ÷ 640	Logica	RX	X				5
042082	AR FUTURA 170 INVISIBLE LGC KIT	C001	W 430 ÷ 640	Logica	LX	X				5
042091	AR FUTURA 170 INVISIBLE LGC KIT	C001	W 641 ÷ 1700	Logica	RX	X				5
042092	AR FUTURA 170 INVISIBLE LGC KIT	C001	W 641 ÷ 1700	Logica	LX	X				5
042131	T/T FUTURA 170 INVISIBLE KIT	C003	W 641 ÷ 1700	-	RX	X				5
042132	T/T FUTURA 170 INVISIBLE KIT	C003	W 641 ÷ 1700	-	LX	X				5

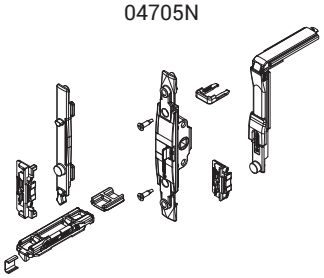
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FUTURA 3D 170 HP INVISIBLE FASTENING MECHANISMS

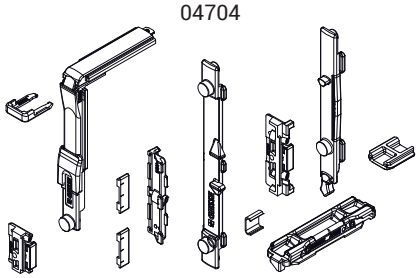
Tilt-and-turn window fastening mechanisms for cremone or window handle, available in Base and Logica versions.
Drive, drive rod, mechanism bolt tip and strikers in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance).
Screws and grub screws in stainless steel.
Polyamide raiser.



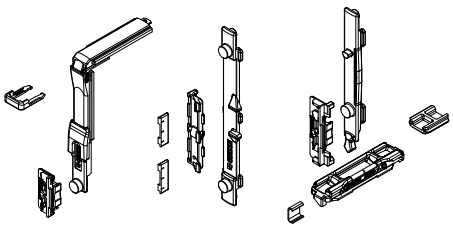
04705N



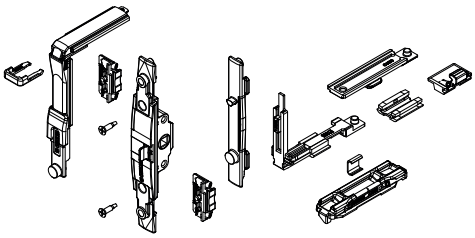
04704



04704010



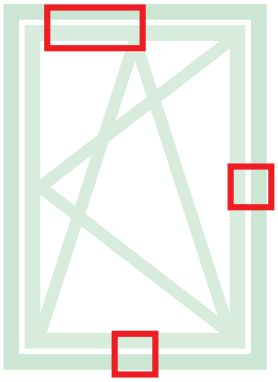
04707V



Item code	Description	PROFILE CROSS - SECTION	Window handle	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03955	T/T FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	NP SUPRA	-	X				10
04704	T/T FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Cremone	-	X				10
04704010	T/T FASTENING MECHANISM	C003	Cremone	-	X				10
04705N	T/T M 180 FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle	-	X				10
04707V	T/T M 180 LOGICA FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle	Logica	X				10

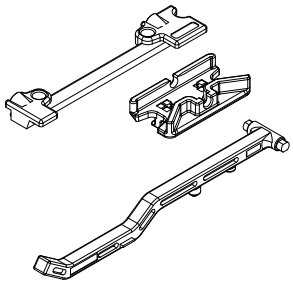
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FUTURA 3D 170 HP INVISIBLE ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES

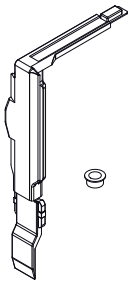


The FUTURA 3D 170 HP Invisible tilt-and-turn window has a basic load capacity of 130 kg, to obtain a maximum load capacity of 170 kg you need to use the reinforcement set. This product is designed for sash profiles with a smooth channel. In the case of profiles with a machined channel, shims of 1.5 mm and 2 mm must be used.
The additional fasteners make it possible to add further fastening elements that either increase the dimensions of the casement or that can be used when locking points are needed on the cross beams or hinge-side upright.
On the basis of the dimensions of the casement, additional fasteners (for H>1200 mm and W>1000 mm) and the additional arm (which is mandatory for W>1000 mm) are to be used in combination with this mechanism.
The micro-ventilation device can be fitted at any time, even after the window is installed. When activated with the cremone at 180° there is micro-ventilation (precision sash opening), when it is not activated, with the cremone at 180° there is tilt-and-turn opening.

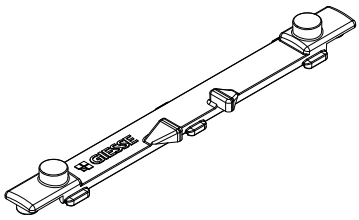
02234K



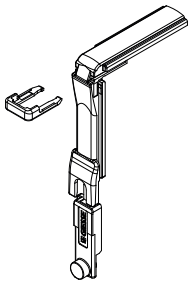
04012



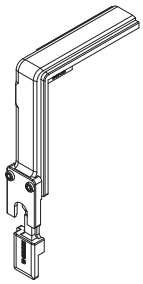
04014K



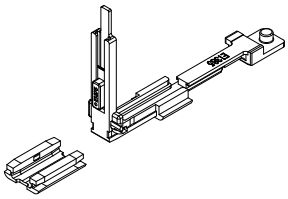
04019K



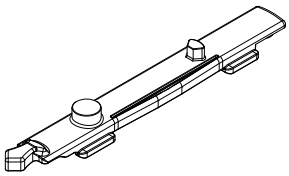
04020K



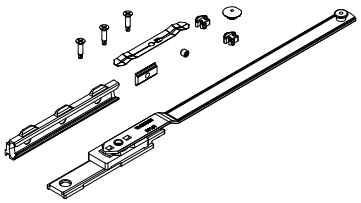
04024K



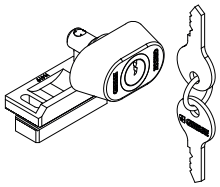
04026K



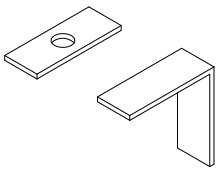
04301K



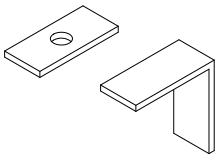
04311



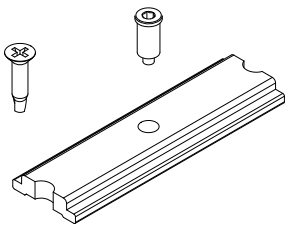
04406



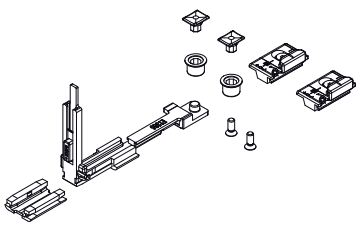
04407



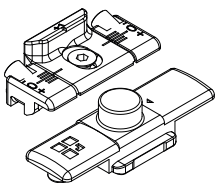
04409



04770K

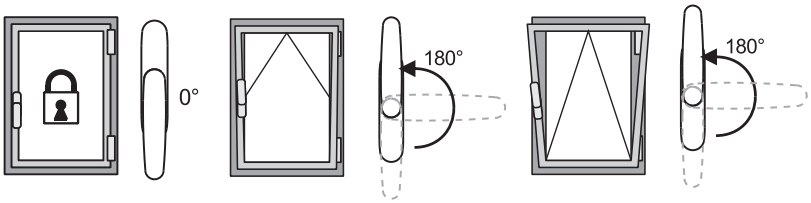


04777K



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Micro-ventilation

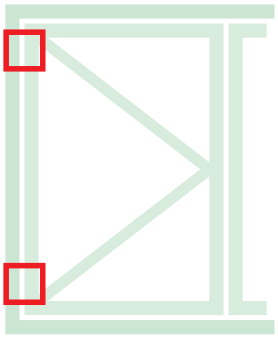


Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02234K	MICRO-VENTILATION DEVICE	C001-C002-C003	-	Micro	X				25
04012	CORNER DRIVE FOR FUTURA 170HP INVISIBLE	C001-C002-C003	H > 1200	-	X				10
04014K	FUTURA T/T DRIVE ROD	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	-	-	X				10
04019K	CORNER DRIVE GROOVE 15/20 FUTURA	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C015-C016-C017	-	-	X				10
04020K	FUTURA CORNER DRIVE	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	-	-	X				50
04024K	CORNER DRIVE FOR FUTURA BURGLAR-PROOF FUNCTION	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	-	-	X				10
04026K	FUTURA T/T BOLT TIP	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	-	-	X				10
04301K	T/T FUTURA ADDITIONAL ARM	C001-C002-C003-C004-C005-C006	W > 1000	-	X				5
04311	SASH OPENING BLOCK LOCK	C001-C002-C003-C004-C005-C006-C007-C013-C014-C015-C016-C017	-	-	X				10
04406	SHIMS FOR FUTURA 3D 170 HP INVISIBLE	C001-C002-C003	1,5	-	X				10
04407	SHIMS FOR FUTURA 3D 170 HP INVISIBLE	C001-C002-C003	2	-	X				10
04409	REINFORCEMENT FOR FUTURA 170 HP INVISIBLE	C001-C002	130 -> 170 Kg	-	X				10
04770K	FUTURA ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	H > 1200 L > 1000	-	X				10
04777K	FUTURA ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	H > 1200 L > 1000	Logica	X				50

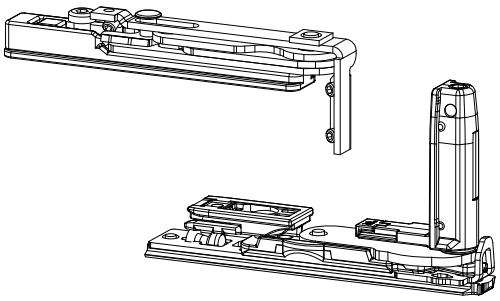
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FUTURA 3D 170 HP INVISIBLE SECONDARY SASH

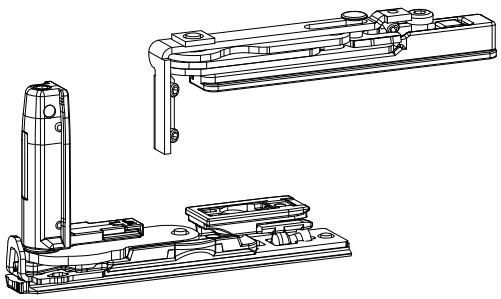
FUTURA 3D 170 HP Invisible features specific hinges for the secondary sash, with the same retractable styling line and the same adjustments.
Body of hinges in stainless steel and zamak.
Pins, screws and grub screws in stainless steel.



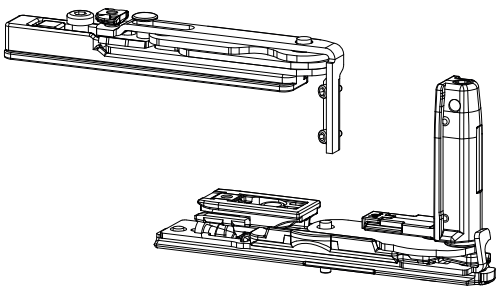
044001



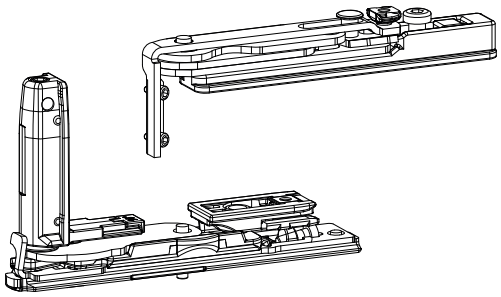
044002



044011



044012



Item code	Description	PROFILE CROSS - SECTION	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
044001	INVISIBLE SECONDARY SASH HINGE KIT	C001	RX	X				10
044002	INVISIBLE SECONDARY SASH HINGE KIT	C001	LX	X				10
044011	INVISIBLE SECONDARY SASH HINGE KIT	C003	RX	X				10
044012	INVISIBLE SECONDARY SASH HINGE KIT	C003	LX	X				10

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CONFIGURATION EXAMPLES

FUTURA 3D 170 HP INVISIBLE

Basic configuration with Cremone

Sash width	430 ÷ 640	641 ÷ 1000	1001 ÷ 1700
Hinges and arm	04206 - 04212 - 04235	04207 - 04213 - 04236	04207 - 04213 - 04236
Mechanism	04704 - 04704010	04704 - 04704010	04704 - 04704010
Additional arm	-	-	04301K
Cremone	01033K - 01090K	01033K - 01090K	01033K - 01090K

Basic configuration with window handle

Sash width	430 ÷ 640	641 ÷ 1000	1001 ÷ 1700
Hinges and arm	04206 - 04212 - 04235	04207 - 04213 - 04236	04207 - 04213 - 04236
Mechanism	04705N	04705N	04705N
Additional arm	-	-	04301K
Window handle	02476 - 02415 - 00997	02476 - 02415 - 00997	02476 - 02415 - 00997

Micro configuration with Cremone

Sash width	430 ÷ 640	641 ÷ 1000	1001 ÷ 1700
Hinges and arm	04206 - 04212 - 04235	04207 - 04213 - 04236	04207 - 04213 - 04236
Mechanism	04704 - 04704010	04704 - 04704010	04704 - 04704010
Micro-ventilation	02234K	02234K	02234K
Additional arm	-	-	04301K
Cremone	01033K - 01090K	01033K - 01090K	01033K - 01090K

Micro configuration with window handle

Sash width	430 ÷ 640	641 ÷ 1000	1001 ÷ 1700
Hinges and arm	04206 - 04212 - 04235	04207 - 04213 - 04236	04207 - 04213 - 04236
Mechanism	04705N	04705N	04705N
Micro-ventilation	02234K	02234K	02234K
Additional arm	-	-	04301K
Window handle	02476 - 02415 - 00997	02476 - 02415 - 00997	02476 - 02415 - 00997

Micro configuration with NP Supra

Sash width	430 ÷ 640	641 ÷ 1000	1001 ÷ 1700
Hinges and arm	04206 - 04212 - 04235	04207 - 04213 - 04236	04207 - 04213 - 04236
Mechanism	0395501	0395501	0395501
Micro-ventilation	02234K	02234K	02234K
Additional arm	-	-	04301K
NP Supra	03962 - 03963	03962 - 03963	03962 - 03963

Logica configuration with Cremone

Sash width	430 ÷ 640	641 ÷ 1000	1001 ÷ 1700
Hinges and arm	04208 - 04219 - 04237	04209 - 04220 - 04238	04209 - 04220 - 04238
Mechanism	04706N - 04706010N	04706N - 04706010N	04706N - 04706010N
Additional arm	-	-	04301K
Cremone	01192 - 01193	01192 - 01193	01192 - 01193

Logica configuration with window handle

Sash width	430 ÷ 640	641 ÷ 1000	1001 ÷ 1700
Hinges and arm	04208 - 04219 - 04237	04209 - 04220 - 04238	04209 - 04220 - 04238
Mechanism	04707V	04707V	04707V
Additional arm	-	-	04301K
Window handle	02486	02486	02486

Logica configuration with NP Supra

Sash width	430 ÷ 640	641 ÷ 1000	1001 ÷ 1700
Hinges and arm	04208 - 04219 - 04237	04209 - 04220 - 04238	04209 - 04220 - 04238
Mechanism	0395501	0395501	0395501
Additional arm	-	-	04301K
NP Supra	03962 - 03963	03962 - 03963	03962 - 03963

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FUTURA 3D 80 | FUTURA 3D 80 lgc | FUTURA 3D 80 micro | FUTURA 3D 80 micro lgc

FUTURA 3D 80 FLUSH

Functions

Complete system for the construction of tilt-and-turn windows with load capacities of up to 90 kg. Available in the standard, logic and microventilation versions.

Technical Features

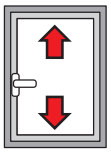
Making a FUTURA 3D 80 Flush tilt-and-turn window mechanism requires:

- Hinge kit
- Set of fastening mechanisms for Cremones and window handles
- Arms, available in three versions (standard, micro-ventilation and logic)
- Cremone or window handle (available in different models to choose from in the specific catalogue section)

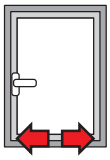
Adjustments

The adjustments are micrometric and indipendent.

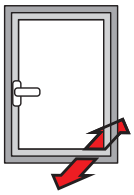
ADJUSTMENTS [mm]



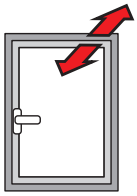
Height:
+1.5 / -0.5



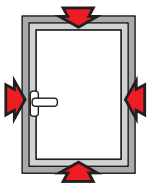
Side:
±1



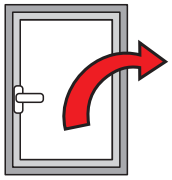
Bottom hinge compression:
±0.3



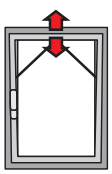
Top hinge compression:
±1.5



Striker compression:
±1.8



Sash fall:
+3.5 / -1.5



Micro-ventilation:
+3.6 / -1.8

Table of maximum glass thickness [mm]

	390	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
2500		28	24	20	18	16	14	13	12	11	10	9	9	8
2400		29	25	21	18	16	15	13	12	11	11	10	9	9
2300		31	26	22	19	17	15	14	13	12	11	10	10	9
2200		32	27	23	20	18	16	15	13	12	11	11	10	9
2100		34	28	24	21	19	17	15	14	13	12	11	11	10
2000		35	29	25	22	20	18	16	15	14	13	12	11	10
1900		37	31	27	23	21	19	17	15	14	13	12	12	11
1800		39	33	28	25	22	20	18	16	15	14	13	12	11
1700		42	35	30	26	23	21	19	17	16	15	14	13	11
1600		42	37	32	28	25	22	20	18	17	16	14	13	11
1500		42	39	34	29	26	24	21	20	18	16	14	13	11
1400		42	42	36	32	28	25	23	21	19	16	14	13	11
1300		42	42	39	34	30	27	25	22	19	16	14	13	
1200		42	42	42	37	33	29	27	22	19	16	14		
1100		42	42	42	40	36	32	27	22	19	16			
1000		42	42	42	42	39	32	27	22	19				
900		42	42	42	42	40	32	27	22					
800		42	42	42	42	40	32	27						
700		42	42	42	42	40	32							
600														

Table of maximum load capacity [kg]

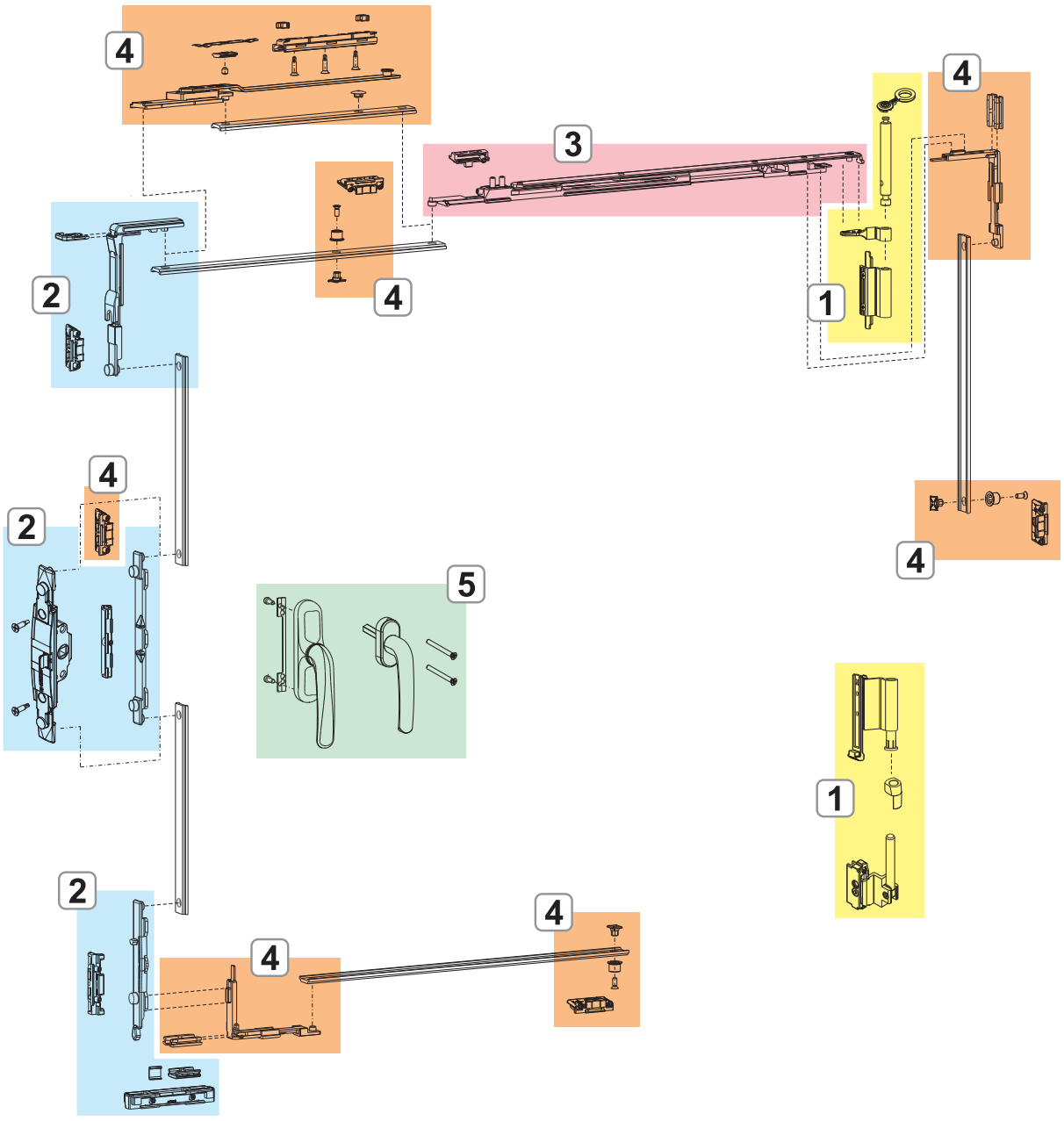
	390	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
2500		90	90	90	90	90	90	90	90	90	90	90	90	90
2400		90	90	90	90	90	90	90	90	90	90	90	90	90
2300		90	90	90	90	90	90	90	90	90	90	90	90	90
2200		90	90	90	90	90	90	90	90	90	90	90	90	90
2100		90	90	90	90	90	90	90	90	90	90	90	90	90
2000		90	90	90	90	90	90	90	90	90	90	90	90	90
1900		90	90	90	90	90	90	90	90	90	90	90	90	90
1800		90	90	90	90	90	90	90	90	90	90	90	90	87
1700		90	90	90	90	90	90	90	90	90	90	90	87	82
1600		90	90	90	90	90	90	90	90	90	90	88	82	77
1500		90	90	90	90	90	90	90	90	90	88	82	77	73
1400		90	90	90	90	90	90	90	90	89	82	77	72	68
1300		90	90	90	90	90	90	90	89	82	76	71	67	
1200		90	90	90	90	90	90	90	82	76	71	66		
1100		90	90	90	90	90	90	82	75	70	65			
1000		90	90	90	90	90	82	75	69	63				
900		90	90	90	90	82	74	67	62					
800		90	90	90	82	73	66	60						
700		90	90	82	72	64	58							
600														

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FUTURA 3D 80

FUTURA 3D 80 micro

Futura 3D 80 traditional



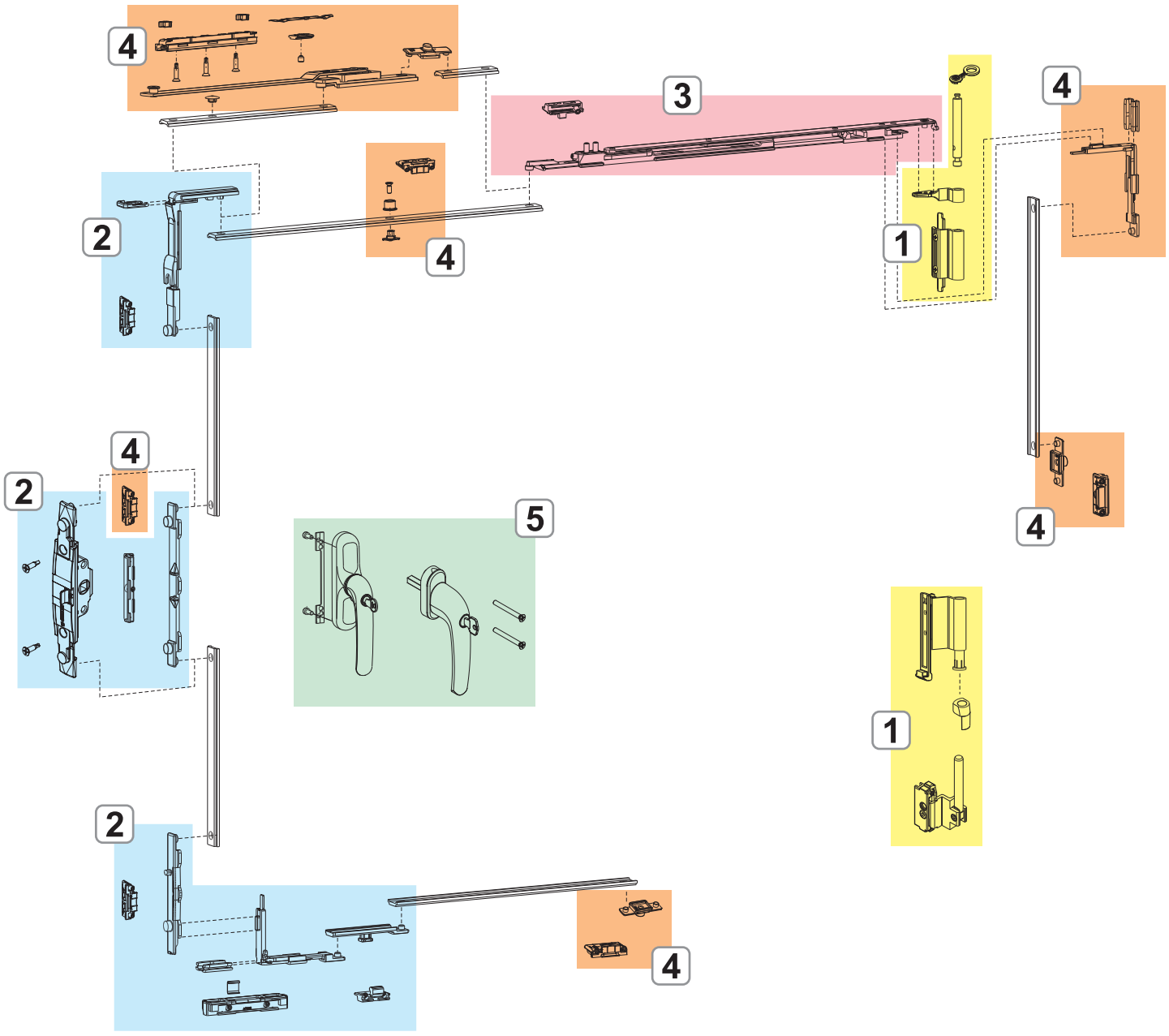
1. FLUSH FUTURA 3D 80 HINGES
2. FUTURA 3D 80 FLUSH FASTENING MECHANISMS
3. FLUSH FUTURA 3D 80 ARMS
4. FLUSH FUTURA 3D 80 ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES
5. CREMONES AND WINDOW HANDLES

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FUTURA 3D 80 lgc

FUTURA 3D 80 micro lgc

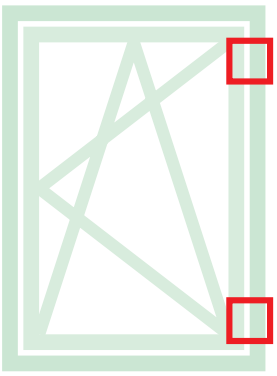
Futura 3D 80 logica



1. FLUSH FUTURA 3D 80 HINGES
2. FUTURA 3D 80 FLUSH FASTENING MECHANISMS
3. FLUSH FUTURA 3D 80 ARMS
4. FLUSH FUTURA 3D 80 ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES
5. CREMONES AND WINDOW HANDLES

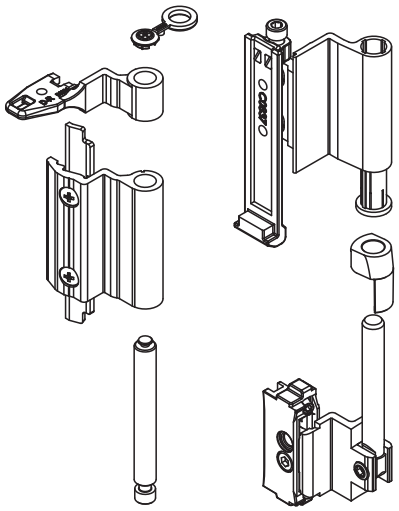
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FLUSH FUTURA 3D 80 HINGES



Hinge set (upper and lower), completely pre-assembled and ready to be installed on the profile.
Body of hinges in extruded aluminium, stainless steel and brass.
Supports in zamak with GS Silver Plus finish (up to 500 hr corrosion resistance).
Pins, screws and grub screws in stainless steel.

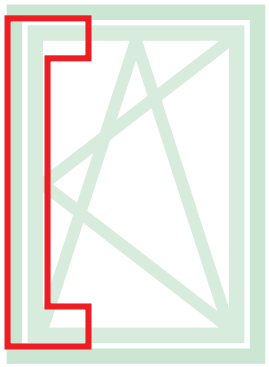
04718



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04718	HINGE T/T FUTURA 3D	C013-C014-C015-C016-C017	X		X	X	10

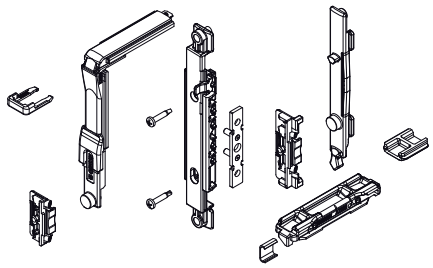
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FUTURA 3D 80 FLUSH FASTENING MECHANISMS

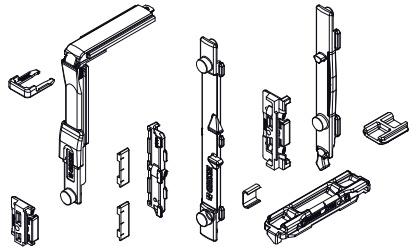


Tilt-and-turn window fastening mechanisms for cremone or window handle, available in Base and Logica versions.
Drive, drive rod, mechanism bolt tip and strikers in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance).
Screws and grub screws in stainless steel.
Polyamide raiser.

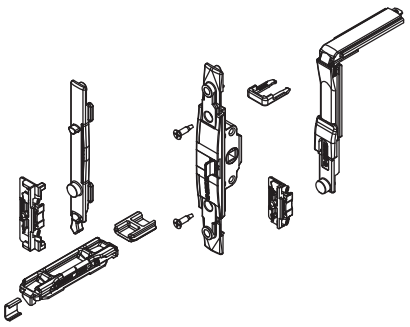
03955



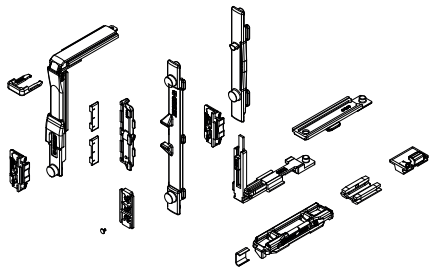
04704



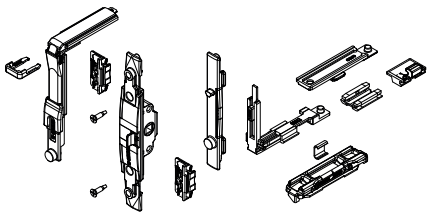
04705N



04706N



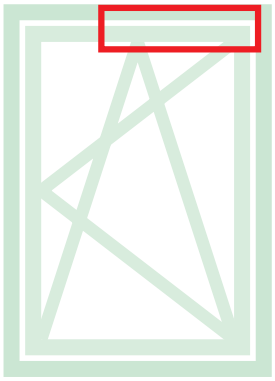
04707V



Item code	Description	PROFILE CROSS - SECTION	Window handle	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04704	T/T FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Cremone	-	X				10
04705N	T/T M 180 FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle	-	X				10
04707V	T/T M 180 LOGICA FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle	Logica	X				10

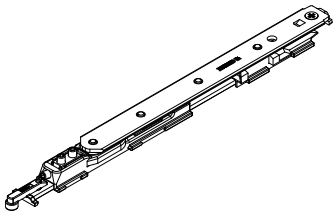
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FLUSH FUTURA 3D 80 ARMS

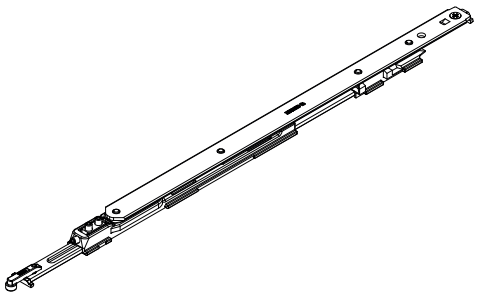


They enable tilt-and-turn opening in conjunction with the mechanisms and are available in three versions (standard, microventilation and logic).
Body, fixing block and slider in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance).
Rod, connecting bracket, grub screws and screws in stainless steel. Stop disk in polyamide.

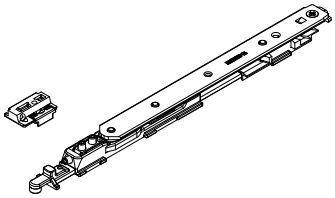
04202



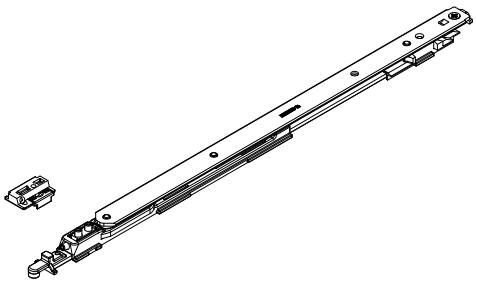
04203



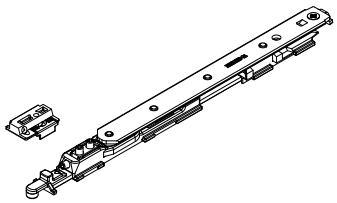
04284



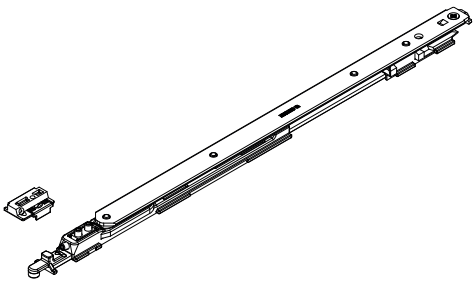
04285



04344



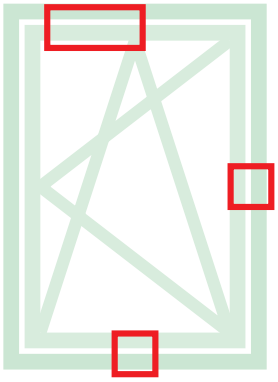
04345



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Version	A (mm)	Base Raw	Anodised Elox	Painted	Order
04202	ARM TYPE 1 T/T FUTURA LOGICA 130	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	W 390 ÷ 700	Logica	120				
04203	ARM TYPE 2 T/T FUTURA LOGICA 130	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	W 701 ÷ 1800	Logica	175				
04284	ARM T1 130 WITH MICROVENTI-LATION	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	W 410 ÷ 700	Micro	120				
04285	ARM T2 130 WITH MICROVENTI-LATION	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	W 701 ÷ 1800	Micro	175				
04344	ARM T1 130 MICROVENTILATION LOGIC	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	W 410 ÷ 700	Logica Micro	120				
04345	ARM T2 130 MICROVENTILATION LOGIC	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	W 701 ÷ 1800	Logica Micro	175				

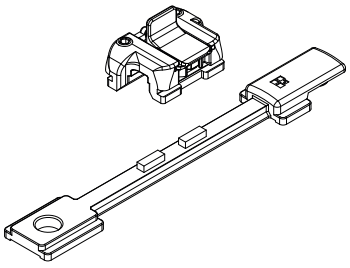
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FLUSH FUTURA 3D 80 ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES

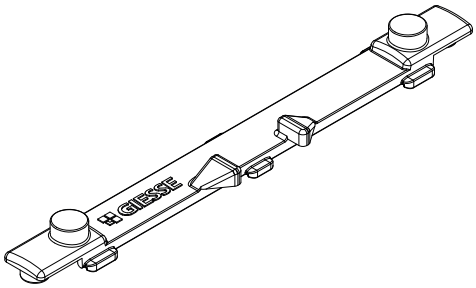


The additional fasteners make it possible to add further fastening elements that either increase the dimensions of the casement or that can be used when locking points are needed on the cross beams or hinge-side upright.
On the basis of the dimensions of the casement, additional fasteners (for H>1200 mm and W>1000 mm) and the additional arm (which is mandatory for W>1000 mm) are to be used in combination with this mechanism

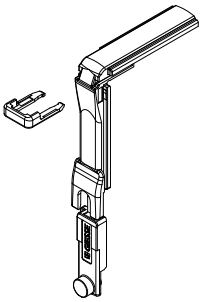
01299



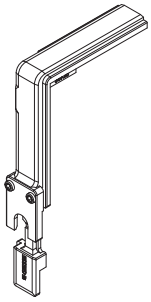
04014K



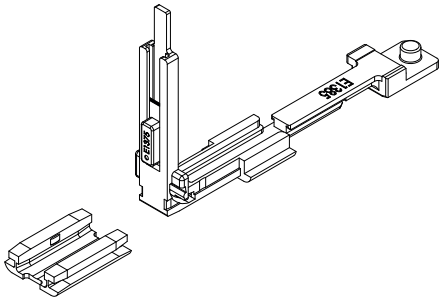
04019K



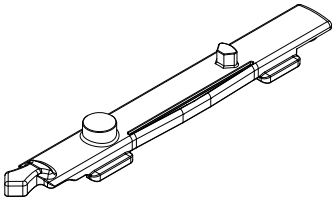
04020K



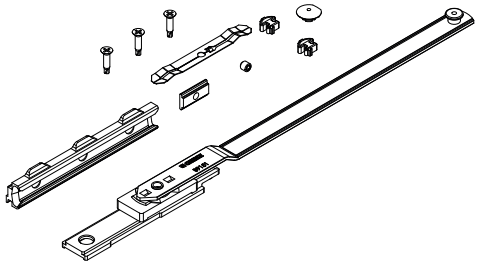
04024K



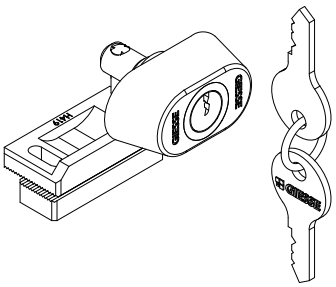
04026K



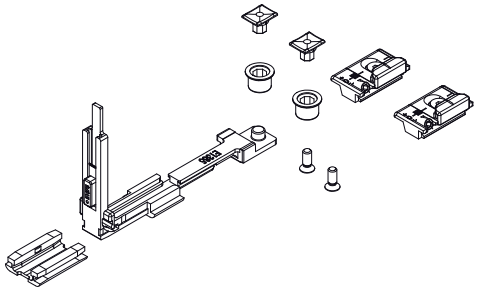
04301K



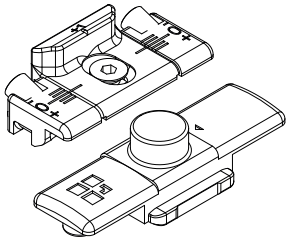
04311



04770K



04777K



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FUTURA 3D
FUTURA 3D 80 FLUSH

Item code	Description	Interface type	Range (mm)	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01299	INCORRECT MOVEMENT SAFETY DEVICE	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	H > 620 HC > 250	-	X				10
04014K	FUTURA T/T DRIVE ROD	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	-	-	X				10
04019K	CORNER DRIVE GROOVE 15/20 FUTURA	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C015-C016-C017	-	-	X				10
04020K	FUTURA CORNER DRIVE	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	-	-	X				50
04024K	CORNER DRIVE FOR FUTURA BURGLAR-PROOF FUNCTION	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	-	-	X				10
04026K	FUTURA T/T BOLT TIP	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	-	-	X				10
04301K	T/T FUTURA ADDITIONAL ARM	C001-C002-C003-C004-C005-C006	W > 1000	-	X				5
04311	SASH OPENING BLOCK LOCK	C001-C002-C003-C004-C005-C006-C007-C013-C014-C015-C016-C017	-	-	X				10
04770K	FUTURA ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	H > 1200 L > 1000	-	X				10
04777K	FUTURA ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	H > 1200 L > 1000	Logica	X				50

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CONFIGURATION EXAMPLES

FUTURA 3D 80 FLUSH

Basic configuration with Cremone

Sash width [mm]	390 ÷ 700	701 ÷ 1000	1001 ÷ 1700
Hinges	04718	04718	04718
Mechanism	04704	04704	04704
Arm	04200	04201	04201
Additional arm	-	-	04301K
Cremone	01033K - 01090K	01033K - 01090K	01033K - 01090K

Basic configuration with window handle

Sash width [mm]	390 ÷ 700	701 ÷ 1000	1001 ÷ 1800
Hinges	04718	04718	04718
Mechanism	04705N	04705N	04705N
Arm	04200	04201	04201
Additional arm	-	-	04301K
Window handle	02476 - 02415 - 00997	02476 - 02415 - 00997	02476 - 02415 - 00997

Micro configuration with Cremone

Sash width [mm]	410 ÷ 700	701 ÷ 1000	1001 ÷ 1700
Hinges	04718	04718	04718
Mechanism	04704	04704	04704
Arm	04284	04285	04285
Additional arm	-	-	04301K
Cremone	01039 - 01094	01039 - 01094	01039 - 01094

Micro configuration with window handle

Sash width [mm]	410 ÷ 700	701 ÷ 1000	1001 ÷ 1700
Hinges	04718	04718	04718
Mechanism	04705N	04705N	04705N
Arm	04284	04285	04285
Additional arm	-	-	04301K
Window handle	02476 - 02415 - 00997	02476 - 02415 - 00997	02476 - 02415 - 00997

Logica configuration with Cremone

Sash width [mm]	390 ÷ 700	701 ÷ 1000	1001 ÷ 1700
Hinges	04718	04718	04718
Mechanism	04706N	04706N	04706N
Arm	04202	04203	04203
Additional arm	-	-	04301K
Cremone	01192 - 01193	01192 - 01193	01192 - 01193

Logica configuration with window handle

Sash width [mm]	390 ÷ 700	701 ÷ 1000	1001 ÷ 1700
Hinges	04718	04718	04718
Mechanism	04707V	04707V	04707V
Arm	04202	04203	04203
Additional arm	-	-	04301K
Window handle	02486	02486	02486

Logica micro configuration with Cremone

Sash width [mm]	410 ÷ 700	701 ÷ 1000	1001 ÷ 1700
Hinges	04718	04718	04718
Mechanism	04706N	04706N	04706N
Arm	04344	04345	04345
Additional arm	-	-	04301K
Cremone	01194 - 01195	01194 - 01195	01194 - 01195

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FUTURA 3D ARCO

FUTURA 3D FSQ

FUTURA 3D A & F

Functions

Complete system for the construction of tilt-and-turn windows that is specific for arched and sloping window types.

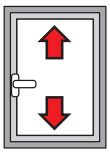
Technical Features

Making a FUTURA 3D Arched and Sloping tilt-and-turn window mechanism requires:
• Fastening mechanism kit including hinges, arm and hardware
• Cremone or window handle (available in different models to choose from in the specific catalogue section)

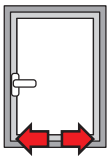
Adjustments

The adjustments are micrometric and indipendent.

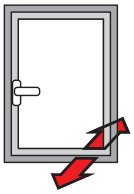
ADJUSTMENTS [mm]



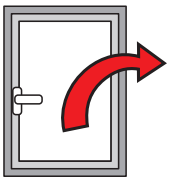
Height:
+1.5 / -0.5



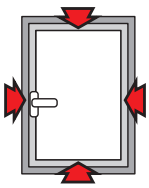
Side:
±1



Bottom hinge compression:
±0.3



Sash fall:
+2 / -0



Striker compression:
±1.8

Table of maximum glass thickness [mm]

	320	400	500	600	700	800	900	1000	1100	1200
2500	30	24	20	17	15	13	12	10	7	
2400	31	25	20	17	15	13	12	9	7	
2300	32	26	21	18	16	14	12	9		
2200	34	27	22	19	17	15	11	8		
2100	35	28	23	20	17	15	11			
2000	37	30	25	21	18	14	10			
1900	39	31	26	22	19	13				
1800	41	33	27	23	18	12				
1700	42	35	29	25	16					
1600	42	37	31	23	15					
1500	42	40	33	21						
1400	42	42	31							
1300	42	42	28							
1200	42	42	25							
1100	42	39								
1000	42									
900										
870										

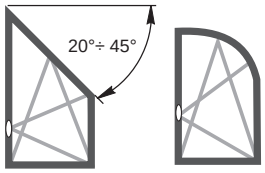


Table of maximum glass thickness [mm]

	320	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
2500	24	19	16	13	12	10	9	8	8	7	6	6	6	5	
2400	25	20	16	14	12	11	10	9	8	7	7	6	6	5	
2300	26	20	17	14	13	11	10	9	8	8	7	6	6	6	
2200	27	21	18	15	13	12	10	9	9	8	7	7	6	6	
2100	28	22	19	16	14	12	11	10	9	8	8	7	7	6	
2000	30	24	20	17	15	13	12	10	10	9	8	8	7	7	
1900	31	25	21	18	15	14	12	11	10	9	9	8	7	7	
1800	33	26	22	19	16	14	13	12	11	10	9	8	8	7	
1700	35	28	23	20	17	15	14	12	11	10	10	9	8	8	
1600	37	30	25	21	18	16	15	13	12	11	10	10	9	8	
1500	40	32	26	22	20	17	16	14	13	12	11	10	10	9	
1400	42	34	28	24	21	19	17	15	14	13	12	11	10	9	
1300	42	36	30	26	23	20	18	16	15	14	13	11	10		
1200	42	40	33	28	25	22	20	18	16	15	13	11			
1100	42	42	36	31	27	24	21	19	17	15	12				
1000	42	42	40	34	30	26	24	20	17	14					
900	42	42	42	38	33	29	24	19	16						
800	42	42	42	42	36	28	23	19							
700	42	42	42	42	34	27	22								
600	42	42	42	41	32	25									
550															

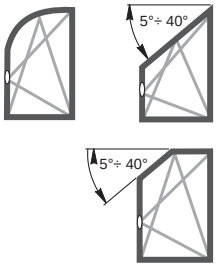
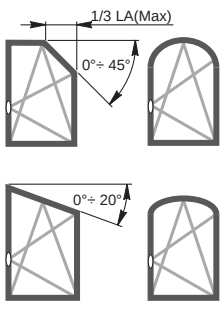


Table of maximum glass thickness [mm]

	320	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
2500	30	24	20	17	15	13	12	11	10	9	8	6	5	5	
2400	32	25	21	18	16	14	12	11	10	9	8	6	5		
2300	33	26	22	19	16	14	13	12	11	9	7	6	5		
2200	35	28	23	20	17	15	14	12	11	9	7	6	5		
2100	36	29	24	20	18	16	14	13	10	8	7	6	5		
2000	38	30	25	22	19	17	15	13	10	8	7	6	5		
1900	40	32	27	23	20	18	16	12	10	8	6	5			
1800	42	34	28	24	21	19	15	12	9	8	6	5			
1700	42	36	30	25	22	19	15	11	9	7	6	5			
1600	42	38	32	27	24	18	14	11	8	7	5				
1500	42	41	34	29	24	18	13	10	8	6	5				
1400	42	42	36	31	23	17	12	9	7	6	4				
1300	42	42	39	30	21	16	12	9	6	5					
1200	42	42	42	29	20	14	11	8	6						
1100	42	42	40	27	18	13	9	6							
1000	42	42	36	24	16	11									
900	42	42	33	21											
800	42	42													
710															

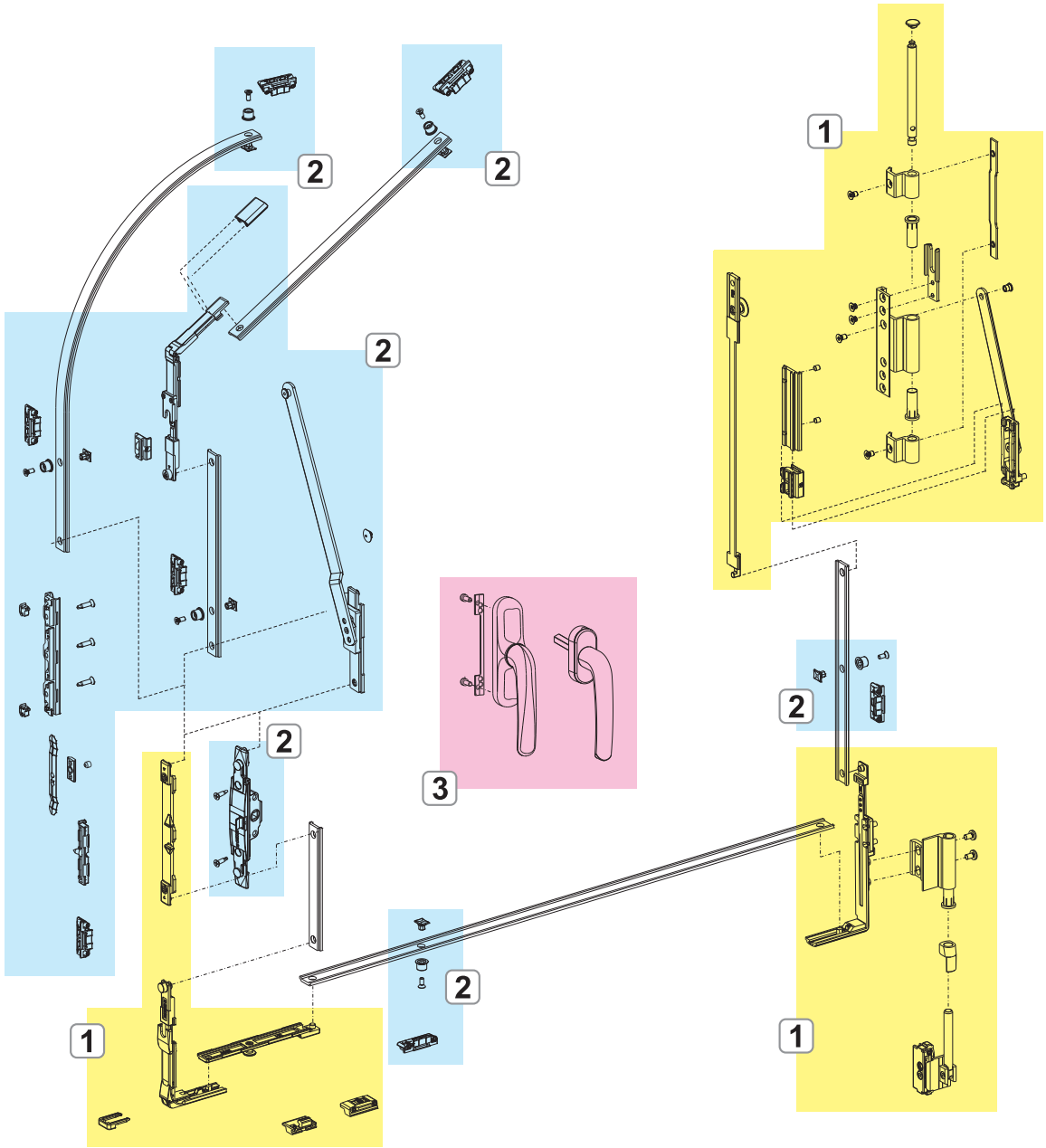


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FUTURA 3D ARCO

FUTURA 3D FSQ

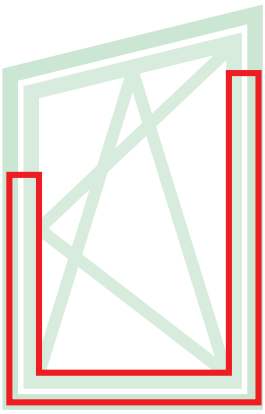
Futura 3D A & F



1. FUTURA 3D A & F BASIC MECHANISM
2. FUTURA 3D A & F ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES
3. CREMONES AND WINDOW HANDLES

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FUTURA 3D A & F BASIC MECHANISM



The hinges are supplied completely pre-assembled and ready to be installed on the profile, the hardware consists of ready-assembled accessories that make installation easy and instant.

Materials

Arm

Body, fixing block and slider in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance) and stainless steel rod. Rod, connecting bracket, grub screws and screws in stainless steel. Stop disk in polyamide.

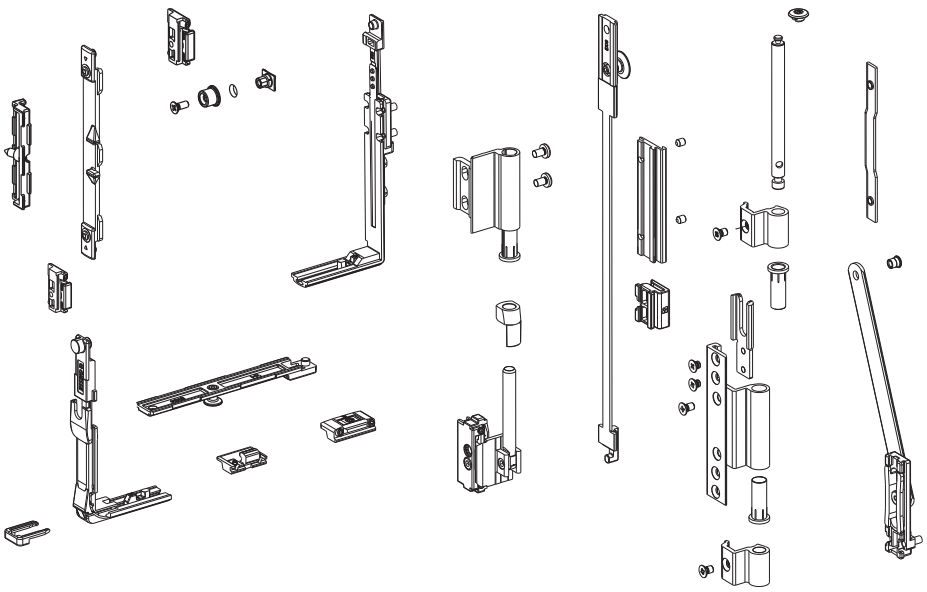
Hinges

Extruded aluminium and brass hinge body Zamak supports with GS Silver Plus finish (up to 500 h corrosion resistance). Pins, screws and grub screws in stainless steel.

Mechanism

Drive, drive rod, bolt tip and strikers in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance). Screws and grub screws in stainless steel. Polyamide raiser.

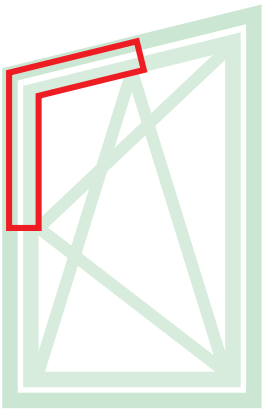
04671K



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04671K	T/T FUTURA ARCHED & SLOPING WINDOW MECHANISM	C001-C002			X	X	5

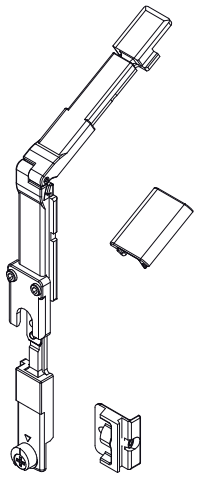
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FUTURA 3D A & F ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES

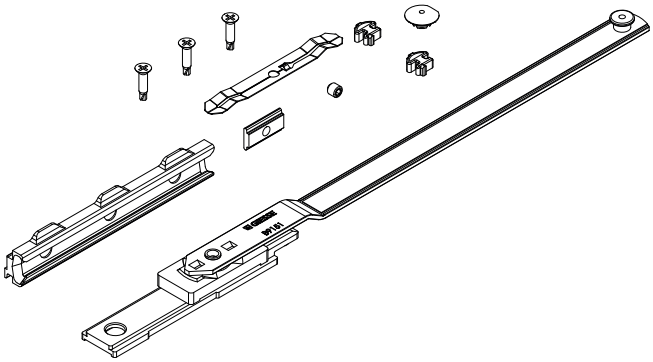


The additional arm is mandatory for L>1000 mm.
The variable corner drive is fixed without any need for machining the profile, but by means of a polyamide clip and two contrast grubscrews. Allows making sloping windows with an angle between the cremone upright and the top cross-beam that goes from 95° to 135°.

04023K



04301K



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04023K	VARIABLE CORNER DRIVE	C001-C002	-	-	X				10
04301K	T/T FUTURA ADDITIONAL ARM	C001-C002-C003-C004-C005-C006	W > 1000	-	X				5

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CONFIGURATION EXAMPLES

FUTURA 3D A & F

Basic arched configuration with Cremone

Sash width	320 ÷ 1000	1001 ÷ 1700
Mechanism	04671K	04671K
Additional arm	-	04301K
Cremone	01033K - 01090K	01033K - 01090K

Basic arched configuration with window handle

Sash width	320 ÷ 1000	1001 ÷ 1700
Mechanism	04671K	04671K
Mechanism	01061	01061
Additional arm	-	04301K
Window handle	02476 - 02415 - 00997	02476 - 02415 - 00997

Basic sloping window configuration with Cremone

Sash width	320 ÷ 1000	1001 ÷ 1700
Mechanism	04671K	04671K
Variable corner drive	04023K	04023K
Additional arm	-	04301K
Cremone	01033K - 01090K	01033K - 01090K

Basic sloping window configuration with window handle

Sash width	320 ÷ 1000	1001 ÷ 1700
Mechanism	04671K	04671K
Mechanism	01061	01061
Variable corner drive	04023K	04023K
Additional arm	-	04301K
Window handle	02476 - 02415 - 00997	02476 - 02415 - 00997

Basic arched configuration with NP Supra

Sash width	320 ÷ 1000	1001 ÷ 1700
Mechanism	04671K	04671K
Mechanism	0395301	0395301
Additional arm	-	04301K
NP Supra	03962 - 03963	03962 - 03963

Basic sloping window configuration with NP Supra

Sash width	320 ÷ 1000	1001 ÷ 1700
Mechanism	04671K	04671K
Mechanism	0395301	0395301
Variable corner drive	04023K	04023K
Additional arm	-	04301K
NP Supra	03962 - 03963	03962 - 03963

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FUTURA 3D R | FUTURA 3D R lgc

FUTURA 3D R

Functions

Complete system for the construction of tilt-and-turn windows with load capacities of up to 110 kg. Available in the standard and logica versions.

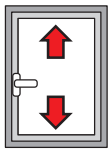
Technical Features

Making a FUTURA 3D R tilt-and-turn window mechanism requires:
- Hinge kit
- Set of fastening mechanisms for Cremones and window handles
- Arms, available in two versions (standard and logic).
- Cremone or window handle (available in different models to choose from in the specific catalogue section)

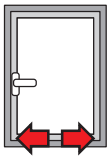
Adjustments

The adjustments are micrometric and indipendent.

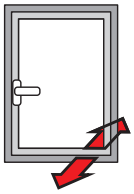
ADJUSTMENTS [mm]



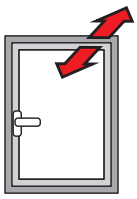
Height:
+1.5 / -0.5



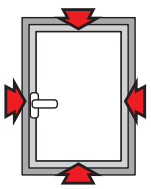
Side:
±1,2



Bottom hinge compression:
±0.3



Top hinge compression:
±1.5



Striker compression:
±1,2



Sash fall:
+4 / -2

Table of maximum glass thickness [mm]

	390	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
2500	35	29	25	22	19	17	16	14	13	12	12	11	10	
2400	36	30	26	22	20	18	16	15	14	13	12	11	11	
2300	38	31	27	23	21	19	17	16	14	13	13	12	11	
2200	39	33	28	25	22	20	18	16	15	14	13	12	12	
2100	41	34	29	26	23	21	19	17	16	15	14	13	12	
2000	43	36	31	27	24	22	20	18	17	15	14	13	13	
1900	45	38	32	28	25	23	21	19	17	16	15	14	13	
1800	48	40	34	30	27	24	22	20	18	17	16	15	14	
1700	50	42	36	32	28	25	23	21	20	18	17	15	14	
1600	50	45	39	34	30	27	25	22	21	19	17	15	14	
1500	50	48	41	36	32	29	26	24	22	20	17	15	14	
1400	50	50	44	39	34	31	28	26	23	20	17	15	14	
1300	50	50	47	42	37	33	30	27	23	20	17	15		
1200	50	50	50	45	40	36	32	27	23	20	17			
1100	50	50	50	49	44	39	32	27	23	20				
1000	50	50	50	50	48	39	32	27	23					
900	50	50	50	50	48	39	32	27						
800	50	50	50	50	48	39	32							
600 700	50	50	50	50	48	39								

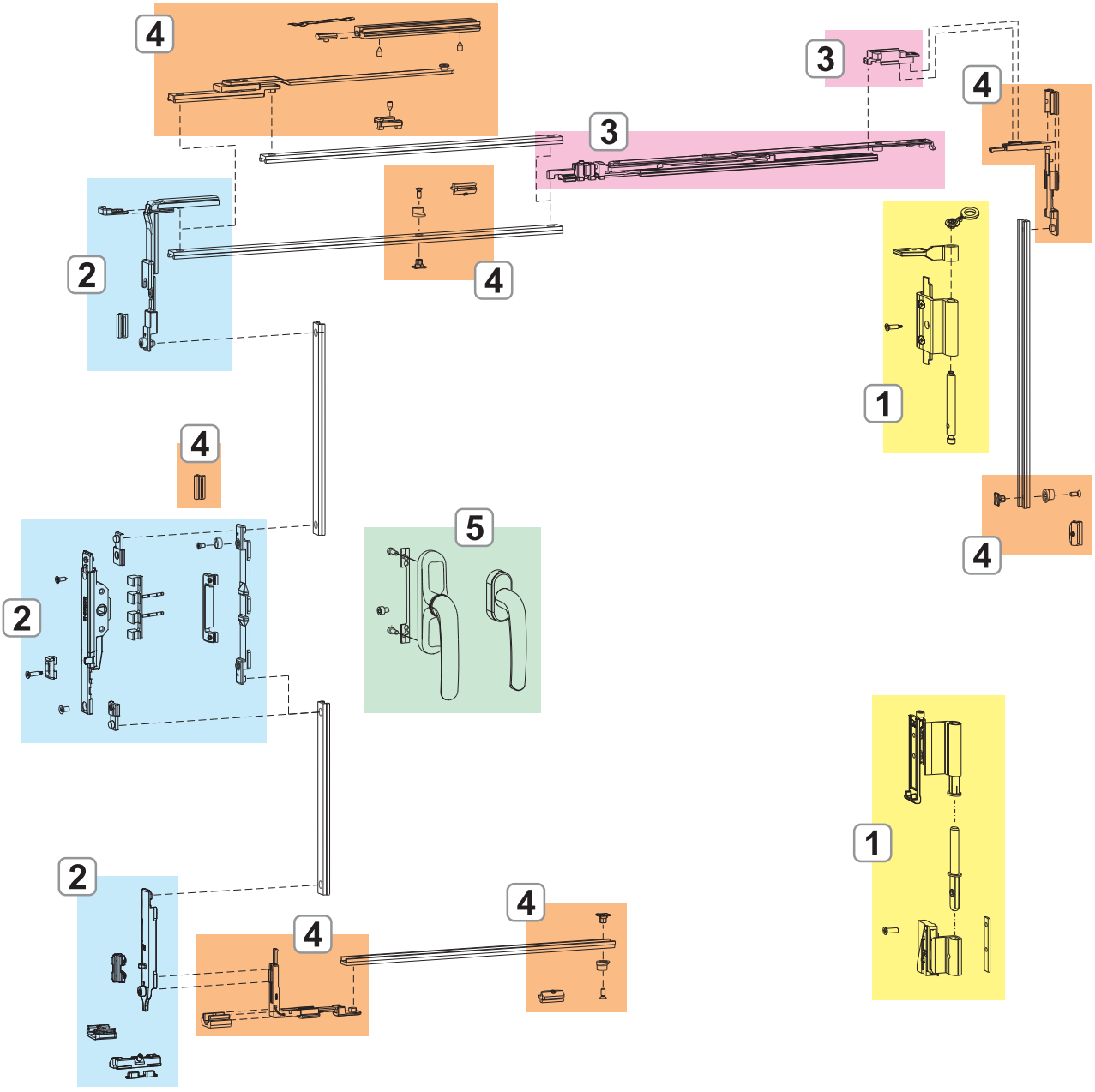
Table of maximum load capacity [kg]

	390	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
2500	110	110	110	110	110	110	110	110	110	110	110	110	110	
2400	110	110	110	110	110	110	110	110	110	110	110	110	110	
2300	110	110	110	110	110	110	110	110	110	110	110	110	110	
2200	110	110	110	110	110	110	110	110	110	110	110	110	110	
2100	110	110	110	110	110	110	110	110	110	110	110	110	110	
2000	110	110	110	110	110	110	110	110	110	110	110	110	110	
1900	110	110	110	110	110	110	110	110	110	110	110	110	110	
1800	110	110	110	110	110	110	110	110	110	110	110	110	106	
1700	110	110	110	110	110	110	110	110	110	110	110	106	100	
1600	110	110	110	110	110	110	110	110	110	110	107	100	94	
1500	110	110	110	110	110	110	110	110	110	110	100	94	88	
1400	110	110	110	110	110	110	110	110	108	100	83	88	82	
1300	110	110	110	110	110	110	110	108	100	93	87	81		
1200	110	110	110	110	110	110	108	100	92	86	80			
1100	110	110	110	110	110	100	92	85	79	73				
1000	110	110	110	110	100	91	83	77	72					
900	110	110	110	100	90	82	75	69						
800	110	110	100	89	80	73	67							
600 700	110	100	88	78	70	64								

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FUTURA 3D
R

Futura 3D R traditional

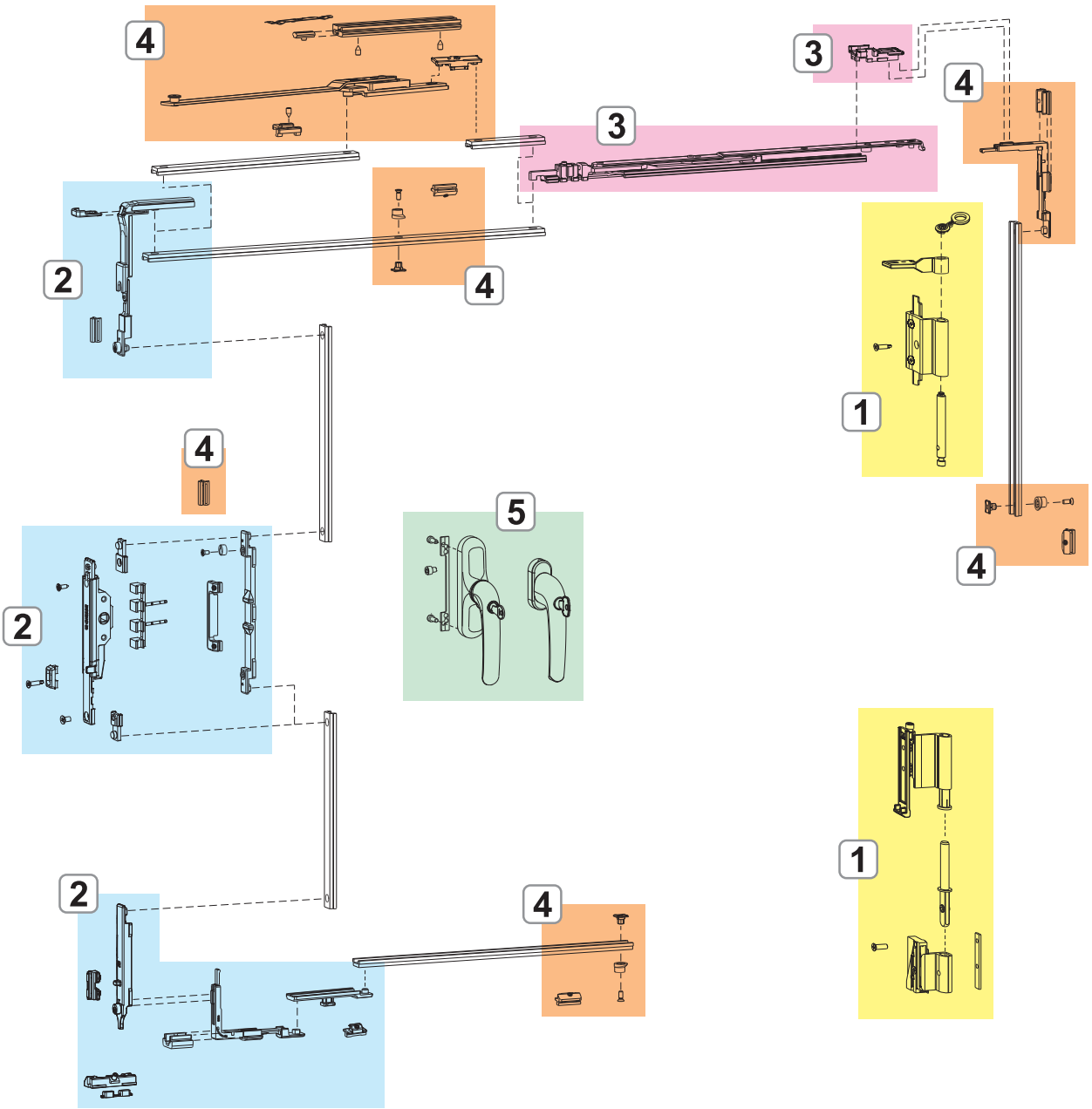


1. FUTURA 3D R HINGES
2. FUTURA 3D R FASTENING MECHANISMS
3. FUTURA 3D R ARMS
4. FUTURA 3D R ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES
5. CREMONES AND WINDOW HANDLES

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FUTURA 3D
R lgc

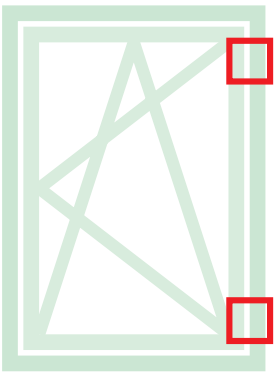
Futura 3D R logica



1. FUTURA 3D R HINGES
2. FUTURA 3D R FASTENING MECHANISMS
3. FUTURA 3D R ARMS
4. FUTURA 3D R ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES
5. CREMONES AND WINDOW HANDLES

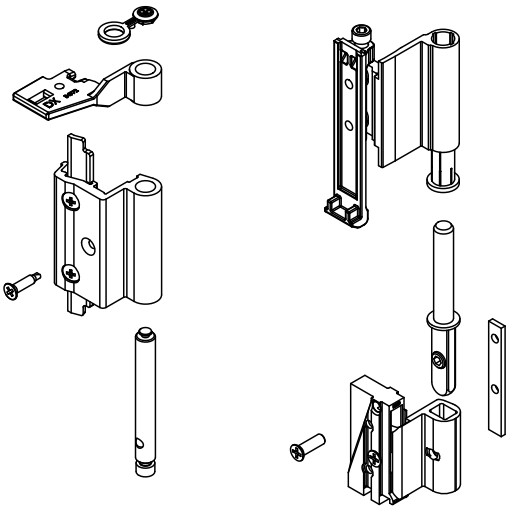
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FUTURA 3D R HINGES



Hinge set (upper and lower), completely pre-assembled and ready to be installed on the profile.
Body of hinges in extruded aluminium and brass.
Supports in zamak with GS Silver Plus finish (up to 500 hr corrosion resistance).
Pins, screws and grub screws in stainless steel.

04721

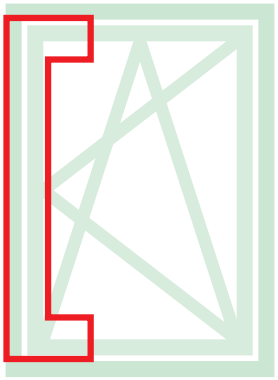


Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04721	HINGE T/T FUTURA 3D R	C007	X		X	X	10

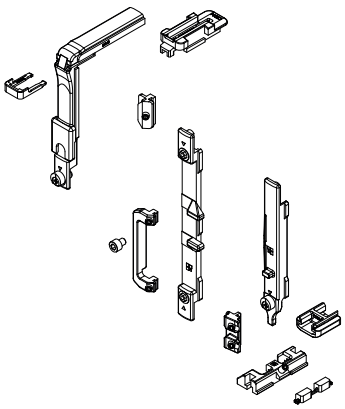
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FUTURA 3D R FASTENING MECHANISMS

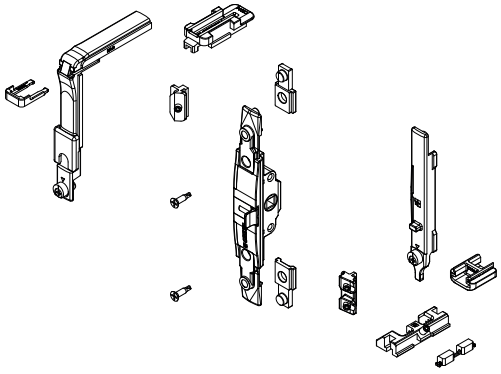
Tilt-and-turn window fastening mechanisms for cremone or window handle, available in Base and Logica versions.
Drive, drive rod, mechanism bolt tip and strikers in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance).
Screws and grub screws in stainless steel.
Polyamide raiser.



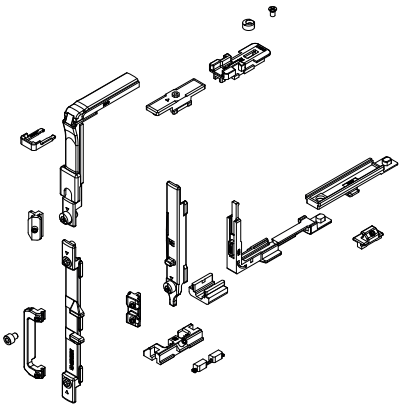
04766N



04767V



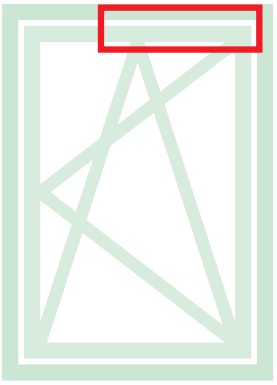
04768N



Item code	Description	PROFILE CROSS - SECTION	Groove (mm)	Window handle	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04766N	T/T FASTENING MECHANISM	C007	-	Cremone	-	X				10
04767V	T/T M 180 FASTENING MECHANISM	C007	-	Window handle	-	X				10
04768N	T/T LOGICA FASTENING MECHANISM	C007	Logica	Cremone	Logica	X				10

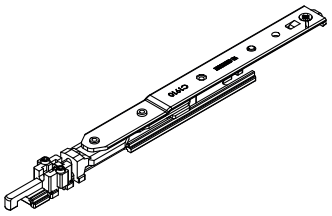
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FUTURA 3D R ARMS

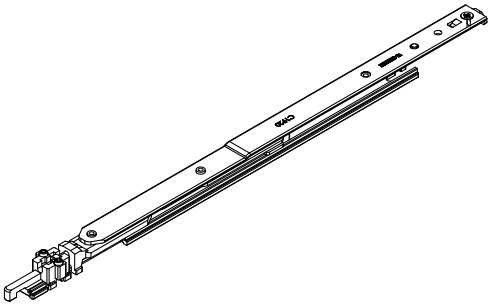


They enable tilt-and-turn opening in conjunction with the mechanisms and are available in three versions (standard, microventilation and logic).
Body, fixing block and slider in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance).
Rod, connecting bracket, grub screws and screws in stainless steel. Stop disk in polyamide.

0422901



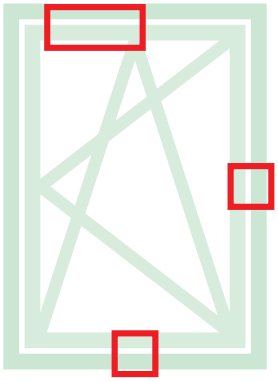
0423001



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0422901	ARM TYPE 1 T/T FUTURA R	C007	W 390 ÷ 540	X				10
0423001	ARM TYPE 2 T/T FUTURA R	C007	W 541 ÷ 1700	X				10

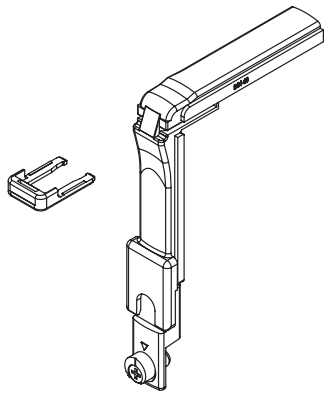
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FUTURA 3D R ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES

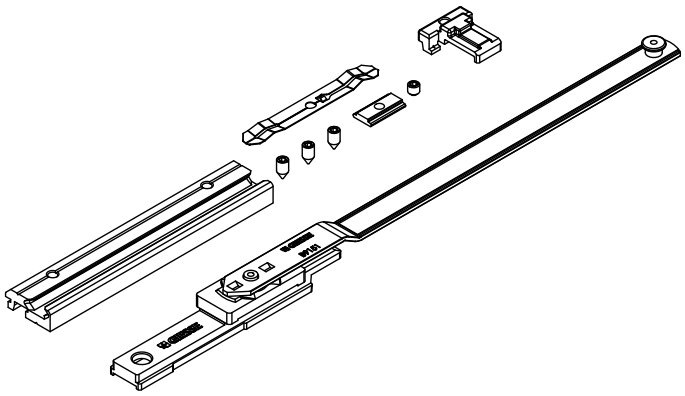


The additional fasteners make it possible to add further fastening elements that either increase the dimensions of the casement or that can be used when locking points are needed on the cross beams or hinge-side upright.
On the basis of the dimensions of the casement, additional fasteners (for H>1200 mm and W>1000 mm) and the additional arm (which is mandatory for W>1000 mm) are to be used in combination with this mechanism.

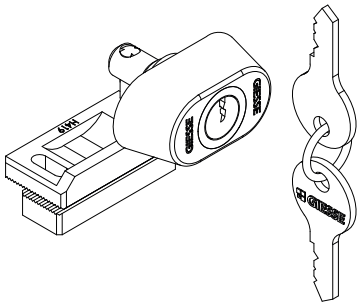
04017K



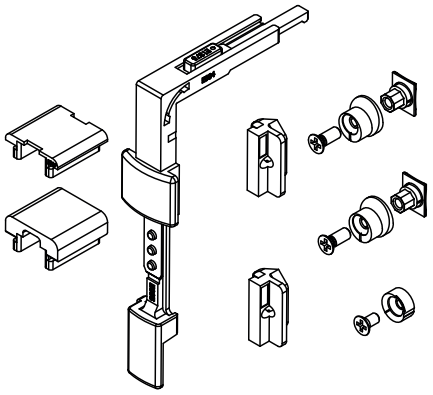
04308K



04311



04648K



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04017K	FUTURA CORNER DRIVE	C007		X				10
04308K	ADDITIONAL ARM FOR T/T	C007	W > 1000	X				5
04311	SASH OPENING BLOCK LOCK	C001-C002-C003-C004-C005-C006-C007-C013-C014-C015-C016-C017	-	X				10
04648K	VERT/HOR.ADD.FAST. GS999	C007	H > 1200 L > 1000	X				10

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CONFIGURATION EXAMPLES

FUTURA 3D R

Basic configuration with Cremone

Sash width	390 ÷ 540	541 ÷ 1000	1001 ÷ 1700
Hinges	04721	04721	04721
Mechanism	04766N	04766N	04766N
Arm	0422901	0423001	0423001
Additional arm	-	-	04308K
Cremone	01033K - 01090K	01033K - 01090K	01033K - 01090K

Basic configuration with window handle

Sash width	390 ÷ 540	541 ÷ 1000	1001 ÷ 1800
Hinges	04721	04721	04721
Mechanism	04767V	04767V	04767V
Arm	0422901	0423001	0423001
Additional arm	-	-	04308K
Window handle	02476 - 02415 - 00997	02476 - 02415 - 00997	02476 - 02415 - 00997

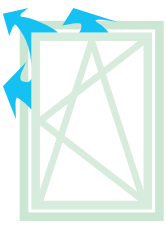


Logica configuration with Cremone

Sash width	390 ÷ 540	541 ÷ 1000	1001 ÷ 1700
Hinges	04721	04721	04721
Mechanism	04768N	04768N	04768N
Arm	0422901	0423001	0423001
Additional arm	-	-	04308K
Cremone	01192 - 01193	01192 - 01193	01192 - 01193

Logica configuration with window handle

Sash width	390 ÷ 700	701 ÷ 1000	1001 ÷ 1700
Hinges	04721	04721	04721
Mechanism	04768N	04768N	04768N
Mechanism	01062	01062	01062
Arm	0422901	0423001	0423001
Additional arm	-	-	04308K
Window handle	02486	02486	02486



Micro configuration with Cremone

Sash width	425 ÷ 540	541 ÷ 1000	1001 ÷ 1700
Hinges	04721	04721	04721
Mechanism	04766N	04766N	04766N
Arm	0422901	0423001	0423001
Additional arm	-	-	04308K
Cremone	01033K - 01090K	01033K - 01090K	01033K - 01090K

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FUTURA 3D 80 | FUTURA 3D 80 micro | FUTURA 3D 80 lgc | FUTURA 3D 80 micro lgc

FUTURA 3D 80 ALUMINIUM WOOD

Functions

Complete system for the construction of tilt-and-turn windows with load capacities of up to 90 kg. Available in the standard, logic and microventilation versions.

Technical Features

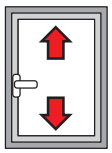
Making a FUTURA 3D 80 Flush tilt-and-turn window mechanism requires:

- Hinge kit
- Set of fastening mechanisms for Cremones and window handles
- Arms, available in three versions (standard, micro-ventilation and logic)
- Cremone or window handle (available in different models to choose from in the specific catalogue section)

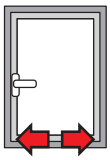
Adjustments

The adjustments are micrometric and indipendent.

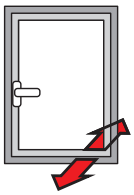
ADJUSTMENTS [mm]



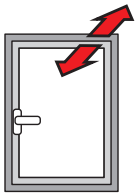
Height:
+1.5 / -0.5



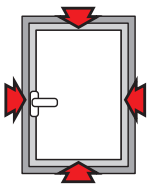
Side:
±1



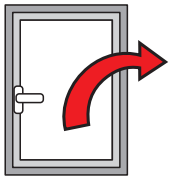
Bottom hinge compression:
±0.3



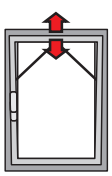
Top hinge compression:
±1.5



Striker compression:
±1.8



Sash fall:
+3.5 / -1.5



Micro-ventilation:
+3.6 / -1.8

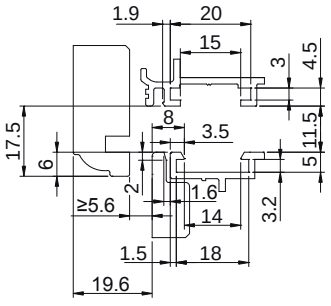


Table of maximum glass thickness [mm]

	390	500	600	700	800	900	1000	1100	1200	1300	1400	1500
2500	23	20	17	15	13	12	11	10	9	8	8	
2400	26	22	19	16	15	13	12	11	10	9	8	
2300	27	23	19	17	15	14	12	11	10	10	8	
2200	29	24	20	18	16	14	13	12	11	10	9	
2100	30	25	21	19	17	15	14	12	11	11	9	
2000	31	26	22	20	17	16	14	13	12	11	10	
1900	33	28	24	21	18	17	15	14	13	12	10	
1800	35	29	25	22	19	17	16	15	13	12	11	
1700	37	31	26	23	21	18	17	15	14	13	11	
1600	39	33	28	25	22	20	18	16	15	14	12	
1500	42	35	30	26	23	21	19	17	16	14	12	
1400	45	37	32	28	25	22	20	19	16	14	12	
1300	48	40	34	30	27	24	22	19	16	14	12	
1200	50	44	37	33	29	26	23	19	16	14		
1100	50	48	41	36	32	28	23	19	16			
1000	50	50	45	39	34	28	23	19				
900	50	50	50	43	34	28	23					
800	50	50	50	43	34	28						
700	50	50	50	43	34							
600												

Table of maximum load capacity [kg]

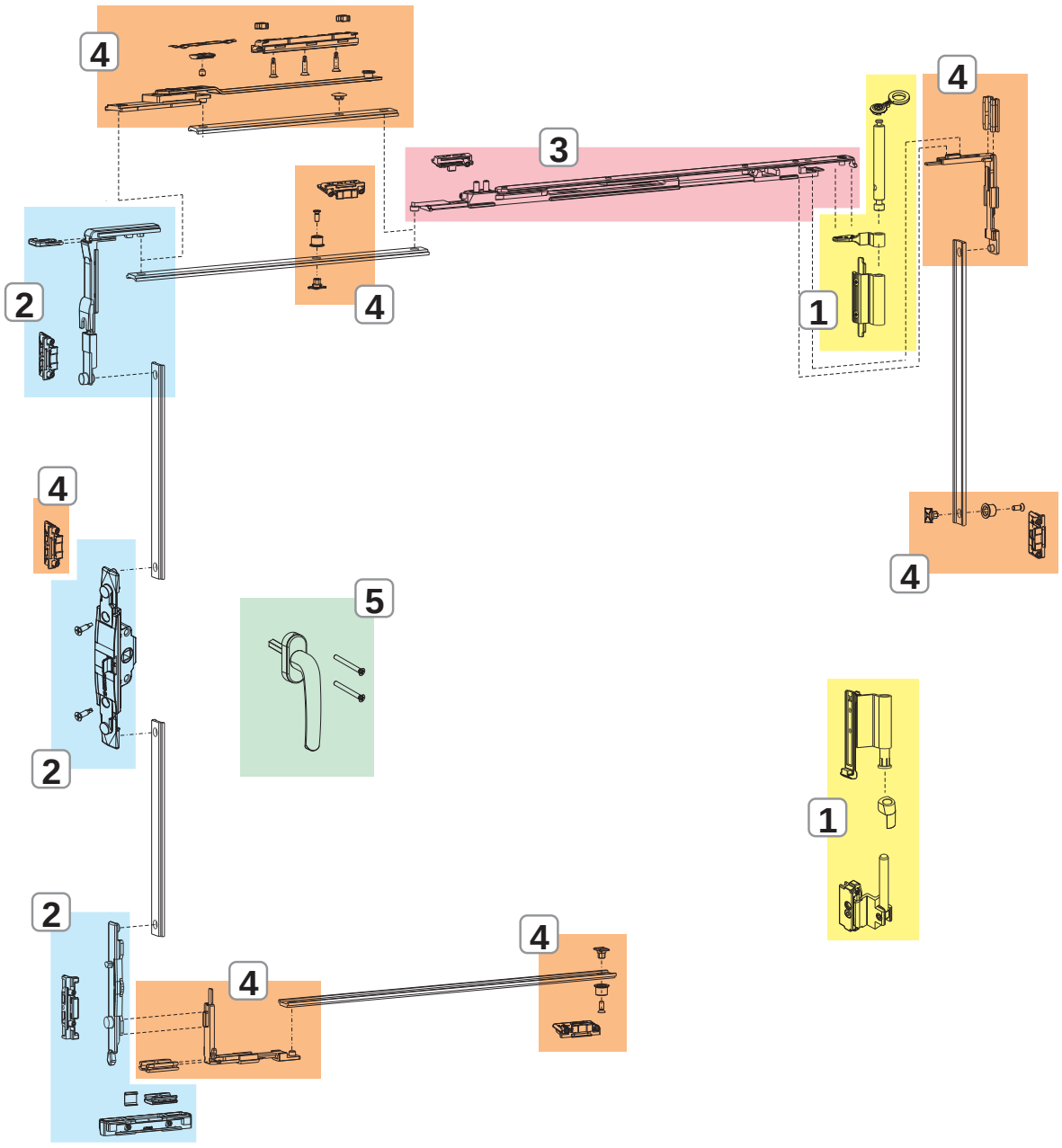
	390	500	600	700	800	900	1000	1100	1200	1300	1400	1500
2500	75	75	75	75	75	75	75	75	75	75	75	
2400	80	80	80	80	80	80	80	80	80	80	75	
2300	80	80	80	80	80	80	80	80	80	80	75	
2200	80	80	80	80	80	80	80	80	80	80	75	
2100	80	80	80	80	80	80	80	80	80	80	75	
2000	80	80	80	80	80	80	80	80	80	80	75	
1900	80	80	80	80	80	80	80	80	80	80	75	
1800	80	80	80	80	80	80	80	80	80	80	75	
1700	80	80	80	80	80	80	80	80	80	80	75	
1600	80	80	80	80	80	80	80	80	80	80	75	
1500	80	80	80	80	80	80	80	80	80	75	70	
1400	80	80	80	80	80	80	80	80	76	70	66	
1300	80	80	80	80	80	80	80	76	70	65	61	
1200	80	80	80	80	80	80	77	70	65	60		
1100	80	80	80	80	80	77	70	65	60			
1000	80	80	80	80	78	70	64	59				
900	80	80	80	79	70	63	58					
800	80	80	80	70	63	56						
700	80	80	70	62	55							
600												

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FUTURA 3D 80

FUTURA 3D 80 micro

Futura 3D 80 Aluminium Wood, traditional



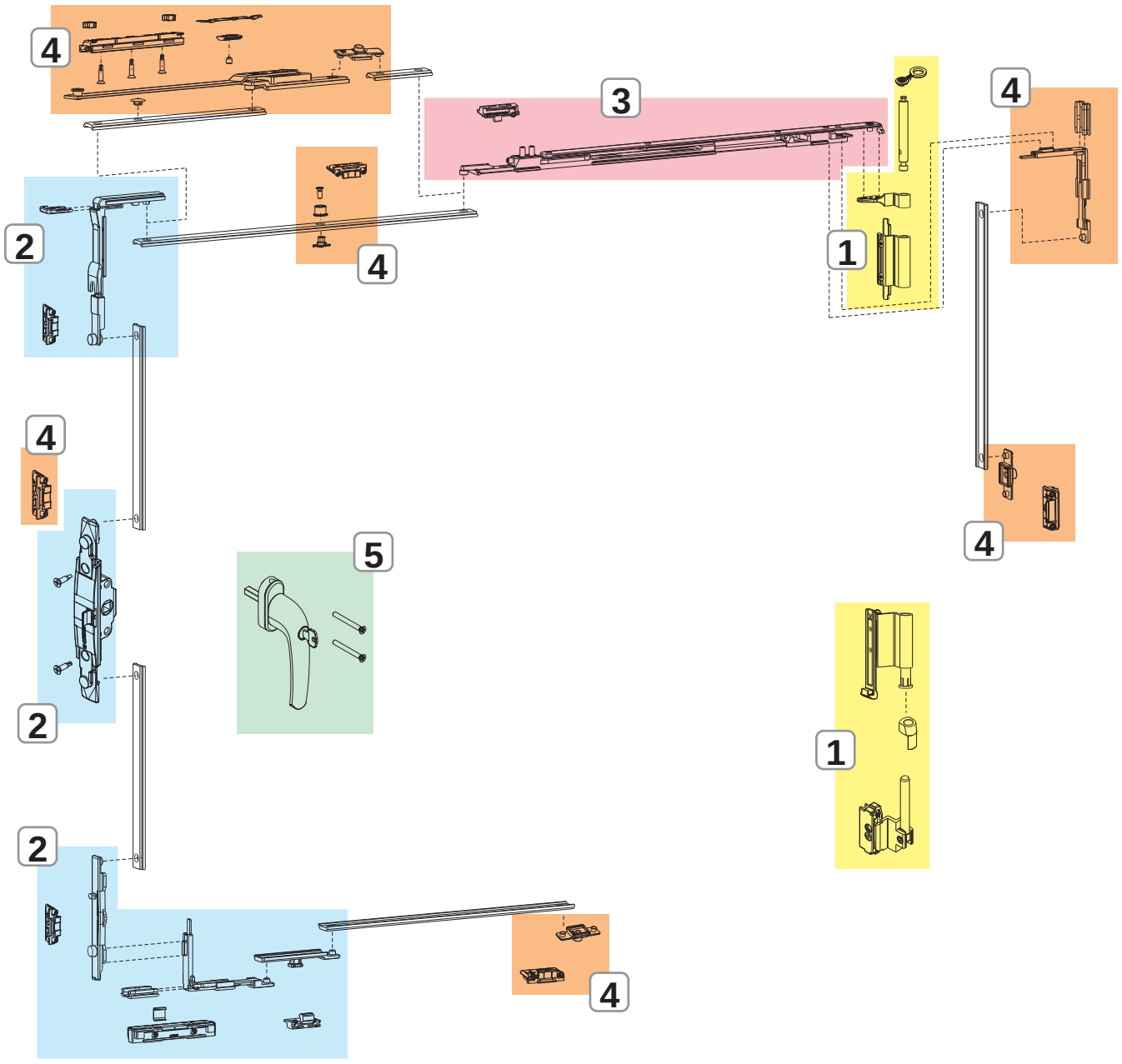
1. FUTURA 3D 80 ALUMINIUM WOOD HINGES
2. FUTURA 3D 80 ALUMINIUM WOOD FASTENING MECHANISMS
3. FUTURA 3D 80 ALUMINIUM WOOD ARMS
4. FUTURA 3D 80 ALUMINIUM WOOD ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES
5. WINDOW HANDLES

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FUTURA 3D 80 lgc

FUTURA 3D 80 micro lgc

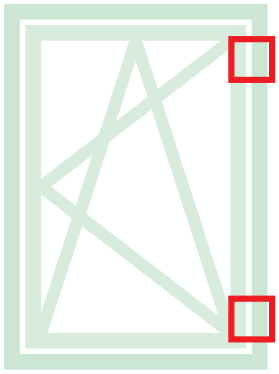
Futura 3D 80 Aluminium Wood, logica



1. FUTURA 3D 80 ALUMINIUM WOOD HINGES
2. FUTURA 3D 80 ALUMINIUM WOOD FASTENING MECHANISMS
3. FUTURA 3D 80 ALUMINIUM WOOD ARMS
4. FUTURA 3D 80 ALUMINIUM WOOD ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES
5. WINDOW HANDLES

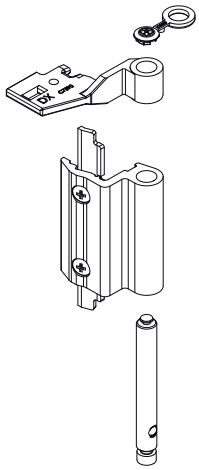
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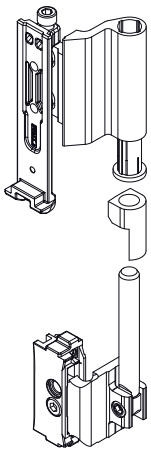
FUTURA 3D 80 FLUSH ALUMINIUM-WOOD HINGES

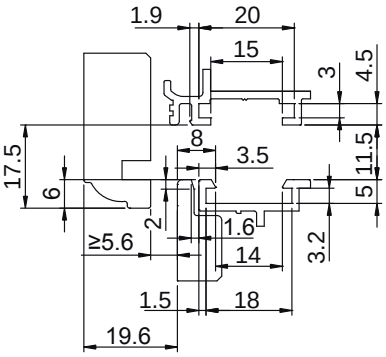


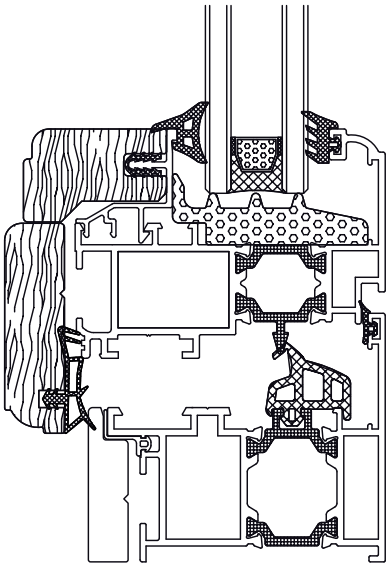
Hinge set (upper and lower), completely pre-assembled and ready to be installed on the profile.
Body of hinges in extruded aluminium, stainless steel and brass.
Supports in zamak with GS Silver Plus finish (up to 500 hr corrosion resistance).
Pins, screws and grub screws in stainless steel.

04709





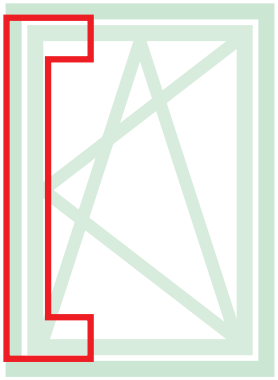




Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04709	FUTURA ALUMINIUM WOOD T/T HINGE	See quoted section			X	X	10

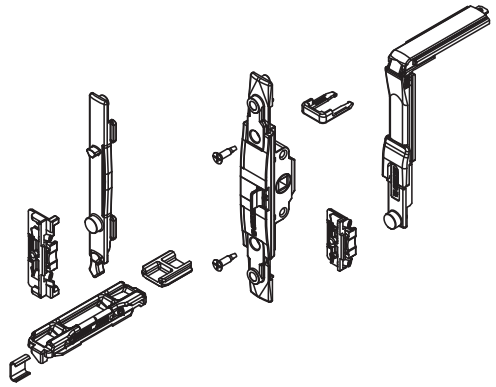
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FUTURA 3D 80 ALUMINIUM-WOOD FASTENING MECHANISMS

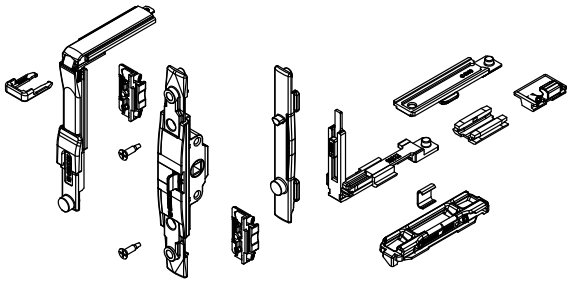


Tilt-and-turn window fastening mechanisms for cremone or window handle, available in Base and Logica versions.
Drive, drive rod, mechanism bolt tip and strikers in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance).
Screws and grub screws in stainless steel.
Polyamide raiser.

04705N



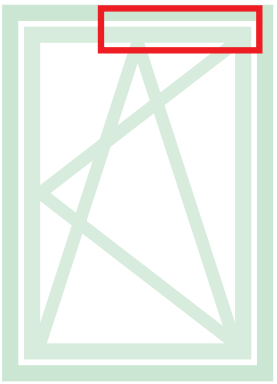
04707V



Item code	Description	PROFILE CROSS - SECTION	Window handle	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04705N	T/T M 180 FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle	-	X				10
04707V	T/T M 180 LOGICA FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle	Logica	X				10

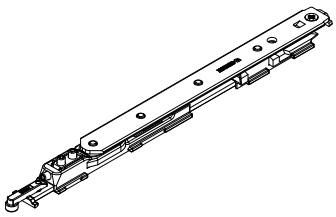
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FUTURA 3D 80 ALUMINIUM-WOOD ARMS

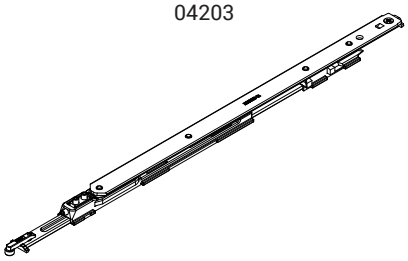


They enable tilt-and-turn opening in conjunction with the mechanisms and are available in three versions (standard, microventilation and logic).
Body, fixing block and slider in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance).
Rod, connecting bracket, grub screws and screws in stainless steel. Stop disk in polyamide.

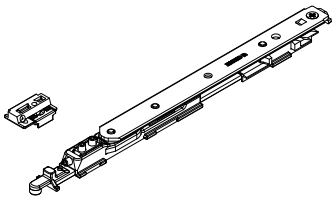
04202



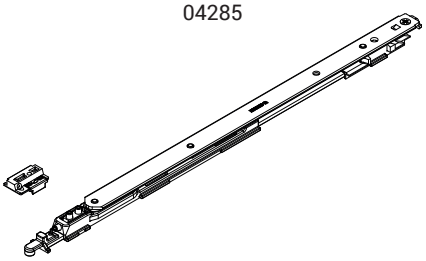
04203



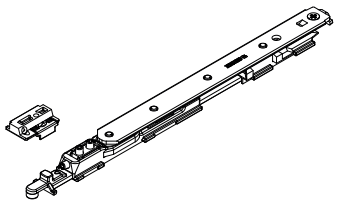
04284



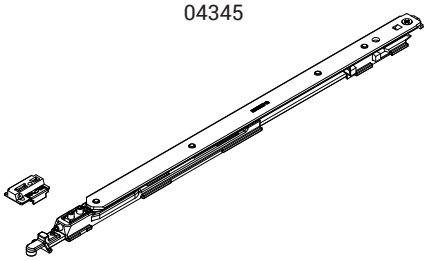
04285



04344



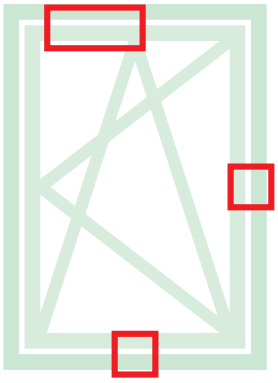
04345



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Version	A (mm)	Base Raw	Anodised Elox	Painted	Order
04202	ARM TYPE 1 T/T FUTURA LOGICA 130	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	W 390 ÷ 700	Logica	120				
04203	ARM TYPE 2 T/T FUTURA LOGICA 130	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	W 701 ÷ 1800	Logica	175				
04284	ARM T1 130 WITH MICROVENTI-LATION	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	W 410 ÷ 700	Micro	120				
04285	ARM T2 130 WITH MICROVENTI-LATION	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	W 701 ÷ 1800	Micro	175				
04344	ARM T1 130 MICROVENTILATION LOGIC	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	W 410 ÷ 700	Logica Micro	120				
04345	ARM T2 130 MICROVENTILATION LOGIC	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	W 701 ÷ 1800	Logica Micro	175				

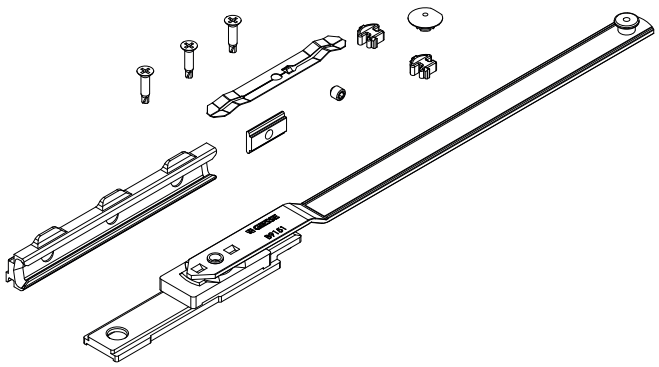
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FLUSH FUTURA 3D 80 ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES

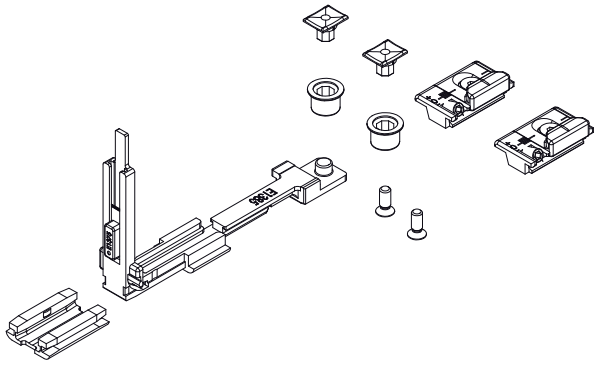


The additional fasteners make it possible to add further fastening elements that either increase the dimensions of the casement or that can be used when locking points are needed on the cross beams or hinge-side upright.
On the basis of the dimensions of the casement, additional fasteners (for H>1200 mm and W>1000 mm) and the additional arm (which is mandatory for W>1000 mm) are to be used in combination with this mechanism

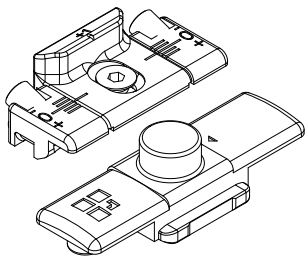
04301K



04770K



04777K



Item code	Description	Interface type	Range (mm)	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04301K	T/T FUTURA ADDITIONAL ARM	C001-C002-C003-C004-C005-C006	W > 1000	-	X				5
04770K	FUTURA ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	H > 1200 L > 1000	-	X				10
04777K	FUTURA ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	H > 1200 L > 1000	Logica	X				50

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CLASSIC 3D

CLASSIC 3D 80

CLASSIC 3D 80 lgc

CLASSIC 3D 80 micro



Ask to your sales rep for product availability.

Functions
CLASSIC 3D is the Tilt and Turn system for medium-sized windows with 3D adjustment.

Technical Features
The CLASSIC 3D tilt-and-turn window is available in the standard, logica and microventilation version.

Adjustments
The CLASSIC 3D tilt-and-turn window enables micrometric adjustment in every direction, ideal after installing the casement.

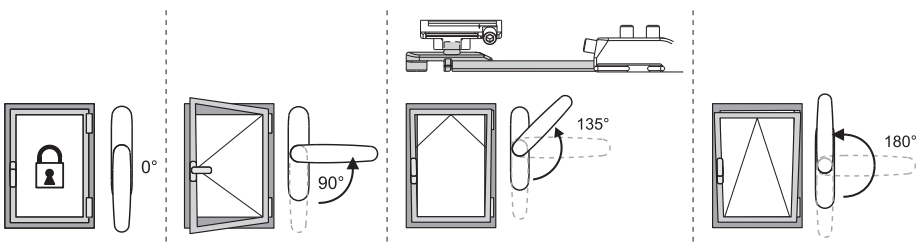
Micro-ventilation
Microventilation enables having simultaneously both the tilt-and-turn position and micro-ventilation (precision opening of the sash) on the casement.

Logica
The logical operation consists in first tilt-and-turn opening (with the cremone at 90°) and secondly side-hung opening (with the cremone at 180°). Its use is particularly recommended in public buildings (schools, hospitals, etc.) in combination with a cremone with a key in order to have only tilt-and-turn window opening for safety reasons and to allow full opening only for staff with the key.

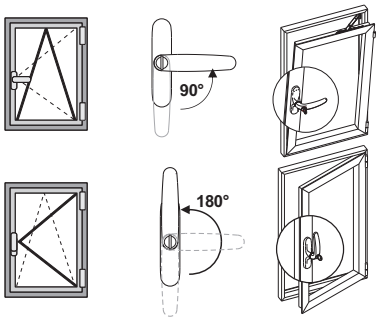
CLASSIC 3D tilt-and-turn window versions: type and weight

Description	3D adjustments	Micro-ventilation	Logica	Certification QM328	Maximum load capacity
CLASSIC 3D 80	Yes	Yes	Yes	No	80 Kg

Standard microventilation



Logica mechanism operation



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CLASSIC 3D 80 | CLASSIC 3D 80 micro | CLASSIC 3D 80 lgc

CLASSIC 3D 80

Functions

Complete system for the construction of tilt-and-turn windows with load capacities of up to 80 kg.
Available in the standard, logic and microventilation versions.

Technical Features

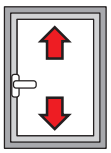
Making a CLASSIC 3D 80 tilt-and-turn window mechanism requires:

- Hinge kit
- Set of fastening mechanisms for Cremones and window handles
- Arms, available in three versions (standard, micro-ventilation and logic)
- Cremone or window handle (available in different models to choose from in the specific catalogue section)

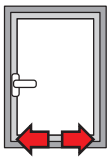
Adjustments

The adjustments are micrometric and indipendent.

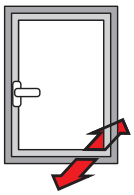
ADJUSTMENTS [mm]



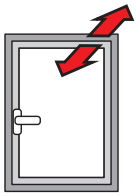
Height:
+1.5 / -0.5



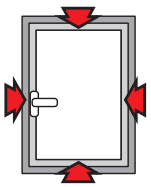
Side:
±1



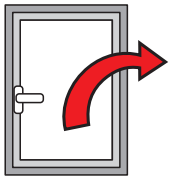
Bottom hinge compression:
±0.3



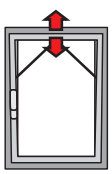
Top hinge compression:
±1.5



Striker compression:
±1.8



Sash fall:
+3.5 / -1.5



Micro-ventilation:
+3.6 / -1.8

Table of maximum glass thickness [mm]

	350	500	600	700	800	900	1000	1100	1200	1300
2500	25	21	18	16	14	13	11	10	10	
2400	26	22	19	16	15	13	12	11	10	
2300	27	23	19	17	15	14	12	11	10	
2200	29	24	20	18	16	14	13	12	11	
2100	30	25	21	19	17	15	14	12	11	
2000	31	26	22	20	17	16	14	13	12	
1900	33	28	24	21	18	17	15	14	13	
1800	35	29	25	22	19	17	16	15	13	
1700	37	31	26	23	21	18	17	15	14	
1600	39	33	28	25	22	20	18	16	15	
1500	42	35	30	26	23	21	19	17	16	
1400	45	37	32	28	25	22	20	19	17	
1300	48	40	34	30	27	24	22	20	17	
1200	50	44	37	33	29	26	24	20	17	
1100	50	48	41	36	32	29	24	20		
1000	50	50	45	39	35	29	24			
900	50	50	50	44	35	29				
800	50	50	50	45	35					
700	50	50	50	45						
600										

Table of maximum load capacity [kg]

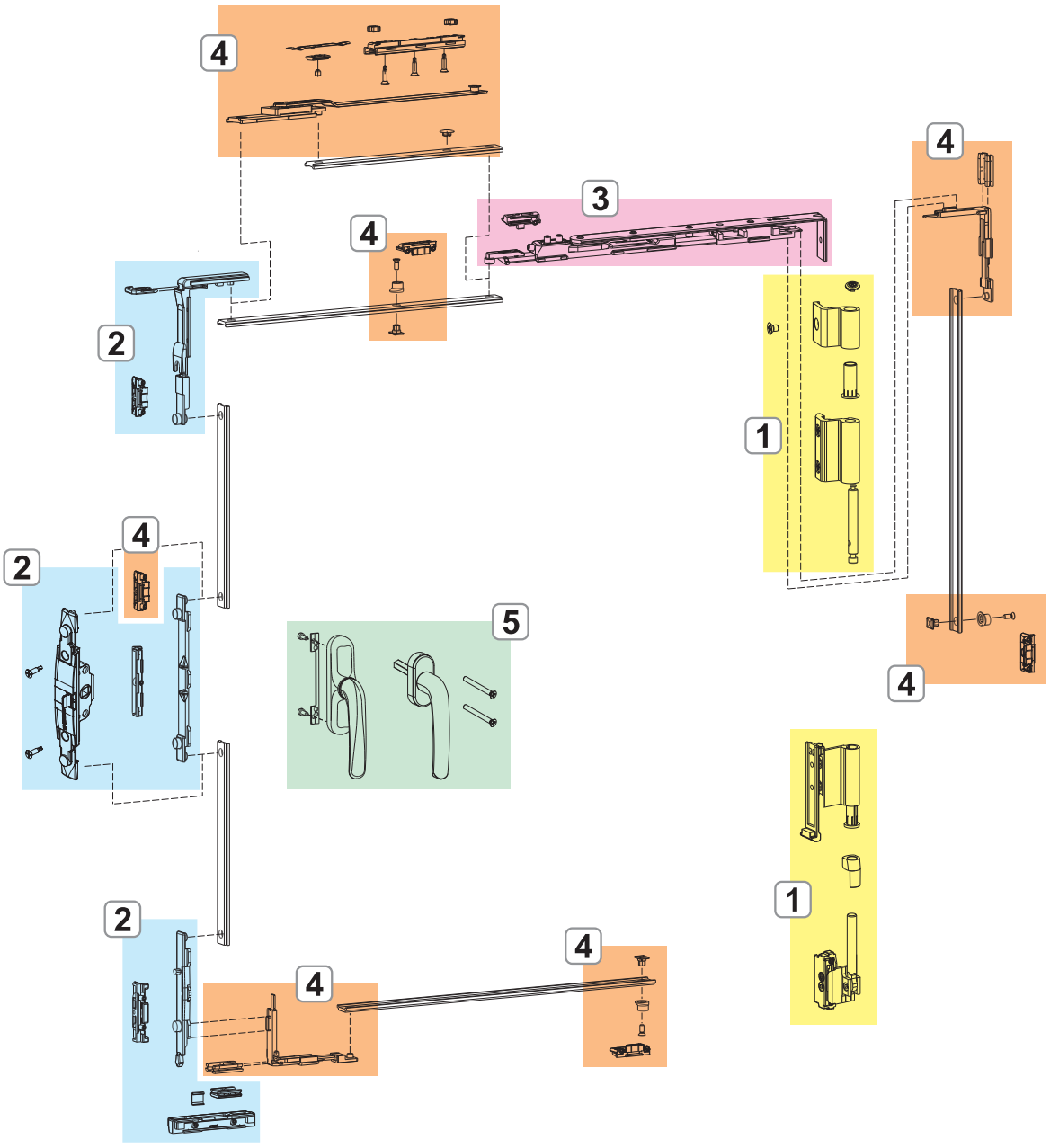
	350	500	600	700	800	900	1000	1100	1200	1300
2500	80	80	80	80	80	80	80	80	80	
2400	80	80	80	80	80	80	80	80	80	
2300	80	80	80	80	80	80	80	80	80	
2200	80	80	80	80	80	80	80	80	80	
2100	80	80	80	80	80	80	80	80	80	
2000	80	80	80	80	80	80	80	80	80	
1900	80	80	80	80	80	80	80	80	80	
1800	80	80	80	80	80	80	80	80	80	
1700	80	80	80	80	80	80	80	80	80	
1600	80	80	80	80	80	80	80	80	80	
1500	80	80	80	80	80	80	80	80	80	
1400	80	80	80	80	80	80	80	80	80	
1300	80	80	80	80	80	80	80	80	78	
1200	80	80	80	80	80	80	80	79	73	
1100	80	80	80	80	80	80	79	73	67	
1000	80	80	80	80	80	80	73	67		
900	80	80	80	80	80	73	66			
800	80	80	80	80	73	66				
700	80	80	80	73	65					
600	80	80	73	64						

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CLASSIC 3D 80

CLASSIC 3D 80 micro

Classic 3D 80 traditional

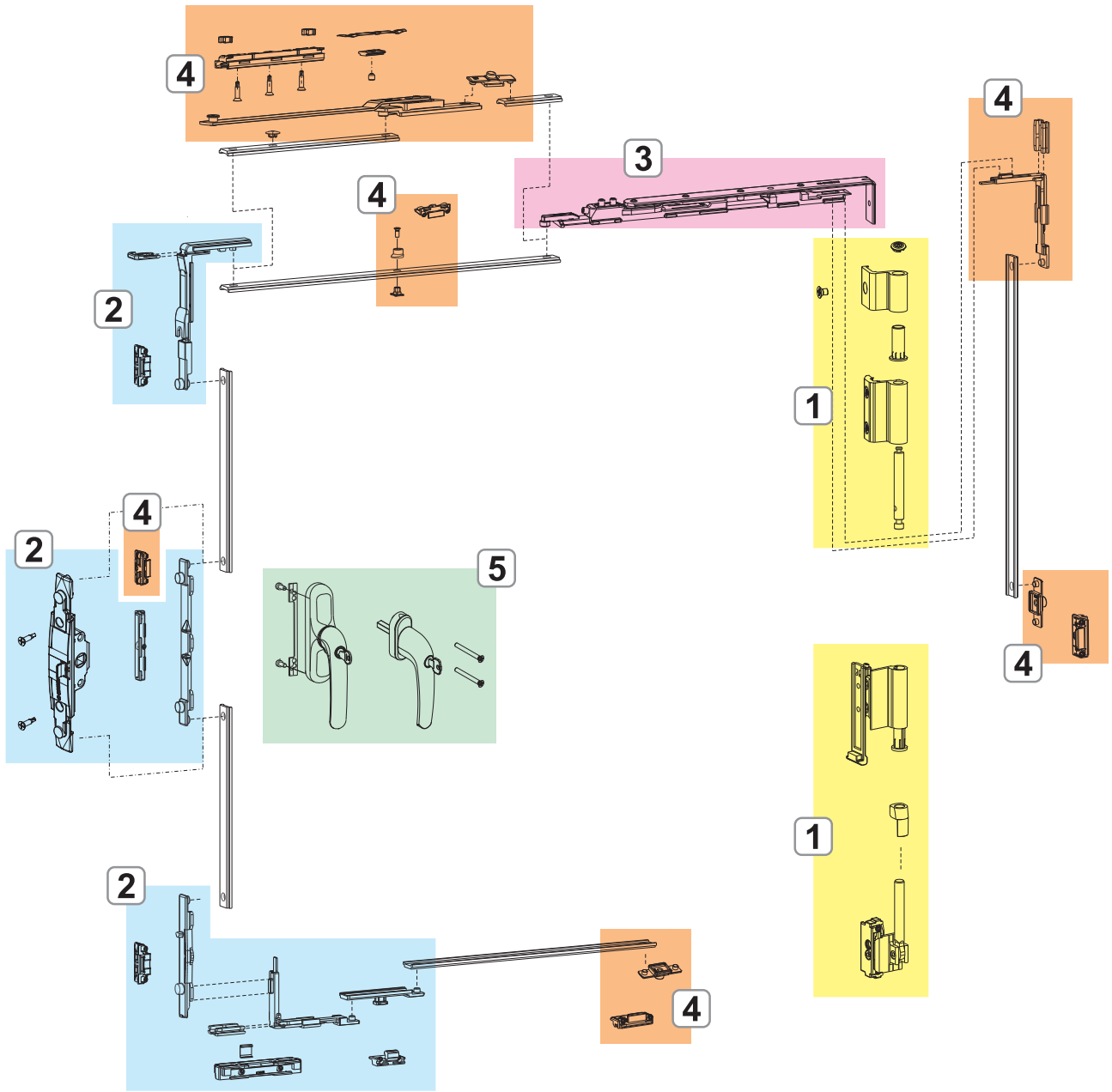


1. CLASSIC 3D 80 HINGES
2. CLASSIC 3D 80 FASTENING MECHANISMS
3. CLASSIC 3D 80 ARMS
4. CLASSIC 3D 80 ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES
5. CREMONES AND WINDOW HANDLES

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CLASSIC 3D
80 lgc

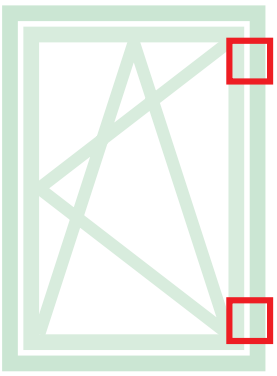
Classic 3D 80 logica



1. CLASSIC 3D 80 HINGES
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5. CREMONES AND WINDOW HANDLES

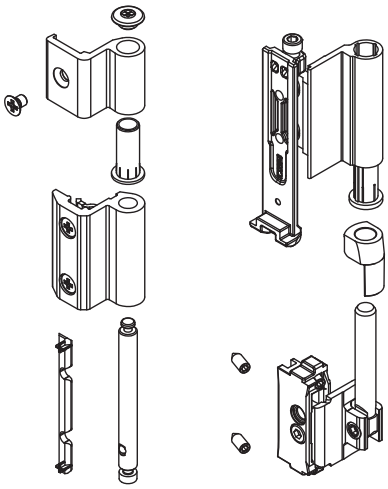
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CLASSIC 3D 80 HINGES



Hinge set (upper and lower), completely pre-assembled and ready to be installed on the profile.
Extruded aluminium hinge body.
Supports in zamak with GS Silver Plus finish (up to 500 hr corrosion resistance).
Pins, screws and grub screws in stainless steel.

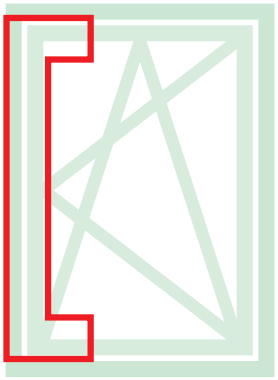
04739



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04739	HINGE T/T CLASSIC 80	C001-C002-C003-C005	X	X	X		10

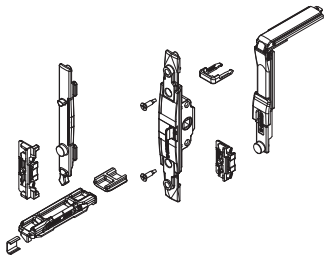
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CLASSIC 3D 80 FASTENING MECHANISMS

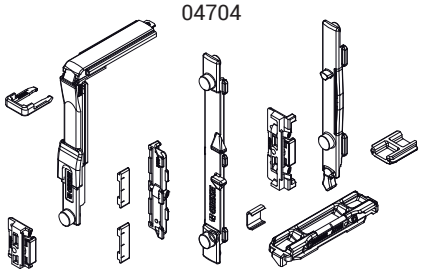


Tilt-and-turn window fastening mechanisms for cremone or window handle, available in Base and Logica versions.
Drive, drive rod, mechanism bolt tip and strikers in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance).
Screws and grub screws in stainless steel.
Polyamide raiser.

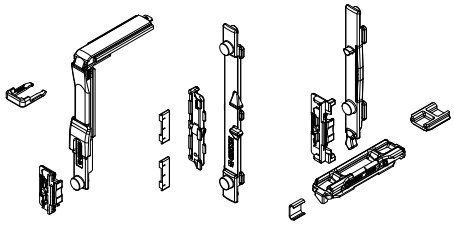
04705N



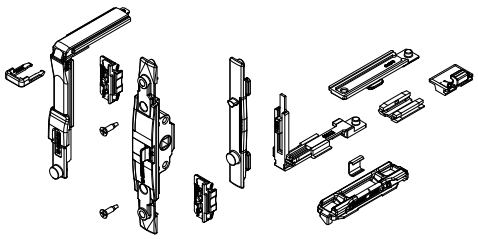
04704



04704010



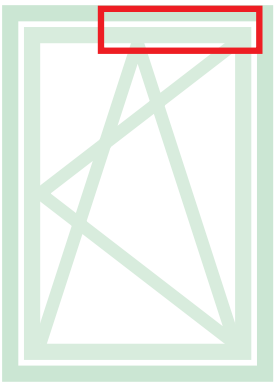
04707V



Item code	Description	PROFILE CROSS - SECTION	Window handle	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04704	T/T FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Cremone	-	X				10
04704010	T/T FASTENING MECHANISM	C003	Cremone	-	X				10
04705N	T/T M 180 FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle	-	X				10
04707V	T/T M 180 LOGICA FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle	Logica	X				10

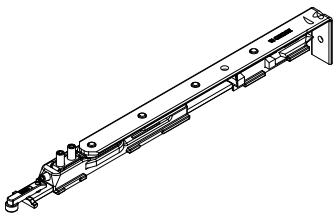
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CLASSIC 3D 80 ARMS

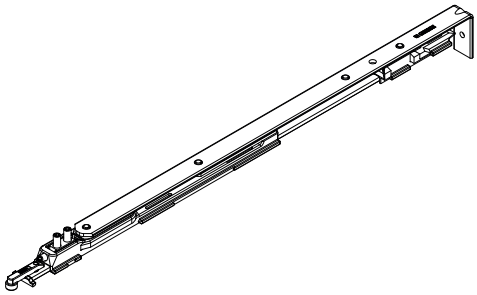


They enable tilt-and-turn opening in conjunction with the mechanisms and are available in three versions (standard, microventilation and logic).
Body, fixing block and slider in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance).
Rod, connecting bracket, grub screws and screws in stainless steel. Stop disk in polyamide.

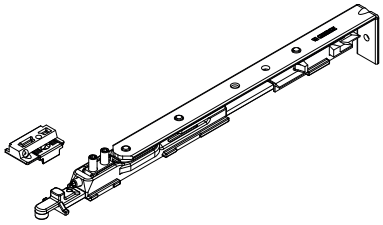
04329



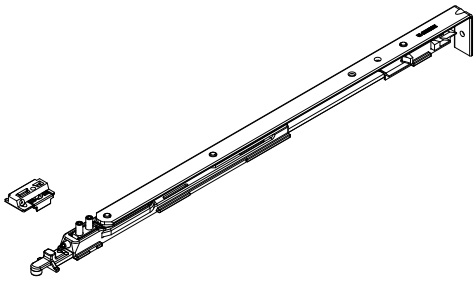
04330



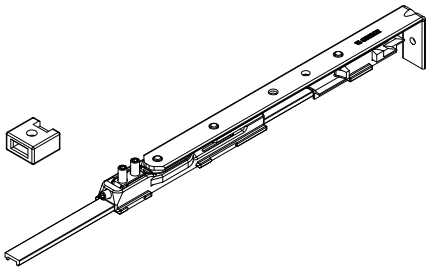
04339



04340



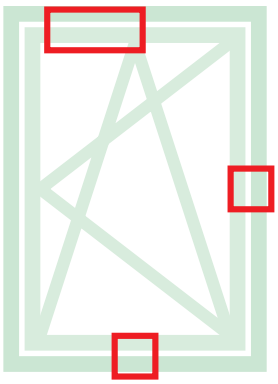
04352



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04329	ARM TYPE 1 T/T CLASSIC 3D 80 LOGICA	C001-C002-C003-C005	W 390 ÷ 1300	Logica	X				10
04330	ARM TYPE 2 T/T CLASSIC 3D 80 LOGICA	C001-C002-C003-C005	W 550 ÷ 1700	Logica	X				10
04339	ARM TYPE 1 T/T CLASSIC 3D 80 MICRO	C001-C002-C003-C005	W 410 ÷ 1300	Micro	X				10
04340	ARM TYPE 2 T/T CLASSIC 3D 80 MICRO	C001-C002-C003-C005	W 570 ÷ 1700	Micro	X				10
04352	ARM TYPE 0 T/T CLASSIC 80	C001-C002-C003-C005	W 350 ÷ 410	-	X				10

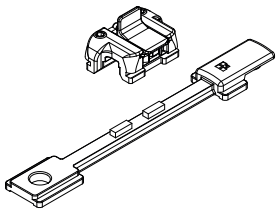
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CLASSIC 3D 80 ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES

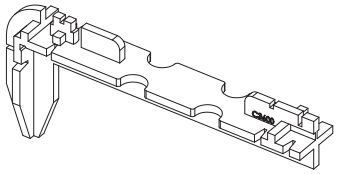


The additional fasteners make it possible to add further fastening elements that either increase the dimensions of the casement or that can be used when locking points are needed on the cross beams or hinge-side upright.
On the basis of the dimensions of the casement, additional fasteners (for H>1200 mm and W>1000 mm) and the additional arm (which is mandatory for W>1000 mm if the sash weighs more than 60 kg) are to be used in combination with this mechanism.

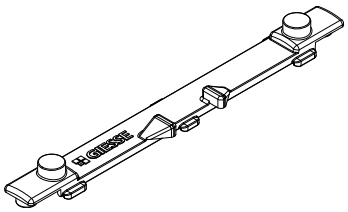
01299



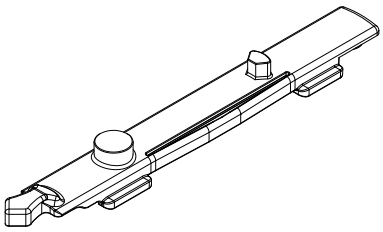
03528



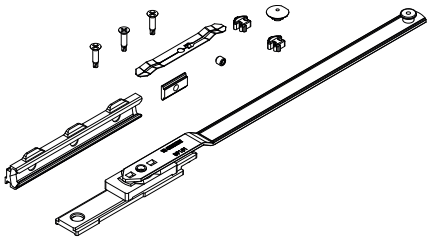
04014K



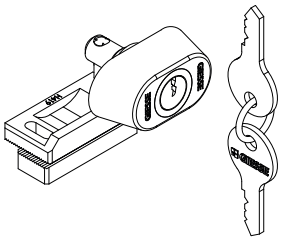
04026K



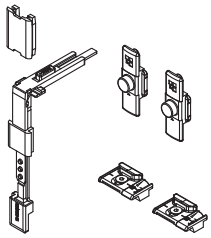
04301K



04311



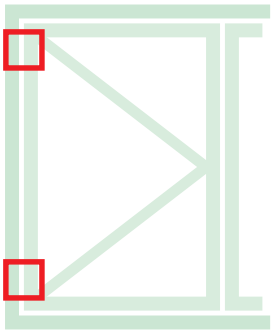
04778



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01299	INCORRECT MOVEMENT SAFETY DEVICE	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	H > 620 HC > 250	-	X				10
03528	TEMPLATE	C001-C002-C003-C004-C005-C006	-	-	X				20
04014K	FUTURA T/T DRIVE ROD	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	-	-	X				10
04026K	FUTURA T/T BOLT TIP	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	-	-	X				10
04301K	T/T FUTURA ADDITIONAL ARM	C001-C002-C003-C004-C005-C006	W > 1000	-	X				5
04311	SASH OPENING BLOCK LOCK	C001-C002-C003-C004-C005-C006-C007-C013-C014-C015-C016-C017	-	-	X				10
04778	FUTURA ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C005	H > 1200 L > 1000	-	X				10

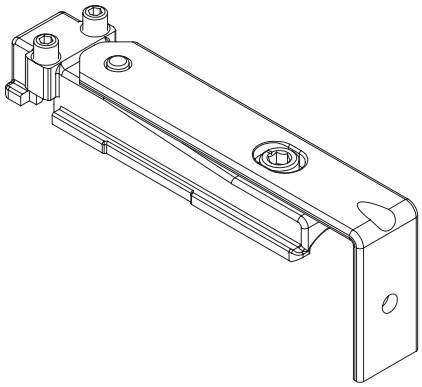
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CLASSIC 80 SECONDARY SASH



Adapter for CLASSIC 3D 80 tilt-and-turn secondary sash hinges.
The adapter lets you turn the set of tilt-and-turn hinges into hinges for a secondary sash, keeping the same design, adjustments, dimensions and capacities achievable with a main sash.
Grub screws and false arm rod made of steel
Support in zamak

04727



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04727	CLASSIC 3D 80 SECONDARY SASH ADAPTER	C001-C002-C003-C005	X				10

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CONFIGURATION EXAMPLES

CLASSIC 3D 80

Basic configuration with Cremone

Sash width	350 ÷ 389	390 ÷ 1000	1001 ÷ 1300
Hinges	04739	04739	04739
Mechanism	04704	04704	04704
Arm	04352	04322	04322
Additional arm	-	-	04301K*
Cremone	01033K - 01090K	-	01033K - 01090K

* Capacity > 60 kg

Basic configuration with window handle

Sash width	350 ÷ 389	390 ÷ 1000	1001 ÷ 1300
Hinges	04739	04739	04739
Mechanism	04705N	04705N	04705N
Arm	04352	04322	04322
Additional arm	-	-	04301K*
Window handle	02476 - 02415 - 00997	02476 - 02415 - 00997	02476 - 02415 - 00997

* Capacity > 60 kg

Basic configuration with NP Supra

Sash width	350 ÷ 389	390 ÷ 1000	1001 ÷ 1300
Hinges	04739	04739	04739
Mechanism	0395501	0395501	0395501
Arm	04352	04322	04322
Additional arm	-	-	04301K*
NP Supra	03962 - 03963	03962 - 03963	03962 - 03963

* Capacity > 60 kg

Micro configuration with Cremone

Sash width	410 ÷ 1000	1001 ÷ 1300
Hinges	04739	04739
Mechanism	04704	04704
Arm	04339	04339
Additional arm	-	04301K*
Cremone	01039 - 01094	-

* Capacity > 60 kg

Micro configuration with window handle

Sash width	410 ÷ 1000	1001 ÷ 1300
Hinges	04739	04739
Mechanism	04705N	04705N
Arm	04339	04339
Additional arm	-	04301K*
Window handle	02476 - 02415 - 00997	02476 - 02415 - 00997

* Capacity > 60 kg

Micro configuration with NP Supra

Sash width	410 ÷ 1000	1001 ÷ 1300
Hinges	04739	04739
Mechanism	0395501	0395501
Arm	04339	04339
Additional arm	-	04301K*
NP Supra	03962 - 03963	03962 - 03963

* Capacity > 60 kg

Logica configuration with Cremone

Sash width	390 ÷ 1000	1001 ÷ 1300
Hinges	04739	04739
Mechanism	04706N	04706N
Arm	04329	04329
Additional arm	-	04301K*
Cremone	01192 - 01193	-

* Capacity > 60 kg

Logica configuration with window handle

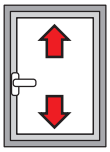
Sash width	390 ÷ 1000	1001 ÷ 1300
Hinges	04739	04739
Mechanism	04707V	04707V
Arm	04329	04329
Additional arm	-	04301K*
Window handle	02486	02486

* Capacity > 60 kg

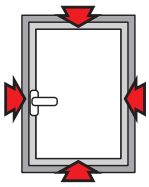
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GS990

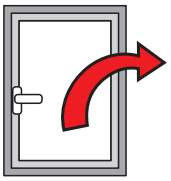
ADJUSTMENTS [mm]



Height:
+1.5 / -0.5



Striker compression:
±0,9



Sash fall:
+3.5 / -1.5

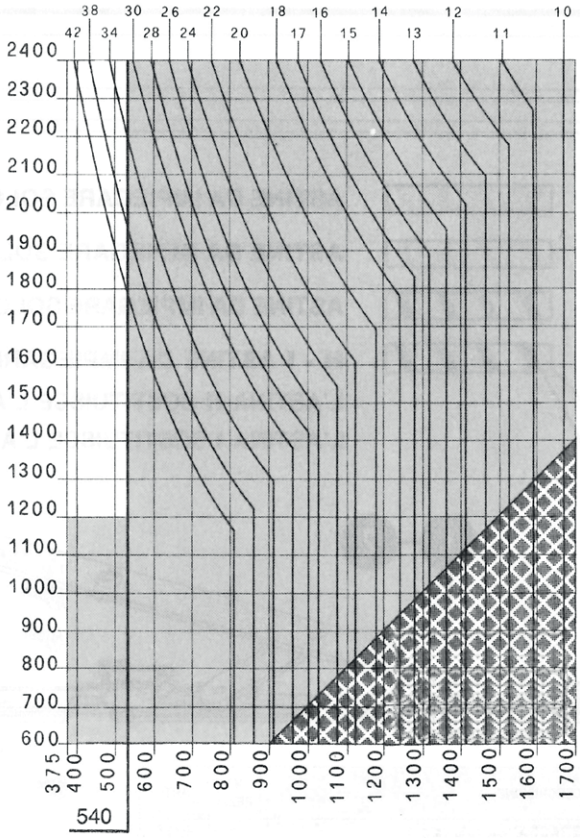
GS990

Functions
Complete system for the construction of GS990 tilt-and-turn windows.

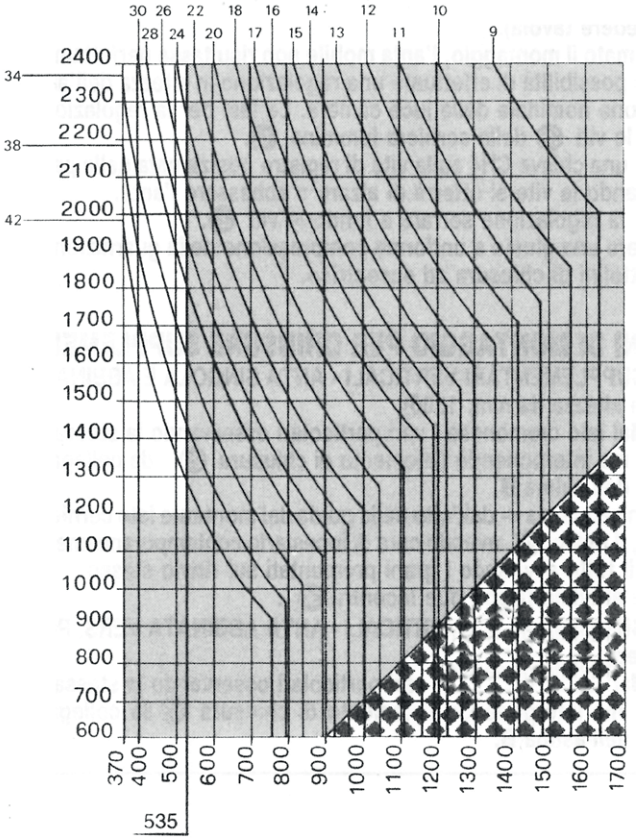
Technical Features
The GS990 tilt-and-turn window is composed of:
• T/T GS990 STANDARD FASTENING MECHANISMS
• ARMS, available in two versions depending on the width of the sash
• Cremone or window handle (available in various models)

Adjustments
The adjustments are micrometric and indipendent.

Graph of sizes and load capacities for art.: 04507, 04529

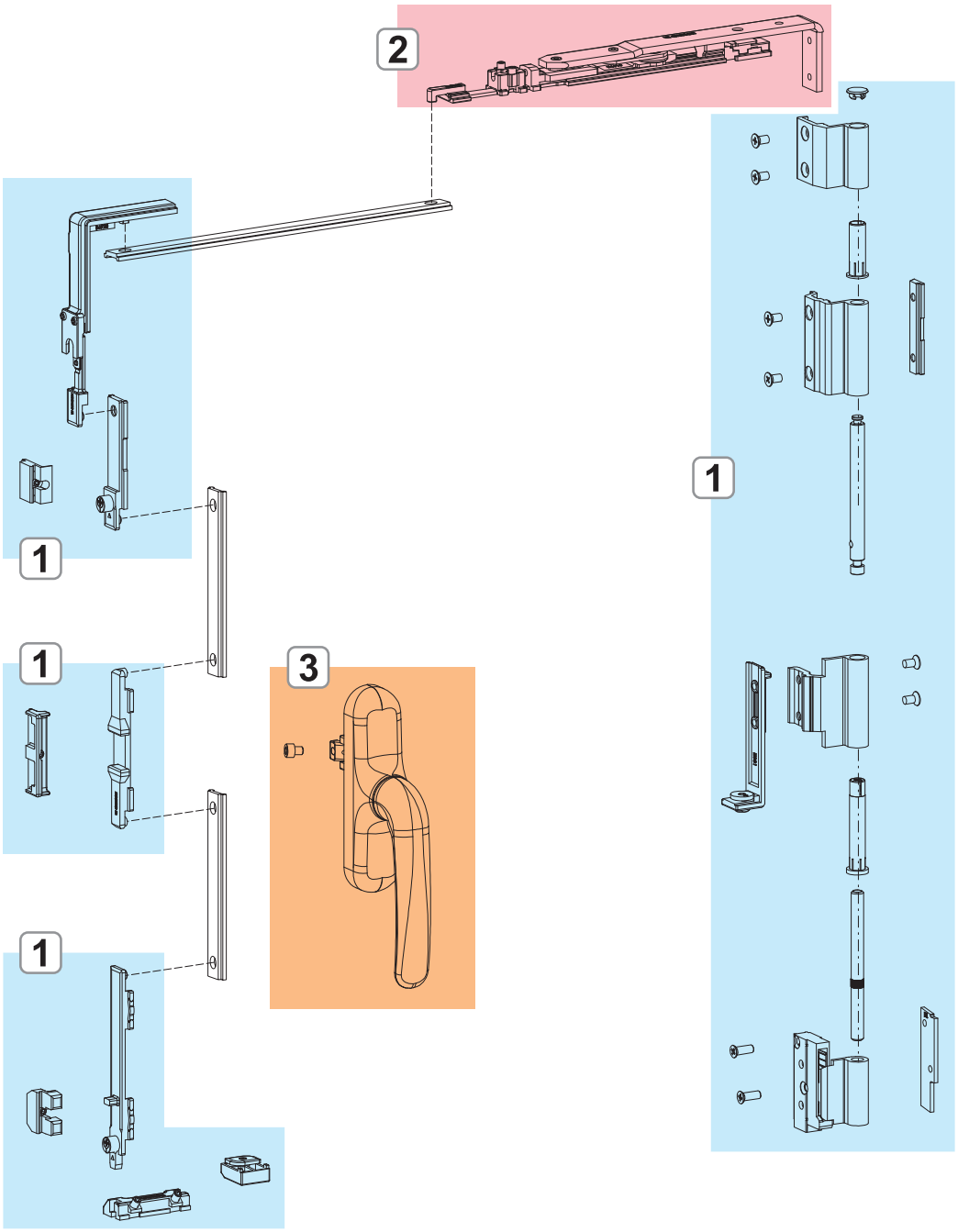


Graph of sizes and load capacities for art.: 04516, 04518



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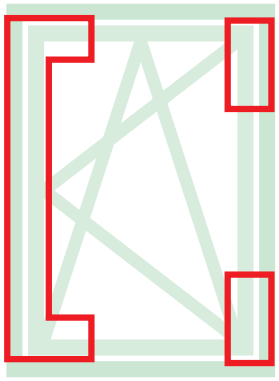
GS990



1. GS990 BASIC MECHANISM
2. GS990 ARMS
3. GS990 ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES
4. CREMONES

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GS990 BASIC MECHANISM



Mechanisms including hinges and hardware: available in the various finishes.
The hinges are supplied completely pre-assembled and ready to be installed on the profile, the hardware consists of pre-assembled accessories that make installation easy and instant.

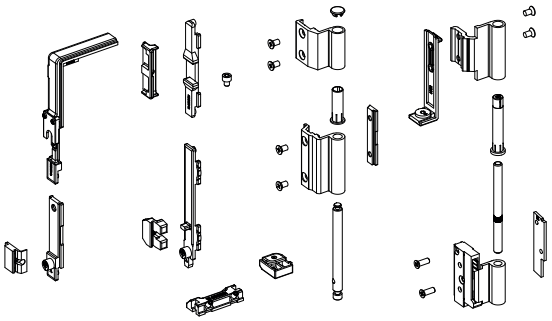
Materials: Hinges

Body of hinges in extruded aluminium and zamak supports.
Pins, screws and grub screws in stainless steel.

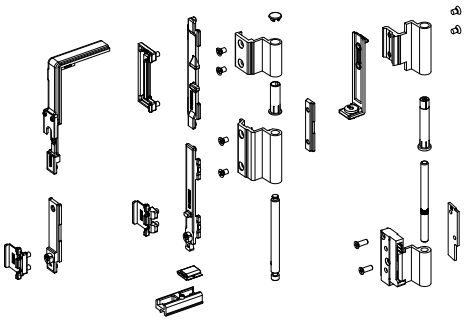
Materials: Mechanism

Drive, drive rod, mechanism bolt tip and strikers in zamak.
Screws and grub screws in stainless steel.
Polyamide raiser.

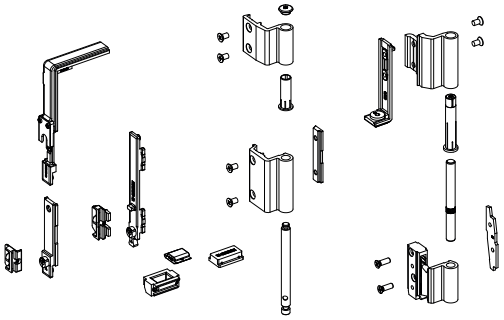
0450701



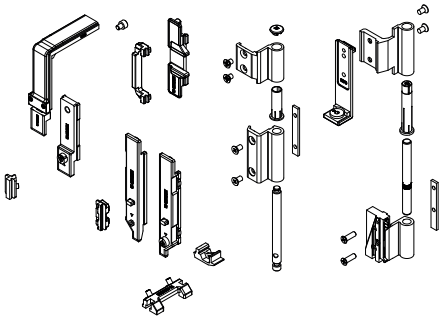
0451601



0451801



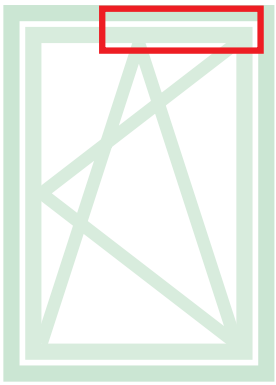
0452901



Item code	Description	PROFILE CROSS - SECTION	Window handle	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0450701	AR GS990 BASIC MECHANISM	C009	Cremone	X	X	X	X	5
0451601	AR GS990 BASIC MECHANISM	C010	Cremone		X	X	X	5
0451801	AR GS990 BASIC MECHANISM	C011	Window handle		X		X	5
0452901	AR GS990 BASIC MECHANISM	C008	Cremone	X	X	X	X	5

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GS990 ARMS

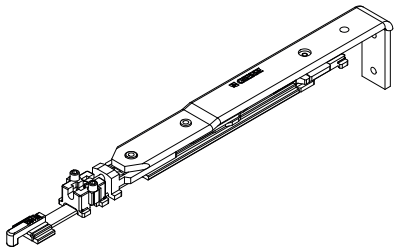


They enable tilt-and-turn opening in conjunction with the mechanisms and are available in two versions depending on the width of the sash.

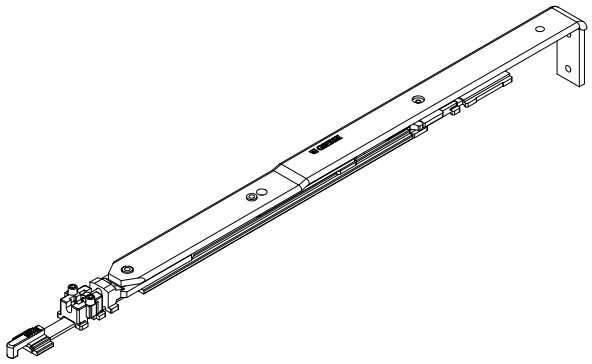
Materials

Body, fixing block and slider in zamak, mechanism rod in aluminium.
Arm rod, connecting bracket, grub screws and screws in stainless steel.
Stop disk in polyamide.

ARM T1 GS990



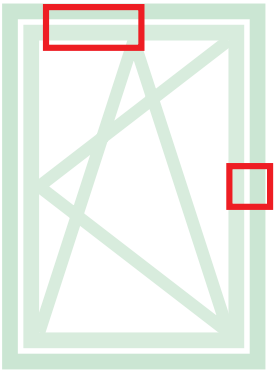
ARM T2 GS990



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0421101	ARM T1 GS990	C010-C011	W 370 ÷ 535	X				5
0421701	ARM T1 GS990	C009	W 375 ÷ 540	X				5
0422101	ARM T1 GS990	C010-C011	W 536 ÷ 1700	X				5
0422301	ARM T2 GS990	C010-C011	W 536 ÷ 1700	X				5
0422701	ARM T2 GS990	C009	W 541 ÷ 1700	X				5

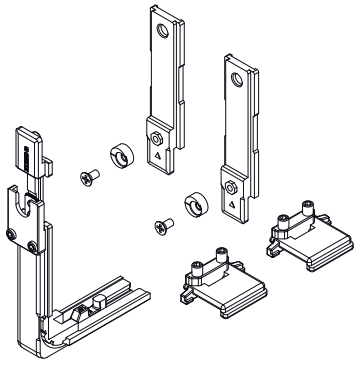
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GS990 ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES

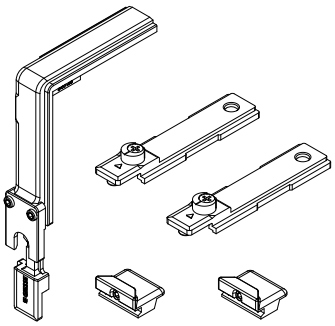


The additional fasteners make it possible to add further fastening elements that either increase the dimensions of the casement or that can be used when locking points are needed on the cross beams or on the upright.
On the basis of the dimensions of the casement, additional fasteners (for H>1200 mm) and the additional arm (which is mandatory for W>1000 mm) are to be used in combination with this mechanism.

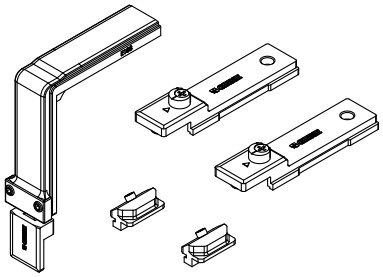
0424001



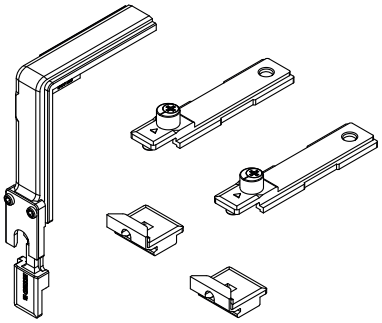
0424101



0424601



0424701



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0424001	VERTICAL ADDITIONAL FASTENING MECHANISM GS990	C010	H > 1200	X				10
0424101	VERTICAL ADDITIONAL FASTENING MECHANISM GS990	C011	H > 1200	X				10
0424601	VERTICAL ADDITIONAL FASTENING MECHANISM GS990	C008	H > 1200	X				10
0424701	VERTICAL ADDITIONAL FASTENING MECHANISM GS990	C009	H > 1200	X				10
0430601	ADDITIONAL ARM	C008	W > 1000	X				5
0430701	ADDITIONAL ARM	C009	W > 1000	X				5

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CONFIGURATION EXAMPLES

Basic configuration with Cremone

(profile cross-sections type 8 and 9)

Sash width	375 ÷ 540	541 ÷ 1700
Mechanism	0452901 - 0450701	0452901 - 0450701
Arm	0421701	0422701
Additional arm	-	0430601 - 0430701
Cremone	01033K - 01090K	01033K - 01090K

Basic configuration with window handle

(profile cross-section type 11)

Sash width	370 ÷ 535	536 ÷ 1700
Mechanism	0451801	0451801
Arm	0421101	0422301
Additional arm	-	04301K
Window handle	02476 - 02415 - 00997	02476 - 02415 - 00997

Basic configuration with Cremone

(profile cross-section type 10)

Sash width	370 ÷ 535	536 ÷ 1700
Mechanism	0451601	0451601
Arm	0421101	0422301
Additional arm	-	04301K
Cremone	01033K - 01090K	01033K - 01090K

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ACCESSORIES AND FASTENING MECHANISMS FOR SLIDERS

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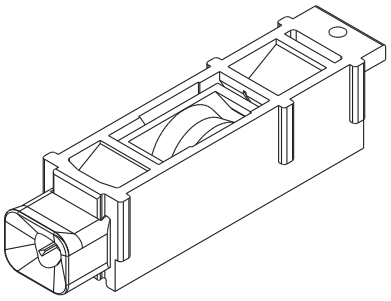
ADJUSTABLE CARRERA 1 PULLEYS

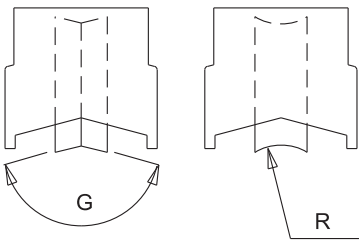
Functions
Adjustable pulley with one wheel for doors and windows in aluminium.

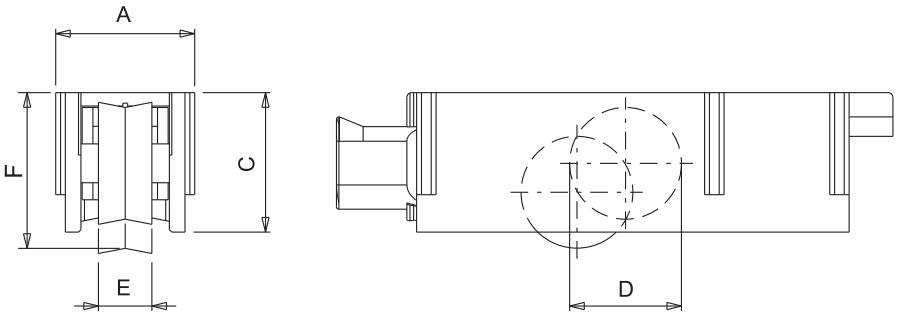
Technical Features
The pulley is fixed with a clamping grub screw, without requiring specific machining.
Micrometrically adjustable, it enables moving the sash vertically in an overall range of on average 4 mm (see adjustment column in the table).
Adjustment is easy since the adjustment screw is located inside the yellow centring element which facilitates insertion of the key. The adjustment can also be made with the sash already mounted and installed.
The wheels are mounted on ball bearings or needle bearings depending on the model and can be removed together with the support without having to disassemble the pulley.
The wheels with bearings are shielded to keep the grease inside them.

Materials
External support in grey polyamide
Yellow polyamide centring element
Wheel internal support in Silver Plus zamak or polyamide depending on the version (see table)
Wheel with bearing in steel and neutral reinforced polyamide cover
Mounting grubscrew and adjustment screw in stainless steel

Capacities
see table







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Item code	Description	Note	Pulley Load Capacity [kg]	A [mm]	C [mm]	D [mm]	E [mm]	F [mm]	Adjustment [mm]	G [°] R [mm]	Bearing type	External support	Internal support	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02633	CARRERA 1 ADJUSTABLE PULLEY	Bulk packaging	30	20,5	29,3	19	8	27,1	+2.2/ -2.6	150°	Balls	Polyamide	Zamak	X				40
03146N	CARRERA 1 ADJUSTABLE PULLEY	Bulk packaging	55	28	30	28,8	12	32	+2.4/ -3.4	156°	Balls	Polyamide	Zamak	X				200
03147N	CARRERA 1 ADJUSTABLE PULLEY	Bulk packaging	55	28	30	27,3	11	30,2	+2.2/ -2.8	10.1 mm	Balls	Polyamide	Zamak	X				200
03290	CARRERA 1 ADJUSTABLE PULLEY	Bulk packaging	45	22,7	25,8	20,4	8	24,6	+2.7/ -2.1	150°	Roller	Polyamide	Zamak	X				40
03297	CARRERA 1 ADJUSTABLE PULLEY	Bulk packaging	25	28	30	28,6	11	32	+2.4/ -3.4	156°	Balls	Polyamide	Zamak	X				200
03473	CARRERA 1 ADJUSTABLE PULLEY	Bulk packaging	55	27,7	30	26	11	30,6	+3.3/ -2.5	4 mm	Balls	Polyamide	Zamak	X				200
06504	CARRERA 1 ADJUSTABLE PULLEY	Bulk packaging	40	22,2	23	19	8	23	+2.1/ -2.7	5 mm	Balls	Polyamide	Zamak	X				100
06955	CARRERA 1 ADJUSTABLE PULLEY	Bulk packaging	45	22,7	25,8	19	8	24,6	+2.7/ -2.1	150°	Balls	Polyamide	Zamak	X				40
00806	CARRERA 1 ADJUSTABLE PULLEY	Set of 4 pcs.	45	22,7	25,8	19	8	23,7	+2.7/ -2.1	150°	Balls	Polyamide	Zamak	X				16
03178	CARRERA 1 ADJUSTABLE PULLEY	Set of 4 pcs.	45	22,7	25	19	8	24,5	+/ -2.3	150°	Balls	Polyamide	Zamak	X				50

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ADJUSTABLE CARRERA 2 PULLEYS

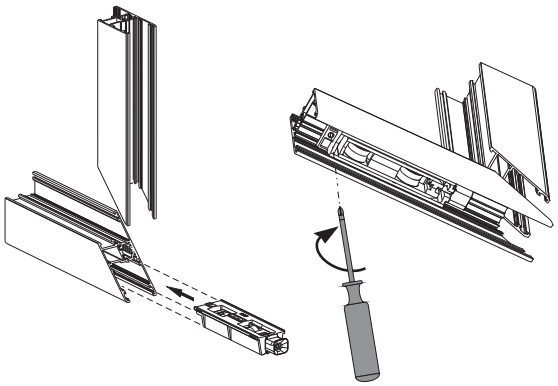
Functions
Adjustable pulley with two wheels for doors and windows in aluminium.

Technical Features
The pulley is fixed with a clamping grub screw, without requiring specific machining.
Micrometrically adjustable, it enables moving the sash vertically in an overall range of on average 4 mm (see adjustment column in the table).
Adjustment is easy since the adjustment screw is located inside the yellow centring element which facilitates insertion of the key. The adjustment can also be made with the sash already mounted and installed.
The wheels are normally mounted on ball bearings or needle bearings depending on the model and can be removed together with the support without having to disassemble the pulley.
The wheels with bearings are shielded to keep the grease inside them.

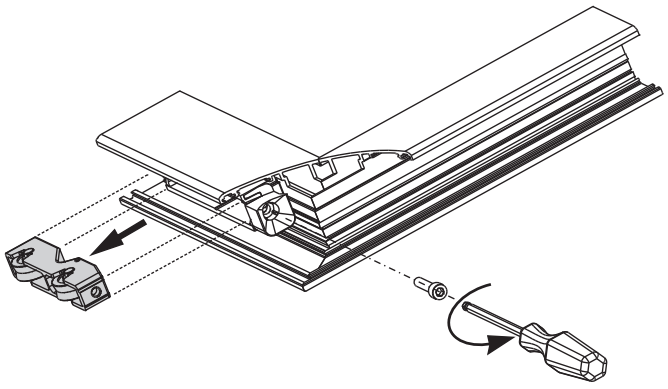
Materials
Support in grey polyamide
Yellow polyamide centring element
Wheel support in Silver Plus zamak
Wheel with bearing in steel and neutral reinforced polyamide cover
Mounting grubscrew and adjustment screw in stainless steel

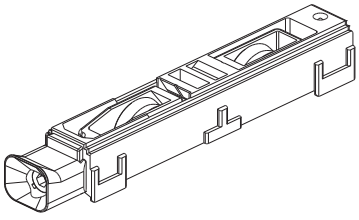
Capacities
see table

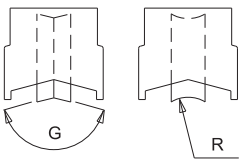
Pulley fixing

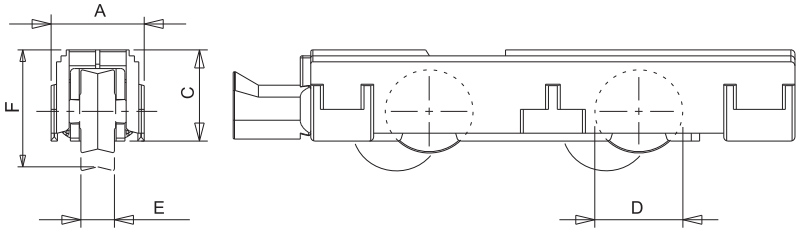


Wheel replacement









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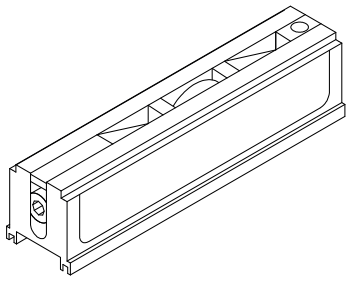
Item code	Description	Note	Pulley Load Capacity [kg]	A [mm]	C [mm]	D [mm]	E [mm]	F [mm]	Adjust-ment [mm]	G [°] R [mm]	Bearing type	External support	Internal support	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02637	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	40	22,2	21	19	8	8	+3.5/ -1	150°	Solid wheel + pin made of stainless steel (no bearing)	Polyam-ide	Zamak	X				100
02639	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	40	22,2	23	19	8	8	+2.6/ -2.2	150°	Solid wheel + pin made of stainless steel (no bearing)	Polyam-ide	Zamak	X				100
02915	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	80	25,5	26,1	27	11	29,7	+2.5/-2.5	5 mm	Balls	Polyam-ide	Zamak	X				100
03136N	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	110	28	30	28,8	12	12	+2.6/ -2.8	156°	Balls	Polyam-ide	Zamak	X				200
03137N	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	110	28	30	27,3	11	11	+3.3/ -1.7	10.1 mm	Balls	Polyam-ide	Zamak	X				200
03141N	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	90	24,5	23,6	21,7	9	9	+2.3/ -3	150°	Balls	Polyam-ide	Zamak	X				200
03291	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	90	22,7	25,8	19	8	8	+2.8/ -2.1	150°	Roller	Polyam-ide	Zamak	X				40
03298	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	50	17,7	30	27	11	11	+2.6/ -2.8	156°	Balls	Polyam-ide	Zamak	X				200
03471	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	90	36	28,7	24,4	11	11	+2.9/ -2.5	158°	Balls	Polyam-ide	Zamak	X				200
03472	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	110	27,7	30	26	11	11	+3.5/ -1	4 mm	Balls	Polyam-ide	Zamak	X				200
04549	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	110	28,5	23,2	20	9	26,3	+2.3/ -3	156°	Balls	Polyam-ide	Zamak	X				100

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ADJUSTABLE PULLEYS
ADJUSTABLE CARRERA 2 PULLEYS

Item code	Description	Note	Pulley Load Capacity [kg]	A [mm]	C [mm]	D [mm]	E [mm]	F [mm]	Adjust-ment [mm]	G [°] R [mm]	Bearing type	External support	Internal support	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00801	CARRERA 2 ADJUSTABLE PULLEY	Set of 4 pcs.	90	19	23,2	19	8	27,7	+1.4/ -2.3	150°	Balls	Polyam-ide	Zamak	X				22
03116	CARRERA 2 ADJUSTABLE PULLEY	Set of 4 pcs.	110	31,5	23,2	20	9	26,3	+2.3/ -2.9	156°	Balls	Polyam-ide	Zamak	X				50
03118	CARRERA 2 ADJUSTABLE PULLEY	Set of 4 pcs.	110	28,5	23,2	20	9	26,3	+2.3/ -2.9	156°	Balls	Polyam-ide	Zamak	X				50
03120	CARRERA 2 ADJUSTABLE PULLEY	Set of 4 pcs.	90	22,2	21	19	8	21,5	+3.5/ -1	150°	Balls	Polyam-ide	Zamak	X				50
03125	CARRERA 2 ADJUSTABLE PULLEY	Set of 4 pcs.	90	22,2	23	19	8	22,5	+2.6/ -2.2	150°	Balls	Polyam-ide	Zamak	X				50
03133	CARRERA 2 ADJUSTABLE PULLEY	Set of 4 pcs.	110	28,5	23,2	20	9	26,3	+2.3/ -3	156°	Balls	Polyam-ide	Zamak	X				50
03139	CARRERA 2 ADJUSTABLE PULLEY	Set of 4 pcs.	90	22,2	23	19	8	22,5	+2.6/ -2.2	150°	Balls	Polyam-ide	Zamak	X				50
03183	CARRERA 2 ADJUSTABLE PULLEY	Set of 4 pcs.	90	37,8	22	19	12	23,3	+3/ -1.3	160°	Roller	Polyam-ide	Polyam-ide	X				20
03289	CARRERA 2 ADJUSTABLE PULLEY	Set of 4 pcs.	90	29,4	22,5	19	12	22,5	+2.5/ -1.5	150°	Roller	Polyam-ide	Polyam-ide	X				50

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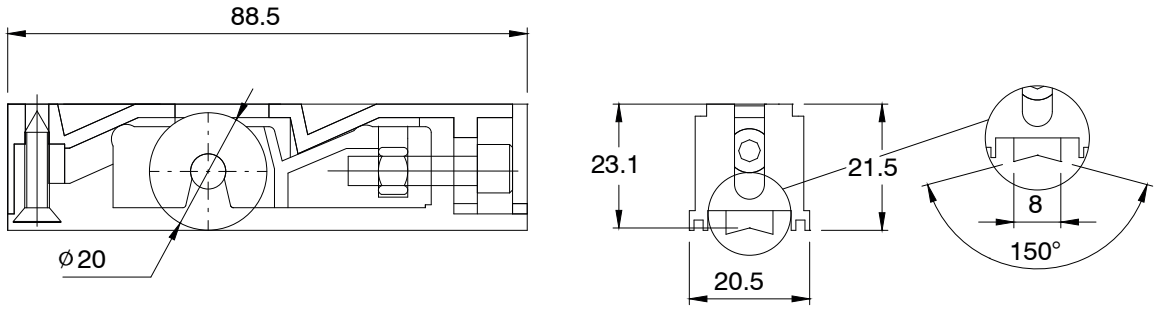
ADJUSTABLE 1 WHEEL PULLEY

Functions
Adjustable pulley with one wheel for doors and windows in aluminium

Technical features
The pulley is fixed with a clamping grub screw, without requiring specific machining.
Micrometrically adjustable, it enables moving the sash vertically in an overall range of approximately 4 mm (depends on the model).
The adjustment can also be made with the sash already mounted and installed.
The wheel is mounted on ball bearings and can be removed together with its support without having to disassemble the pulley.

Materials
Support in grey polyamide
Wheel support in Silver Plus zamak
Wheel with bearing in steel and neutral reinforced polyamide cover.
Mounting grubscrew and adjustment screw in stainless steel

Capacities
40 kg with two pulleys



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00859	ADJUSTABLE 1 WHEEL PULLEY	set of 4 pieces	X				16

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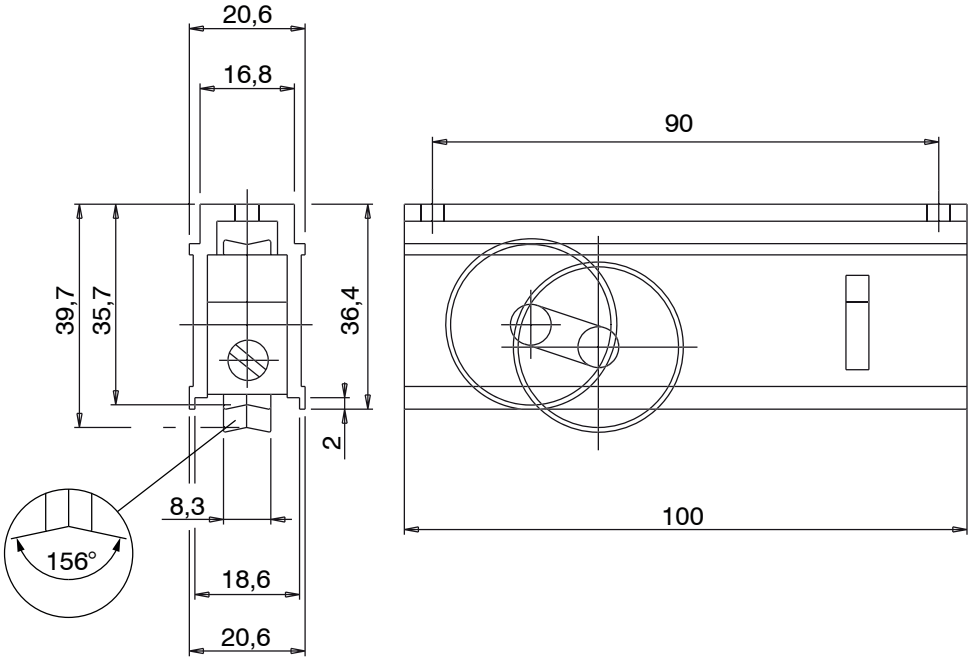
ADJUSTABLE PULLEY

Functions
Pulley in extruded aluminium, adjustable, with one wheel, for windows and sliding doors in aluminium.

Technical features
The pulley is micro-adjustable and allows vertical movement of the sash through a range of 4 mm.
Its special feature is that it can be inspected without having to disassemble the sash, by screwing in the adjustment screw.
The wheel is mounted on a ball bearing

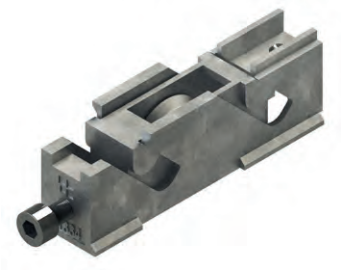
Materials
Extruded aluminium supports
Wheel with bearing in steel and reinforced polyamide cover
Self-braking plug in fibreglass reinforced polyamide
Zinc plated steel grub screws

Capacities
70 kg. with two pulleys



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03122	ADJUSTABLE PULLEY	set of 4 pcs.	X				40

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SINGLE WHEEL ADJUSTABLE PULLEY

Functions

The single pulley, adjustable with a wheel, applied on the bottom cross beam of a sliding sash (2 pcs per sash) allows the sash to run smoothly and without jerking over the rail of the frame.

Technical Features

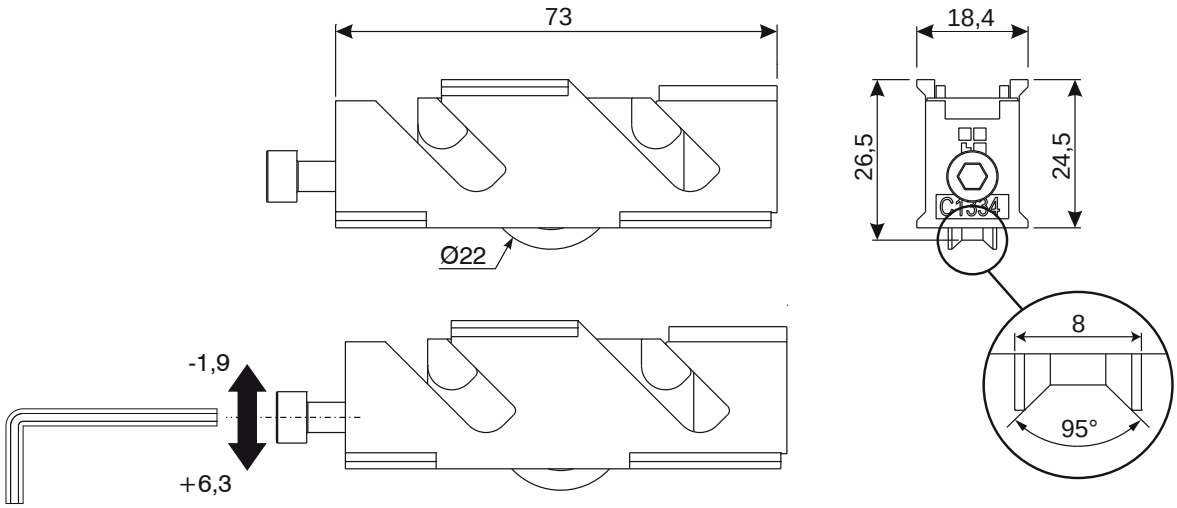
The single adjustable pulley allows vertical movement of the sash through a range of 8.2 mm.
The article is practical to adjust because the adjustment screw is located on the front of the pulley.
To carry out this operation you need a 4 mm Allen wrench.
The wheel is composed of an outer part made of glass polyamide and a steel ball bearing in the innermost part.
The bearing is moreover shielded to protect the balls from water and dust.
The inner and outer body is made of zinc plated zamak and this ensures considerable durability and rigidity for the product over time.
The pulley, to be mounted, is inserted inside the tubular section of the bottom cross-beam of the sash and is fixed with a contrast grubscrew thus avoiding machining and drilling for fixing.

Materials

Supports in zamak
Wheel with bearing in steel and polyamide cover

Capacities

50 kg with two pulleys



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03527	SINGLE WHEEL ADJUSTABLE PULLEY		X				100

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ADJUSTABLE PULLEYS 2 WHEELS

Functions

Pulley in extruded aluminium, adjustable, with two wheels, for windows and sliding doors in aluminium.

Technical Features

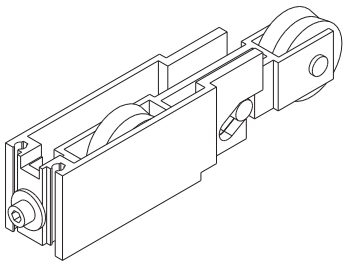
The pulley is micro-adjustable and allows vertical movement of the sash through a range of 4 mm.
Its special feature is that it can be inspected without having to disassemble the sash, by screwing in the adjustment screw.
The wheels are mounted on ball bearings.

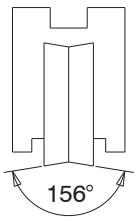
Materials

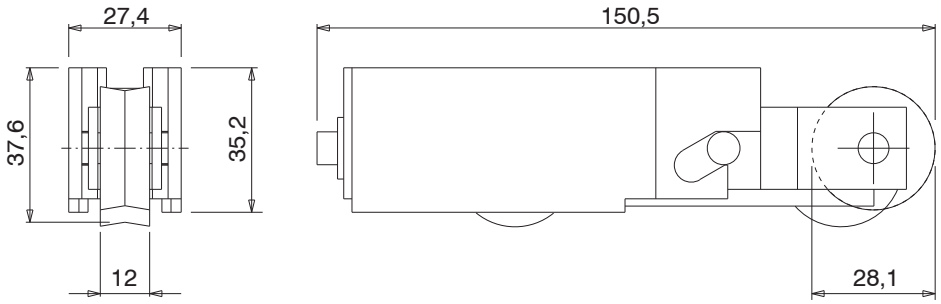
Extruded aluminium supports
Wheels with bearing in steel and reinforced polyamide cover
Self-braking plug in fibreglass reinforced polyamide
Screws and grub screws in stainless steel

Capacities

kg. 240 with 2 pulleys







Item code	Description	Note	Base Raw	Anodised Eiox	Painted	Trend/Gold Brass	Pieces per pack
0315202	ADJUSTABLE PULLEY	set of 4 pcs.	X				10

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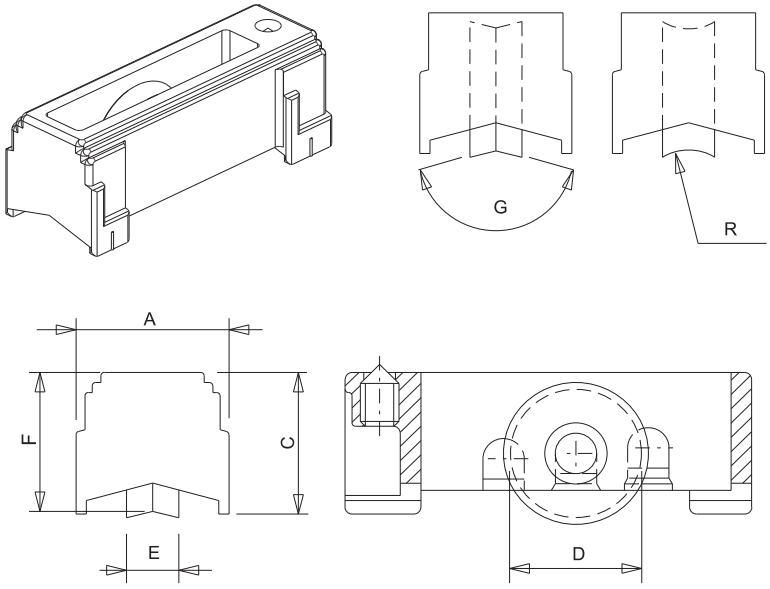
FIXED CARRERA 1 PULLEYS

Functions
Fixed pulley with one wheel for doors and windows in aluminium.

Technical Features
The pulley is fixed with a clamping grub screw, without requiring specific machining.
The pulley does not allow micrometric adjustment of the sash. It is in any case possible to vary the position of the wheel with a range that on average varies from +1 to -1 mm (in fixed positions). This adjustment is achieved by moving the wheel into different locations inside the pulley body.
The wheels are normally mounted on ball bearings or needle bearings depending on the model and can be removed without having to disassemble the pulley.
The wheels with bearings are shielded to keep the grease inside them.

Materials
Support in grey polyamide
Wheel with bearing or rollers in steel and neutral reinforced polyamide cover.
Stainless steel mounting grubscrew

Capacities
see table

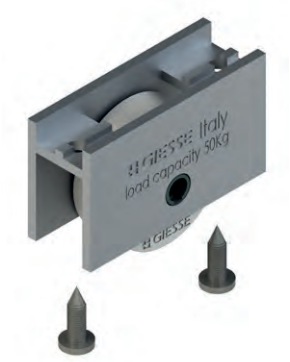


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FIXED PULLEYS
FIXED CARRERA 1 PULLEYS

Item code	Description	Note	Load capacity (kg)	A [mm]	C [mm]	D [mm]	E [mm]	F [mm]	Adjust-ment [mm]	G [°]	Bearing	External support	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02632	FIXED CARRERA 1 PULLEY	Bulk packag-ing	50	19,6	29,3	21	8	27,1	+0.8/-0.8	150°	Ball	Polyam-ide with fiberglass	X				40
02636	FIXED CARRERA 1 PULLEY	Bulk packag-ing	20	22,5	21,1	19	8	21,5	+0.8/-0.8	150°	-	Polyam-ide with fiberglass	X				100
02638	FIXED CARRERA 1 PULLEY	Bulk packag-ing	15	22,7	23	19	8	22,5	+0.8/-0.8	150°	-	Polyam-ide with fiberglass	X				100
03319	FIXED CARRERA 1 PULLEY	Bulk packag-ing	45	15,9	21	19	8	21,9	+1/-1	150°	Ball	Polyam-ide with fiberglass	X				100
06956	FIXED CARRERA 1 PULLEY	Bulk packag-ing	45	23	25,8	19	8	24,6	-	150°	Ball	Polyam-ide with fiberglass	X				40
03115	FIXED CARRERA 1 PULLEY	Set of 4 pcs.	55	31,5	23	20	9	26,3	+2/-1	156°	Ball	Polyam-ide with fiberglass	X				50
03119X	FIXED CARRERA 1 PULLEY	Set of 4 pcs.	45	22,5	21,1	19	8	21,5	+0.8/-0.8	150°	Ball	Polyam-ide with fiberglass	X				50
03123	FIXED CARRERA 1 PULLEY	Set of 4 pcs.	45	22,7	23	19	8	22,5	+0.8/-0.8	150°	Ball	Polyam-ide with fiberglass	X				50
03132	FIXED CARRERA 1 PULLEY	Set of 4 pcs.	45	28,5	23	20	9	26,3	+2/-1	156°	Ball	Polyam-ide with fiberglass	X				50
03138	FIXED CARRERA 1 PULLEY	Set of 4 pcs.	45	22,8	23	19	8	22,5	+/-0,8	150°	Ball	Polyam-ide with fiberglass	X				50

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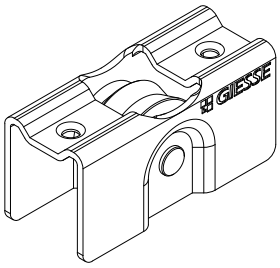


FIXED PULLEYS 1 WHEEL

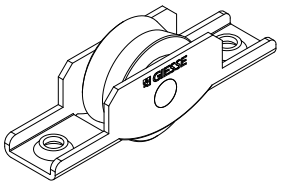
Functions
Pulley in extruded aluminium with one wheel for windows or sliding doors in aluminium.

Technical Features
The wheel is mounted on a ball bearing.
Its special feature is that it can be inspected without having to disassemble the sash, by removing the fixing screws.

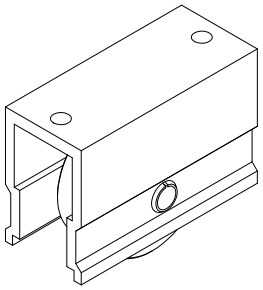
03168N



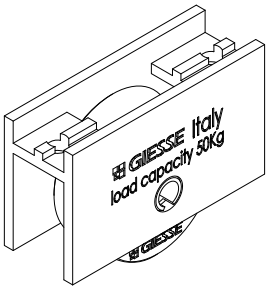
03529

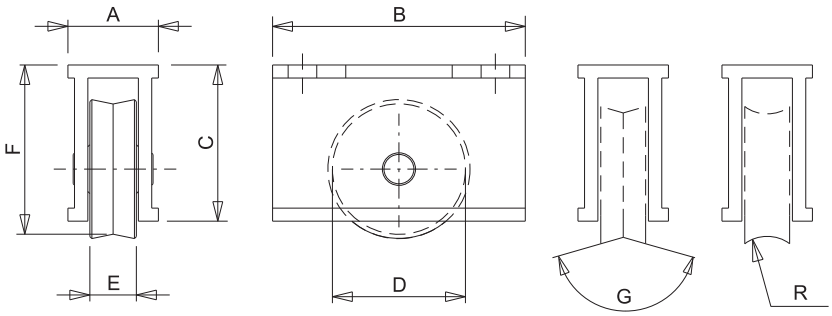


03121



03151N





Item code	Description	Note	Load capacity (kg)	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [°]	Bearing	External support	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03529	FIXED PULLEY 1 WHEEL	Bulk packaging	50	16	70	15,6	24	11	/	156°	Balls	Steel	X				200
03121	FIXED PULLEY 1 WHEEL	Set of 4 pcs.	60	21,5	50	33	28	12	38,5	156°	Balls	Aluminium	X				50
03151N	FIXED PULLEY 1 WHEEL	Set of 4 pcs.	50	17,8	50	29,2	28	12	35,25	156°	Balls	Aluminium	X				100

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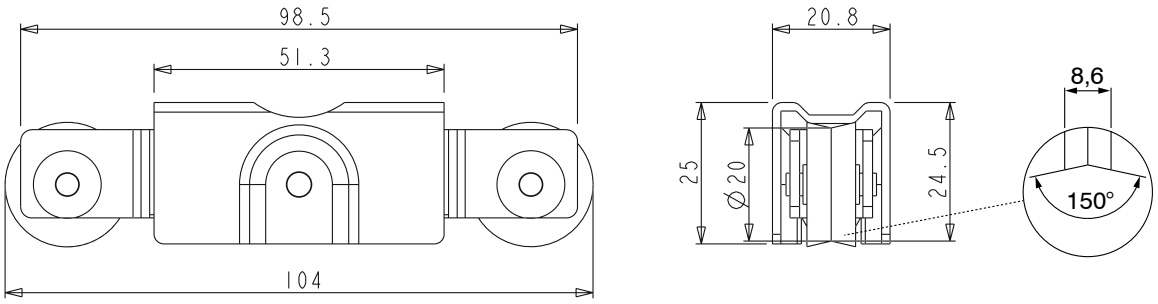
DOUBLE TANDEM FIXED PULLEY

Functions
Fixed pulley with two wheels for light sliding doors and windows in aluminium

Technical features
The pulley can be removed without disassembling the sash.
It is fixed with 2 self-tapping screws
The wheels are mounted on ball bearings.

Materials
Support in steel with tropicalised galvanising
Polyamide wheel on steel ball bearings

Capacities
60 kg with two pulleys



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03169N	DOUBLE TANDEM FIXED PULLEY		X				100

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BRIO HANDLE

Functions

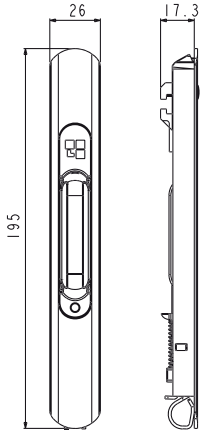
Reversible recessed handle, with the possibility of manual operation (for doors) or automatic operation (for windows), to enable side locking of sliding sashes.

Technical Features

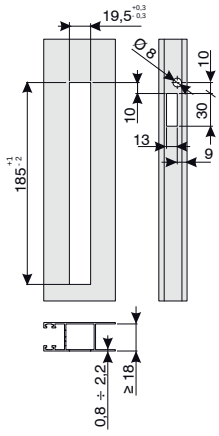
The Brio handle allows crossing and overlapping of the two sashes.
Prepared for the manual function, it is equipped with a spring that when installed enables the automatic function.
The Brio handle is fixed to the profile quickly and precisely by inserting the bottom part of the handle in the slot and then pressing down the top part.
After determining the optimum position of the nib (and therefore locking), it is secured with a grub screw, located under the covering cap.
The polyamide slider has two green and red surfaces that indicate respectively sash open and sash closed.
The Brio handle is equipped with an antilifting system that increases the security of the casement, preventing the nib from unhooking in the event the sash is lifted from its seat. This system is active when the Brio handle is used on its own or when combined with the recess handle or with the external drive handle. It is not active when the Brio is combined with the Brio external handle with key.
Available in two fixing versions with 2-teeth or 1-tooth spring according to the characteristics of the profile.

Materials

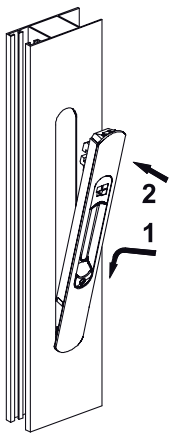
Body in extruded aluminium
Slider in white die-cast zinc plated Zamak
Plug to enable automatic mode and recess handle in polyamide
Stainless steel grub screws
Steel spring for automatic operation
Spring in nickel-plated C70 steel



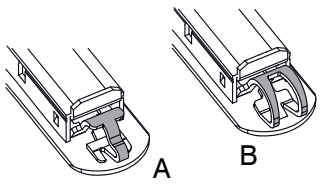
Machining on profile



Assembly sequence



A: 1-tooth spring - B: 2-teeth spring



Item code	Description	Fixing spring	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02982N	BRIO HANDLE	1 tooth		X	X		20
02992N	BRIO HANDLE	2 teeth	X	X	X	X	20

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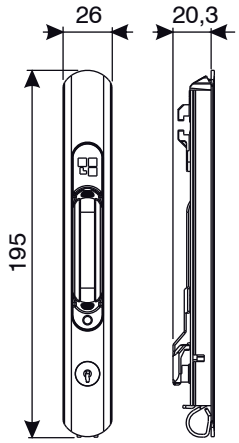


BRIO KEY HANDLE

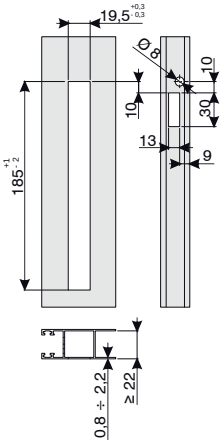
Functions
Reversible recessed handle, with manual operation (for doors) enabling side locking of sliding sashes.

Technical Features
The end-user can lock the handle in the closed or open position by means of the special key supplied.
After determining the optimum position of the nib (and therefore locking), it is secured with a grub screw, located under the covering cap.
The polyamide slider has two green and red surfaces that indicate respectively sash open and sash closed.
The Brio Key handle is fitted with an antilifting system to ensure that the casement can only be opened by moving the small polyamide recess handle on the interior.
The nib, therefore, cannot be lowered without moving the internal recess.
Available in two fixing versions with 2-teeth or 1-tooth spring according to the characteristics of the profile.
The cylinder is provided with the same keys, on request you can have different keys with 50 different combinations.

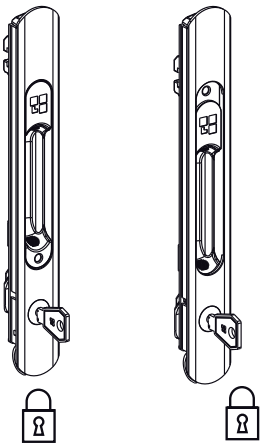
Materials
Body in extruded aluminium
Slider in white die-cast zinc plated Zamak
Zinc plated steel keys
Zamak key cylinder
Stainless steel grub screws
Steel spring for automatic operation
Lower fixing spring in nickel-plated C70 steel



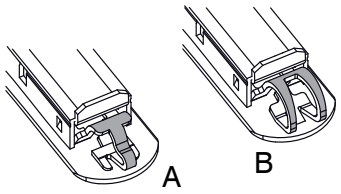
Machining on profile



Block on closing and opening



A: 1-tooth spring - B: 2-teeth spring



Item code	Description	Fixing spring	Compatibles handles (internal)	Compatibles handles (external)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02882N	BRIO KEY HANDLE	1 tooth	02614 - 03016	02966N - 02981			X	X	5
02892N	BRIO KEY HANDLE	2 teeth	02614 - 03016	02966N - 02980		X	X	X	5

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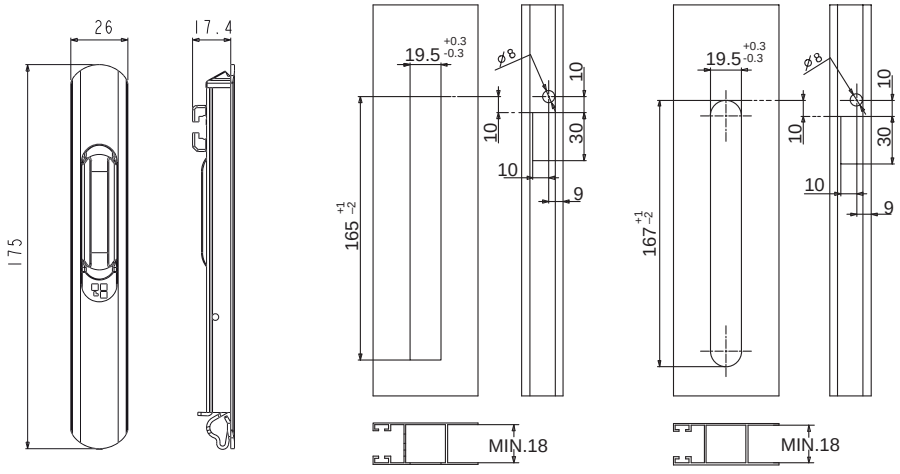
BRIO MINI HANDLE

Functions
Reversible recessed handle with automatic operation enabling side locking of sliding sashes.

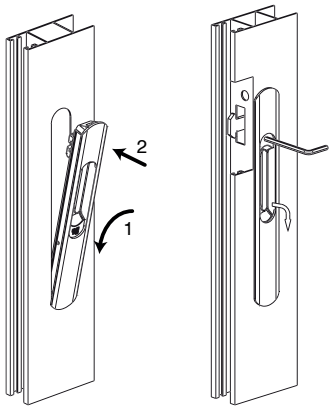
Technical Features
The Brio Mini MD handle is preset for automatic operation.
For this reason we recommend using this article only on aluminium sliding windows.
The nib is regulated manually with handle assembled.
The nib is secured with a grub screw on its front, while holding the polyamide recess down.
Available in two fixing versions with 2-teeth or 1-tooth spring according to the characteristics of the profile.

Materials
Body in extruded aluminium
Polyamide control slider
Upper fixing component and nib-holder in zinc plated zamak
Lower fixing spring in nickel-plated C70 harmonic steel
White zinc plated harmonic steel spring for automatic operation
Zinc plated steel nib mounting grubscrew

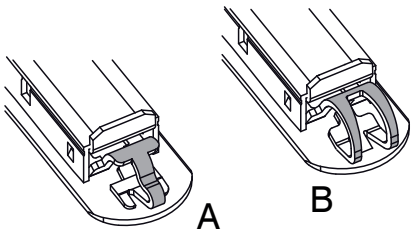
Machining on profile



Assembly sequence



A: 1-tooth spring - B: 2-teeth spring



Item code	Description	Fixing spring	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02978N	BRIO MINI HANDLE	1 tooth	X	X	X	X	20
02988N	BRIO MINI HANDLE	2 teeth	X	X	X	X	20

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BRIO PLUS HANDLE

Functions

Reversible recessed handle, with the possibility of manual operation (for doors) or automatic operation (for windows), to enable side locking of sliding sashes.

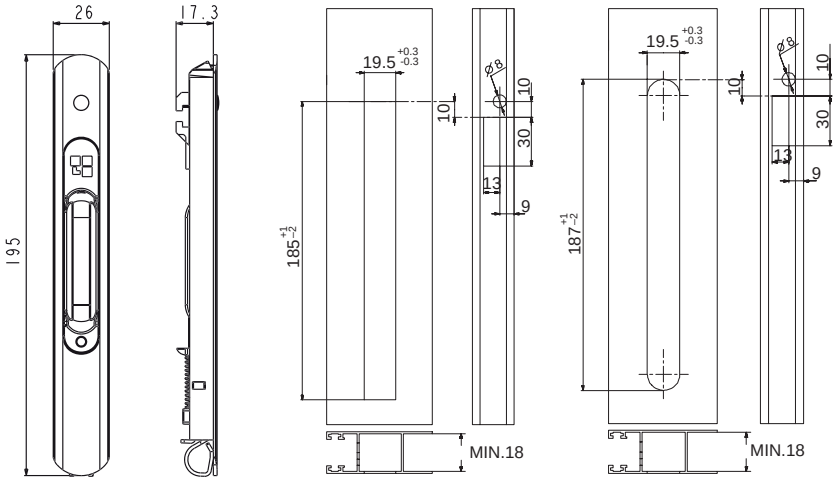
Technical Features

A grub screw on the front of the handle enables micrometric adjustment of protrusion of the nib in the connection kit (sold separately). After setting the optimal position of the nib (and thus the lock) it is secured by means of a grub screw located under a protective cap.
The polyamide slider has two green and red surfaces that indicate respectively sash open and sash closed.
The Brio Plus handle is fitted with a burglar-proof system to ensure that the casement can only be opened by moving the polyamide recess handle on the interior. The nib, therefore, cannot be lowered without moving the internal recess.
The Brio Plus handle is equipped with an antilifting system that increases the security of the casement, preventing the nib from unhooking in the event the sash is lifted from its seat. This system is active when the handle is used on its own or when combined with the recess handle or with the external drive handle. It is not active when the Brio Plus is combined with the Brio Plus external handle with key.
Available in two fixing versions with 2-teeth or 1-tooth spring according to the characteristics of the profile.

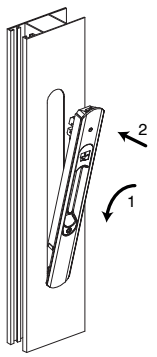
Materials

Body in extruded aluminium
Slider in white die-cast zinc plated Zamak
Plug to enable automatic mode and recess handle in polyamide
Stainless steel grub screws
Steel spring for automatic operation
Spring in nickel-plated C70 steel

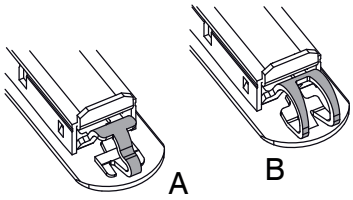
Machining on profile



Assembly sequence



A: 1-tooth spring - B: 2-teeth spring



Item code	Description	Fixing spring	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02973N	BRIO PLUS HANDLE	1 tooth	X	X	X	X	20
02983N	BRIO PLUS HANDLE	2 teeth	X	X	X	X	20

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BRIO PLUS KEY HANDLE

Functions

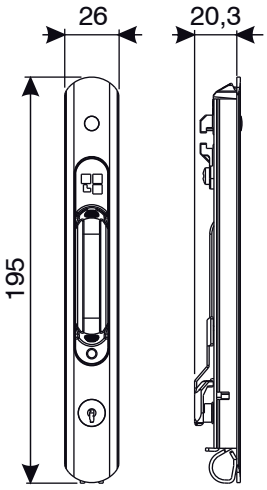
Reversible recessed handle, with manual operation (for doors) enabling side locking of sliding sashes.

Technical Features

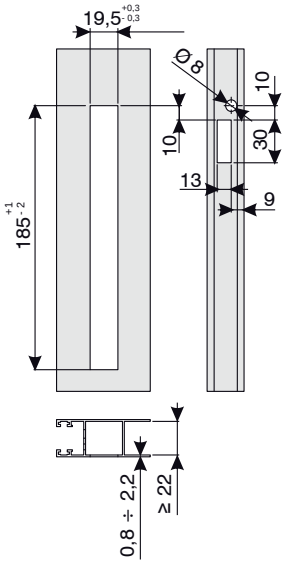
The end-user can lock the handle in the closed or open position by means of the special key supplied.
A grub screw, accessible on the front of the handle, enables fine adjustment of the nib (not supplied) protrusion.
The polyamide slider has two green and red surfaces that indicate respectively sash open and sash closed.
The Brio Key handle is fitted with a burglar-proof system to ensure that the casement can only be opened by moving the small polyamide recess handle on the interior.
The nib, therefore, cannot be lowered without moving the internal recess.
Available in two fixing versions with 2-teeth or 1-tooth spring according to the characteristics of the profile.
The cylinder is provided with the same keys, on request you can have different keys with 50 different combinations.

Materials

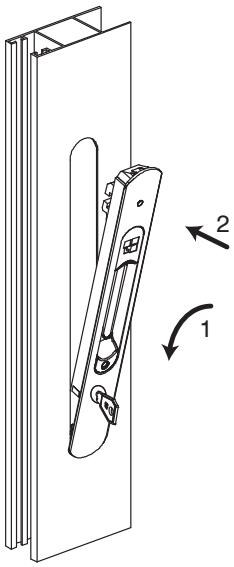
Body in extruded aluminium
Slider in white die-cast zinc plated Zamak
Zinc plated steel keys
Zamak key cylinder
Stainless steel grub screws
Steel spring for automatic operation
Lower fixing spring in nickel-plated C70 steel



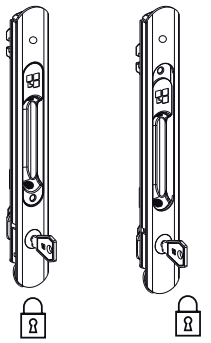
Machining on profile



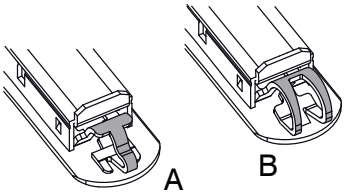
Assembly sequence



Block on opening and closing



A: 1-tooth spring - B: 2-teeth spring



Item code	Description	Fixing spring	Compatibles handles (internal)	Compatibles handles (external)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02873N	BRIO PLUS KEY HANDLE	1 tooth	02614 - 03016	02966N - 02981			X		5
02883N	BRIO PLUS KEY HANDLE	2 teeth	02614 - 03016	02966N - 02980	X	X	X	X	5

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BRIO RAPID HANDLE

Functions

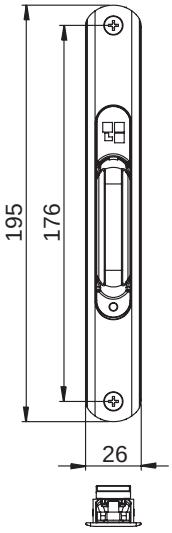
Reversible recessed handle, with the possibility of manual operation (for doors) or automatic operation (for windows), to enable side locking of sliding sashes.

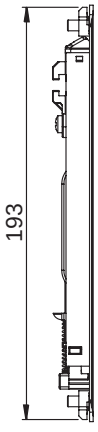
Technical Features

The Brio handle allows crossing and overlapping of the two sashes.
Prepared for the manual function, it is equipped with a spring that when installed enables the automatic function.
The Brio handle is secured by tightening the two screws which oppose two fixing plates.
After determining the optimum position of the nib (and therefore locking), it is secured with a grub screw, located under the covering cap.
The polyamide slider has two green and red surfaces that indicate respectively sash open and sash closed.
The Brio handle is equipped with an antilifting system that increases the security of the casement, preventing the nib from unhooking in the event the sash is lifted from its seat.
This system is active when the Brio handle is used on its own or when combined with the recess handle or with the external drive rod handle.
It is not active when the Brio is combined with the Brio external handle with key.

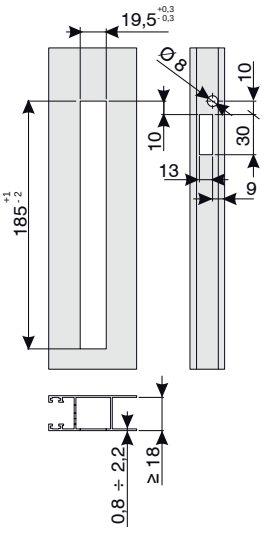
Materials

Body in extruded aluminium
Slider and fixing plates in die-cast zamak
Plug to enable automatic mode and recess handle in polyamide
Grub screws and screws in stainless steel
Steel spring for automatic operation

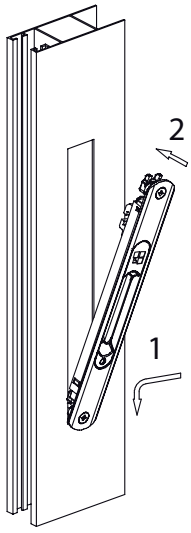




Machining on profile



Assembly sequence



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00831N	BRIO RAPID HANDLE		X		X		20

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BRIO L HANDLE

Functions

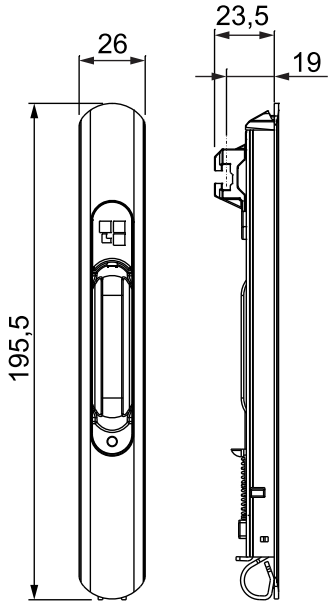
Reversible recessed handle, with the possibility of manual operation (for doors) or automatic operation (for windows), to enable side locking of sliding sashes.
The Brio handle allows crossing and overlapping of the two sashes.

Technical Features

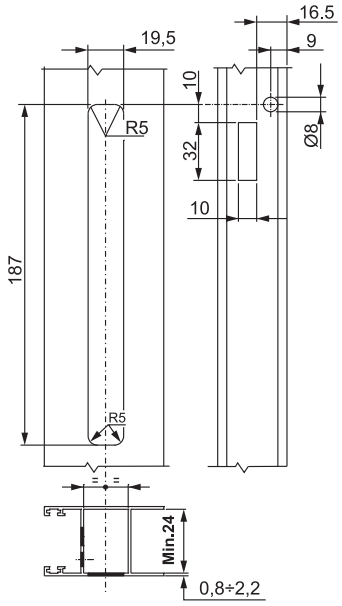
The Brio handle is fixed to the profile quickly and precisely by inserting the bottom part of the handle in the slot and then pressing down the top part.
After determining the optimum position of the nib (and therefore locking), it is secured with a grub screw, located under the covering cap.
The polyamide slider has two green and red surfaces that indicate respectively sash open and sash closed.
The Brio handle is equipped with an antilifting system that increases the security of the casement, preventing the nib from unhooking in the event the sash is lifted from its seat.
This anti-lifting system is operational when the Brio handle is used alone or when it is combined with the external recess handle or drive handle.
It is not active when the Brio is combined with the Brio external handle with key.
Brio uses a straight nib when it is fitted to 38 mm wide sash profiles.

Materials

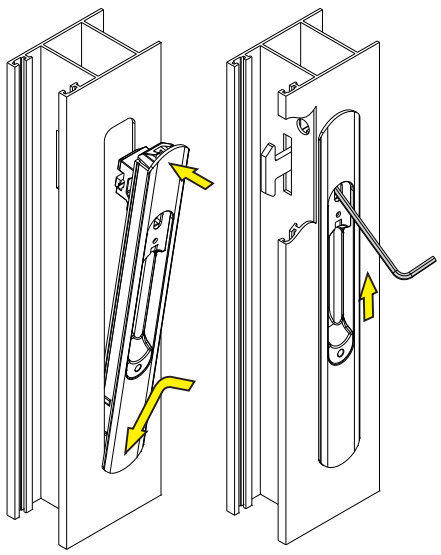
Body in extruded aluminium
Slider in white die-cast zinc plated Zamak
Zinc plated steel keys
Zamak key cylinder
Stainless steel grub screws
Steel spring for automatic operation
Lower fixing spring in C70 steel



Machining on profile



Assembly sequence



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02894	BRIO L HANDLE		X	X	X	X	20

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BLIND BRIO HANDLE

Functions

The “Brio cieca” and “Brio Rapid cieca” handles perform the simple function of driving a sliding rod in the case of 4-sash casements with opposing sashes.

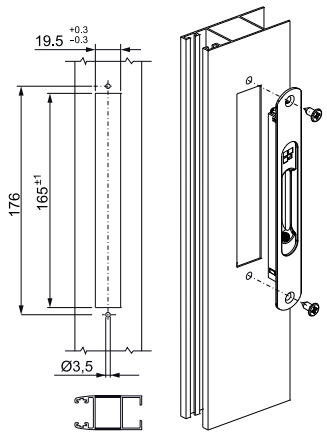
Technical Features

The products are fitted to the internal side of the casement with the function of driving a sliding sash.
This hardware is generally composed of products fitted to one of the 2 opposing sashes of a 4-sash sliding casement to obtain an aesthetic match with the main recessed handle that operates the window locking point.

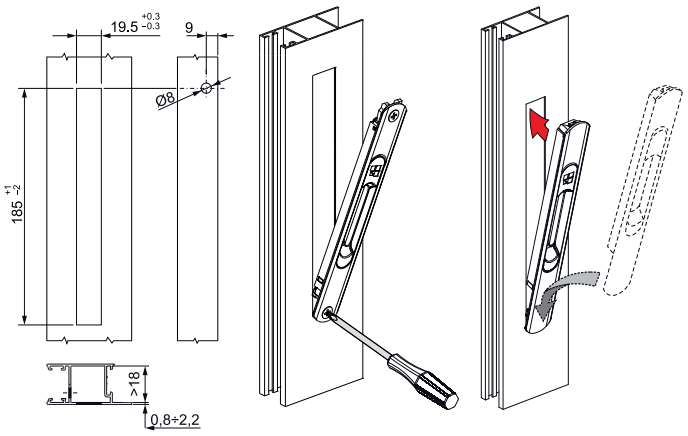
Materials

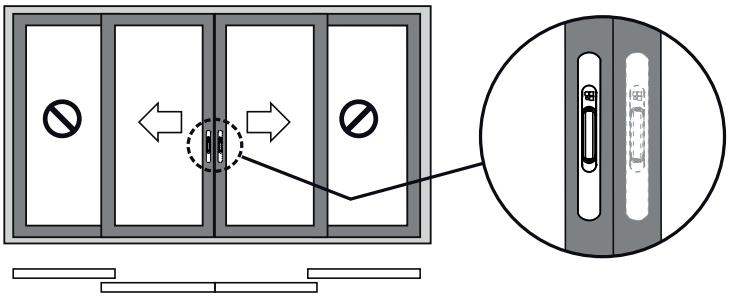
Body made of extruded aluminium
Recess handle in nylon
Stainless steel fixing screws (Brio Rapid cieca)
Galvanised zamak fixing plates (Brio Rapid cieca)
Lower fixing spring in (Brio cieca) in harmonic steel
Top fixing component (Brio cieca) in galvanised zamak

Brio Rapid Cieca profile machinings (fixing with screws)



Brio Rapid Cieca profile machinings (fixing with plates)-Brio Cieca





Item code	Description	Fixing type	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02895	BLIND BRIO HANDLE	Click fit (see Brio handle art. 02992 N)	X	X	X	X	20
02896	BRIO RAPID CIECA HANDLE	With screws (see brio Rapid art. 00831 N)	X		X		20

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BRIO MINI CIECA HANDLE

Functions

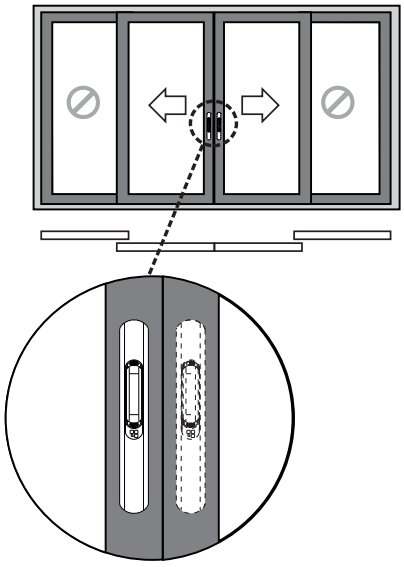
The “Brio mini cieca” handle performs the simple function of driving a sliding rod in the case of 4-sash casements with opposing sashes.

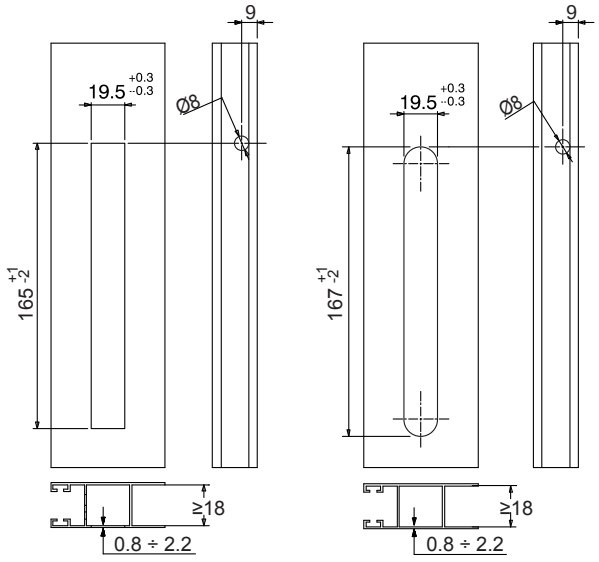
Technical Features

The products are fitted to the internal side of the casement with the function of driving a sliding sash.
This hardware is generally composed of products fitted to one of the 2 opposing sashes of a 4-sash sliding casement to obtain an aesthetic match with the main recessed handle that operates the window locking point.

Materials

Body made of extruded aluminium
Recess handle in nylon
Lower fixing spring made of harmonic steel
Top fixing component made of galvanised zamak





Item code	Description	Fixing spring	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02566	BRIO MINI CIECA HANDLE	2 teeth			X		20

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NADA HANDLE

Functions

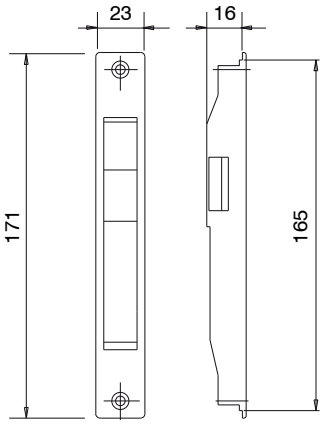
Recessed reversible handle with automatic and manual locking for side closure and simultaneous overlap of the sashes of an aluminium sliding door/window.

Technical Features

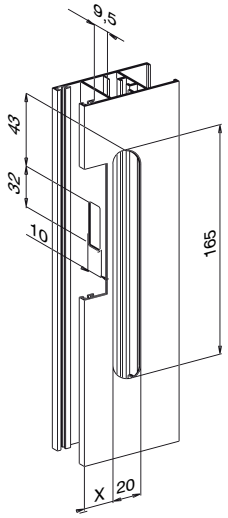
The handle is intended for automatic operation.
It may however be set for manual use by removing the spring at its rear.
The nib protrusion can be adjusted even with the handle mounted.
The nib is set with a grub screw located on the front of the slider.
The NADA handle features simple front fixing using pre-assembled brackets.

Materials

Black polyamide body.
Extruded aluminium control slider.
Zinc plated steel plates.



The X dimension depends on the series used



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03000	NADA HANDLE	only finish 500		X	X		20

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PRATIKA HANDLE

Functions

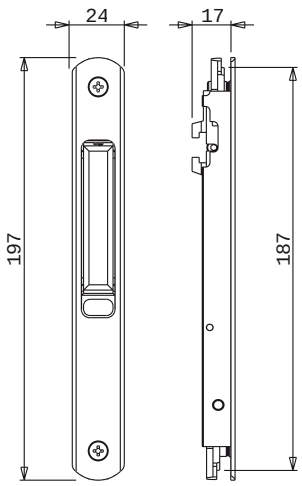
Reversible recessed handle with automatic and manual locking for side closure and simultaneous overlap of the sashes of an aluminium sliding door or window.

Technical Features

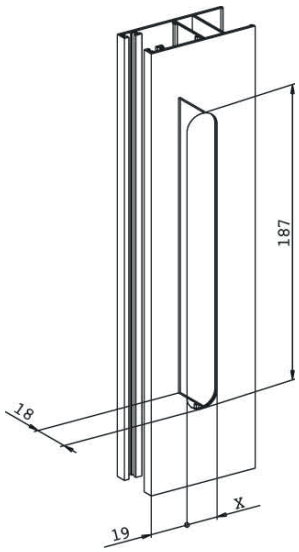
Locking can be manual or automatic.
Simply remove the surplus spring to select the type of operation desired.
The protrusion of the fixture kit nib can be adjusted precisely with the grub screw, which is accessible even with the handle already installed.
Once the optimal closure position has been determined, set it by tightening down the grub screw.
The slider has two coloured surfaces, green for handle open, red for handle closed.
The PRATIKA handle features simple front fixing using pre-assembled brackets.

Materials

Body in extruded aluminium
Slider, fixing plates and internal components in die-cast zamak.
Stainless steel grub screws and springs
Internal components in zinc plated Zamak



The X dimension depends on the series used



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03351	PRATIKA HANDLE	only painted finishes	X	X	X	X	20

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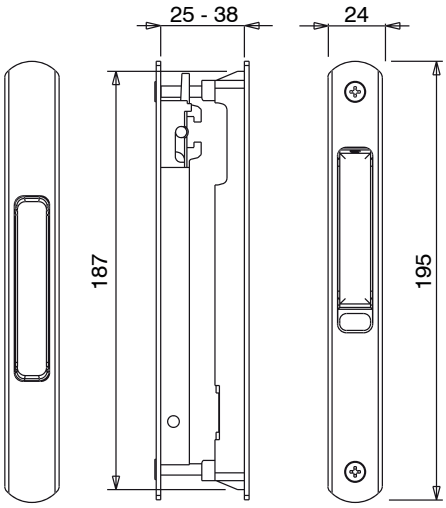


PRATIKA DUO HANDLE

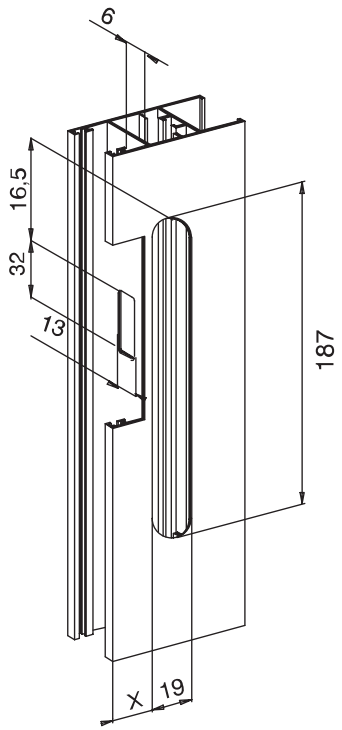
Functions
Recessed PRATIKA handle with manual locking, with external security key-lock for side closure and simultaneous overlap of the sashes of an aluminium sliding window, but more specifically for use on doors.

Technical Features
From inside, the sash's lock can be engaged or left unengaged with the slider. Externally, the recess functions solely to provide a better grip fro moving the sash.
The two housings are connected and secured with the supplied screws to ensure solid installation to the profile section.

Materials
Body in extruded aluminium.
Slider, fixing plate and internal components in die-cast zamak.
Stainless steel grub screws and spring.



The X dimension depends on the series used



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03353	PRATIKA DUO HANDLE	only painted finishes	X	X	X	X	10

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PRATIKA DUO KEY HANDLE

Functions

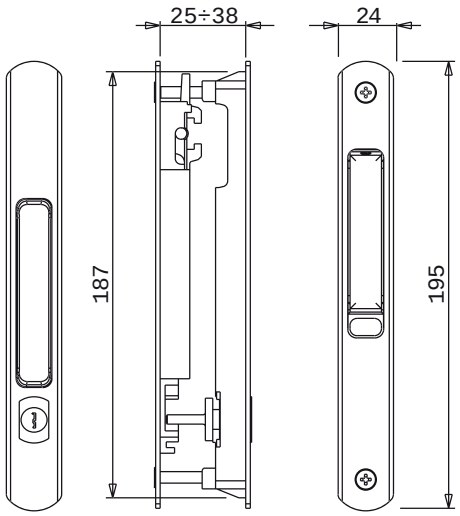
Recessed PRATIKA handle with manual locking, with external security key-lock for side closure and simultaneous overlap of the sashes of an aluminium sliding window, but more specifically for use on doors.

Technical Features

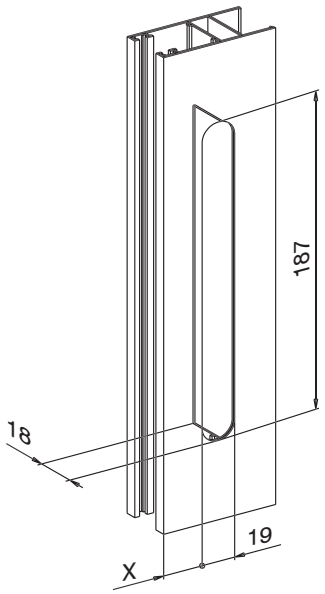
The handle's slider can be operated externally with a key to open or close the sash.
From inside, the sash's lock can be engaged or left unengaged with the slider.
The two housings are connected and secured with the supplied screws to ensure solid installation to the profile section.
The lock allows an excellent number of combinations and the possibility of having systems with the same key (KA) or master key (MK).

Materials

Body in extruded aluminium.
Slider, fixing plates and internal components in die-cast zamak.
Stainless steel grub screws and spring.



The X dimension depends on the series used



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03352	PRATIKA DUO HANDLE + LOCK	only painted finishes	X	X	X	X	10

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BRIO PULL HANDLES

Functions

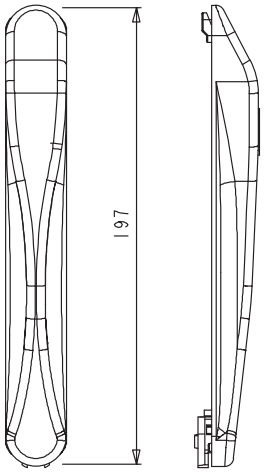
The external Brio pull handle, combined with a Brio or Brio MD recessed handle, enables the end user to move the wing of a sliding door with ease.

Technical Features

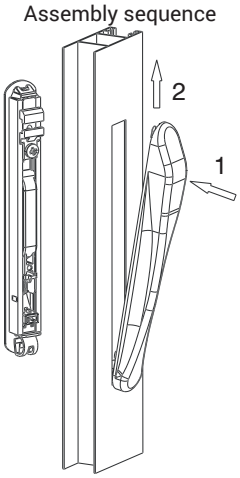
The special ergonomic shape of the Brio external pull handle allows easy handling of a sliding door from the exterior side.
This article must always be mounted in combination with a Brio or Brio MD recessed handle.
Assembly is quick and precise. Two slots must be made (187x19.5mm) in perfect alignment and of the same size on the sash upright.

Materials

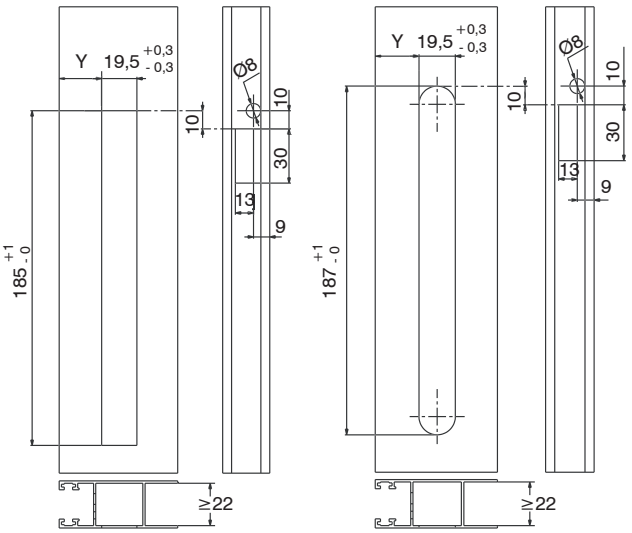
Body in die-cast zamak
Upper and lower fork in white zinc plated zamak
Upper and lower TSE M5x14 fixing screws in stainless steel



Assembly sequence



The Y dimension depends on the series used



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02966N	BRIO EXTERNAL PULL HANDLE		X		X		5

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BRIO KEY DRIVE ROD

Functions

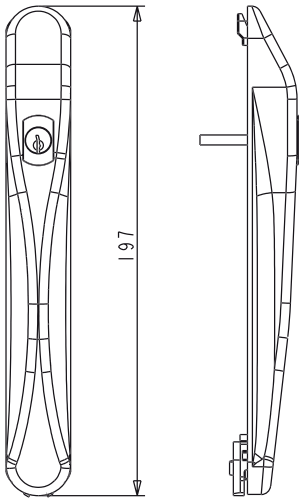
The external Brio Key pull handle, combined with a Brio Plus or Brio Plus MD recessed handle, enables the end user to open and close a sliding door safely and easily.

Technical Features

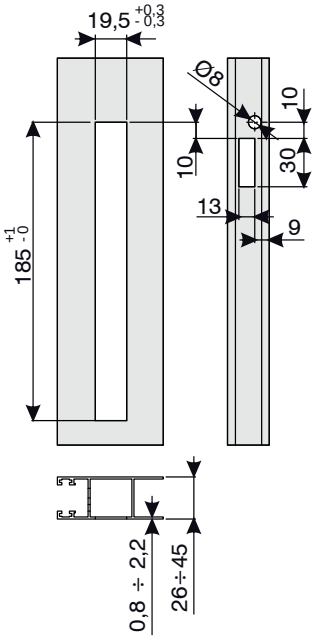
Available in two versions with European and Special cylinder (Giesse).
The special ergonomic shape of the Brio Key external pull handle allows easy handling of a sliding door.
On the external side, the key is used to activate the cylinder that opens and closes the sash. From inside, the sash's lock can be engaged or left unengaged by directly using the polyamide recess handle.
It should always be applied in combination with a Brio Plus or Brio Plus MD recessed handle, suitably prepared.
Assembly is quick and precise. Two slots must be made (187x19.5mm) in perfect alignment and of the same size on the sash upright.
The lock allows a high number of combinations and the possibility of having systems with the same key (KA) or master key (MK).

Materials

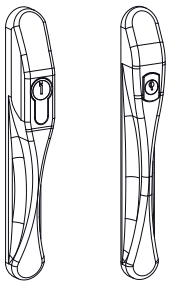
Body in die-cast zamak
Upper and lower fork and key bit in white zinc plated Zamak
Upper and lower TSE M5x14 fixing screws in stainless steel
Fibreglass reinforced polyamide shim
Fibreglass reinforced polyamide release element



Machining on profile



Version with European cylinder and Special cylinder (Giesse)



Assembly sequence



Item code	Description	Cylinder	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02967V	BRIO KEY EXTERNAL PULL HANDLE	Special	X		X		5
02996	BRIO KEY EXTERNAL PULL HANDLE	European	X		X		5

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BRIO RECESSED HANDLES

Functions

The external Brio pull handle, combined with a Brio recessed handle, enables the end user to move the sash of a sliding door with ease.

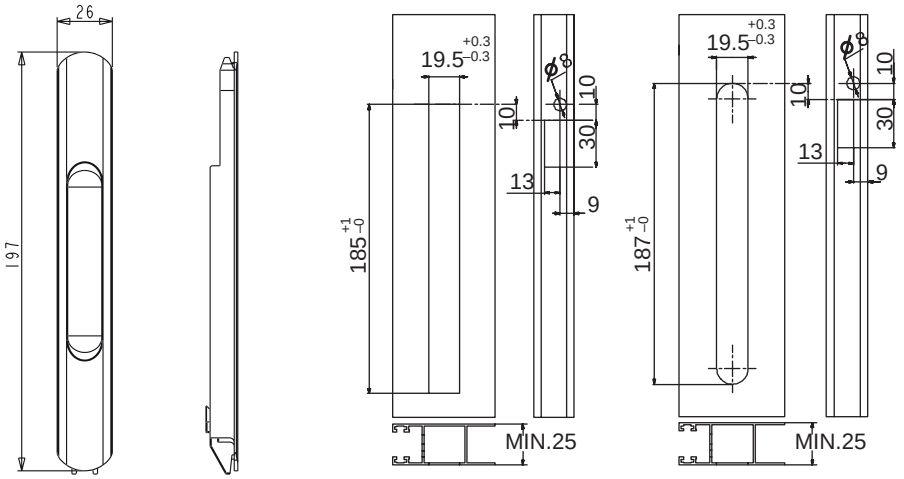
Technical Features

The Brio external flush-mounted pull handle allows easy handling of a sliding door from the exterior side.
The use of this product enables the overlap of the main and secondary sash.
It should always be combined with a Brio recessed handle.
Fitting is quick, accurate and easy. Two slots must be made (187x19.5mm) in perfect alignment and of the same size on the sash upright.
Available in two fixing versions with 2-teeth or 1-tooth spring according to the characteristics of the profile.

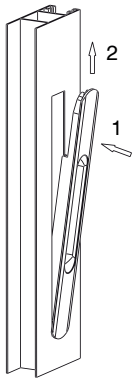
Materials

Body in die-cast zamak
Lower fork in zinc plated Zamak
Lower fixing HSCH screw M5x10 in stainless steel

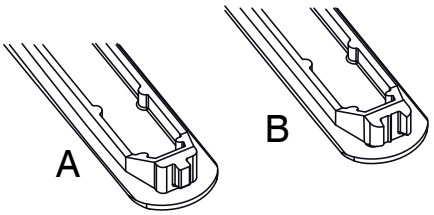
Machining on profile



Assembly sequence



A: 1-tooth spring - B: 2-teeth spring



Item code	Description	Fixing spring	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02980	BRIO EXTERNAL RECESS PULL HANDLE	2 teeth	X		X		5
02981	BRIO EXTERNAL RECESS PULL HANDLE	1 tooth	X		X		5

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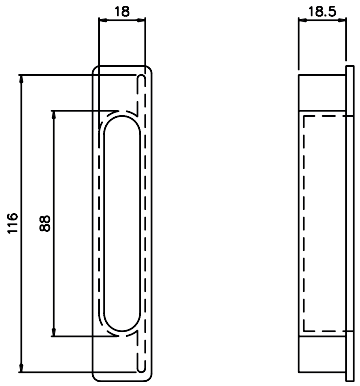


RECESSED HANDLES

Functions
Recessed carry handle to facilitate moving the sashes of a sliding door or window from the outside.

Technical Features
It is applied with specific machining and fixed with 2 self-tapping screws that are screwed into the handle reinforcement wall.

Materials
Black polyamide



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02341	RECESSED CARRY HANDLE	black nylon	X				100

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BRIO SIDE PULL HANDLE

Functions

It is applied in combination with another Brio recessed handle.
Recommended for use on heavy aluminium sliding doors/windows to facilitate handling of the sashes.

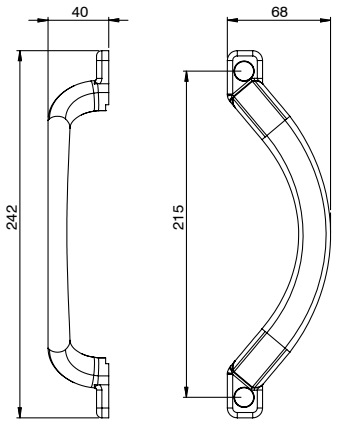
Technical Features

The Brio side pull handle has an ergonomic grip to facilitate handling of heavy doors and windows.
Available in two versions with fixing in axis with the handle and with offset fixing, especially useful in the case of particularly heavy sashes, to avoid bending the wall.
This article is designed to give unrestricted access to the recess of the recessed handle.
Assembly is particularly fast, ensuring maximum durability.

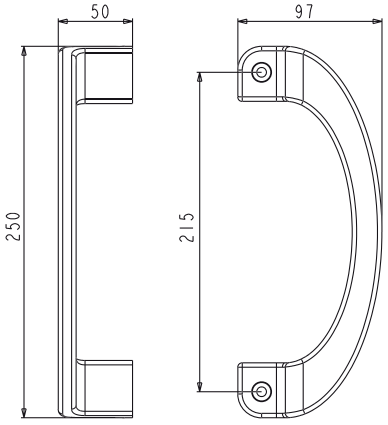
Materials

Handle made of die-cast aluminium
HSCH screws in stainless steel
Rapid inserts in zinc plated steel
Screw cover caps in polyamide

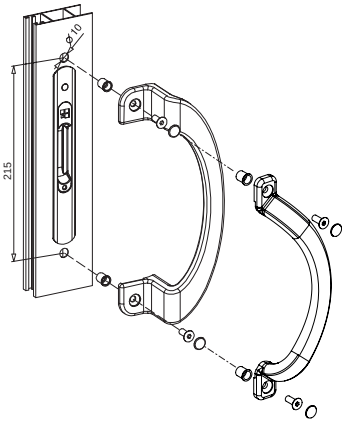
Art. 02614



Art. 03016



Machining and assembly



Item code	Description	Fixing	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02614	BRIO INTERNAL PULL HANDLE	offset	X		X		5
03016	BRIO INTERNAL PULL HANDLE	centred	X		X		5

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PRATIKA SIDE PULL HANDLE

Functions

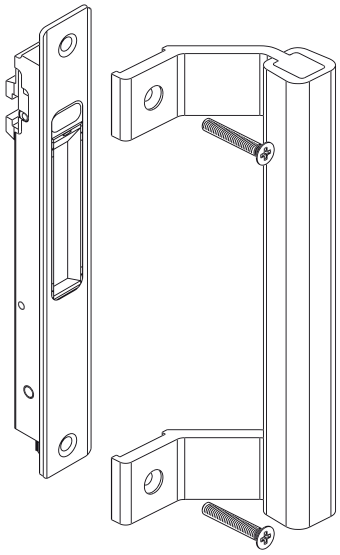
The product is applied in combination with another Pratika recessed handle. Recommended for use on heavy aluminium sliding doors/windows to facilitate handling of the sashes.

Technical Features

The Pratika side pull handle has an ergonomic grip to facilitate handling of heavy doors and windows.
This article is designed to give unrestricted access to the recess of the recessed handle.
Assembly is particularly fast, ensuring maximum durability.
Fixing is done with the same fixing plates as for the Pratika handle.

Materials

Body in extruded aluminium.
Nickel-plated brass HSCH screws



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03055	SIDE PULL HANDLE	only painted finishes standard RAL	X	X	X		5

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CITY CREMONES

Functions

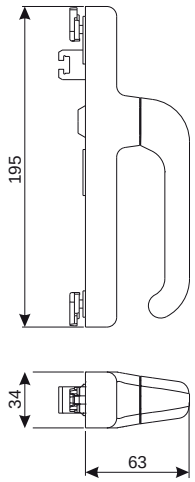
Complete system of cremones for closing and operating the internal sash of an aluminium sliding door or window.

Technical Features

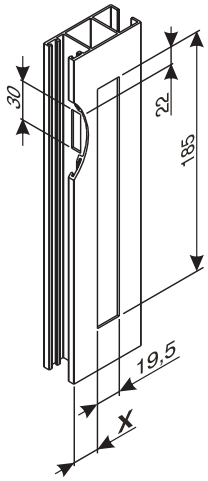
The City cremone allows an automatic or manual fastening mechanism depending on the needs of the window maker and end user.
The automatic fastening mechanism is typically used on sliding windows: when the sash is set ajar it closes, the pull handle can in any case remain locked in the open position.
The manual fastening mechanism is instead typically used on sliding doors: when the leaf is set ajar it does not close until the pull handle is turned into the vertical position.
With the manual function, the City Cremone is compatible with the Brio Top Security Multilock.
The CITY cremone has a Red/Green visual indicator to signal the Closed/Open status of the Sash even at a distance.
To create the fastening, the article requires a Brio Nib (sash side) and a counterplate (frame side).

Materials

Case and handle in die-cast aluminium
Slider and fixing plates in white zinc plated die-cast zamak
Mounting grubscrew and spring in stainless steel
Positioner in Hostaform
Pins and screws in stainless steel



The X dimension depends on the series used



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03018N	CITY CREMONE		X		X		5
03360V	CITY CREMONE		X		X		10

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CITY KEY CREMONE

Functions

Reversible cremone handle, with key lockable pull handle, for drawing the internal sash of a sliding aluminium door or window.

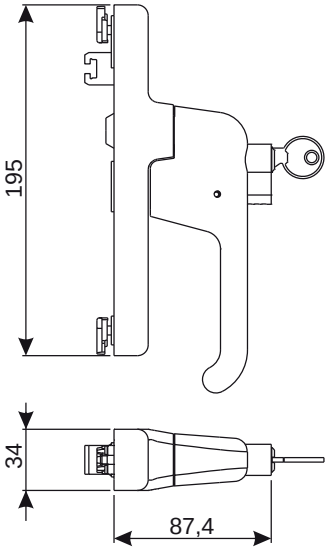
Technical Features

The City Key cremone allows an automatic or manual fastening mechanism depending on the needs of the window maker and end user.
The automatic fastening mechanism is typically used on sliding windows: when the sash is set ajar it closes, the pull handle can in any case remain locked in the open position.
The manual fastening mechanism is instead typically used on sliding doors: when the leaf is set ajar it does not close until the pull handle is turned into the vertical position.
With the manual function, the City Cremone is compatible with the Brio Top Security Multilock.
The CITY cremone has a Red/Green visual indicator to signal the Closed/Open status of the Sash even at a distance.
To create the fastening, the article requires a Brio nib (sash side) and a counterplate (frame side).
The key cylinder on the pull handle allows the mechanism to be locked in the close position.
City Key cremones with a small nib include a "Different keys" type of cylinder (with a maximum of 50 different codes). On request it is possible to have the version with "Same keys" or "Master key".
The cylinder used has standard European dimensions. When necessary you can replace the cylinder with a commercial item available on the market.
City Key cremones include a "Same keys" type of cylinder. On request it is possible to have the version with "Different keys" (with a maximum of 50 different codes).

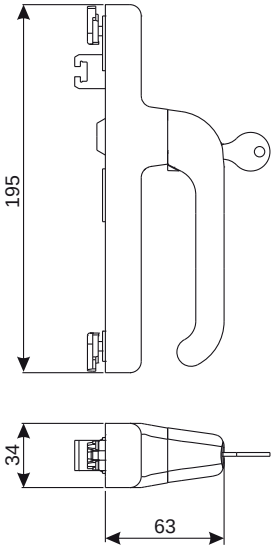
Materials

Case and handle in die-cast aluminium
Slider and fixing plates in white zinc plated die-cast zamak
Mounting grubscrew and spring in stainless steel
Positioner in Hostaform
Pins and screws in stainless steel

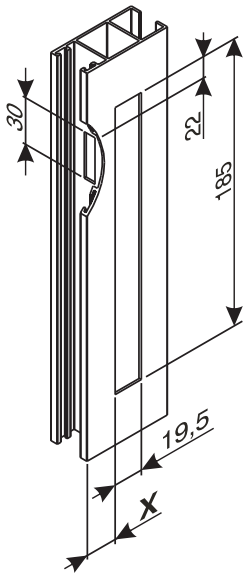
Art. 03361V



Art. 07057N



The X dimension depends on the series used



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SLIDING SYSTEM CREMONES
CITY KEY CREMONE

Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03361V	CITY KEY CREMONE W/ SMALL NIB		X		X		5
07057N	CITY KEY CREMONE				X		5

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BRIO BIG NIBS

Functions

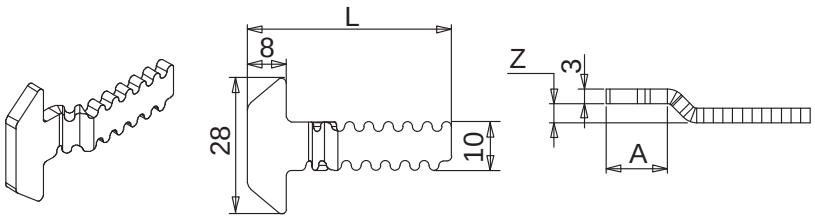
Brio Big nibs, combined with a counterplate, enable making the fastening mechanism of sliding casements.
Brio Big nibs can be used in combination with the full Brio range (Plus, Rapid, Mini, City including the Key versions).

Technical Features

Brio Big nibs are made of stainless steel and are characterized by their exceptional strength.
They are fitted with oversized heads to enable efficient use on the counterplate, and guarantee improved sealing and more range of adjustment of the lock point elements.
The special toothing is designed for micrometric adjustment of the Brio Plus handle, even though the nib can be used on the entire Brio range.
Brio Big nibs can be combined with a great variety of Giesse counterplates (see relative section) depending on the series used.

Materials

Stainless Steel



Item code	Description	L [mm]	A [mm]	Z [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02597	BRIO BIG NIB	42	11	7	X				100
03330	BRIO BIG NIB	33	9,5	1	X				100
03331	BRIO BIG NIB	38	14,8	2,5	X				100
04530	BRIO BIG NIB	37	14,5	6	X				100
04579	BRIO BIG NIB	45,3	0	0	X				100
04580	BRIO BIG NIB	51	0	0	X				100
04581	BRIO BIG NIB	29	9,5	1,5	X				100
04582	BRIO BIG NIB	37,5	9,5	1,5	X				100
04586	BRIO BIG NIB	32,2	9,5	3,5	X				100
04588	BRIO BIG NIB	42	13	4	X				100
04589	BRIO BIG NIB	32	9	5	X				100
04590	BRIO BIG NIB	36	11,5	5	X				100
04594	BRIO BIG NIB	43	12,5	5,5	X				100
04695	BRIO BIG NIB	30	11	8	X				100
04990	BRIO BIG NIB	36,3	0	0	X				100
04991	BRIO BIG NIB	44	14	3,5	X				100
04992	BRIO BIG NIB	38	14	3,5	X				100
04999	BRIO BIG NIB	46,5	14,8	2	X				100
05004	BRIO BIG NIB	42	14,8	2,5	X				100

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BRIO SMALL NIBS

Functions

Brio Big nibs, combined with a counterplate, enable making the fastening mechanism of sliding casements.
Brio Big nibs can be used in combination with Brio Rapid, Mini, City including Key versions (but not with Brio Plus) handles.

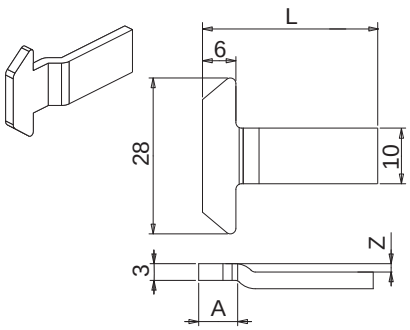
Technical Features

Brio Small nibs are made of stainless steel and are characterized by their exceptional strength.
They are fitted with oversized heads to enable efficient use on the counter-plate, and guarantee improved sealing and more range of adjustment of the lock point elements.
Brio Small nibs can be combined with a great variety of Giesse counterplates (see relative section) depending on the series used.

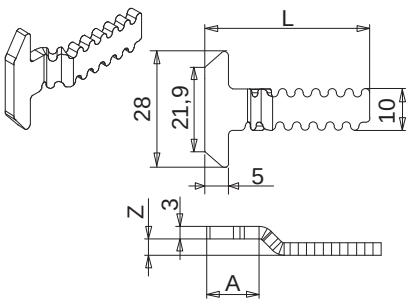
Materials

Stainless Steel

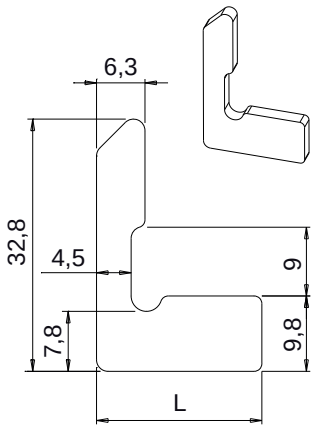
Type A



Type B



Type C



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Item code	Description	Drawing	L [mm]	A [mm]	Z [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02691	BRIO SMALL NIB	B	31	9	6	X				100
07374	BRIO SMALL NIB	B	42	9	3	X				100
90056	BRIO SMALL NIB	A	37,2	0	0	X				100
90060	BRIO SMALL NIB	A	26	7	1,5	X				100
90061	BRIO SMALL NIB	A	36	10	3	X				100
90062	BRIO SMALL NIB	A	34,7	0	0	X				100
90063	BRIO SMALL NIB	A	29	0	0	X				100
90064	BRIO SMALL NIB	A	35	7	1,5	X				100
90070	BRIO SMALL NIB	A	51	10	3	X				100
90075	BRIO SMALL NIB	A	42	7	1,5	X				100
90081	BRIO SMALL NIB	A	44	10	3	X				100
90086	BRIO SMALL NIB	A	31	10	6	X				100

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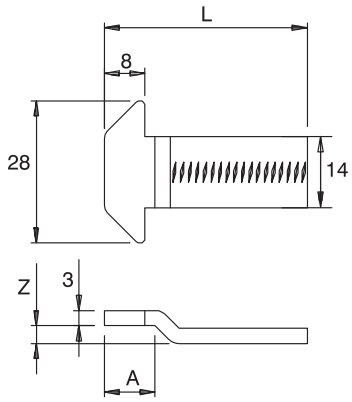


PRATIKA/NADA NIBS

Functions
Pratika and Nada nibs, combined with a counterplate, enable making the fastening mechanism of sliding casements.

Technical Features
Pratika and Nada nibs are made of stainless steel and are characterized by their exceptional strength.
They are fitted with oversized heads to enable efficient use on the counterplate, and guarantee improved sealing and more range of adjustment of the lock point elements.
Pratika and Nada nibs can be combined with a great variety of Giesse counterplates (see relative section) depending on the series used.

Materials
Stainless Steel



Item code	Description	L [mm]	A [mm]	Z [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02675	PRATIKA/NADA NIB	32	9,5	3,5	X				100
02676	PRATIKA/NADA NIB	38	0	0	X				100
02677	PRATIKA/NADA NIB	37,5	9,5	1,5	X				100
02679	PRATIKA/NADA NIB	44	14	3,5	X				100

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INSERTED COUNTERPLATES

Functions

The counterplate to be inserted, combined with a nib for a recessed handle, creates the fastener of a sliding sash.

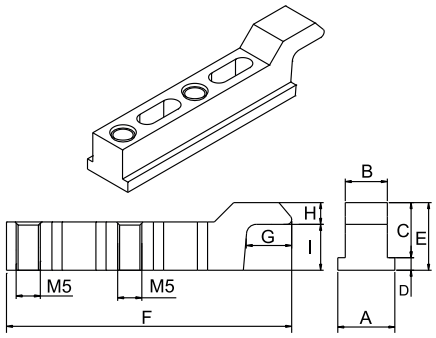
Technical Features

Inserted counterplates are to be inserted into the frame profile upright before assembly.
The counterplate is fixed to the frame by means of contrast grubscrews.
This type of counterplate has the advantage of being able to be height adjusted by simply loosening the grub screws and then repositioning them.
They feature high tear strength as they are held by the profile.

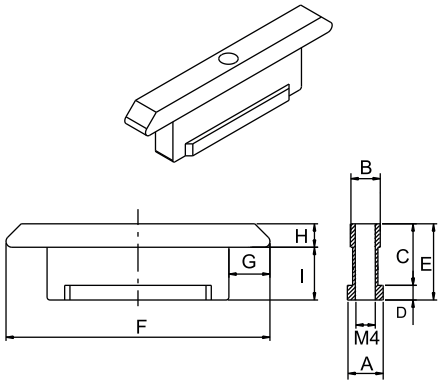
Materials

Zamak body (GS Silver Plus/GS500)
Stainless steel grub screws

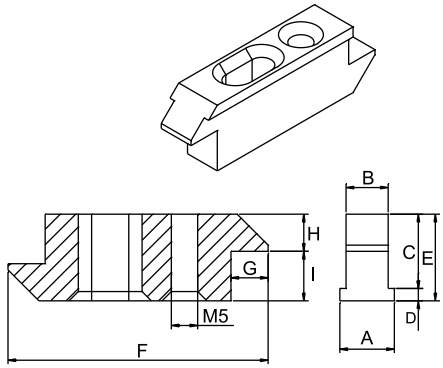
Type 1



Type 2



Type 3



Item code	Description	Type	A	B	C	D	E	F	G	H	I	Compatible with Brio Small nib	Compatible with Brio Big nib	Compatible with Brio Zamak nib	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03326	INSERTED COUNTERPLATE	2	6	5	10,5	2,5	13	45	7	4	9	YES	YES	NO	X				100
0332701	INSERTED COUNTERPLATE	2	10	8	10,5	2,5	13	45	7	4	9	YES	YES	NO	X				100
0332801	INSERTED COUNTERPLATE	2	8	6	10,5	2,5	13	45	7	4	9	YES	YES	NO	X				100
03947	INSERTED COUNTERPLATE	1	12,1	9,4	11,7	2,3	14	59	9,3	4,5	9,5	YES	YES	NO	X				30
03985	INSERTED COUNTERPLATE	1	8	7	11	3,5	14,5	37	5	4,5	10	YES	YES	NO	X				30
04683	INSERTED COUNTERPLATE	2	6	5	11	2	13	45	7	4	9	YES	YES	NO	X				100
9003001	INSERTED COUNTERPLATE	3	10,5	8	11	3	14	42	6	4	10	YES	YES	NO	X				100
90039	INSERTED COUNTERPLATE	3	8,8	6,8	12	2	14	42	6	6	8	YES		NO	X				100
90040	INSERTED COUNTERPLATE	1	12,1	8,7	11,4	2,6	14	59	9,3	4,5	9,5	YES	YES	NO	X				100
90044N	INSERTED COUNTERPLATE	1	12,1	9,4	11,7	2,3	14	59	9,3	4,5	9,5	YES	YES	NO	X				100
90079	INSERTED COUNTERPLATE	1	8	7	11	3,5	14,5	37	5	4,5	10	YES	YES	NO	X				100
9008001	INSERTED COUNTERPLATE	1	10	7	10,5	3,5	14	35	9,5	4,5	9,5	YES	YES	NO	X				100

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FRONT-MOUNTED COUNTERPLATES

Functions

The front application counterplate combined with a nib for a recessed handle creates the fastener of a sliding sash.

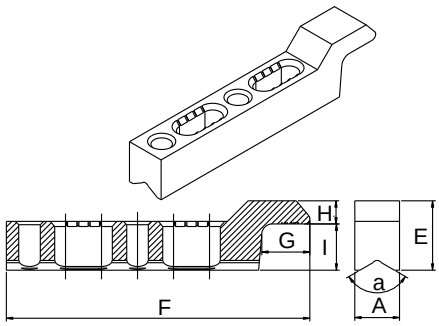
Technical Features

The front-mounting counterplates are fitted with the frame already assembled, on the frame upright usually with self-tapping screws.
This type of counterplate has the advantage of being able to be height adjusted thanks to the slots for accommodating screws, by simply loosening them and then repositioning the counterplate.
Available in different versions depending on the profile on which they are to be mounted.
For Type 1 counterplates there is also a cosmetic cover and an 8 mm shim.

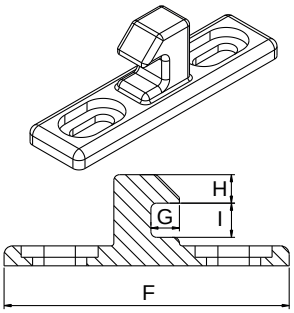
Materials

Zamak body (GS Silver Plus/GS500)
Stainless steel fixing screws

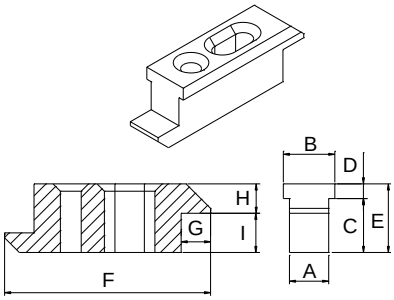
Type 1



Type 2



Type 3



Item code	Description	Type	Shims	A	B	C	D	E	F	G	H	I	a°	Compatible with Brio Small nib	Compatible with Brio Big nib	Compatible with Brio Zamak nib	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02616	COVER FOR COUNTERPLATE TYPE 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X				200
03337	FRONT-MOUNTED COUNTERPLATE	1	no	8,7	-	-	-	13,5	59	9,3	4,5	9	120°	YES	YES	YES	X				100
03338	FRONT-MOUNTED COUNTERPLATE	1	no	8,7	-	-	-	13,5	59	9,3	4,5	9	120°	YES	YES	YES	X				100
03389	FRONT-MOUNTED COUNTERPLATE	1	≤ 12.5 mm	8,7	-	-	-	13,5	59	9,3	-	-	120°	YES	YES	YES	X				20
9002901	FRONT-MOUNTED COUNTERPLATE	2	no	13	7,5	12,5	3,5	16	50	5	4	7	-	YES	NO	NO	X				100
90031	FRONT-MOUNTED COUNTERPLATE	2	no	13	7,5	15,5	3,5	19	50	5	4	7	-	YES	NO	NO	X				100
90032	FRONT-MOUNTED COUNTERPLATE	3	no	6,8	8,8	2	12	14	42	6	6	8	-	YES	NO	NO	X				100
9003801	FRONT-MOUNTED COUNTERPLATE	1	no	10	-	-	-	14	43	5	6	8	120°	YES	NO	NO	X				100
9004201	FRONT-MOUNTED COUNTERPLATE	1	no	8,2	-	-	-	18,5	42	6	6	12,5	150°	YES	YES	YES	X				100
90046	FRONT-MOUNTED COUNTERPLATE	2	no	13	7,5	12,5	3,5	16	50	5	5	6	-	YES	NO	NO	X				100
90047	FRONT-MOUNTED COUNTERPLATE	1	no	12,1	9,4	11,7	2,3	14	59	9,3	4,5	9,5	-	YES	YES	YES	X				100
90085	FRONT-MOUNTED COUNTERPLATE	1	no	8	6,2	11	3,5	14,5	37	5,1	4,5	10	-	YES	YES	YES	X				100

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COUNTERPLATES FOR MILLED RAIL

Functions

The front application counterplate combined with a nib for a recessed handle creates the fastener of a sliding sash.

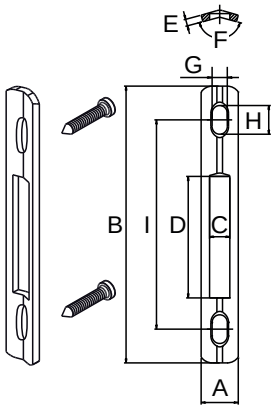
Technical Features

The counterplate is applied on the frame of a sliding casement by means of the self-threading screws supplied.
It is specific to those profiles that require the rail on the cross beam of the frame.
The slots on the counterplate body enable height adjustment in order to correctly position it for a better grip on the nib.
The base of the counterplate provides for an angle of 150° so that it can be applied on frames with rail and frames with flat slot.
The counterplate is compatible with Giesse Brio and Pratika line nibs.
Available in two versions without (type 1) and with shutter (type 2).
According to need, the version without a shutter can be combined with polyamide shims so that it can be moved away from the frame.

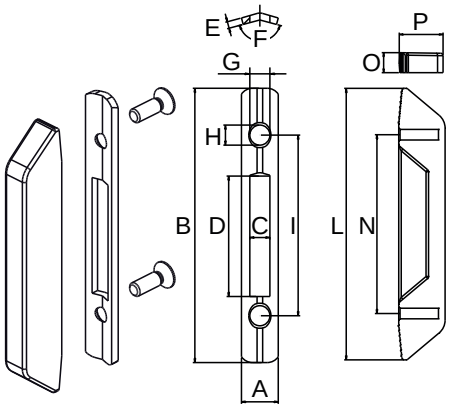
Materials

Corrosion-proof stainless steel counterplate
Zamak shutter (GS Silver Plus/GS500)
Stainless steel screws

Type 1



Type 2



Item code	Description	Type	A	B	C	D	E	F	G	H	I	L	N	O	P	Compatible with Brio Small nib	Compatible with Brio Big nib	Compatible with Brio Zamak nib	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0299301	COUNTERPLATE + SHUTTER	2	11	82	6	36	2	150°	6	6	70	80	70	8,8	5,8	YES	YES	NO	X				100
03336	FRONT-MOUNTED COUNTERPLATE	1	11	82	6	36	2	150°	4,5	8,5	62	-	-	-	-	YES	YES	NO	X				100
03336L	FRONT-MOUNTED COUNTERPLATE	1	16	82	10	36	2	150°	5	8,5	54	-	-	-	-	YES	YES	NO	X				100
04690	FRONT-MOUNTED COUNTERPLATE+SHUTTER	2	16	82	10	36	2	150°	5	8,5	54	80	54	12	9	YES	YES	NO	X				100
90035	COUNTERPLATE + SHUTTER	2	11	82	6	36	2	150°	6	6	54	82	54	6	17	YES	YES	NO	X				100
90043	COUNTERPLATE + SHUTTER	2	11	82	6	36	2	150°	6	6	54	82	54	8	14	YES	YES	NO	X				100

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VARIOUS COUNTERPLATES

Functions

The counterplate, combined with a nib for a recessed handle, creates the fastener of a sliding sash.

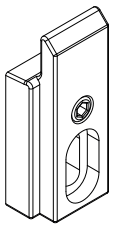
Technical Features

These counterplates are difficult to classify as they are specific for sliding profiles (in particular frames) that have unique characteristics.
For the application it is advisable to see Giesse Where Used.
They are fixed depending on the version or by self-threading screws, or by pre-assembled grub screws.

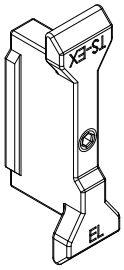
Materials

Zamak with GS Silver Plus finish
Screws and grub screws in stainless steel

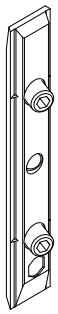
0299101



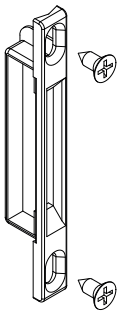
0469401



0737201



9007601



Item code	Description	Fixing	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0299101	INSERTED COUNTERPLATE	grub screw	X				100
0469401	INSERTED COUNTERPLATE	grub screw	X				100
0737201	FRONT-MOUNTED COUNTERPLATE	grub screws	X				100
9007601	COUNTERPLATE	self - threading	X				100

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BRIO PLUS/MINI COUPLING KIT



Functions

Brio coupling kits comprise the components necessary for creating a fastening mechanism on aluminium sliding windows or doors. They can be used in combination with the full Brio range (Plus, Rapid, Mini, City including the Key versions).

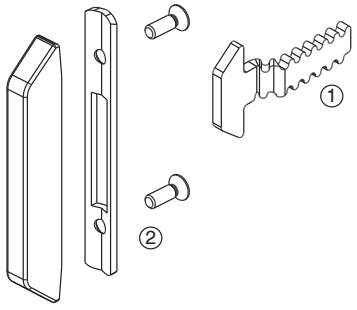
Technical Features

The coupling kits are composed of nib and a counterplate, packed together so that the window maker has everything required for making the fastening mechanism for the sliding door or window.
The nib is available in stainless steel and zamak.
The length and anchoring varies depending on the profile to be used.
The counterplate is available in stainless steel or zamak.
Depending on the frame in which it is to be fitted, it is available in the following versions:
A – insert
B – front application
C – front mounting with milled rail
D – front mounting with milled rail and shutter
E – miscellaneous
Brio coupling kits can be fitted on:
- Brio
- Brio Plus
- Brio Mini
- Brio Rapid
- City Cremone
- City Key Cremone

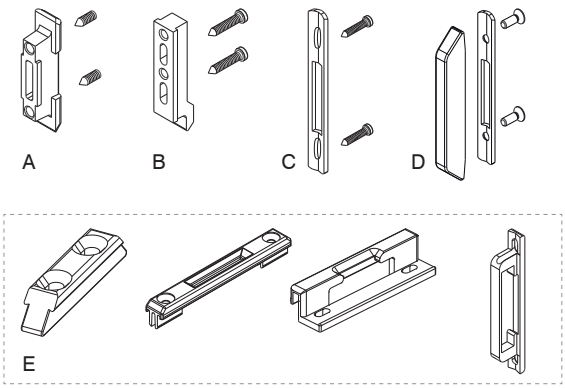
Materials

Stainless steel nibs
Counterplates:A – zamak counterplate and stainless steel grub screws
A – zamak counterplate and stainless steel screws
C – counterplate and screws in stainless steel
D – shutter in zinc plated zamak and counterplate and screws in stainless steel
E – zamak

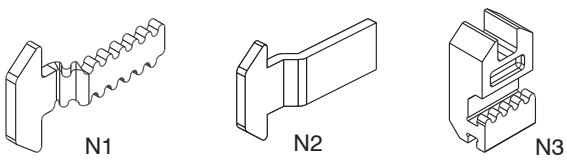
Example of Brio Plus/Mini coupling kit
1 - Nib
2 - Counterplate (variable depending on the product)



Possible counterplates



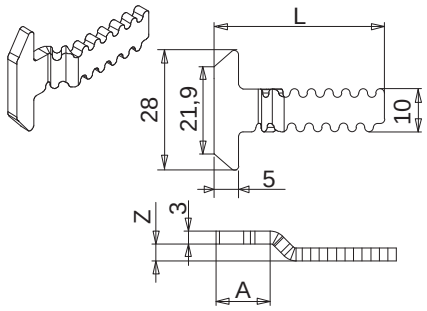
Possible nibs



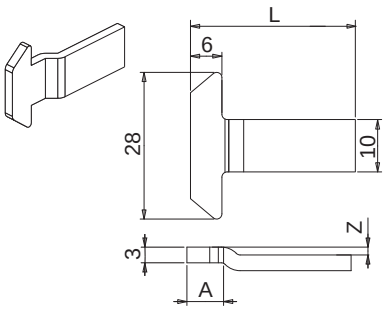
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FASTENING MECHANISM COMPONENTS
BRIO PLUS/MINI COUPLING KIT

Nib type N1



Nib type N2



Item code	Description	Nib	Nib type	L	A	Z	Counterplate	Counterplate type	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04888	BRIO PLUS/BRIO MINI COUPLING KIT	04577	N1	38,3	0	0	specific	C/D	X				20
04891	BRIO PLUS/BRIO MINI COUPLING KIT	04580	N1	51	0	0	90047	B	X				20
04893	BRIO PLUS/BRIO MINI COUPLING KIT	04587	N1	50	14	3,5	90047	B	X				20
04894	BRIO PLUS/BRIO MINI COUPLING KIT	04582	N1	37,5	9,5	1,5	specific	C/D	X				20
04895	BRIO PLUS/BRIO MINI COUPLING KIT	04583	N1	44,5	9,5	1,5	03337	B	X				20
04896	BRIO PLUS/BRIO MINI COUPLING KIT	04991	N1	44	14	3,5	specific	C/D	X				20
04897	BRIO PLUS/BRIO MINI COUPLING KIT	04594	N1	43	12,5	5,5	specific	C/D	X				20
04899	BRIO PLUS/BRIO MINI COUPLING KIT	04582	N1	37,5	9,5	1,5	specific	C/D	X				20
04902	BRIO PLUS/BRIO MINI COUPLING KIT	04589	N1	32	9	5	04688	C/D	X				20
04902L	BRIO PLUS/BRIO MINI COUPLING KIT	04589	N1	32	9	5	03336L	C/D	X				20
04903	BRIO PLUS/BRIO MINI COUPLING KIT	04589	N1	32	9	5	04687	A	X				20
04904	BRIO PLUS/BRIO MINI COUPLING KIT	04586	N1	32,2	9,5	3,5	04688	C/D	X				20
04905	BRIO PLUS/BRIO MINI COUPLING KIT	04586	N1	32,2	9,5	3,5	specific	C/D	X				20
04912L	BRIO PLUS/BRIO MINI COUPLING KIT	04595	N1	30	11	8	04690	C/D	X				20
04913	BRIO PLUS/BRIO MINI COUPLING KIT	04584	N1	28,5	10,4	3,5	specific	C/D	X				20
04916	BRIO PLUS/BRIO MINI COUPLING KIT	04581	N1	29	9,5	1,5	specific	C/D	X				20
04917	BRIO PLUS/BRIO MINI COUPLING KIT	04990	N1	36,3	0	0	90047	B	X				20
0491901	BRIO PLUS/BRIO MINI COUPLING KIT	05004	N1	42	14,8	2,5	90076	E	X				20
04920	BRIO PLUS COUPLING KIT	04592	N1	50	17	5	90047	B	X				20
04921	BRIO PLUS/BRIO MINI COUPLING KIT	04992	N1	38	14	3,5	specific	C/D	X				20
04966	BRIO PLUS/BRIO MINI COUPLING KIT	04990	N1	36,3	0	0	specific	C/D	X				20
04994L	BRIO PLUS/BRIO MINI COUPLING KIT	04596	N1	32	12,5	8	04690	C/D	X				20
0500201	BRIO PLUS/BRIO MINI COUPLING KIT	90087N	N3				90038	B	X				20
05005	BRIO PLUS/BRIO MINI COUPLING KIT	04598	N3				03337	B	X				20

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PRATIKA/NADA COUPLING KIT

Functions

The coupling kits comprise the components necessary for creating a fastening mechanism on aluminium sliding windows or doors. They can be used in combination with the whole PRATIKA range (including the key version) and NADA range.

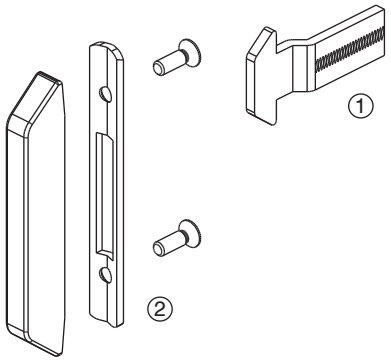
Technical Features

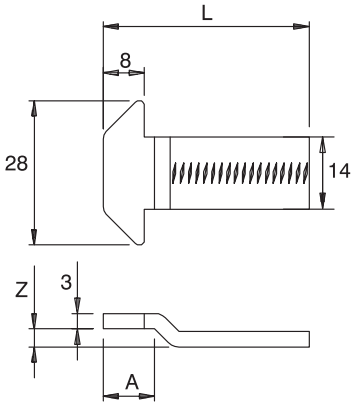
The coupling kits are composed of nib and a counterplate, packed together so that the window maker has everything required for making the fastening mechanism for the sliding door or window.
The nib is made of stainless steel and is available with various lengths and anchorings based on the series used.
The counterplate is available in stainless steel or zamak.
Depending on the frame in which it is to be fitted, it is available in the following versions:
A – insert
B – front application
C – front mounting with milled rail
D – front mounting with milled rail and shutter
Pratika and Nada coupling kits can be applied to:
- Pratika
- Pratika Duo Key
- Pratika Duo
- Nada
- City Cremone

Materials

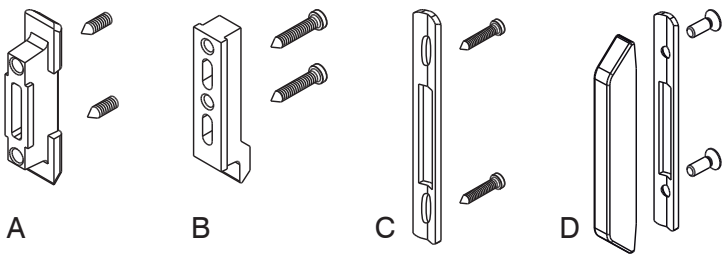
Stainless steel nibs
Counterplates:
A – zamak counterplate and stainless steel grub screws
A – zamak counterplate and stainless steel screws
C – counterplate and screws in stainless steel
D – shutter in zinc plated zamak and counterplate and screws in stainless steel

1 - Nib
2 - Counterplate (variable depending on the product)





Possible counterplates



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FASTENING MECHANISM COMPONENTS
PRATIKA/NADA COUPLING KIT

Item code	Description	Nib	L	A	Z	Counterplate	Counterplate type	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02148	PRATIKA/NADA COUPLING KIT	02687	29	0	0	Specific	C	X				20
02149	PRATIKA/NADA COUPLING KIT	02675	32	9,5	3,5	Specific	C	X				20
03058	PRATIKA/NADA COUPLING KIT	02673	34	11	8	04686	A	X				20
03063L	PRATIKA/NADA COUPLING KIT	02674	30	11	8	04690	C	X				20
03068	PRATIKA/NADA COUPLING KIT	02675	32	9,5	3,5	04688	C	X				20
03069L	PRATIKA/NADA COUPLING KIT	02686	32	12,5	8	04690	C	X				20
03082	PRATIKA/NADA COUPLING KIT	02676	38	0	0	Specific	C	X				20
03083	PRATIKA/NADA COUPLING KIT	02677	37,5	9,5	1,5	Specific	C	X				20
03084	PRATIKA/NADA COUPLING KIT	02678	44,5	9,5	1,5	Specific	C	X				20
03085	PRATIKA/NADA COUPLING KIT	02679	44	14	3,5	Specific	C	X				20
03087	PRATIKA/NADA COUPLING KIT	02680	29	9,5	1,5	Specific	C	X				20
03088	PRATIKA/NADA COUPLING KIT	02681	32	9,5	5	04688	C	X				20
03088L	PRATIKA/NADA COUPLING KIT	02681	32	9,5	5	03336L	C	X				20
03092	PRATIKA/NADA COUPLING KIT	02683	50	14	3,5	90047	B	X				20
03098	PRATIKA/NADA COUPLING KIT	02678	44,5	9,5	1,5	03337	B	X				20

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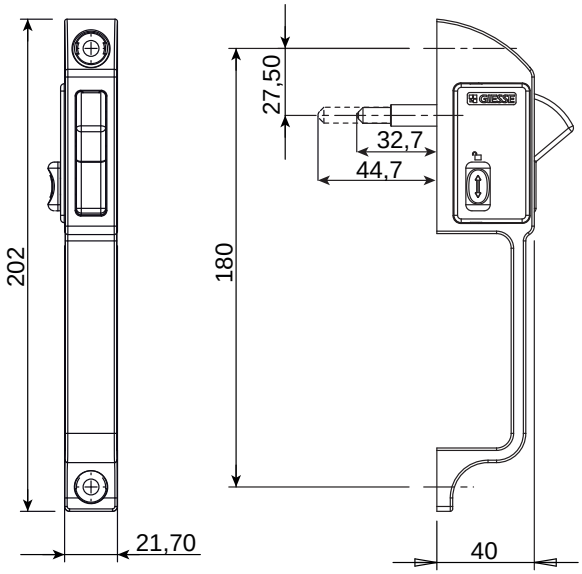
DELTA PLUS LUG HANDLE

Functions
Lug handle for the lock on the central upright of a door or a sliding window made of aluminium.

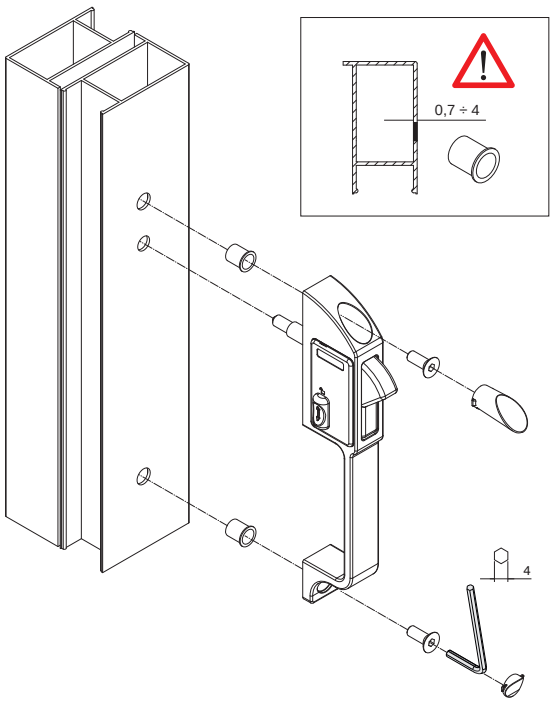
Technical Features
The Delta Plus handle fixing system is accomplished using expansion dowels.
The machining required on the profile comprises two simple 10 mm holes and one 9 mm hole which is needed for the pin to pass through.
The stroke of the lock pin is = 15 mm.
The Delta Plus handle has a selector that locks the main lug in the closed position.
This function prevents unintentional opening of the handle, improving security.
When the selector is in the block position you cannot move the main open/close lug.

Materials
Handle body made of die-cast aluminium
Lugs, side guards and shims made of polyamide with glass fibre
Zinc-coated steel pin
Protective caps for fixing screws made of rubber
Stainless steel fixing screws
Fixing inserts made of zinc plated steel

Overall dimensions

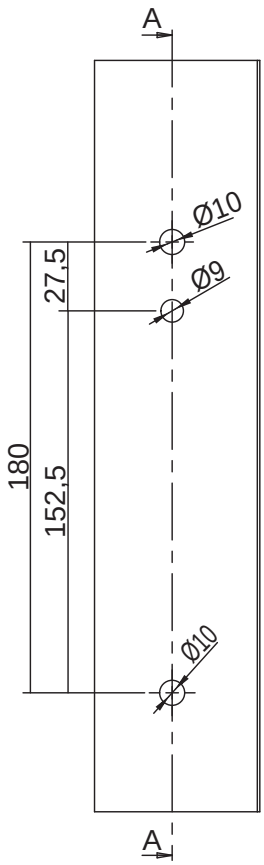


Handle assembly

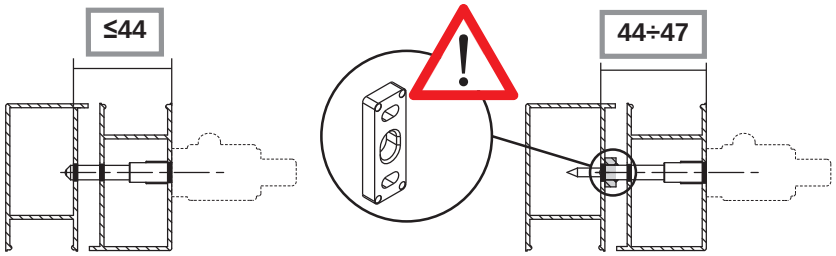


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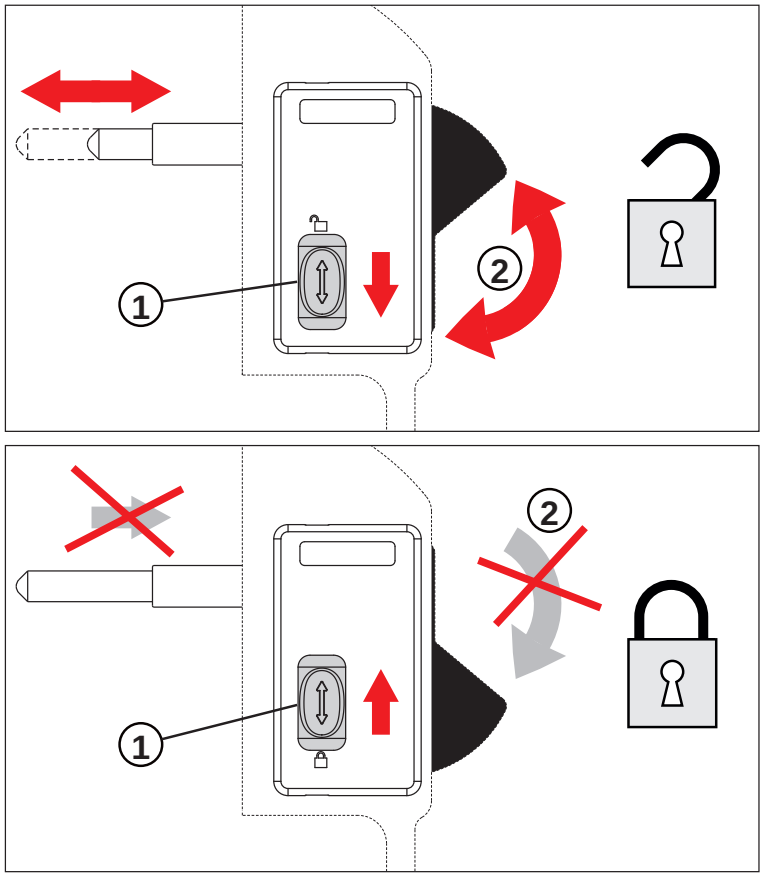
Machining



Pin stroke



Open/Close lug



Item code	Description	Pin length (sash open) mm	Pin length (sash closed) mm	Pin stroke mm	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02701	DELTA PLUS LUG HANDLE	32,7	47,7	15	X		X		20

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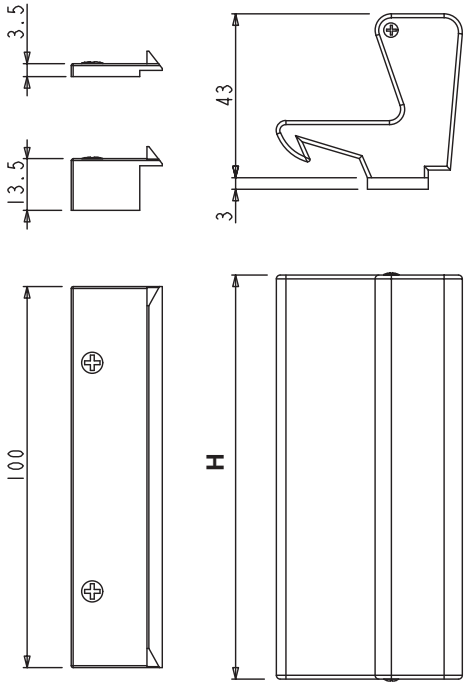


BUTTERFLY HANDLE

Functions
External carry handle, with snap coupling, to be fitted laterally on aluminium sliding doors.

Technical Features
The handle is disengaged and the sash opened by simply pressing on the side.
Available with closing Block H of 106 and 181 mm (by turning the special device) or without block H = 106 mm.

Materials
Handle body made of extruded aluminium
Casing, striker and shim in black polyamide
Spring in zinc plated steel



Item code	Description	Closing block	Handle height H	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03172	BUTTERFLY HANDLE	NO	106	X	X	X		20
03177	BUTTERFLY HANDLE	YES	181	X	X	X		20

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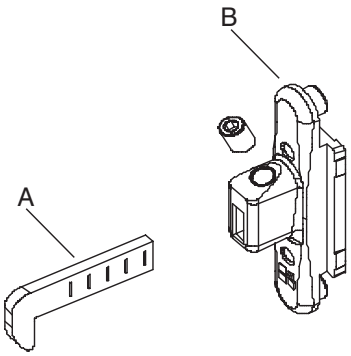
MISMO

Functions
The Mismo fastening element is composed of a nib carrier on which is housed the nib that, engaging in the corresponding counterplate, makes a locking point.

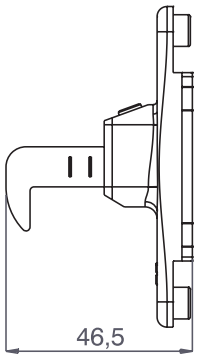
Technical Features
The nib is secured in the nib-holder with the grub screw. In the Mismo multilock the number of fastening components can be varied according to the desired grade of security of the casement.
The nib-holders are interconnected with a rod 15/20 with an 8 mm diameter hole.

Materials
Housing in Zamak
Mounting grubscrew and nib in stainless steel

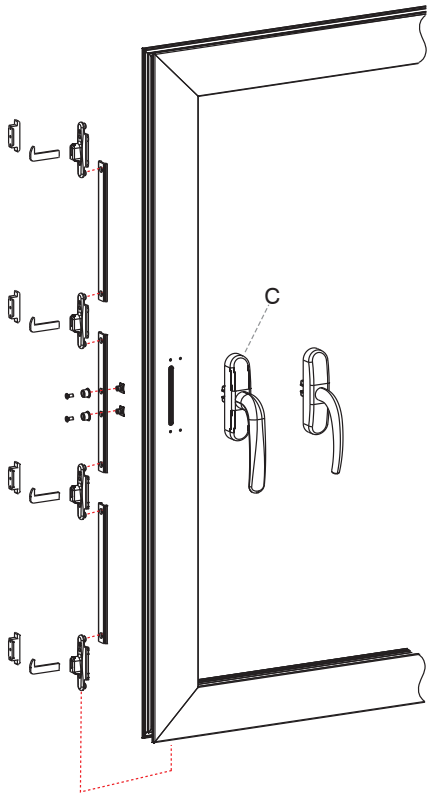
A=Nib (03345) B=Nib carrier (03340)



Dimensions

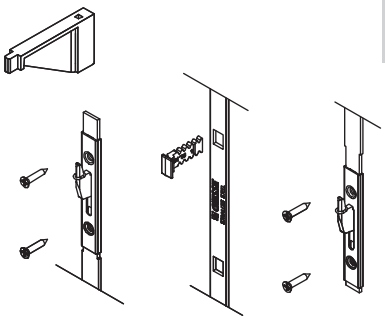


A = One-way cover cremone or other compatible model



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0334001	MISMO NIB HOLDER		X				50
03345	MISMO STRAIGHT NIB	2 mm	X				50

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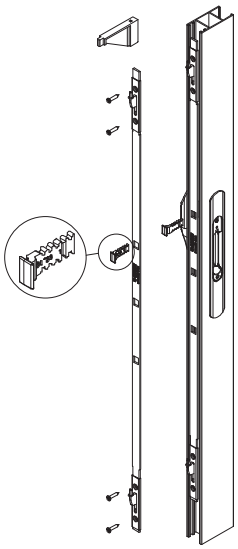
BRIO TOP SECURITY

Functions
Multi-lock for slider operated by a recessed handle, which allows closing with 2 (window) or 3 (door) locking points.

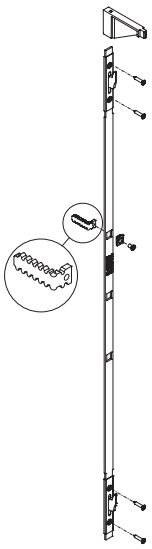
Technical Features
The BRIO TOP SECURITY multi-lock is fitted on sashes with 90° cuts in which the recessed handle is applied inside the tubular section.
The hardware is made of stainless steel to guarantee optimum resistance to wear. The opening and closing movement is transmitted by the recessed handle to the hardware by means of a zamak connector (versions available both for insertion and for screwing in).
The lock points engage with the counterplates on the frame (not supplied).
Brio Top Security comprises three fastening nibs and is applied to the profile at the front using self-tapping screws, the machining is simple and fast thanks to the use of a drilling template.
Not suitable for use on insulating profiles.
For the centring fixing of the hardware use the template 02612.

Materials
Nib, fixing plate, multi locking rod and drive element in stainless steel.
Fixing for connection elements in zinc plated zamak.
Polyamide positioning template.

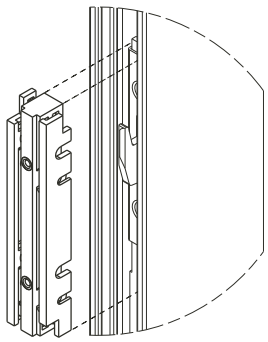
Version A: Connection to nib



Version B: Connection to nib screwed in



Centring template



Item code	Description	Sash height	Locking points	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02612	BRIO MULTILOCK CENTRING TEMPLATE			B	X				5
02997	TOP SECURITY BRIO MULTILOCK2P	800 - 1600 mm	2		X				10
02998	BRIO 3P MULTILOCK (SCREWED)	> 1600 mm	3	A	X				10
03482	TOP SECURITY BRIO MULTILOCK 3P	800 - 1600 mm	3	A	X				10
03483	TOP SECURITY BRIO MULTILOCK	> 1600 mm	2	B	X				10

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TEMPO MULTILOCK

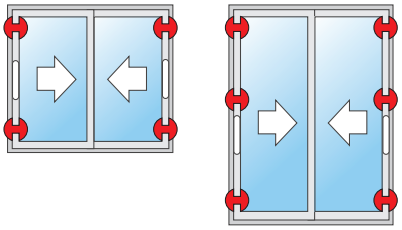
Functions

Multilocking system, for aluminium sliding doors and windows, can be operated with a single mechanism (cremone, window handle or recessed handle).

Product not available for France

Technical Features

Tempo is a complete system. It enables making windows or sliding doors with 2 or 3 locking points.
The wide range of handgrips allows you to choose between handles, cremones or single or double recess handles.
All the products are dedicated.
The multi-lock hardware (rods and nibs) is particularly resistant to corrosion being made entirely of polyamide and stainless steel.
The Tempo system consists of:
- fastening rods
- optional fastening mechanisms
- mechanism parts
- mechanism fixing kit



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FASTENING MECHANISM RODS

Functions

Can be combined with the Tempo mechanism elements, they can be operated with the square spindle or shift system and they enable closing sash windows (2 lock points) or sliding doors (3 lock points).

Technical Features

Available in two mechanism versions and in two different lengths.
The hardware is coupled with the profile by snap-fitting (no tools needed) inside the specific machining.
The nibs allow a side adjustment of ±5 mm.

Materials

Rod and elements for coupling to the profile and mechanism made of polyamide
Rotor in die-cast zamak
Stainless steel nibs



Mechanism with square spindle



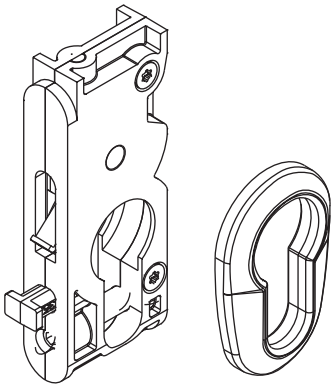
Shifting mechanism



Item code	Description	Length	Mechanism Type	Locking points	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
06000	TEMPO ROD	680	square spindle	2	X				10
06001	TEMPO ROD	1650	square spindle	3	X				10

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OPTIONAL FASTENING MECHANISMS



Functions
Components that, added to the closing rods, increase the functions of the Tempo system.

Technical Features
All TEMPO rods are prepared for mounting the lock, which can then only be used if necessary.
The lock is completed by a cover plate and a dedicated cylinder.

Materials
Lock mechanism and cover plate in polyamide
Lock cover in extruded aluminium.

Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
06031	TEMPO LOCK		X				100
06032	COVER FOR TEMPO LOCK				X		100
06041	TEMPO REDUCED CYLINDER		X				100

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MECHANISM COMPONENTS



Functions

A wide range of mechanisms, available both single and double, which allow operating the Tempo fastening rods, via square spindle or shift.

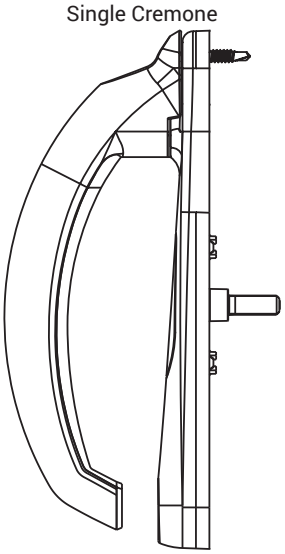
Technical Features

The Tempo multi-lock can be operated with 4 different mechanisms all available in single and double versions:
Handle
Arched pull handle
Cremone
Recessed handle
All the mechanisms can be equipped with the lock.
An external pull handle is also available.

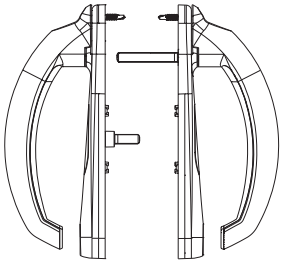
Materials

WINDOW HANDLE AND CREMONE
Handle and body in die-cast aluminium
Zinc plated steel screws.
Rotor and square spindle in die-cast zamak.
Screw caps and plate in polyamide.
ARCHED HANDLE
Body in die-cast aluminium
Polyamide spindle operating lever
Zinc plated steel screws
RECESSED HANDLE
Body in extruded aluminium
Die-cast zamak coupling element
Rod pulling element made of polyamide

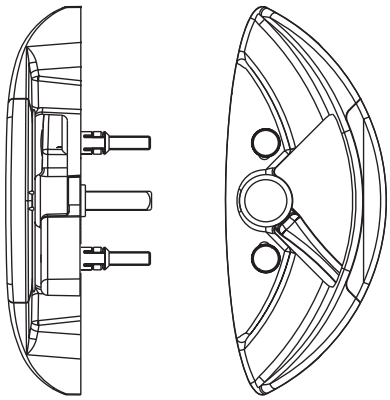
Single Cremone



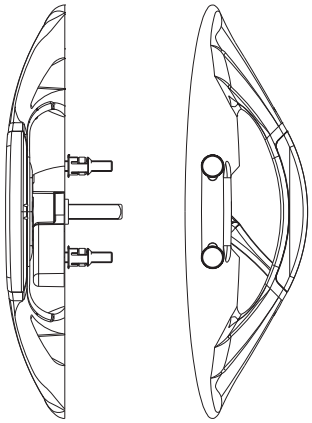
Double window handle



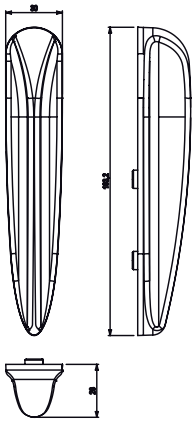
Small arched pull handle



Large arched pull handle



External drive handle

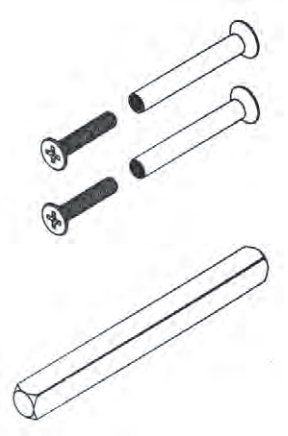


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Item code	Description	Version	Fixing	Rods	Mechanism type	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
06020	WINDOW HANDLE	Single	in the package	06000 - 06001	square spindle	X		X		20
06021	WINDOW HANDLE	Double	06033	06000 - 06001	square spindle			X		20
06024	LARGE ARCHED PULL HANDLE	Single	in the package	06000 - 06001	square spindle			X		20
06025	LARGE ARCHED PULL HANDLE	Double	06034	06000 - 06001	square spindle			X		20
06026	SMALL ARCHED PULL HANDLE	Single	in the package	06000 - 06001	square spindle			X		20
06030	EXTERNAL DRIVE HANDLE		06036					X		20

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MECHANISM FIXING KIT



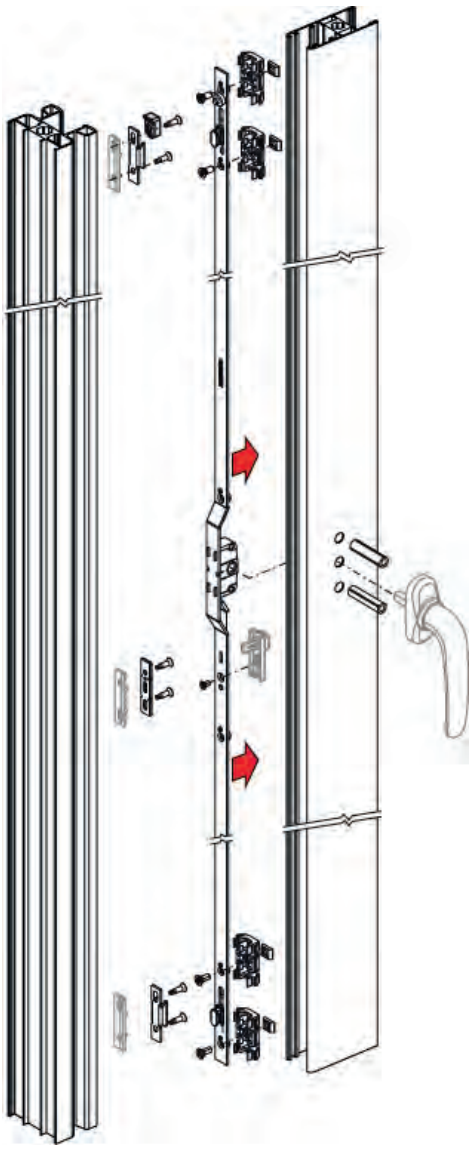
Functions
Fixing systems which allow fitting the mechanisms irrespective of the section of the profile.

Technical Features
Tempo offers 4 different types of fasteners to enable fitting the double mechanism components.

Materials
Screws and square spindle in zinc plated steel.
Threaded insert in aluminium.

Item code	Description	Profile cross-section (mm)	Compatible mechanisms	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
06033	WINDOW HANDLE AND CREMONE FIXING KIT	28 - 35	06021 - 06023	X				100
06034	LARGE ARCHED HANDLE FIXING KIT	30 - 34	06025	X				100
06036	DRIVE ROD HANDLE FIXING KIT	28 - 35	06030	X				100

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CHAMPION PLUS MULTILOCK

Functions

Multilocking system, for aluminium sliding doors and windows, can be operated with a single mechanism (window handle or recessed handle).

Technical Features

Champion Plus is a complete system that requires the use of:
• Fastening rod
• Window handle
• Kit for fixing to the profile
The fastening rod is available in different versions depending on the size of the sash and the locking points needed.
The wide range of mechanisms allows you to choose between window handles and single or double recessed handles.
The fixing kits are specific for each series of profiles used.
The multi-lock hardware (rods and nibs) is resistant to corrosion being made entirely of polyamide and zinc plated steel.

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CHAMPION PLUS CLOSING RODS



Functions

Complete system of multi-lock rods (1 to 3 points) for sliding windows or balcony-doors made of aluminium.

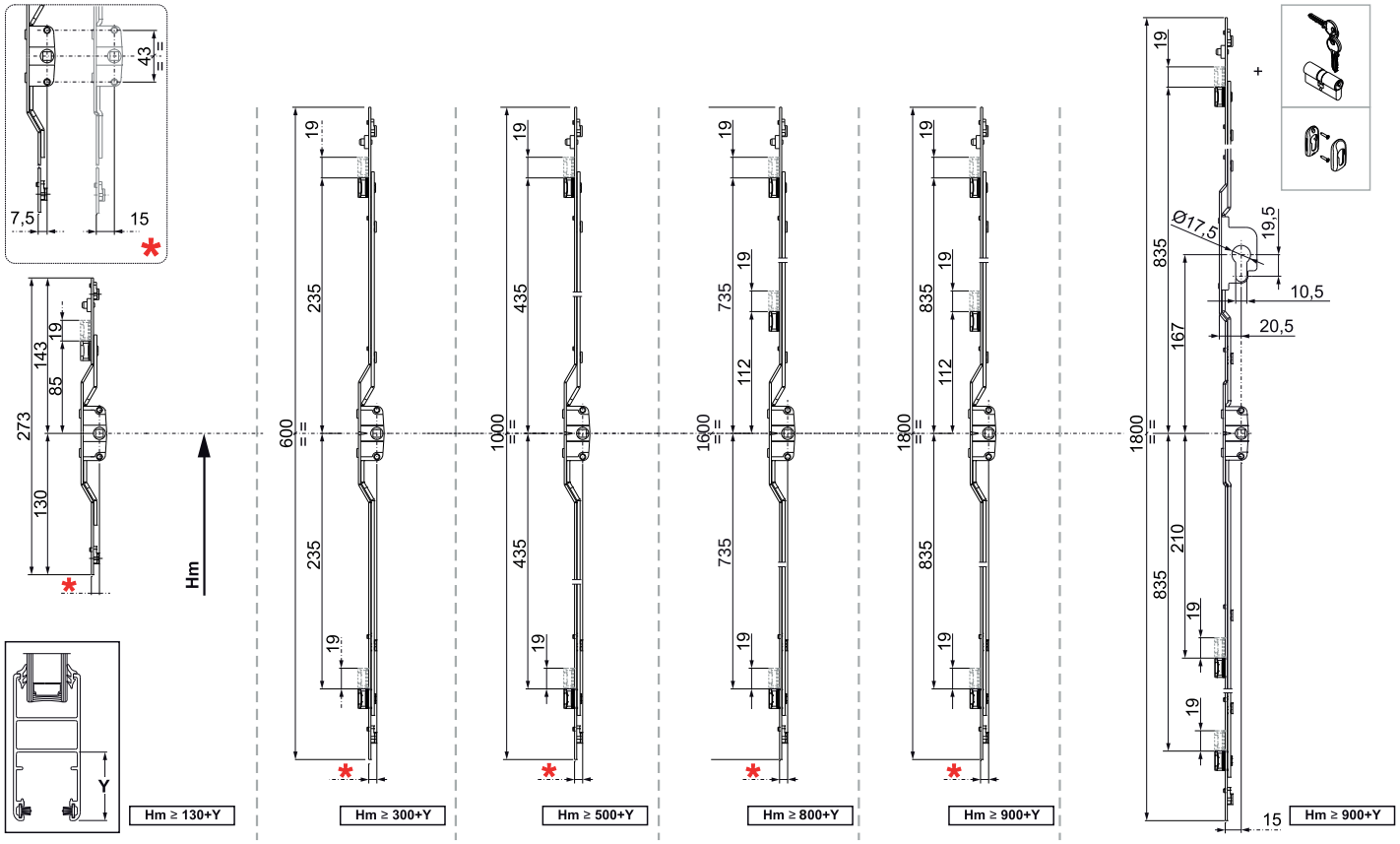
Technical Features

Three versions are available:
- Entry 7.5 mm (1 to 3 locking points)
- Entry 15 mm (1 to 3 locking points)
- Entry 15 mm with lock (3 locking points)

All the rods are operated by traditional window handles or recess handles equipped with a 7 mm square pin.
Depending on the series used, the rods have to be matched with specific coupling kits designed to adapt them to the various shapes of the profile.
The strength of the mushroom nib is greater than 200 kg.

Materials

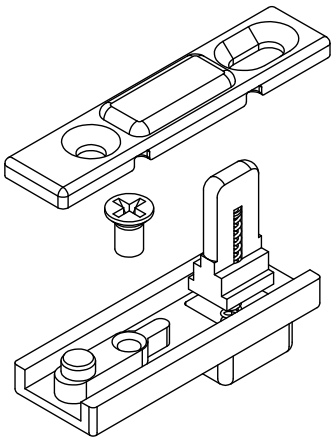
Zinc-plated steel lift-proof pin and rods
Box for rotor and nibs in zamak



Item code	Description	Backset	Lock	Incorrect Movement Safety Device Compat-ibility	Length	Window handle height	Locking points	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02720	CHAMPION PLUS ROD	7,5	NO	NO	270	> 130 + Y	1	X				4
02721	CHAMPION PLUS ROD	7,5	NO	YES	600	> 300 + Y	2	X				4
02722	CHAMPION PLUS ROD	7,5	NO	YES	1000	> 500 + Y	2	X				4
02723	CHAMPION PLUS ROD	7,5	NO	YES	1800	> 900 + Y	3	X				4
02724	CHAMPION PLUS ROD	15	NO	NO	270	> 130 + Y	1	X				4
02725	CHAMPION PLUS ROD	15	NO	YES	600	> 300 + Y	2	X				4
02726	CHAMPION PLUS ROD	15	NO	YES	1000	> 500 + Y	2	X				4
02727	CHAMPION PLUS ROD	15	NO	YES	1800	> 900 + Y	3	X				4
02728	CHAMPION PLUS ROD WITH LOCK	15	YES	YES	1800	> 900 + Y	3	X				4

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INCORRECT MOVEMENT SAFETY DEVICE



Functions

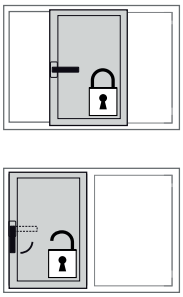
Device that prevents, with the sash open, bringing the hardware into the closed position.

Technical Features

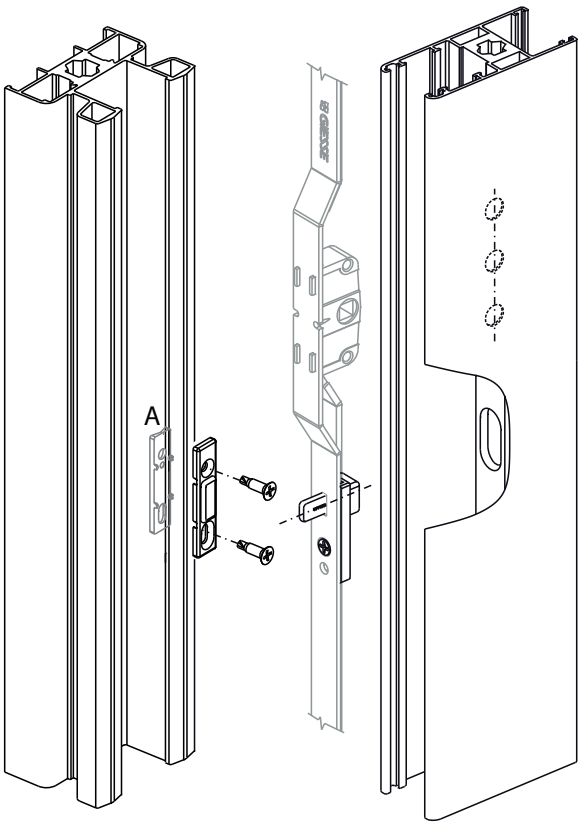
Easily fitted on all Champion Plus Multilocks with 2 or 3 locking points.
Acts as protection for the hardware preventing accidental impact between the nibs and counter-plates.
Prevents the user of the window from inadvertently putting the window handle into the closed position when the sash is open.
Only when the sash is closed and then moved next to the frame will the device unlock and allow turning the pull handle and subsequently closing the sash.

Materials

Incorrect movement safety device body and button made of die-cast zamak
Return spring made of harmonic steel
Stainless steel fixing screw
Frame striker of polyamide



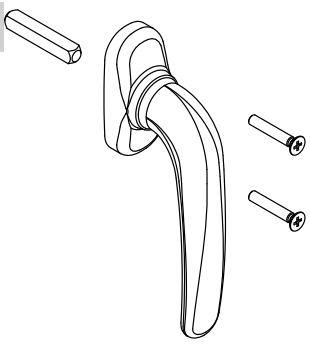
A = contained in the Champion Plus fixing kit



Item code	Description	Can be combined with	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02770	INCORRECT MOVEMENT SAFETY DEVICE	02721÷02723, 02725÷02728	X				8

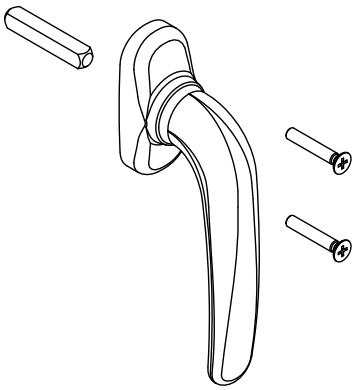
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PRIMA CHAMPION PLUS WINDOW HANDLE

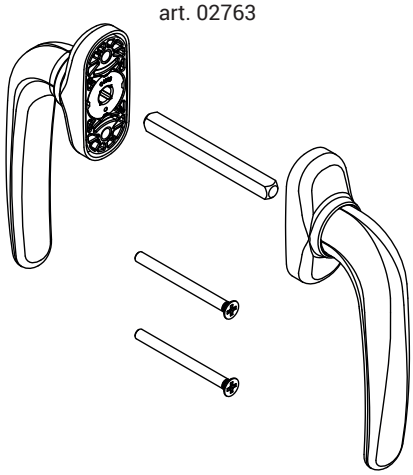


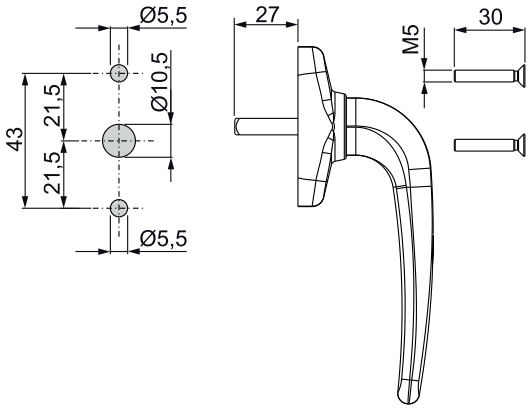
Applied on main sash of a sliding casement.
Two versions are available, single and double (balcony doors), the Prima window handle provides easy operation of the Champion Plus multi-lock.
Equipped with a 7 mm square pin and a positioner for stopping the handle at 0° and 180°.
Handle, plate-cover and rotor in die-cast zamak
Square pin and screws in stainless steel
Polyamide plate

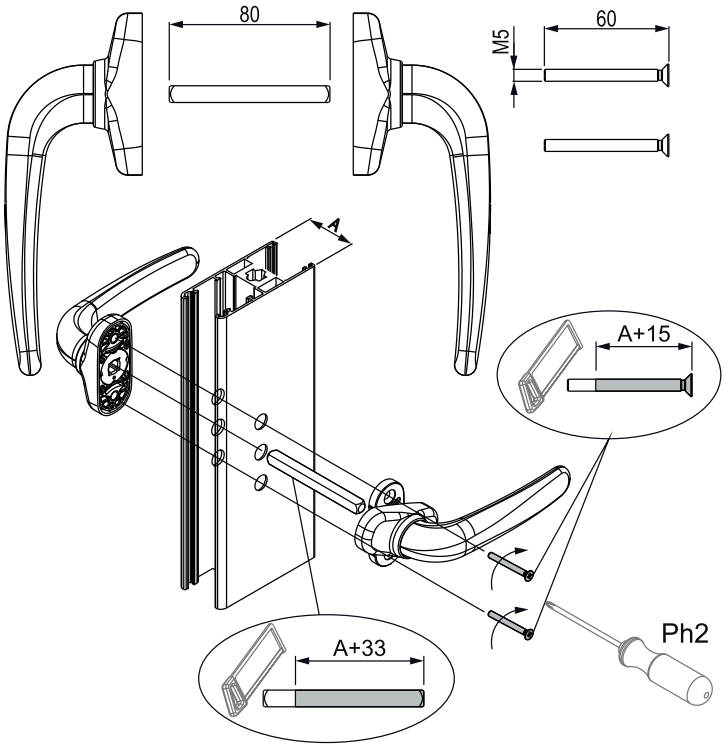
art. 02762

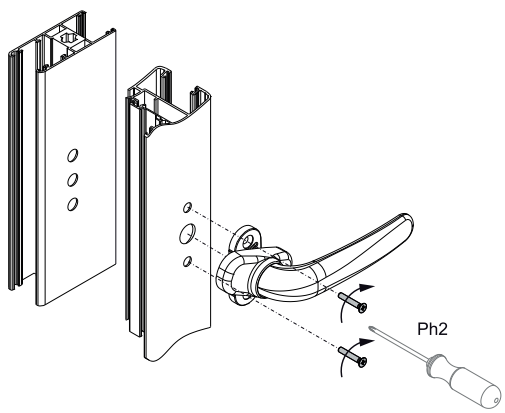


art. 02763





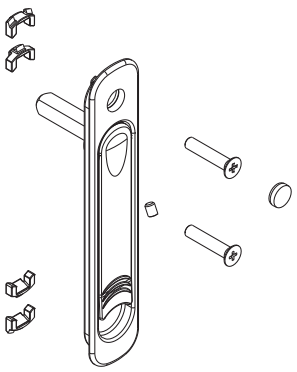




Item code	Description	PROFILE CROSS - SECTION	Applicable	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02762	PRIMA WINDOW HANDLE	C001-C002-C003-C004-C005-C006-C007-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	internal	X		X	X	5
02763	DOUBLE PRIMA WINDOW HANDLE	-	internal/external	X		X	X	5

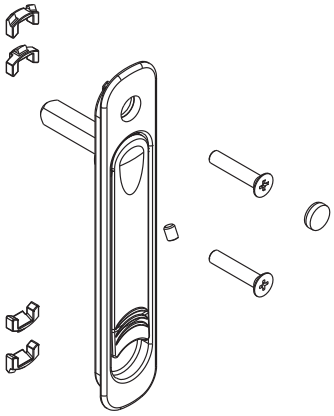
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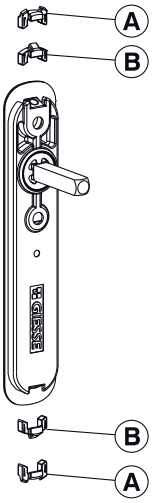
RECESSED WINDOW HANDLE

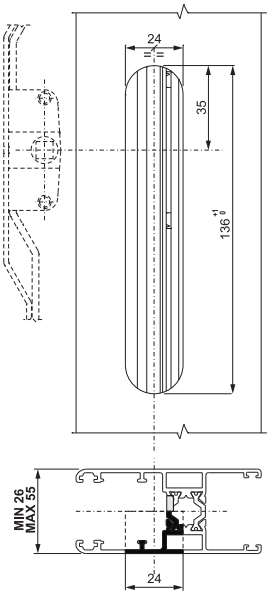


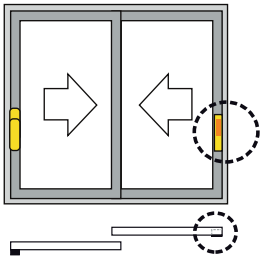
Applied on secondary sash of a sliding casement.
Not being top-hung, it allows overlapping the sashes.
Equipped with a 7 mm square pin and a positioner for stopping the handle at 0° and 180°.
The product has its own system for fixing to the stand-alone profile compared to the M5x25 screws fastening the window handle to the internal mechanism.
Depending on the shape of the sash profile, the manufacturer will decide on how to prepare the recessed window handle with parts A or B so that the product is anchored in an effective and long-lasting manner.
External body, pull handle and fixing components made of die-cast zamak
Square pin and fixing screws in zinc plated steel
Hostaform snap disk
Locking washer made of harmonic steel

art. 02760

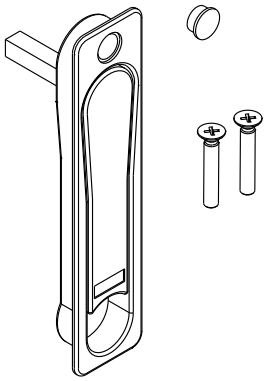


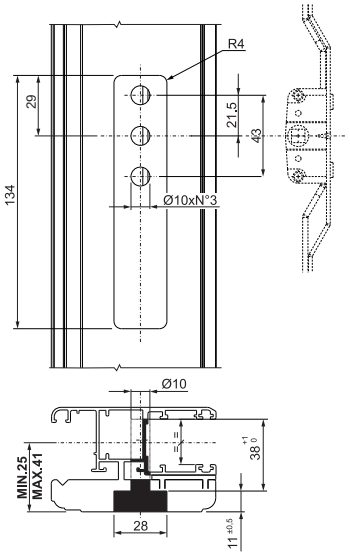


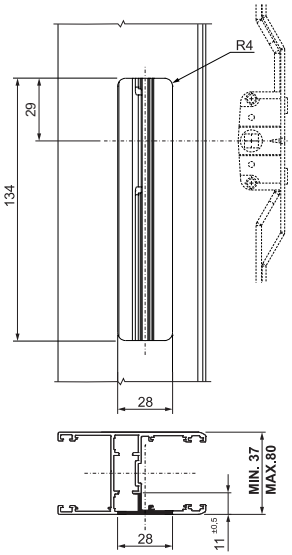


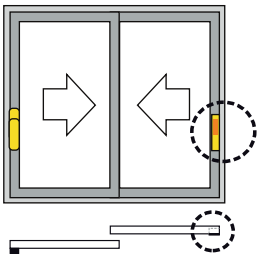


art. 02761





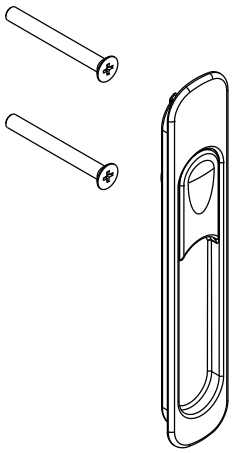




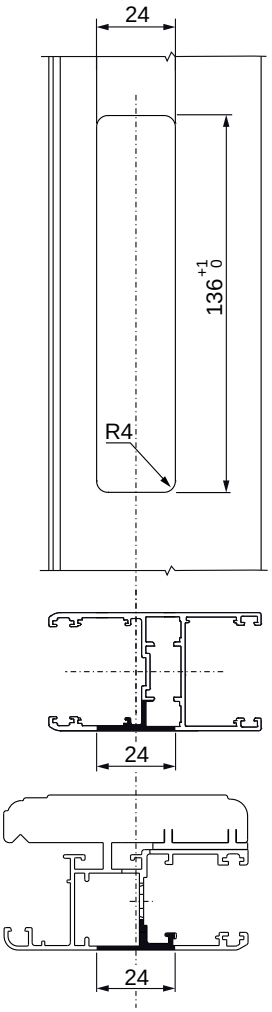
Item code	Description	Applicable	Notes	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02760	RECESSED WINDOW HANDLE	internal		X		X	X	8
02761	RECESSED WINDOW HANDLE	internal	Alu/wood or Alu profiles > 37 mm	X		X	X	8

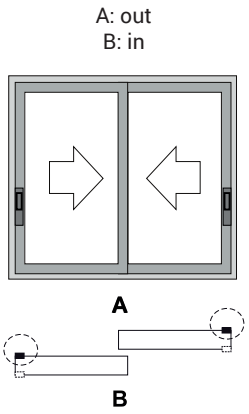
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EXTERNAL RECESS PULL HANDLE



The external recess pull handle has the function of pulling a sliding sash and works in conjunction with a window handle on the inside of the casement.
This article is fitted externally and performs the function of pulling a sliding sash.
This product works in combination with the recess window handle or in combination with the Prima window handle.
The metric screws supplied with the window handle for the inside are screwed into the external recess handle, joining the 2 products with the profile
External body and lever made of die-cast zamak
Zinc plated steel screws

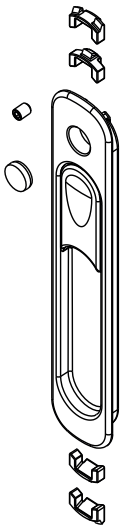




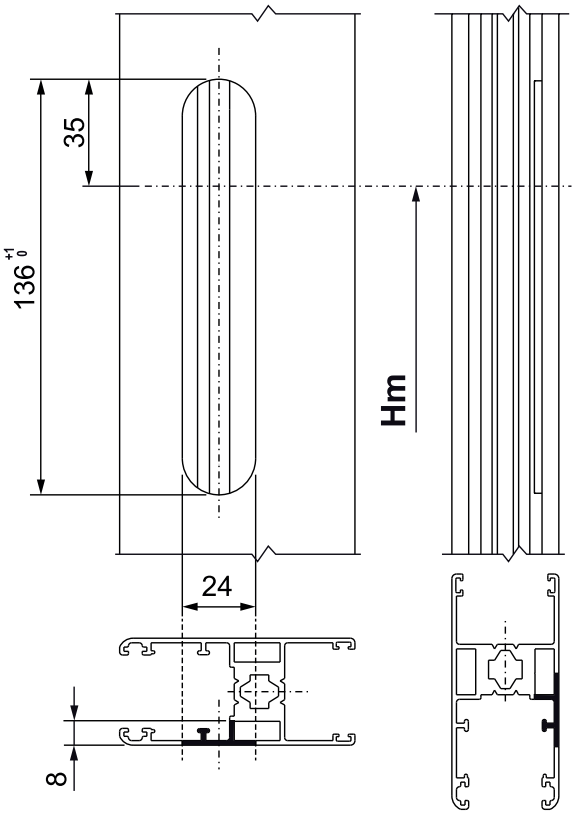
Item code	Description	Applicable	Can be combined with	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02764	EXTERNAL RECESS PULL HANDLE	external	02760-02761-02762	X		X	X	8

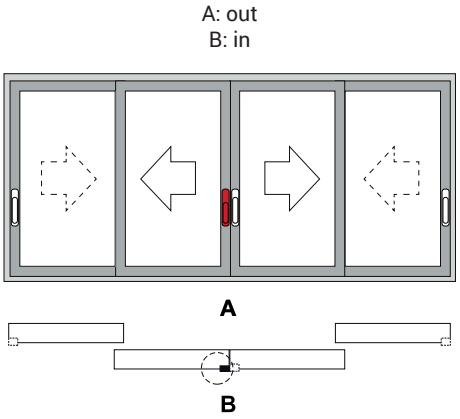
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BLIND INTERNAL RECESS PULL HANDLE



Blind recess handle to be applied on the opposite sash which has the sole function of drawing.
Die-cast zamak coupling teeth and body
Stainless steel locking grub screw

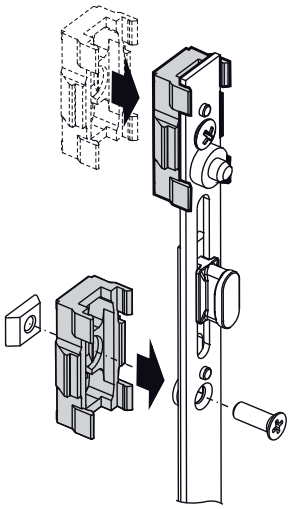




Item code	Description	Applicable	Notes	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02765	BLIND INTERNAL RECESS PULL HANDLE	internal	Opposing sashes	X		X	X	8

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CHAMPION PLUS FIXING KIT



Functions

Kit composed of the components for adapting and fixing the rod to the sash profile and counterplates and their shims to be applied on the frame.

Technical Features

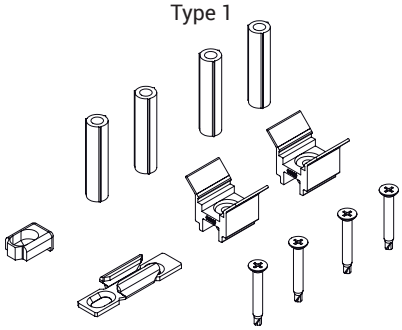
Specific for each application series, the kit is available in 3 versions depending on the rod used (1, 2 or 3 locking points).
The fixing kit usually includes:
- Shims to adapt the rod to the profile
- Screws for fixing the rod to the profile
- Frame counterplate
- Counterplate shims (if needed)
- Anti-lifting component
- Spacers for window handle

The shims snap fit on the hardware and are available in two versions:
- Direct fixing to the profile, the screw engages in the sash profile
- Fixing with expansion adapter (Giesse patent) in which the adapter also serves as a fixing element for the hardware

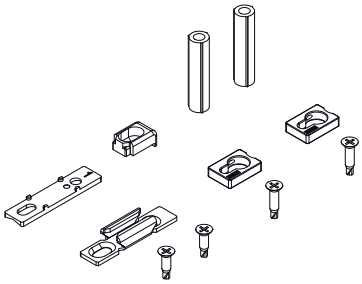
Materials

Shims for adapting the rod to the profile, counterplate shims and window handle spacers of grey polyamide
Screws for fixing rod to profile in stainless steel
Frame counterplate made of zinc plated steel
Anti-lift component and retractor (where applicable) made of die-cast zamak

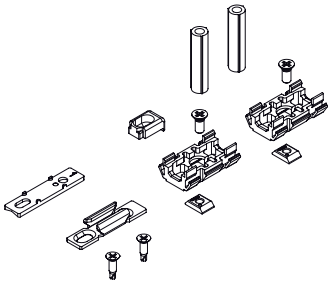
Type 1



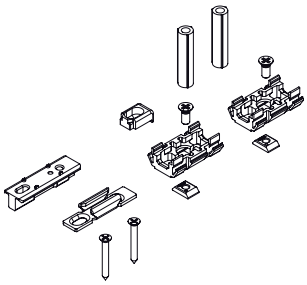
Type 2



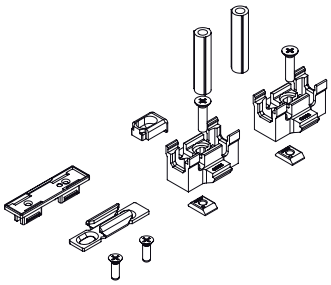
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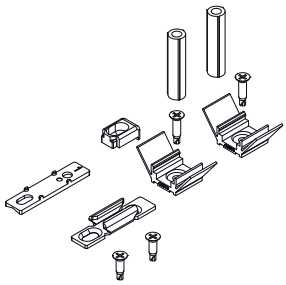
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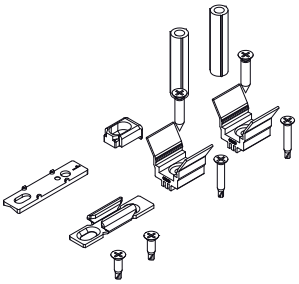
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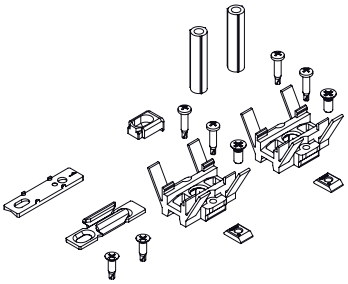
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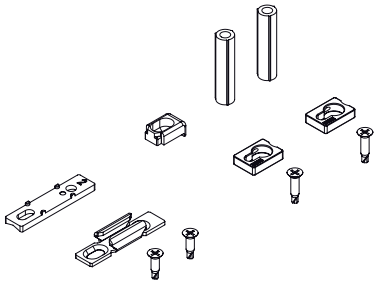
Type 7



Type 8

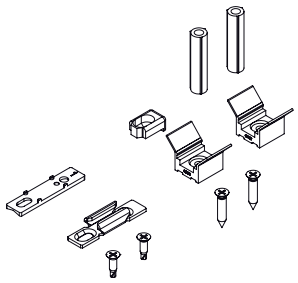


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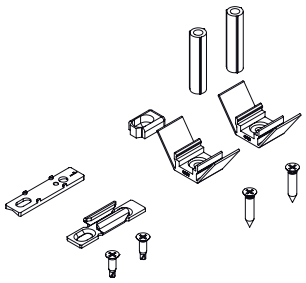


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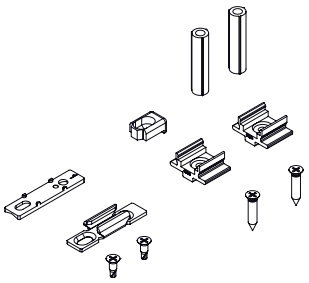
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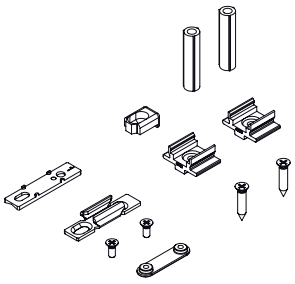
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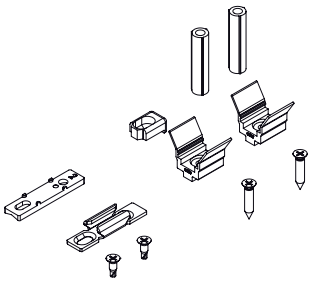
Type 12



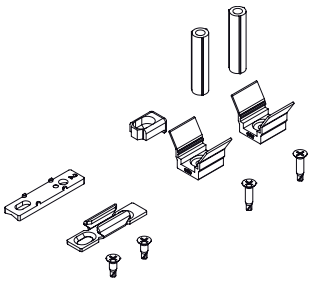
Type 13



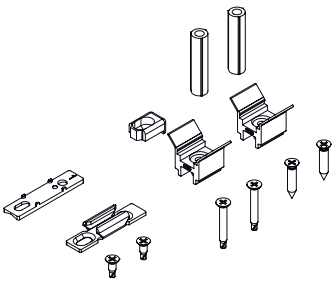
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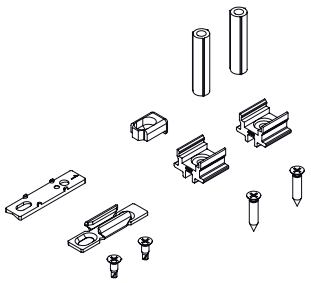
Type 15



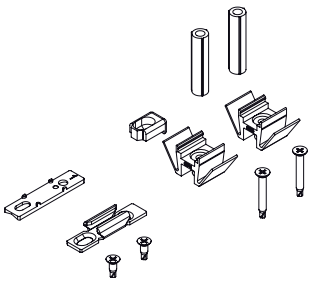
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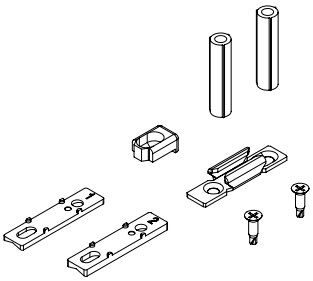
Type 17



Type 18



Type 19



Direct fixing (A1)



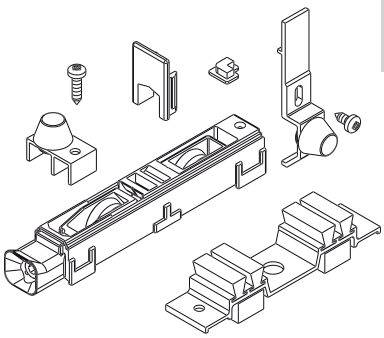
Expansion fixing (A2)



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Item code	Description	Rod for matching	Type	Rod fixing to sash	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
06231	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	1	Direct (A1)	X				8
06232	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	1	Direct (A1)	X				8
06233	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	1	Direct (A1)	X				8
06301	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	2	Direct (A1)	X				8
06302	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	2	Direct (A1)	X				8
06303	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	2	Direct (A1)	X				8
06311	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	3	Expansion fixing (A2)	X				8
06312	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	3	Expansion fixing (A2)	X				8
06313	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	3	Expansion fixing (A2)	X				8
06321	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	4	Expansion fixing (A2)	X				8
06322	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	4	Expansion fixing (A2)	X				8
06323	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	4	Expansion fixing (A2)	X				8
06331	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	5	Expansion fixing (A2)	X				8
06332	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	5	Expansion fixing (A2)	X				8
06333	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	5	Expansion fixing (A2)	X				8
06341	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	6	Direct (A1)	X				8
06342	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	6	Direct (A1)	X				8
06343	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	6	Direct (A1)	X				8
06351	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	7	Direct (A1)	X				8
06352	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	7	Direct (A1)	X				8
06353	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	7	Direct (A1)	X				8
06361	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	8	Expansion fixing (A2)	X				8
06362	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	8	Expansion fixing (A2)	X				8
06363	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	8	Expansion fixing (A2)	X				8
06371	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	9	Direct (A1)	X				8
06372	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	9	Direct (A1)	X				8
06373	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	9	Direct (A1)	X				8
06381	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	10	Direct (A1)	X				8
06382	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	10	Direct (A1)	X				8
06383	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	10	Direct (A1)	X				8
06391	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	11	Direct (A1)	X				8
06392	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	11	Direct (A1)	X				8
06393	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	11	Direct (A1)	X				8
06421	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	12	Direct (A1)	X				8
06422	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	12	Direct (A1)	X				8
06423	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	12	Direct (A1)	X				8
06431	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	13	Direct (A1)	X				8
06432	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	13	Direct (A1)	X				8
06433	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	13	Direct (A1)	X				8
06441	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	14	Direct (A1)	X				8
06442	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	14	Direct (A1)	X				8
06443	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	14	Direct (A1)	X				8
06451	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	15	Direct (A1)	X				8
06452	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	15	Direct (A1)	X				8
06453	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	15	Direct (A1)	X				8

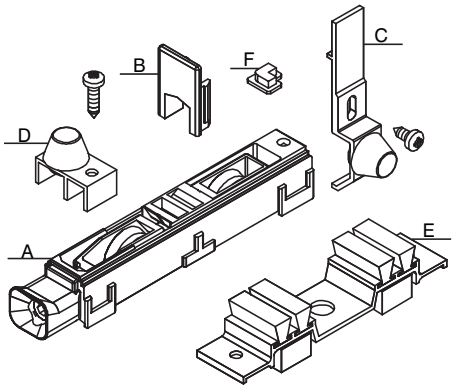
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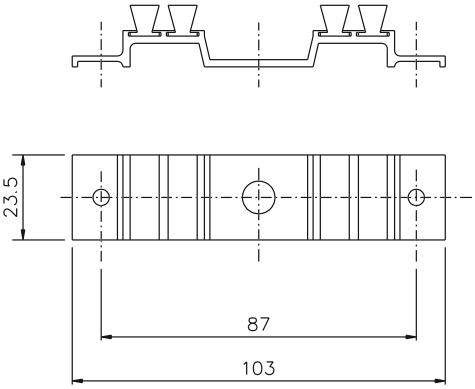


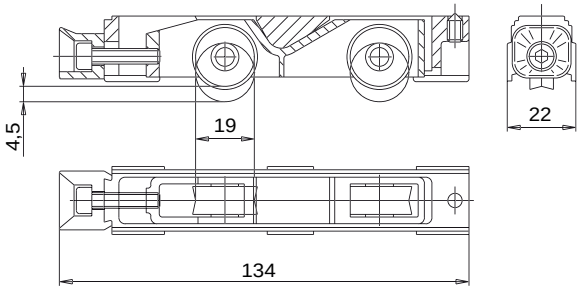
2-SASH WINDOW ASSEMBLY KIT

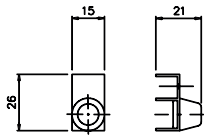
Set of necessary parts to complete the accessorizing of a window or sliding door with 2 sashes made of aluminium, grouped together in a single package.

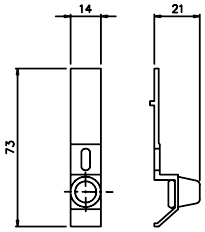
Parts
A - 4 Carrera 2 pulleys
B - 4 machining caps
C - 2 Damping burglar-proof plugs to be mounted at the top complete with 2 self-threading screws 3.9x9.5
D - 2 Damping plugs to be mounted at the bottom complete with 2 self-tapping screws 3.9x16
E - 2 Dust-proof covers
F - 8 Sash guide corners





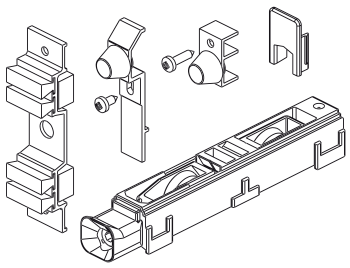






Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03106	2-SASH WINDOW ASSEMBLY KIT		X				5

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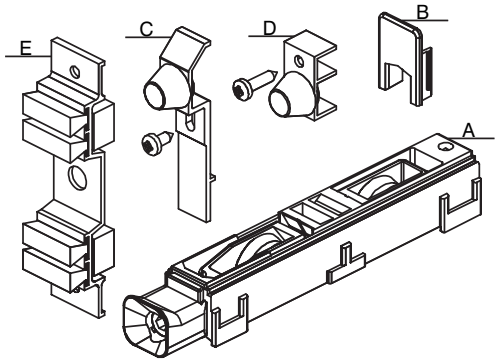


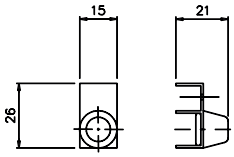
2-SASH WINDOW ASSEMBLY KIT

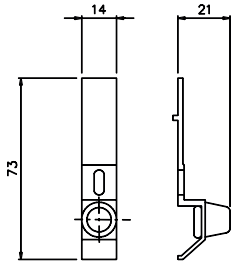
Set of necessary accessories to complete the assembly of a window or door with two sliding leafs made of aluminium, grouped together in a single package.

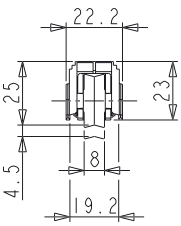
Parts

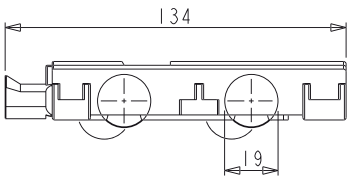
A - 4 Carrera 2 adjustable pulleys
B - 4 central upright caps made of polyamide
C - 2 Top damping plugs in aluminium and polyamide + 2 self-tapping screws 3.9 x 9.5 in zinc plated steel
D - 2 Bottom damping plugs in aluminium and polyamide + 2 self-tapping screws 3.9 x 16 in zinc plated steel
E - 2 Dust-proof covers in extruded aluminium with polyamide brushes and sealing sponge

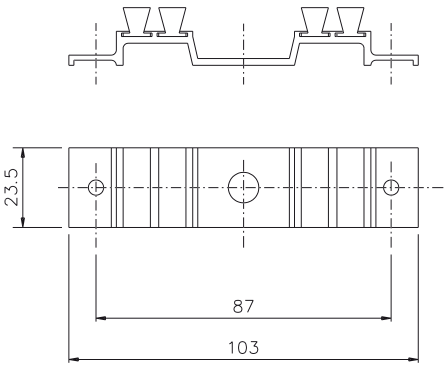






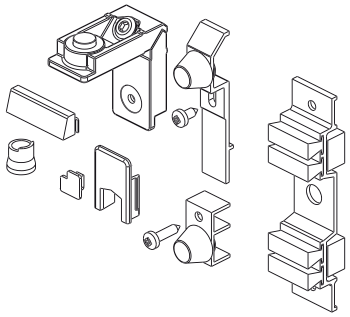






Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03108	2-SASH WINDOW ASSEMBLY KIT		X				5

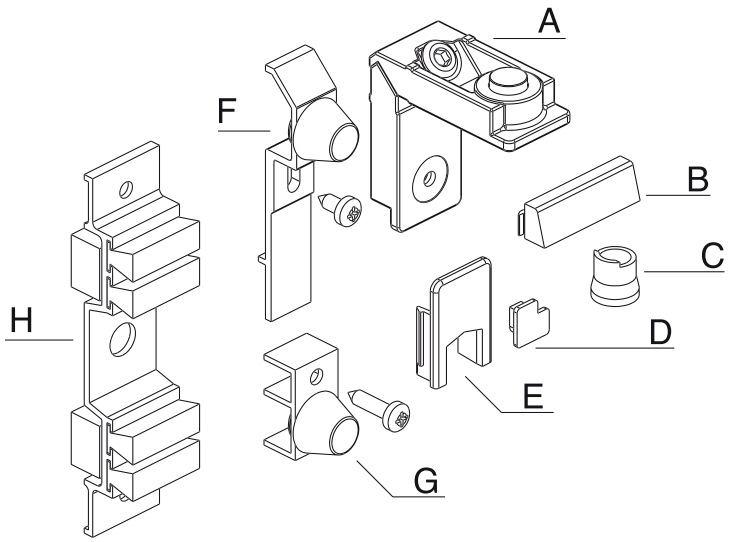
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2-SASH WINDOW ASSEMBLY KIT

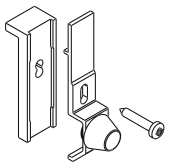
Set of necessary accessories to complete the assembly of a window or door with two sliding leafs made of aluminium (not including pulleys), grouped together in a single solution.

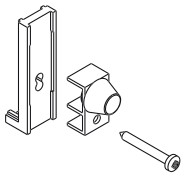
Parts
A - 12 die-cast aluminium corner joints
B - 2 polyamide drainage caps
C - 2 Water drainage bushes in polyamide
D - 8 Sash guide plugs made of polyamide
D - 4 Machining covers made of polyamide
F - 2 Top damping plugs made of aluminium and polyamide with zinc plated steel self-tapping screws 3.9x9.5
F - 2 Bottom damping plugs made of aluminium and polyamide with zinc plated steel self-tapping screws 3.9x16
H - 2 Dust-proof covers in extruded aluminium with polyamide brushes and sealing rubber with self-tapping screws in steel



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03114	2-SASH WINDOW ASSEMBLY KIT		X				10

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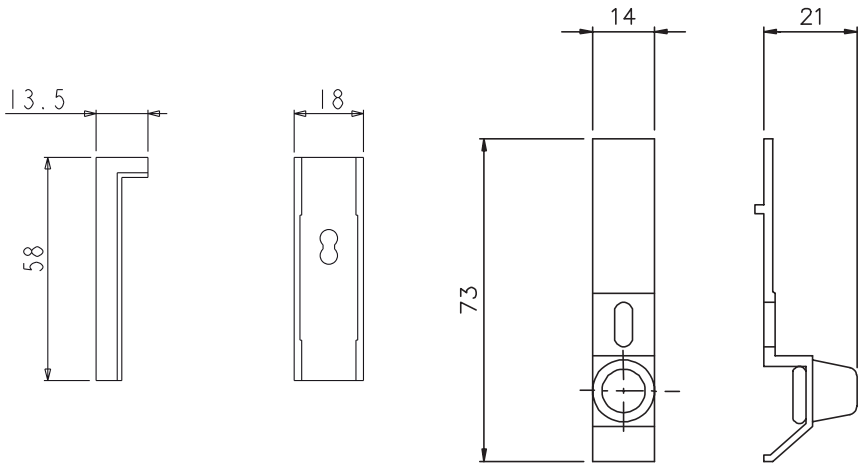
BURGLAR-PROOF AND DAMPER PLUGS

Functions
Burglar-proof damper plugs, specifically designed for aluminium sliding doors and windows.

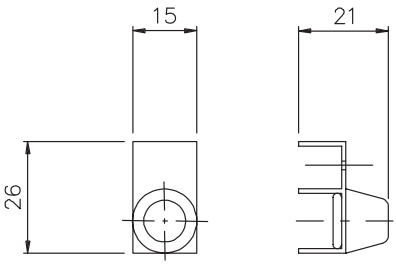
Technical features
The longer lug fits to the top part.
The protrusion must be located close to the top cross beam (about 2–3 mm away from it) so as to act as a burglar-proof device (to prevent the sash being removed).

Materials
Shims in black polyamide
Damper body in anodised extruded aluminium
Rubber damper plugs
Zinc plated steel screws

Upper cap

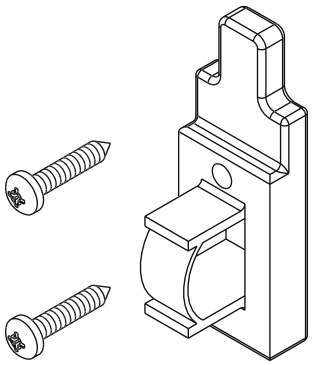


Lower cap



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02290	BURGLAR-PROOF AND DAMPER PLUGS		X				100

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DAMPER PLUG

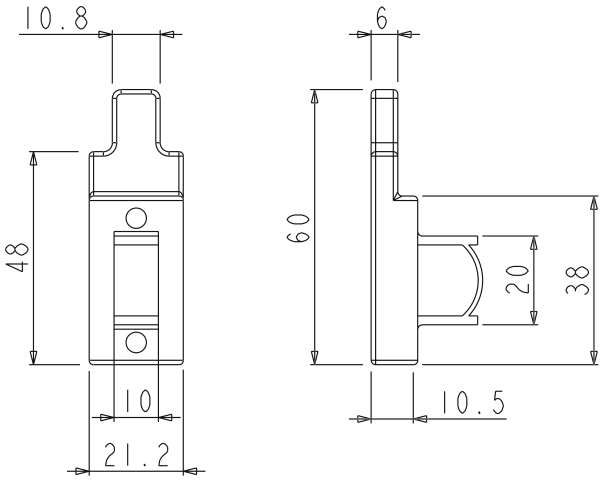
Window/door damper plug which dampens the impact of the sash when closing.

Technical features

The damper plug fits to the sash – locking side – both at the top and bottom.
The top plug also prevents the sash being forced upwards (anti-lift function).

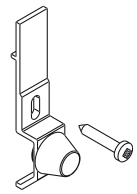
Materials

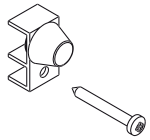
Black polyamide
Zinc plated steel screws



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03145	DAMPER PLUG		X				100

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BURGLAR-PROOF AND DAMPER PLUGS

Burglar-proof damper plugs, specifically designed for aluminium sliding doors and windows.

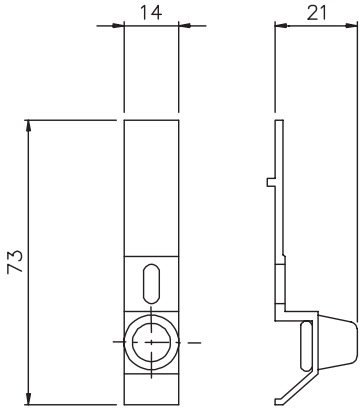
Technical features

The top aluminium part must be placed close to the upper cross beam to prevent the sash from being able to be removed (burglar-proof)

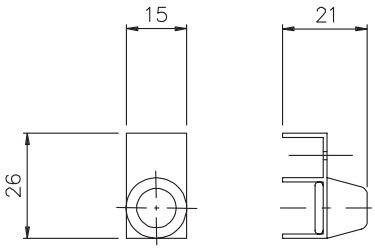
Materials

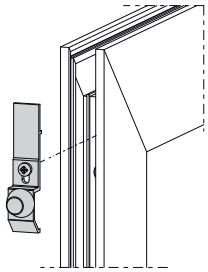
Stainless steel screws
Damper body in anodised extruded aluminium
Rubber damper plugs.

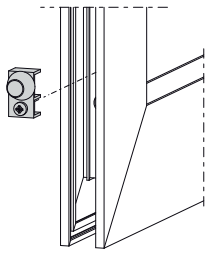
Upper cap

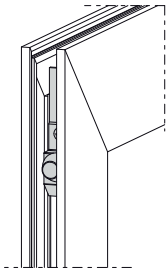


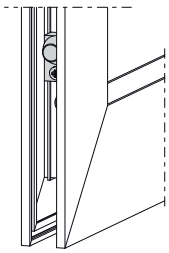
Lower cap

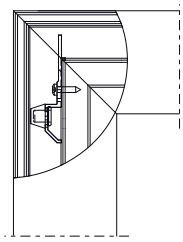


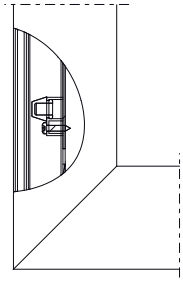






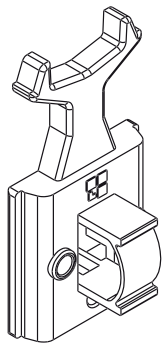






Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03199X	BURGLAR-PROOF AND DAMPER PLUGS		X				200

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BURGLAR-PROOF AND DAMPER PLUGS

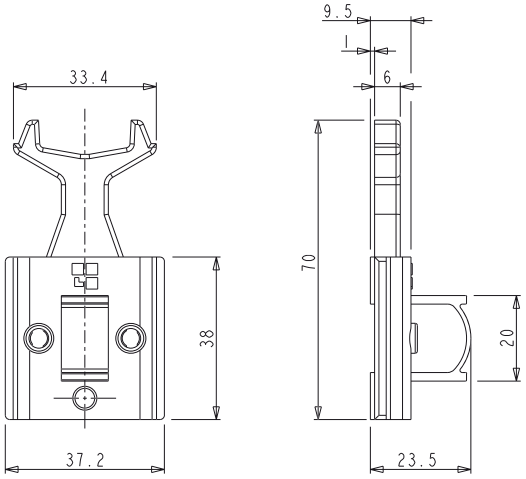
Plug with damping and burglar-proof functions.

Technical features

The plug is inserted on both the upper and lower parts of the sash upright in the channel and fixed by a contrast grubscrew.

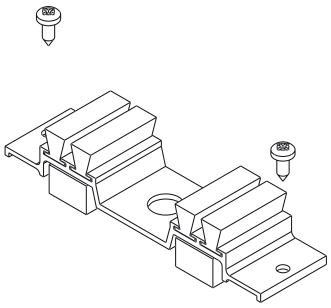
Materials

Black polyamide cap
Stainless steel M5x10 grub screw



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03200	BURGLAR-PROOF AND DAMPER PLUGS		X				100

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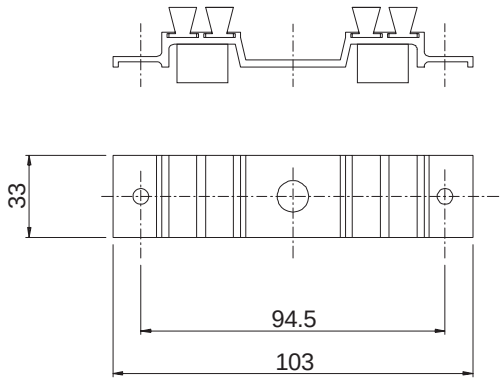


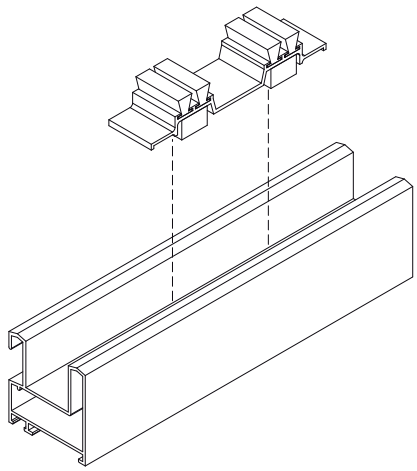
DUST-PROOF PLUG

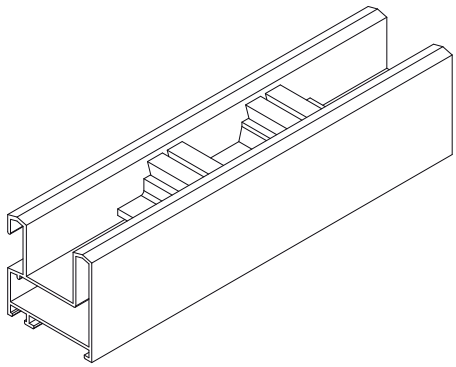
Component designed to prevent dust and water passing into the interior of the sliding door/window.

Technical features
The dust cap fits to the upper and lower cross beams of the fixed frame using self-tapping screws.
The sponge fits snugly against the sash to prevent dust and water entering.

Materials
Black anodised extruded aluminium body
Zinc plated steel screws
Brushes and sponge in expanded EPDM

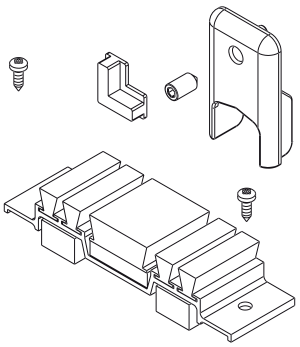






Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01220	DUST-PROOF PLUG		X				50

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MACHINING COVER

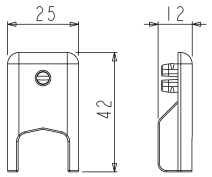
Package includes 4 central upright caps, 8 sash guide plugs and 2 dust-proof covers for a window or sliding door made of aluminium.

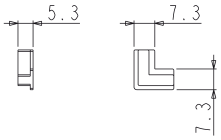
Technical features

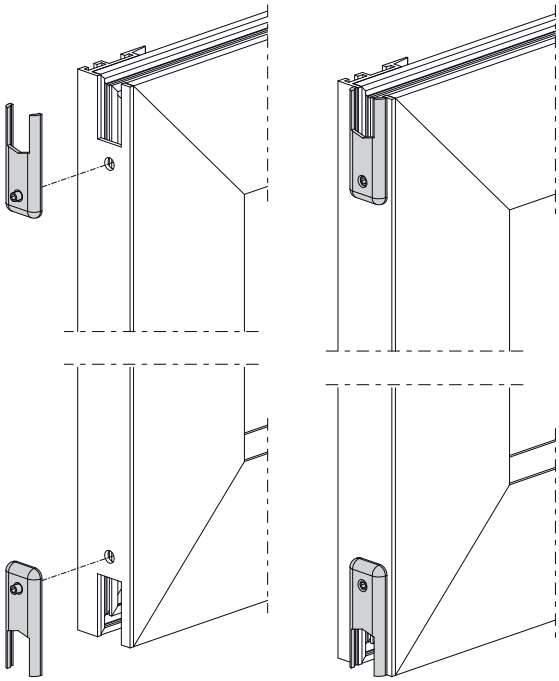
The machining caps improve the appearance of the sash by covering the machining on the central upright.
The sash guiding plugs stabilize the sash and prevent the pulley from being able to come off the rail.
The dust cap fits to the upper and lower cross beams of the fixed frame using self-tapping screws.
The sponge fits snugly against the sash to prevent dust and water entering.

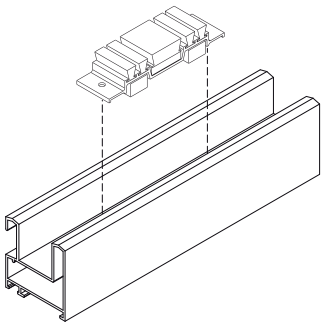
Materials

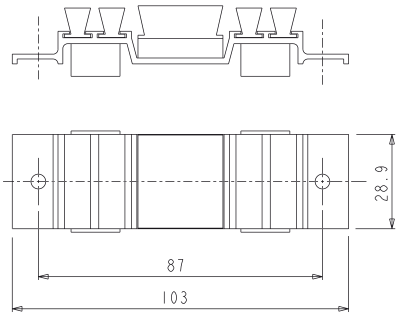
Black anodised extruded aluminium body
Screws and grub screws in zinc plated steel
Brushes and sponge in expanded EPDM
Cover for machining and sash guide in black polyamide





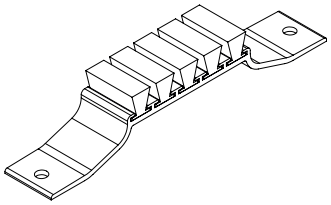






Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01221	MACHINING COVER		X				100

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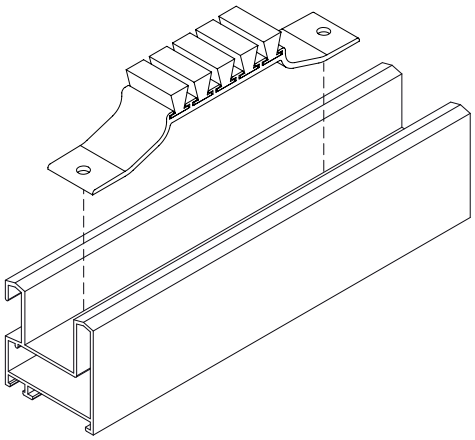


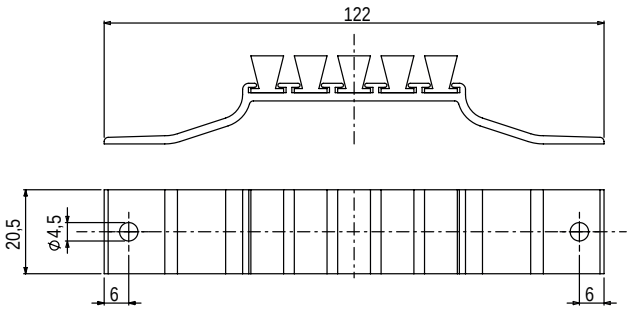
DUST-PROOF PLUG

Component designed to prevent dust and water passing into the interior of the sliding door/window.

Technical features
The dust cap fits to the upper and lower cross beams of the fixed frame using self-tapping screws.
The sponge fits snugly against the sash to prevent dust and water entering.

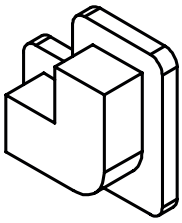
Materials
Black anodised extruded aluminium body
Zinc plated steel screws
Brushes and sponge in expanded EPDM





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01274	DUST-PROOF PLUG		X				100

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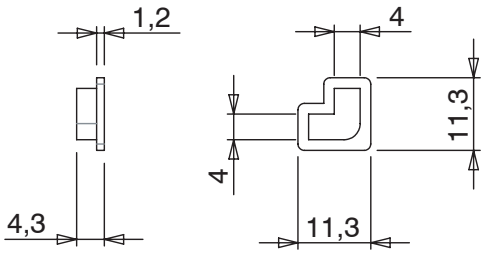


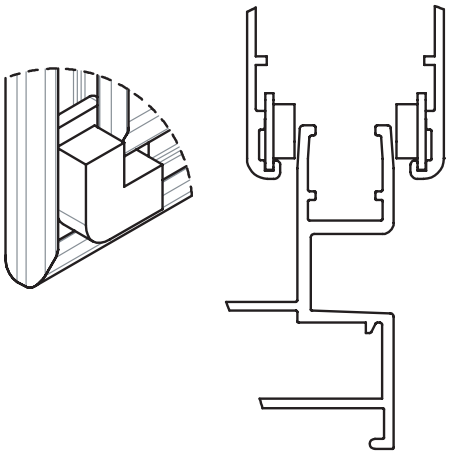
SASH-CENTRING PLUG

Component that enables keeping the sliding sash guided while sliding.

Technical features
The sash guiding plug stabilizes the sash and prevents the pulley from being able to come off the rail.

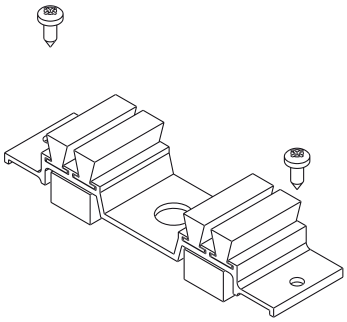
Materials
Black polyamide





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01275	SASH-CENTRING PLUG		X				200

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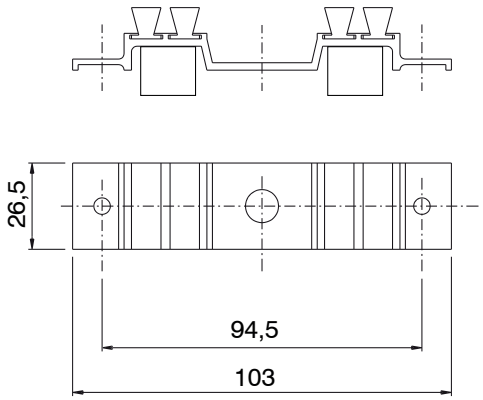


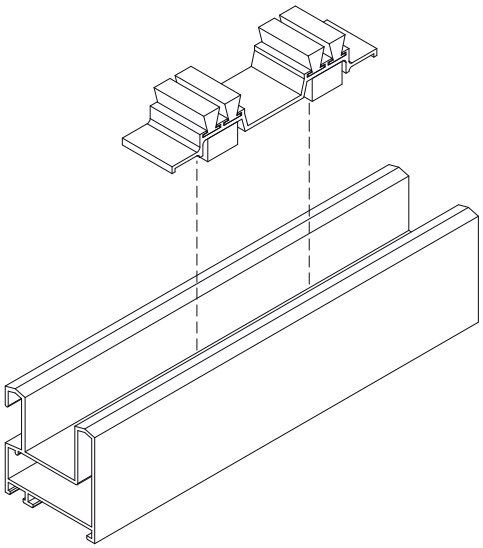
DUST-PROOF PLUG

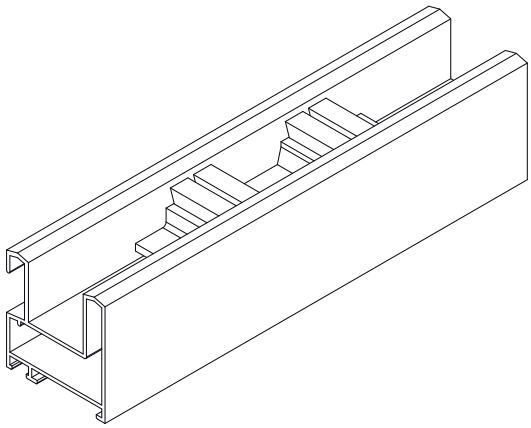
Component designed to prevent dust and water passing into the interior of the sliding door/window.

Technical features
The dust cap fits to the upper and lower cross beams of the fixed frame using self-tapping screws.
The sponge fits snugly against the sash to prevent dust and water entering.

Materials
Black anodised extruded aluminium body
Zinc plated steel screws
Brushes and sponge in expanded EPDM

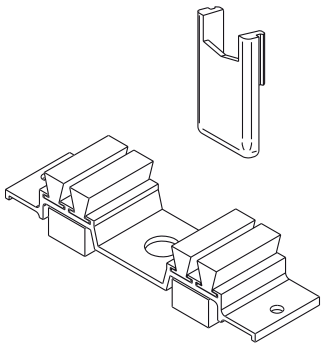






Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02304	DUST-PROOF PLUG		X				100

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DUST-PROOF GASKET AND UPRIGHTS PLUGS KIT

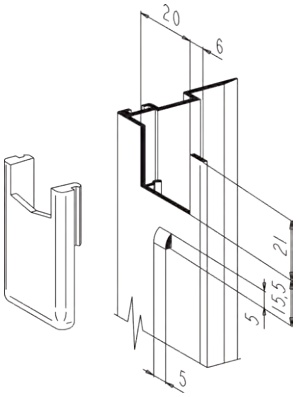
Package includes 4 central upright caps and 2 dust-proof covers for a window or sliding door made of aluminium.

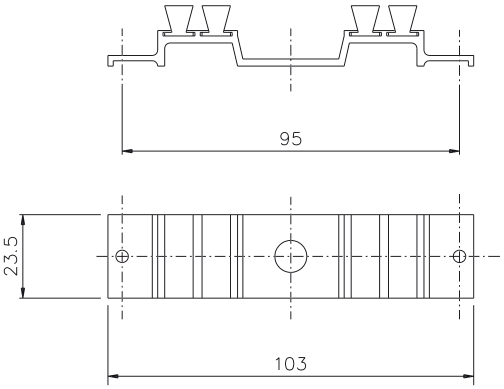
Technical features

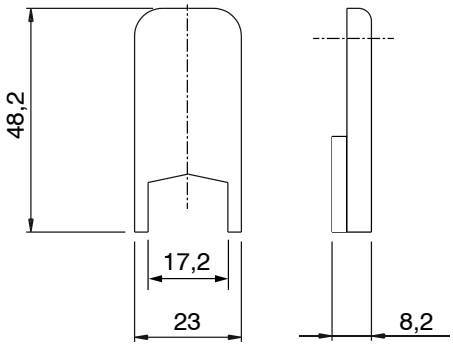
The machining caps cover the machining on the central upright.
The dust cap fits to the upper and lower cross beams of the fixed frame using self-tapping screws.
The sponge fits snugly against the sash to prevent dust and water entering.

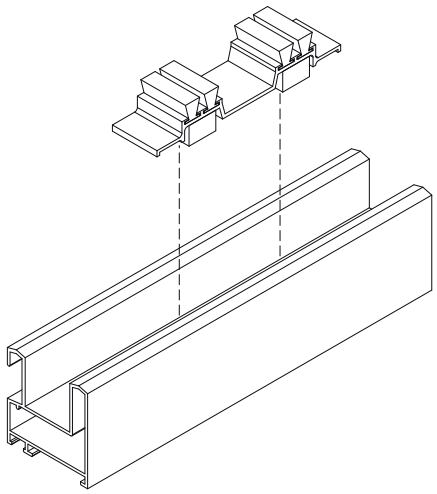
Materials

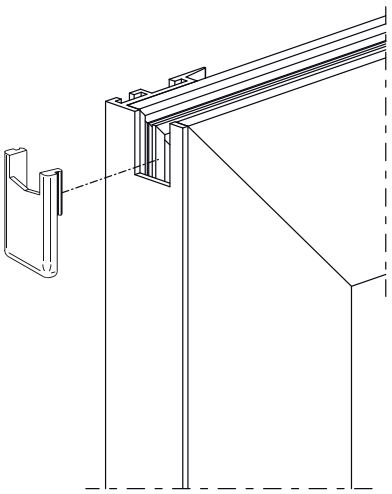
Black anodised extruded aluminium body
Brushes and sponge in expanded EPDM
Machining cover in black polyamide





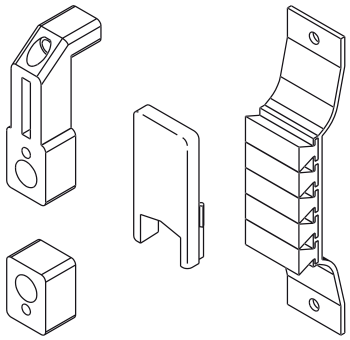






Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03124	DUST-PROOF GASKET and UPRIGHT PLUGS KIT		X				100

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DUST-PROOF GASKET AND UPRIGHT PLUGS KIT

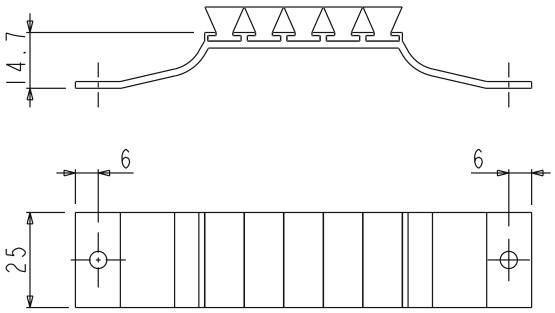
Package includes 4 central upright caps, 2 pairs of damping covers and 2 dust-proof covers for a window or sliding door made of aluminium.

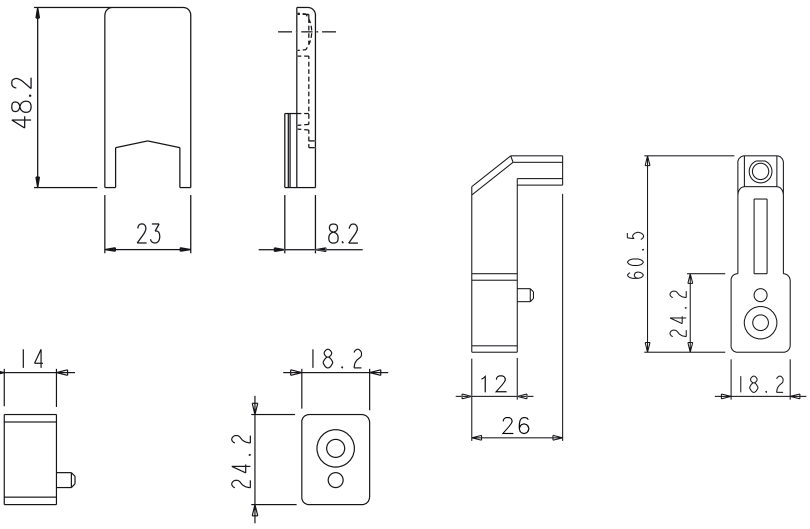
Technical features

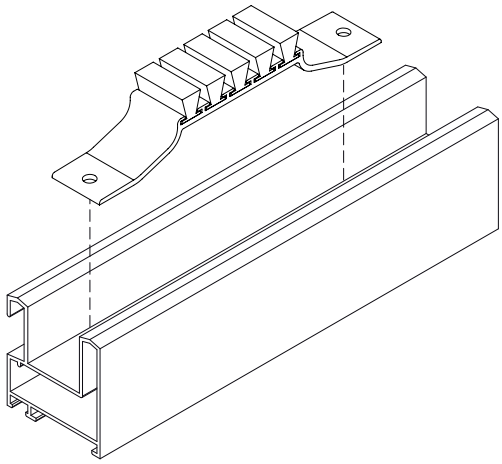
The machining caps improve the appearance of the sash by covering the machining on the central upright.
The damper plugs, in addition to having a burglar-proof function, prevent the sash from slamming against the frame when closing.
The dust cap fits to the upper and lower cross beams of the fixed frame using self-tapping screws.
The sponge fits snugly against the sash to prevent dust and water entering.

Materials

Black anodised extruded aluminium body
Zinc plated steel screws
Brushes and sponge in expanded EPDM
Machining cover in black polyamide
Rubber damper plug

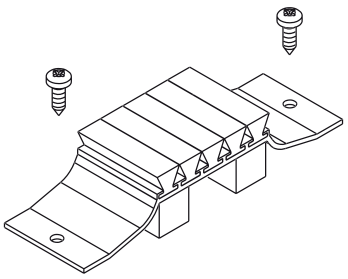






Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03140	DUST-PROOF GASKET AND UP-RIGHT PLUGS KIT		X				10

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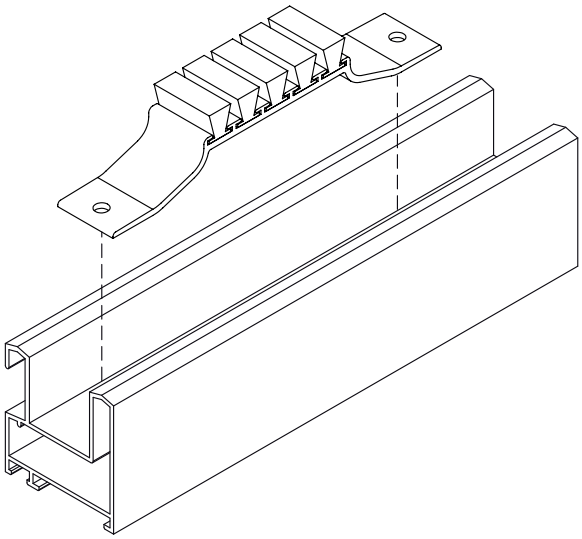


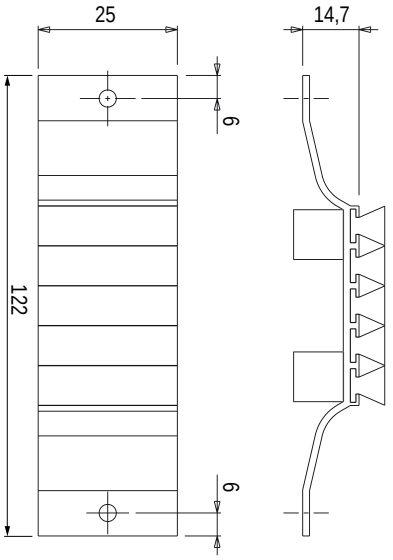
DUST-PROOF PLUGS

Designed to prevent dust and water passing into the interior of the sliding door/window.

Technical features
The dust cap fits to the upper and lower cross beams of the fixed frame using self-tapping screws.
The sponge fits snugly against the sash to prevent dust and water entering.

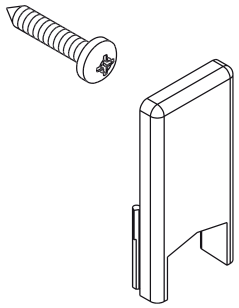
Materials
Black anodised extruded aluminium body
Zinc plated steel screws
Brushes and sponge in expanded EPDM





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03143	DUST-PROOF PLUGS		X				50

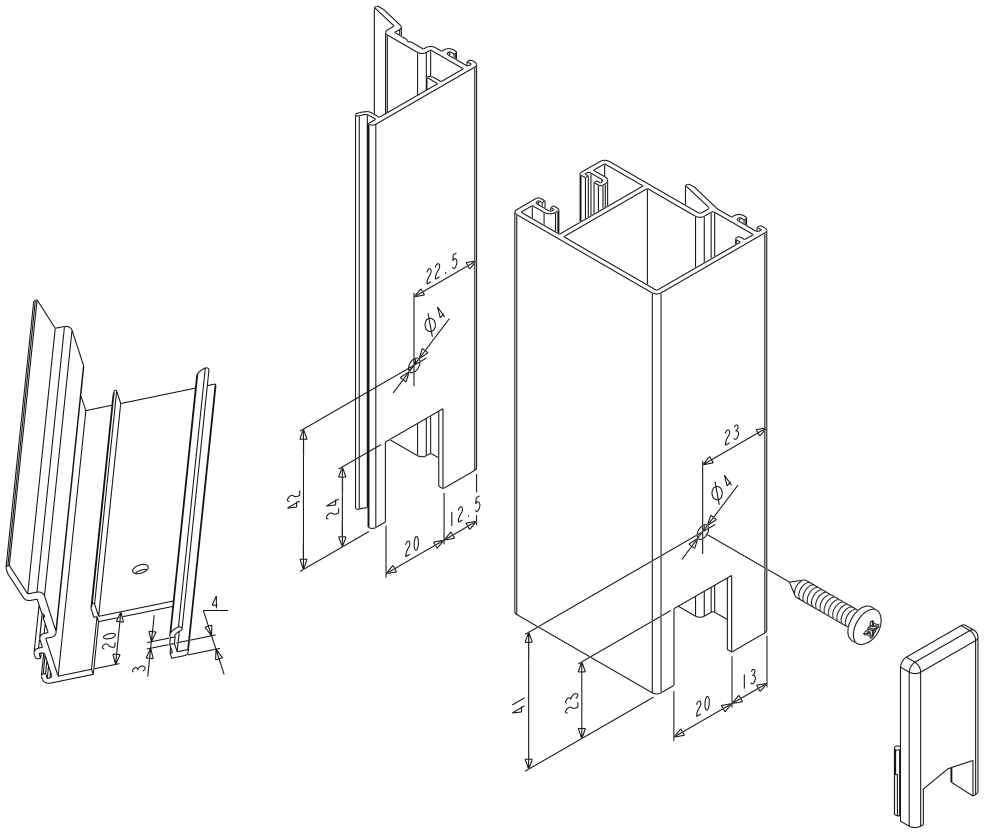
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MACHINING COVERS

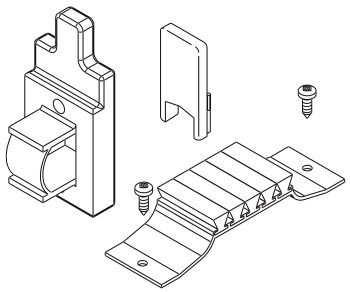
Cap covering the machining on the central upright of sliding sashes.
Fixing is by means of a self-tapping screw.

Materials
Black polyamide cap
Zinc plated steel screw



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03144	MACHINING COVERS		X				50

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DUST-PROOF GASKET AND UPRIGHT PLUGS KIT

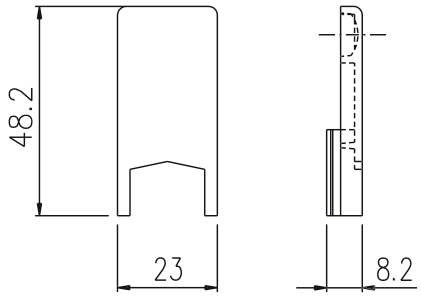
Package includes 4 central upright caps, 2 pairs of damping covers and 2 dust-proof covers for a window or sliding door made of aluminium.

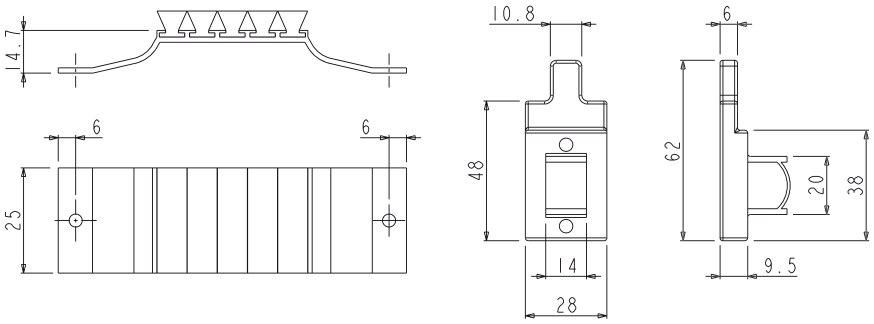
Technical features

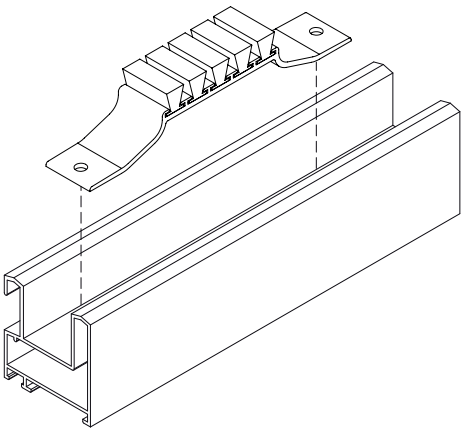
The machining caps improve the appearance of the sash by covering the machining on the central upright.
The damper plugs, in addition to having a burglar-proof function, prevent the sash from slamming against the frame when closing.
The dust cap fits to the upper and lower cross beams of the fixed frame using self-tapping screws.
The sponge fits snugly against the sash to prevent dust and water entering.

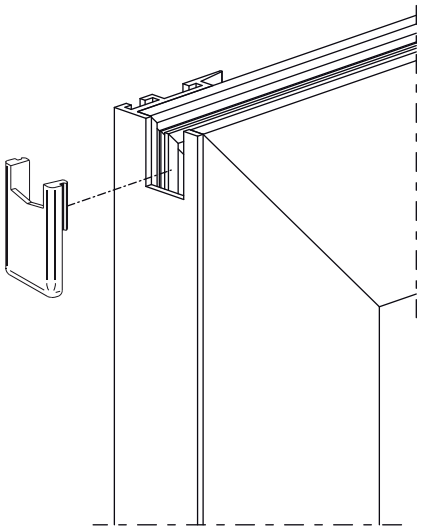
Materials

Black anodised extruded aluminium body
Zinc plated steel screws
Brushes and sponge in expanded EPDM
Machining and damper plug in black polyamide



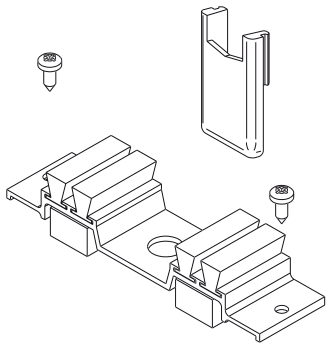






Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03150	DUST-PROOF GASKET AND UPRIGHT PLUGS KIT		X				10

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DUST-PROOF GASKET AND UPRIGHTS PLUGS KIT

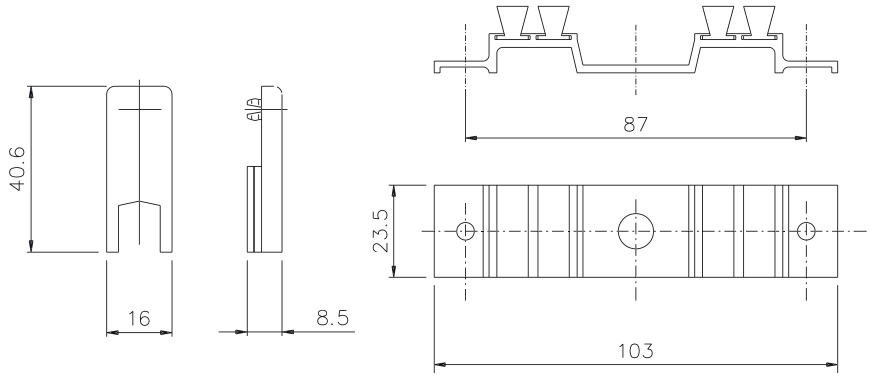
Package includes 4 central upright caps and 2 dust-proof covers for a window or sliding door made of aluminium.

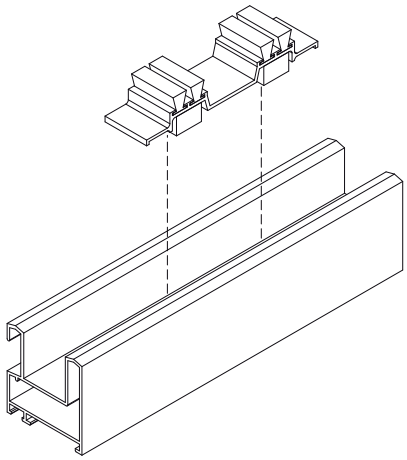
Technical features

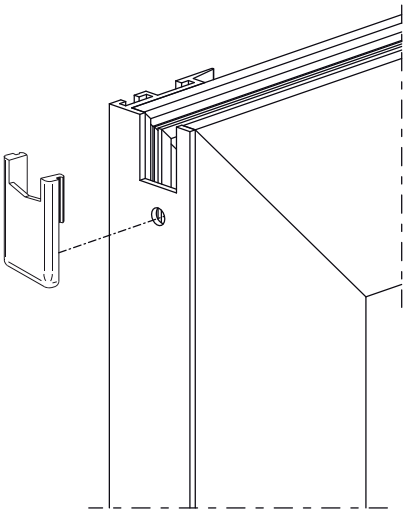
The machining caps improve the appearance of the sash by covering the machining on the central upright.
The dust cap fits to the upper and lower cross beams of the fixed frame using self-tapping screws.
The sponge fits snugly against the sash to prevent dust and water entering.

Materials

Black anodised extruded aluminium body
Zinc plated steel screws
Brushes and sponge in expanded EPDM
Machining cover in black polyamide.

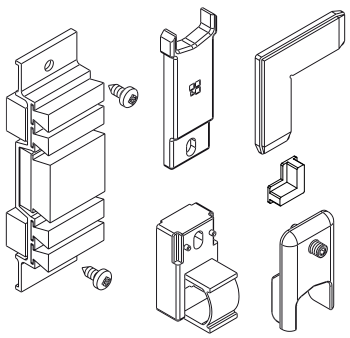






Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03166	DUST-PROOF GASKET and UPRIGHT PLUGS KIT		X				100

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2-SASH SLIDER PLUGS KIT

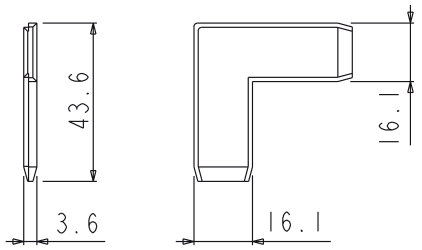
Package includes 4 central upright caps, 2 pairs of damping covers, 16 alignment corner joints and 2 dust-proof covers for a window or sliding door made of aluminium.

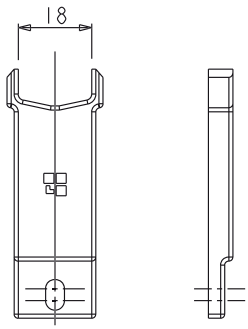
Technical features

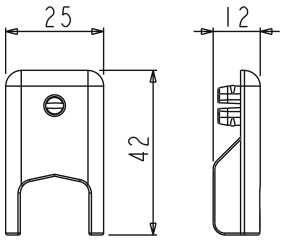
The machining caps improve the appearance of the sash by covering the machining on the central upright.
The damper plugs, in addition to having a burglar-proof function, prevent the sash from slamming against the frame when closing.
The dust cap fits to the upper and lower cross beams of the fixed frame using self-tapping screws.
The sponge fits snugly against the sash to prevent dust and water entering.
The alignment brackets allow strengthening the junction of the fins.

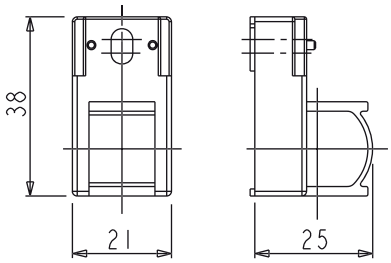
Materials

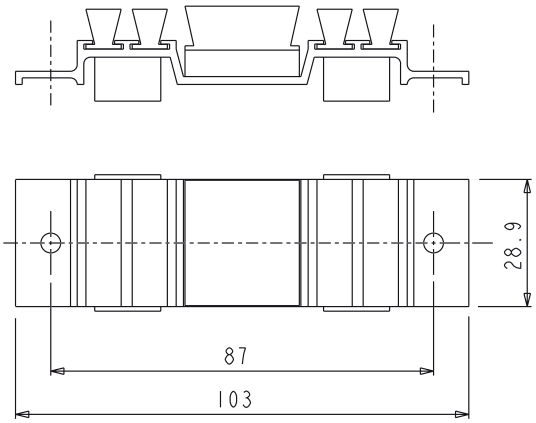
Black anodised extruded aluminium body
Zinc plated steel screws
Brushes and sponge in expanded EPDM
Cover for machining, alignment corner joint and damper in black polyamide.

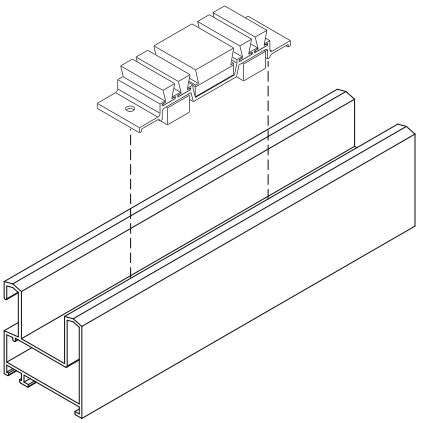






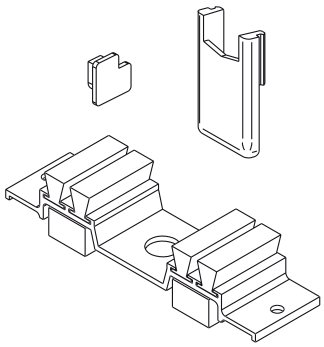






Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03185N	2-SASH SLIDER PLUGS KIT		X				50

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DUST-PROOF GASKET AND UPRIGHTS PLUGS KIT

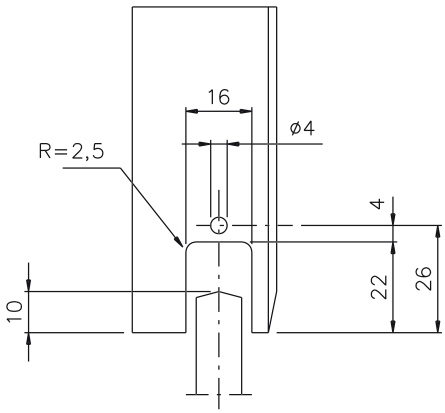
Package includes 4 central upright caps, 8 sash guide plugs and 2 dust-proof covers for a window or sliding door made of aluminium.

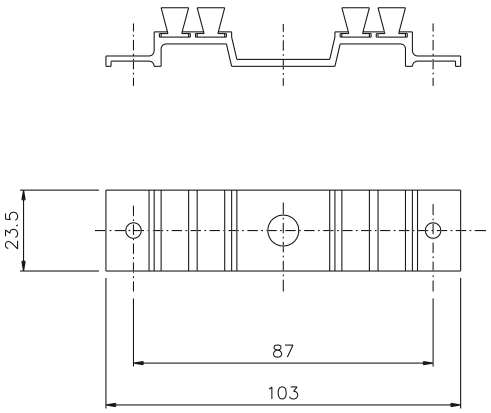
Technical features

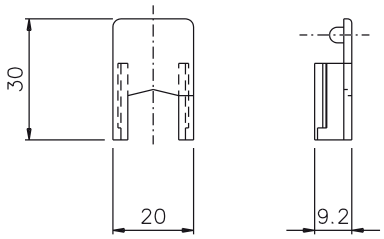
The machining caps improve the appearance of the sash by covering the machining on the central upright.
The sash guiding plugs stabilize the sash and prevent the pulley from being able to come off the rail.
The dust cap fits to the upper and lower cross beams of the fixed frame using self-tapping screws.
The sponge fits snugly against the sash to prevent dust and water entering.

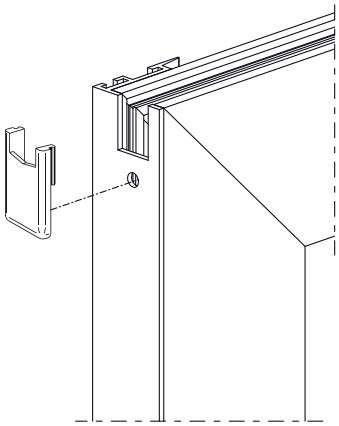
Materials

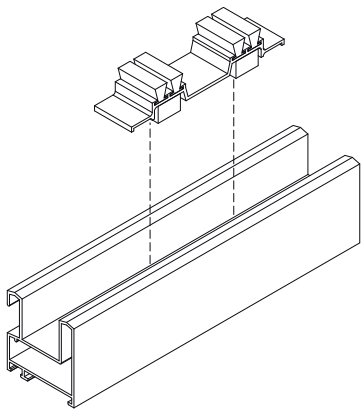
Black anodised extruded aluminium body
Brushes and sponge in expanded EPDM
Cover for machining and sash guide in black polyamide

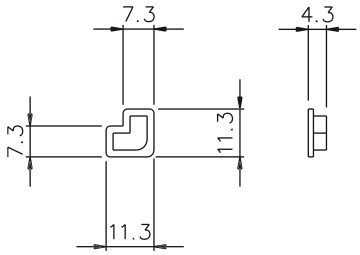






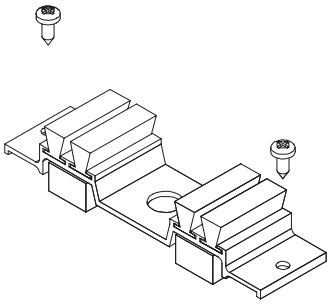






Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03194	DUST-PROOF GASKET and UPRIGHT PLUGS KIT		X				100

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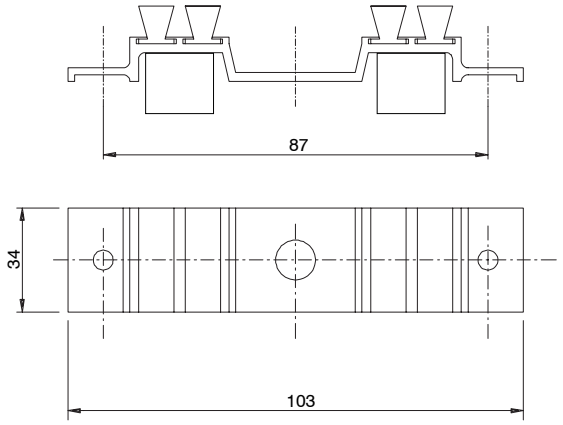


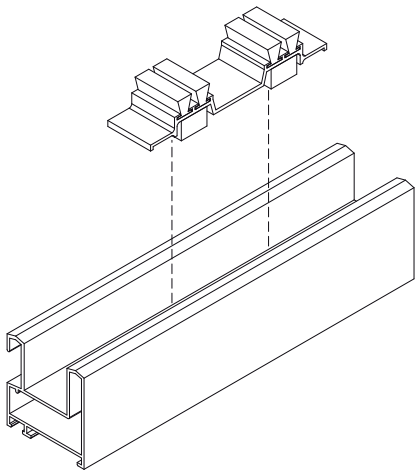
DUST-PROOF PLUG

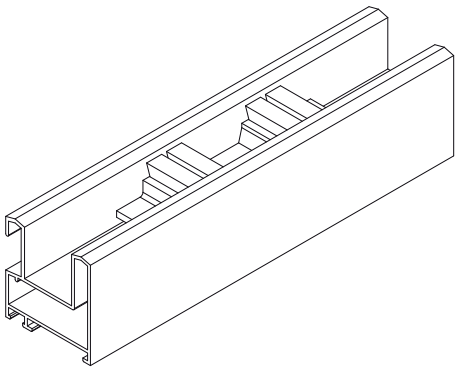
Component designed to prevent dust and water passing into the interior of the sliding door/window.

Technical features
The dust cap fits to the upper and lower cross beams of the fixed frame using self-tapping screws.
The sponge fits snugly against the sash to prevent dust and water entering.

Materials
Black anodised extruded aluminium body
Zinc plated steel screws
Brushes and sponge in expanded EPDM

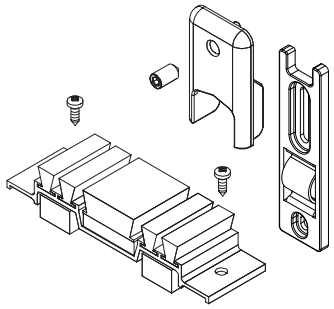






Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03314	DUST-PROOF PLUG	L= 34 mm	X				200

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2-SASH SLIDER KIT

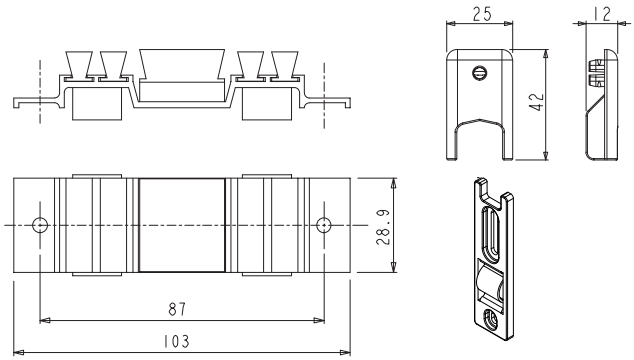
Package includes 4 central upright caps, 2 dust-proof covers and a damping cover for a window or sliding door made of aluminium.

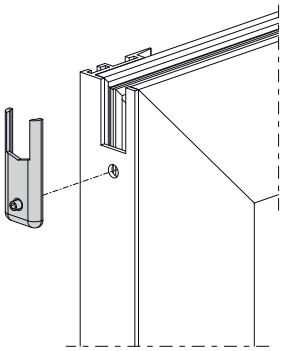
Technical features

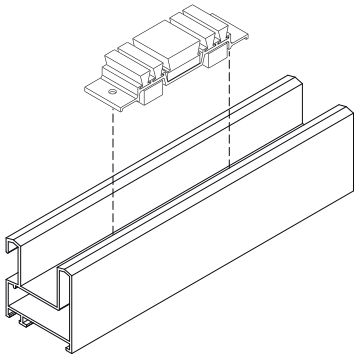
The machining caps improve the appearance of the sash by covering the machining on the central upright.
The dust cap fits to the upper and lower cross beams of the fixed frame using self-tapping screws.
The sponge fits snugly against the sash to prevent dust and water entering.
The damper plug, in addition to having a burglar-proof function, prevents the sash from slamming against the frame when closing.

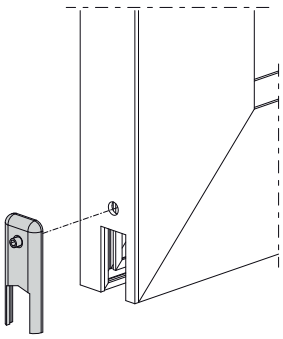
Materials

Dust-proof cover body in black anodized extruded aluminium
Brushes and sponge in expanded EPDM
Screws and grub screws in zinc plated steel
Machining and damper plugs in black polyamide









Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03384	2-SASH SLIDER KIT		X				50

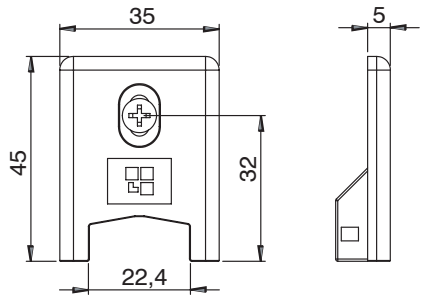
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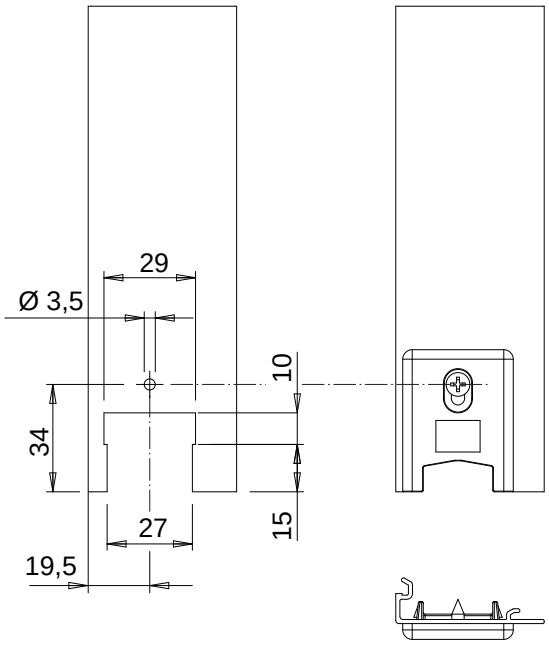


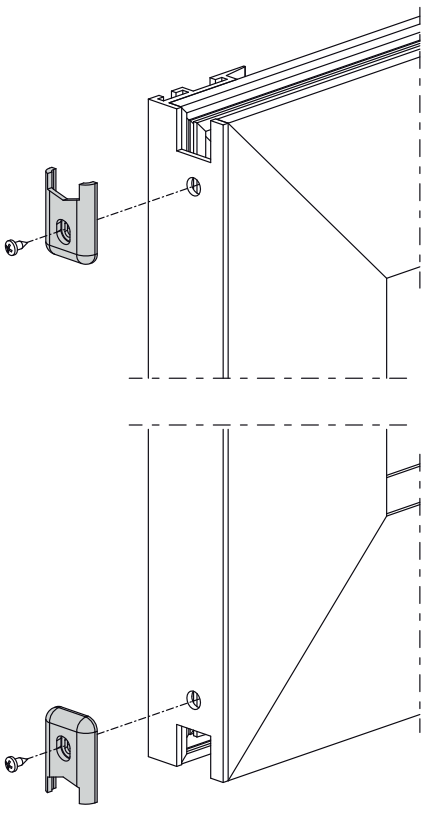
MACHINING COVER

Cap covering the machining on the central upright of sliding sashes.
Fixing is by means of a self-tapping screw.

Materials
Black polyamide cap
Zinc plated steel screw

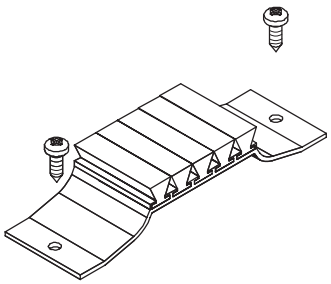






Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03462	MACHINING COVER		X				200

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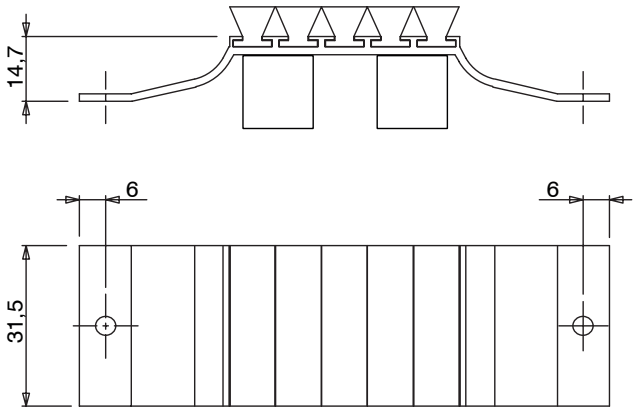


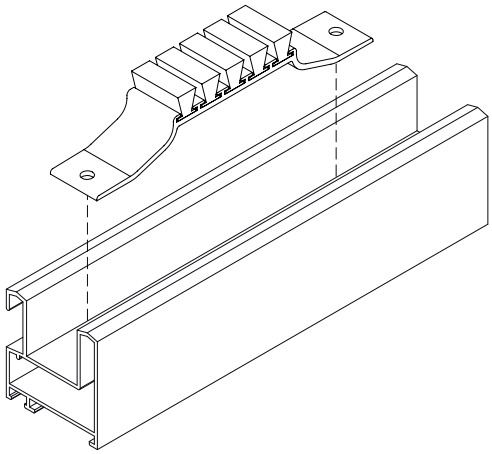
DUST-PROOF PLUG

Component designed to prevent dust and water passing into the interior of the sliding door/window.

Technical features
The dust cap fits to the upper and lower cross beams of the fixed frame using self-tapping screws.
The sponge fits snugly against the sash to prevent dust and water entering.

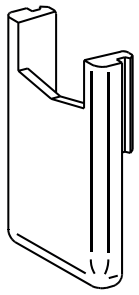
Materials
Black anodised extruded aluminium body
Zinc plated steel screws
Brushes and sponge in expanded EPDM





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03467	DUST-PROOF PLUG		X				100

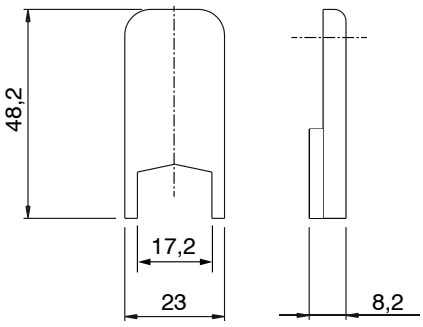
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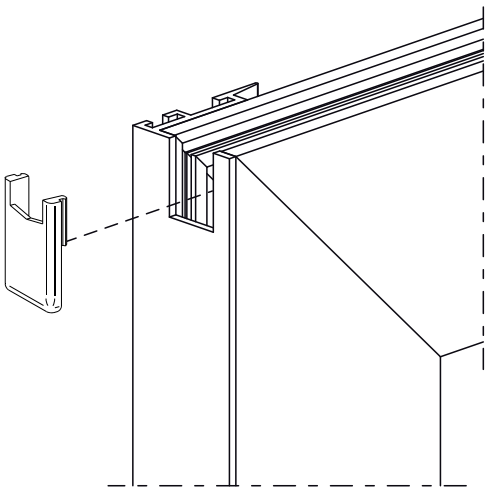


MACHINING COVER

Cap covering the machining on the central upright of sliding sashes. Fixing takes place by snap-fitting.

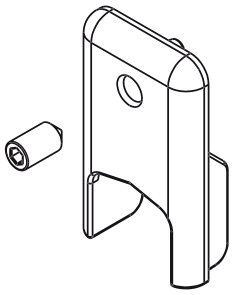
Materials
Black polyamide cap





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03479	MACHINING COVER		X				100

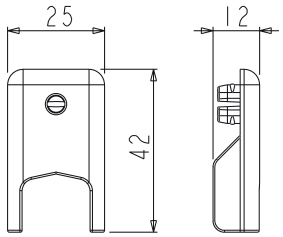
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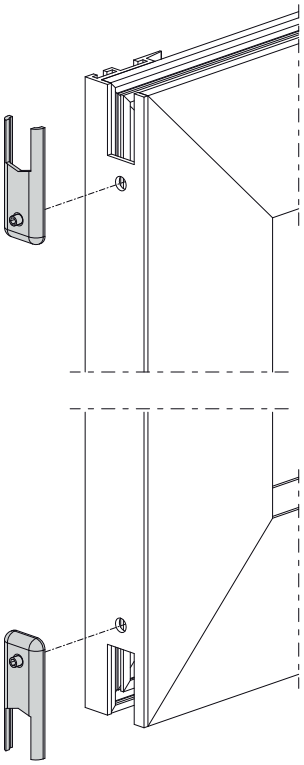


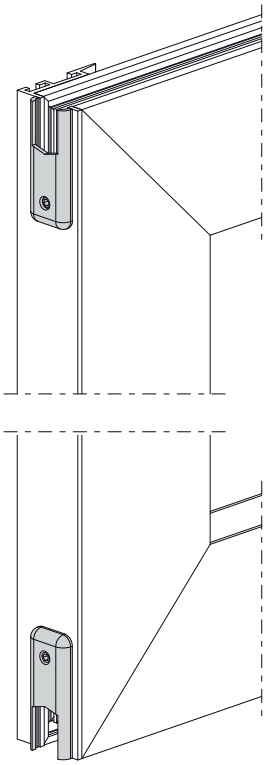
MACHINING COVER

Cap covering the machining on the central upright of sliding sashes.
Fixing is by means of a grub screw.

Materials
Black polyamide cap
Stainless steel grub screw

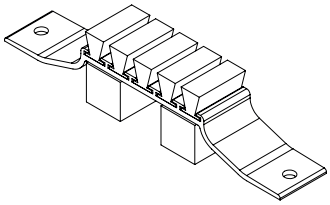






Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03485	MACHINING COVER		X				100

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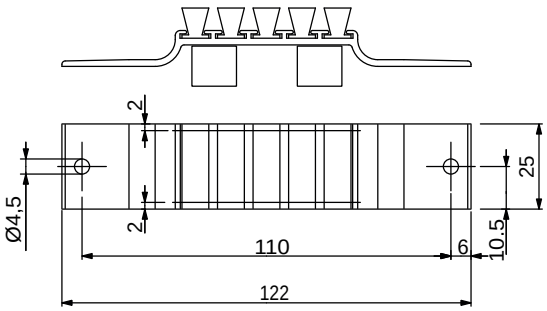


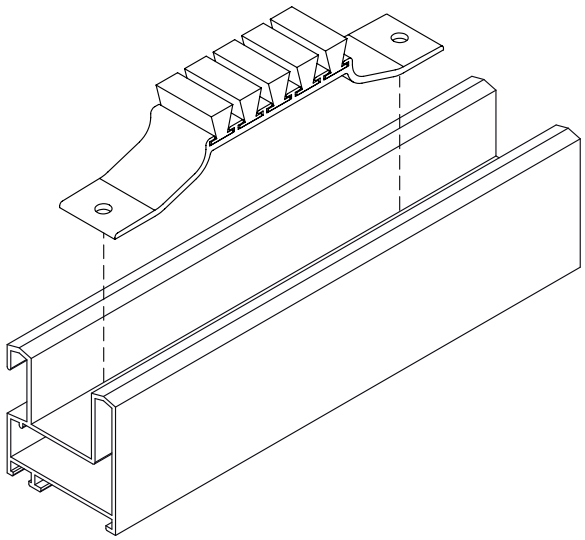
MACHINING COVER

Component designed to prevent dust and water passing into the interior of the sliding door/window.

Technical features
The dust cap fits to the upper and lower cross beams of the fixed frame using self-tapping screws.
The sponge fits snugly against the sash to prevent dust and water entering.

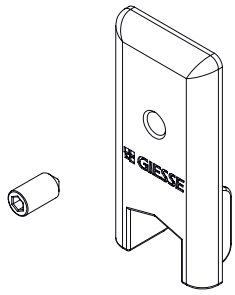
Materials
Black anodised extruded aluminium body
Zinc plated steel screws
Brushes and sponge in expanded EPDM





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03491	MACHINING COVER		X				100

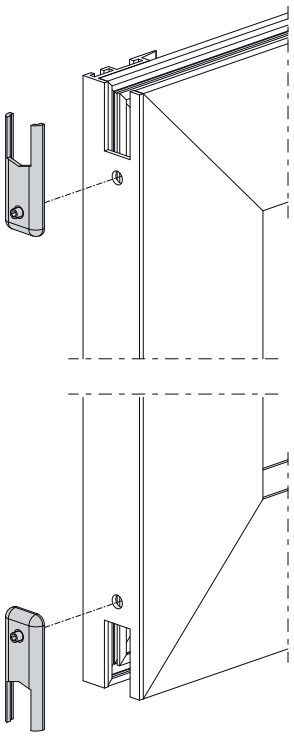
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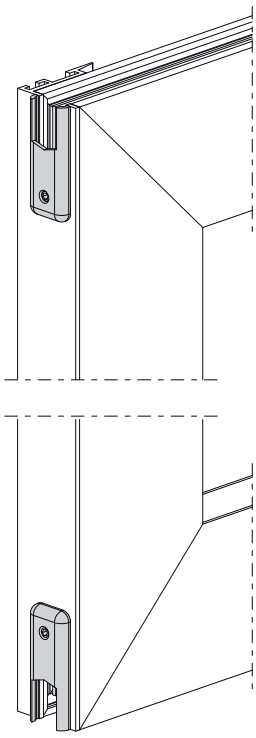


MACHINING COVER

Cap covering the machining on the central upright of sliding sashes. Fixing is by means of a grub screw.

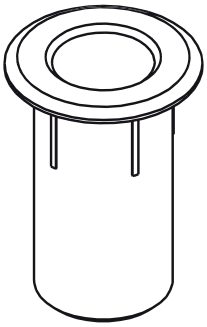
Materials
Black polyamide cap
Stainless steel grub screw





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03507	MACHINING COVER		X				200

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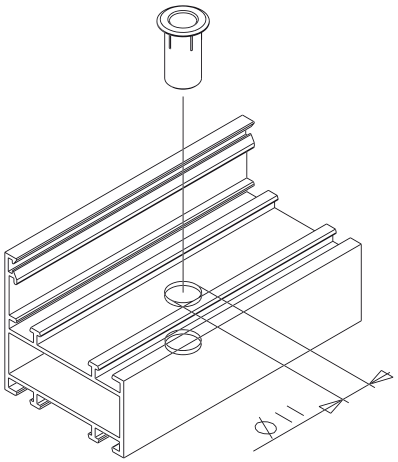


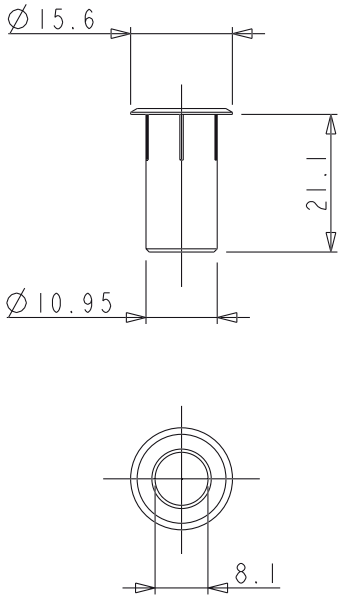
PALLET DRAINAGE BUSH

Functions
Polyamide component to be press-fitted on the bench for the water to run off from an aluminium window.

Technical features
Fits into a 11 mm hole.

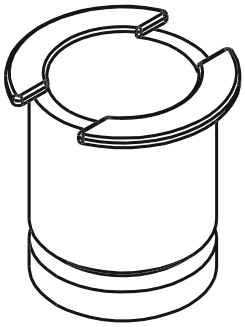
Materials
Black polyamide





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02367	PALLET DRAINAGE BUSH		X				500

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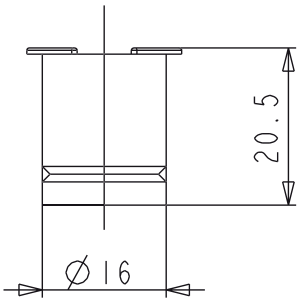


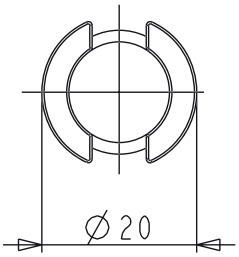
WATER DRAINAGE BUSH

Functions
Black polyamide component which pressure fits to the bed of an aluminium window or door to enable the water to run off.

Technical features
Fits into a 10 mm hole.
(In some series, it is necessary, during assembly, to remove the terminal part at the predetermined break line.)

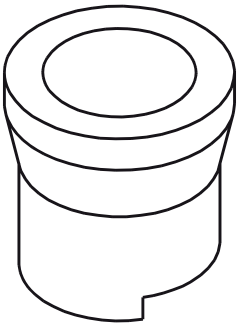
Materials
Black polyamide





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03156	WATER DRAINAGE BUSH		X				100

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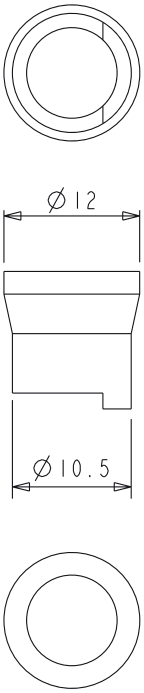


WATER DRAINAGE BUSH

Functions
Black polyamide component which pressure fits to the bed of an aluminium window to enable the water to run off.

Technical features
Fits into a 12 mm hole.
(In some series, it is necessary, during assembly, to remove the terminal part at the predetermined break line.)

Materials
Black polyamide

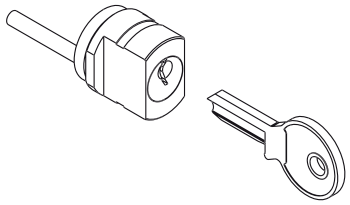


In some series, it is necessary, during assembly, to remove the terminal part at the predetermined break line.



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03196	WATER DRAINAGE BUSH		X				100

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CYLINDER WITH KEYS

Functions

Spare accessory which enables the fastening function of the PRATIKA DUO and BRIO KEY handles

Technical features

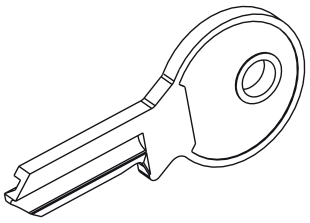
Can be easily applied on the PRATIKA DUO and BRIO KEY handles with a grub screw.
The cylinder allows an excellent number of combinations and the possibility of having systems with the same key (KA) or master key (MK).

Materials

Brass body.
Peg plate in zinc plated zamak.
Stainless steel grub screw.

Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03061	CYLINDER WITH KEYS		X				10

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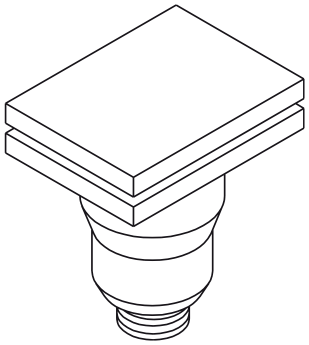
BLANK KEY FOR PRATIKA/BRIO

Functions
Blank key made of nickel-plated brass for duplication of keys for the cylinder art. 03061.

Materials
Nickel plated brass.

Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03062	BLANK KEY FOR PRATIKA/BRIO		X				100

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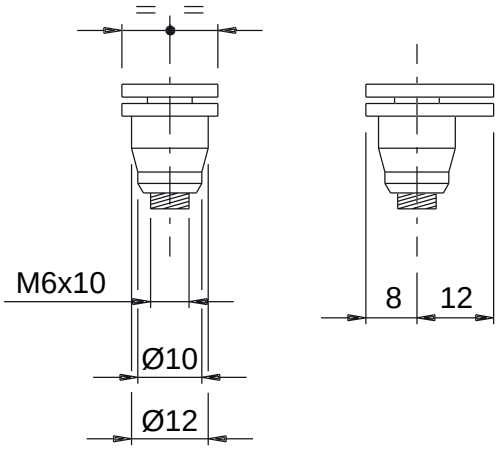


GLASS ADJUSTMENT PLUG

Functions
Necessary for perfect adjustment of the glass during installation.

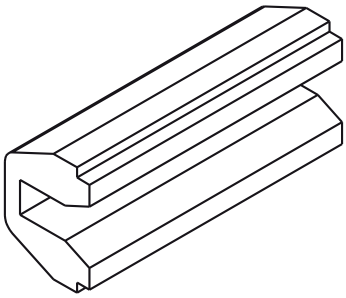
Technical features
Correct mounting requires making a hole of Ø 12 mm in the profile.

Materials
Body and moving part in black polyamide
Zinc plated steel grub screw



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01239	GLASS ADJUSTMENT PLUG		X				100

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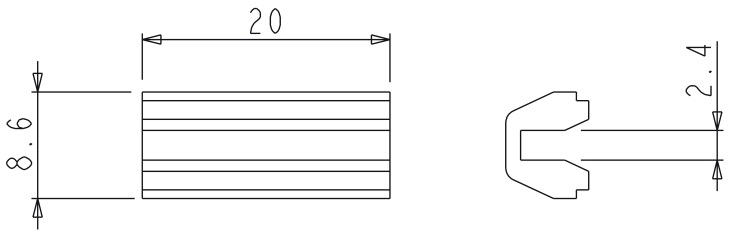


CLIP FOR HOLDING CABLE COVER

Functions
Clip for retaining the cable cover of a sliding window made of aluminium.

Technical features
Snap-mounted on the bed and in the same way the cable cover is applied to the clip.

Materials
Black polyamide



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03155	CLIP FOR HOLDING CABLE COVER		X				50

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SPECIAL OPENINGS

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GS1000 TILT AND SLIDE



Functions

Tilt and slide system for making large windows up to 2700 mm in height and with sash weights of up to 200 kg.
Available in the version with MANUAL CONTROL and in the version with FORCED CONTROL.

Technical Features

Manual control versions

On the manual control version, the sash is operated with the cremone or the standard window handle.
The models available in this version are respectively:
• **GS1000-ML -** The ideal version for windowsill applications permits making small sashes weighing up to 100 kg.
• **GS1000-HL -** The ideal version for large windows permits making large sashes weighing up to 160 kg.

Both models are available in configurations with cremone/window handle for Euro groove profiles and with cremone/window handle for R40 profiles, depending on the specific hardware set chosen.

Forced control versions

On the forced control version, the special semi-automatic operation device allows you to close the sash with just one hand, with an easy movement of the special long-handled cremone. The models available in this version are respectively:
• **GS1000-HD 100 -** The version for light sashes of up to 100 kg in weight, for those who want semi-automatic operation.
• **GS1000-HD 160 -** The high-performance version, for making large sashes weighing up to 160 kg.
• **GS1000-HD 200 -** The highest performance version, for making very large sashes weighing up to 200 kg.
All three models are available for Euro groove profiles.

All the GS1000 tilt and slide models, both the manual control and forced control versions, have the following features:
• **Automatic coupling device -** Facilitates closing the sash so that, when brought to close, it automatically engages in the tilt position.
• **LOGICA opening -** Operating the cremone allows first tilt-and-turn opening and then sliding.
• **Incorrect movement safety device -** Enables operating the cremone only when the sash is hooked onto the frame, protecting the hardware against damage in the event of improper use.
• **The adjustments for correct positioning of the sash -** Acting on these it is possible to improve the overall arrangement of the sash relative to the frame.

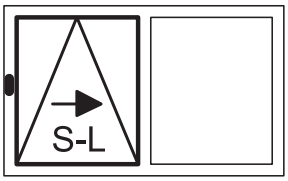
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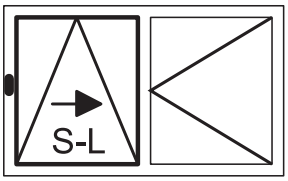
GS1000 versions: possible features and dimensions

Version GS1000	H sash [mm]	W sash [mm]	Automatic catch	Forced control	Hardw. Base	Cremone	Window handle	Incorrect movement safety device	Lift-proof	Overall rail dimensions	Adjustable
ML	930-2400	630-1480	YES	NO	Giesse Futura	Giesse Standard	Giesse Standard	YES	YES	35 mm	YES
HL	930-2400	630-1680	YES	NO	Giesse Futura	Giesse Standard	Giesse Standard	YES	YES	35 mm	YES
HD 100	930-2400	730-1300	YES	YES	Special	Special	-	YES	YES	35 mm	YES
HD 160	930-2700	730-2000	YES	YES	Special	Special	-	YES	YES	35 mm	YES
HD 200	930-2700	1080-2000	YES	YES	Special	Special	-	YES	YES	35 mm	YES

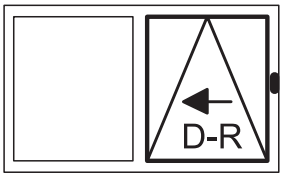
OPENING SCHEMES

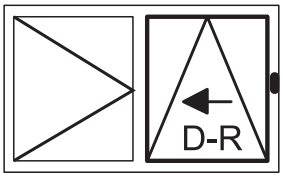
A1 - Two sashes
Left-sliding sash and fixed/opening secondary sash



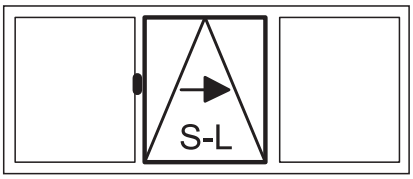


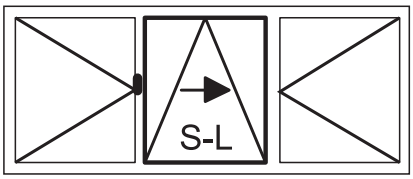
A2 - Two sashes
Right-sliding sash and fixed/opening secondary sash



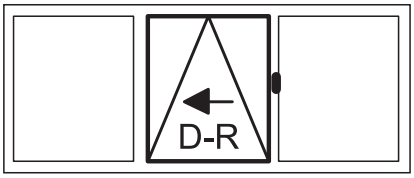


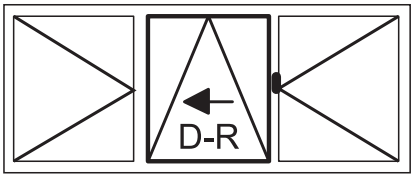
G1 - Three sashes
Left-sliding centre sash and fixed/opening secondary sashes



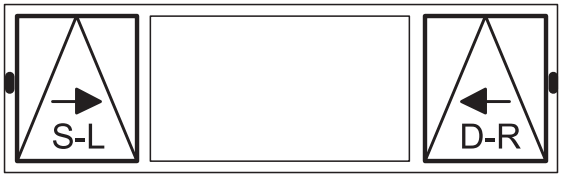


G2 - Three sashes
Right-sliding centre sash and fixed/opening secondary sashes

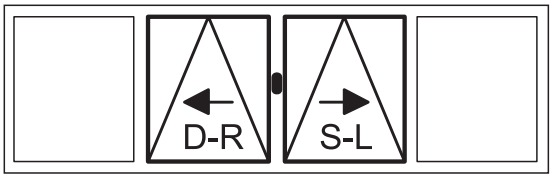


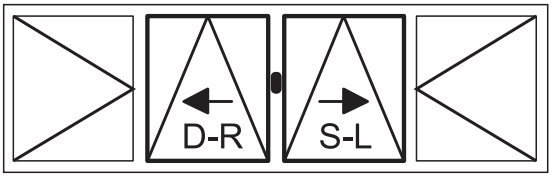


K - Three sashes
Fixed centre sash and sliding side sashes



C - Four sashes
Sliding centre sashes and fixed secondary sashes (with/without central upright)





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OVERVIEW OF GS1000 PRODUCTS

Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09776	SET OF RH SINGLE PULLEYS	-	-	X	X	X	X	-	X				1
09777	SET OF LH SINGLE PULLEYS	-	-	X	X	X	X	-	X				1
09778	SET OF RH DOUBLE PULLEYS	-	-	-	-	-	-	X	X				1
09779	SET OF LH DOUBLE PULLEYS	-	-	-	-	-	-	X	X				1
09780	GS1000-ML/HL HARDWARE SET	-	C001-C002-C003-C005	X	X	-	-	-	X				1
09783	GS1000-ML/HL WINDOW HANDLE HARDWARE SET	-	C001	X	X	-	-	-	X				1
09758	GS1000 R40 HARDWARE SET	-	C007	X	X	-	-	-	X				1
09781	GS1000-HD LH HARDWARE SET	-	C001-C002-C003-C005	-	-	X	X	X	X				1
09782	GS1000-HD RH HARDWARE SET	-	C001-C002-C003-C005	-	-	X	X	X	X				1
09723	630-930 WIDTH STAY ARM	630÷930	-	X	X	X	-	-	X				1
09724	931-1280 WIDTH STAY ARM	931÷1280	-	X	X	X	-	-	X				1
09725	1281-1680 WIDTH STAY ARM	1281÷1680	-	X	X	X	-	-	X				1
09761	630-880 PROFILES SET	630÷880	-	X	X	X	X	-	X	X	X		1
09762	881-1080 PROFILES SET	881÷1080	-	X	X	X	X	-	X	X	X		1
09763	1081-1280 PROFILES SET	1081÷1280	-	X	X	X	X	X	X	X	X		1
09764	1281-1480 PROFILES SET	1281÷1480	-	X	X	X	X	X	X	X	X		1
09765	1481-1680 PROFILES SET	1481÷1680	-	-	X	-	X	X	X	X	X		1
09766	1681-2000 PROFILES SET	1681÷2000	-	-	-	-	X	X	X	X	X		1
09768	TOP RAIL L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09769	BOTTOM RAIL L=6000 mm	-	-	X	X	X	X	X	X	X			1
09770	TOP GUARD L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09771	BOTTOM GUARD L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09772	PVC SCREW COVER L=6000 mm	-	-	X	X	X	X	X	X				1
09773	PULLEY CONNECTION ROD L=4000 mm	-	-	X	X	X	X	X	X				1
09774	ACCESSORIES SET WITHOUT SIDE REINFORCEMENTS	-	-	X	-	X	-	-	X		X		1
09775	ACCESSORIES SET WITH SIDE REINFORCEMENTS	-	-	-	X	-	X	X	X		X		1
09790	MOBILE STRIKER	-	-	X	X	X	X	X			X		1
09789	SUPPORT BLOCK	-	-	-	X	X	X	X	X				1
09759	ADDITIONAL ARM	-	-	-	-	-	X	X	X				1
09751	MECH. LH WINDOW HANDLE GS1000-ML/HL CE	-	-	X	X	-	-	-	X				1
09752	MECH. RH WINDOW HANDLE GS1000-ML/HL CE	-	-	X	X	-	-	-	X				1
09785	SET OF STRIKERS E.G. 10-14	-	C003	-	-	X	X	X	X				1
09786	SET OF STRIKERS E.G. 12-15	-	C005	-	-	X	X	X	X				1
09787	SET OF STRIKERS E.G. 13.5-16.8	-	C002	-	-	X	X	X	X				1
09788	SET OF STRIKERS E.G. 14-18	-	C001-C004	-	-	X	X	X	X				1

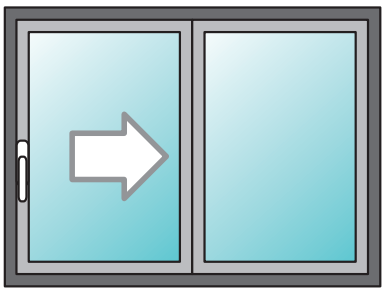
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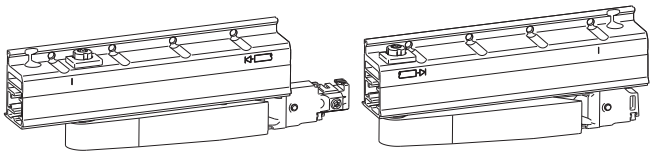
Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09736N	GS1000-HD RH CREMONE	-	-	-	-	X	X	X	X	X	X		1
09737N	GS1000-HD LH CREMONE	-	-	-	-	X	X	X	X	X	X		1
09738N	GS1000-HD RH CREMONE WITH KEY	-	-	-	-	X	X	X		X	X		1
09739N	GS1000-HD LH CREMONE WITH KEY	-	-	-	-	X	X	X		X	X		1
09791	GS1000-HD 14/18 LH INCORRECT MOVEMENT SAFETY DEVICE SET	-	C001-C002-C004-C005	-	-	X	X	X	X				1
09792	GS1000-HD 14/18 RH INCORRECT MOVEMENT SAFETY DEVICE SET	-	C001-C002-C004-C005	-	-	X	X	X	X				1
09793	GS1000-HD CE LH INCORRECT MOVEMENT SAFETY DEVICE SET	-	C003	-	-	X	X	X	X				1
09794	GS1000-HD CE RH INCORRECT MOVEMENT SAFETY DEVICE SET	-	C003	-	-	X	X	X	X				1
09741N	GS1000-HD CREMONE DRILLING TEMPLATE	-	-	-	-	X	X	X	X				1
09801	PULLEY DRILLING TEMPLATE	-	-	X	X	X	X	X	X				1
09803	GS1000-HD ARM AND DRIVE DRILLING TEMPLATE	-	-	-	-	X	X	X	X				1
09804	HOLE CENTRING TEMPLATE	-	-	X	X	X	X	X	X				1
09805	RAIL FIXING TEMPLATE	-	-	X	X	X	X	X	X				1

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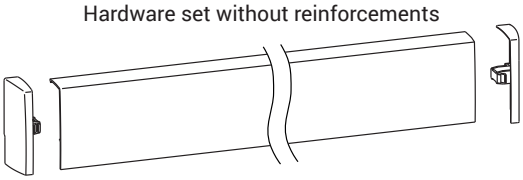
GS1000-ML



Single pulleys



Hardware set without reinforcements



GS1000-ML TILT AND SLIDE

Functions

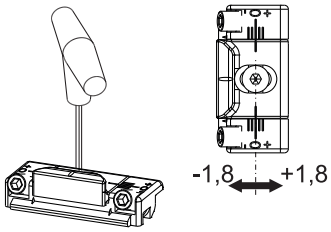
Tilt and slide system with manual operation using standard cremone or window handle.
For applications with sashes weighing up to 100 kg.
Available for Euro groove and R40 profiles.

Technical Features

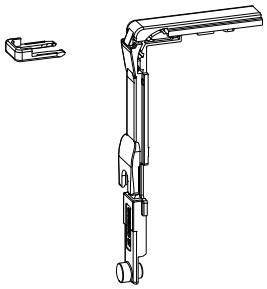
GS1000-ML is ideal for windowsill applications.
Enables making sashes of reduced dimensions and weights up to 100 kg.
Uses single pulleys without flat side plugs and reinforcements.
GS1000-ML can be made in these configurations:
• for Euro groove with cremone/window handle
• for R40 with cremone/window handle
depending on the specific hardware set that you choose.

GS1000-ML uses the Giesse Futura tilt-and-turn fastening mechanism with the Giesse polyamide rod.
The hardware components are pre-assembled and are attached to the profile by interlocking or with contrast grubscrews, without any specific machining.
The Euro groove hardware set uses adjustable strikers (± 1.8 mm), while the R40 hardware set has adjustable pawls (± 1.2 mm), to optimize the perimeter pressure of the sash.
It is possible to add up to four additional locking points, depending on the size of the sash, to improve the air/water seal.
On both versions it is possible to add burglar-proof devices along the perimeter of the sash (except for R40 configurations).

Adjustable strikers



Futura corner drive

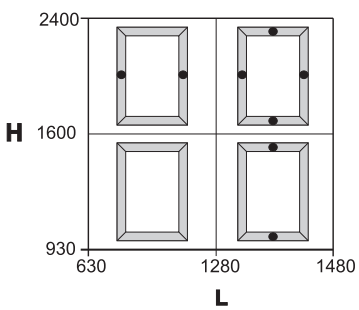


Automatic catch

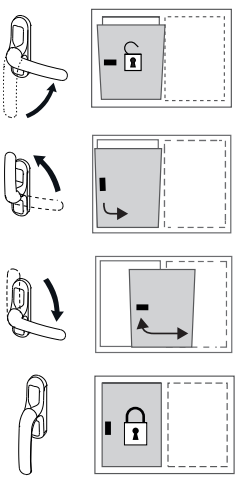
GS1000-ML features the automatic catch system (*) installed at the bottom of the sash.
This device facilitates closing the sash that, when put in the closed position, automatically locks in the tilt position.
Turning the cremone from 180° (sliding position) to 90° (tilt position) and putting the sash into the closed position engages the sash in the tilt position.
To close the sash simply move it against the frame and turn the cremone down a further 90° to 0° (closed).

(*) not available in the configuration for R40

GS1000 ML Additional locking points



Operating scheme



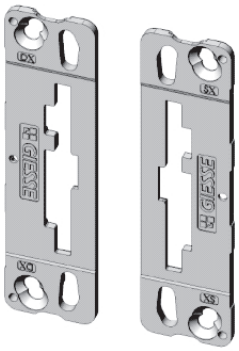
"LOGICA" opening mechanism

GS1000-ML uses the LOGICA opening system (**) whereby operating the cremone produces first tilt opening and then slide opening.
Taking the cremone to 90° operates tilt opening and turning it to 180° operates slide opening.
To engage the automatic catch, the cremone must be turned back to 90° and the sash closed against the frame.

(**) excluding the version for R40 in which there is first sliding opening then tilt-and-turn opening

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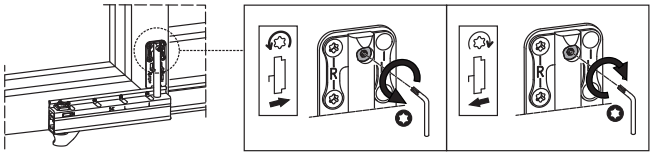
Incorrect movement safety device plates



Incorrect movement safety device

The "incorrect movement safety device" prevents incorrect cremone operation when opening and closing the sash, avoiding malfunctioning or damage to the casement.
In the cremone configuration, the incorrect movement safety feature is obtained by replacing the plate supplied with the standard cremone with one of the two plates (left/right) included in the cremone hardware set.
In this way the cremone can turn from 180° to 90° to allow automatic engagement, but it cannot turn from 90° to 0° if the sash is not tilted close, so as to prevent accidental impact of the strikers and pawls.
In the window handle configuration, the mechanism itself (available in right- and left-hand versions) is fitted with an incorrect movement safety device that prevents operating the cremone from 90° to 0° with the sash sliding open.

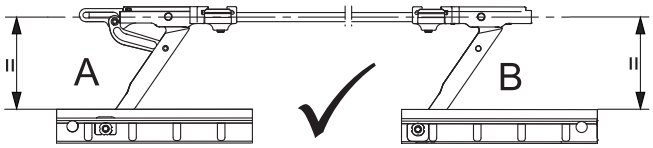
Adjustment of the side reinforcements



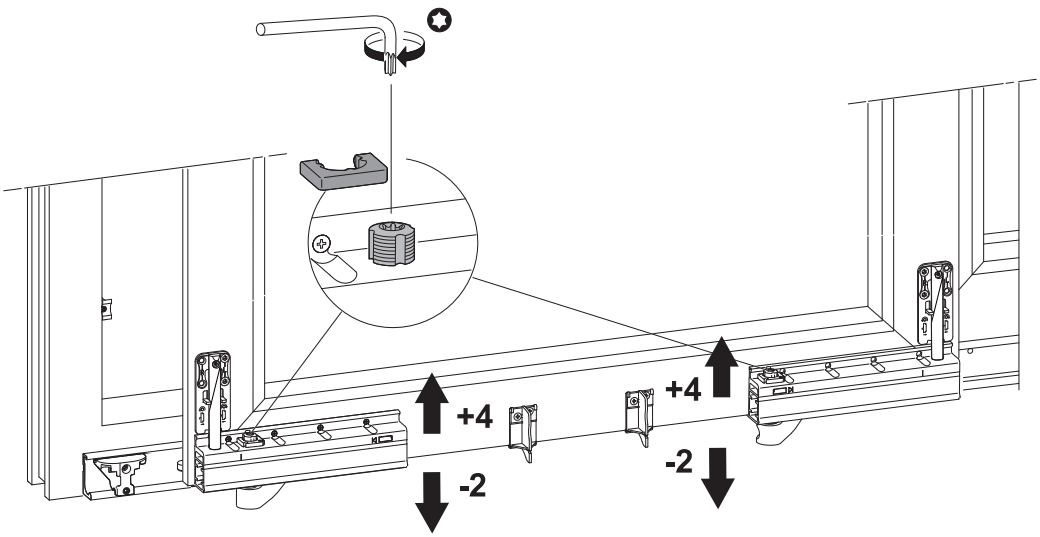
Correct positioning of the sash

To improve the overall alignment of the sash with the frame, there are several adjustments:
• height adjustment of the sash via the pulleys (-2/+4 mm)
• side adjustment via the command striker
• adjustment of the side reinforcements to improve the sash out and return phase
• adjustment of the sash-frame parallelism

Sash-frame parallelism

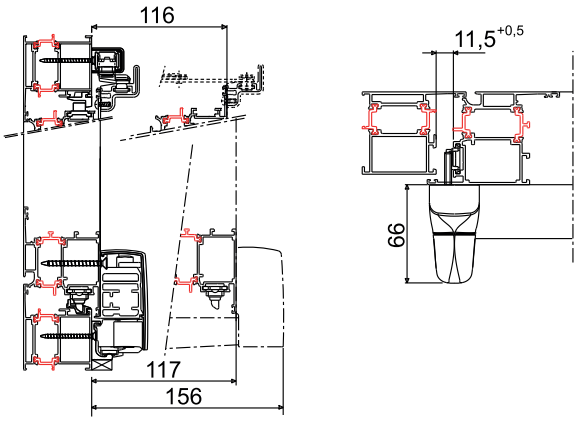


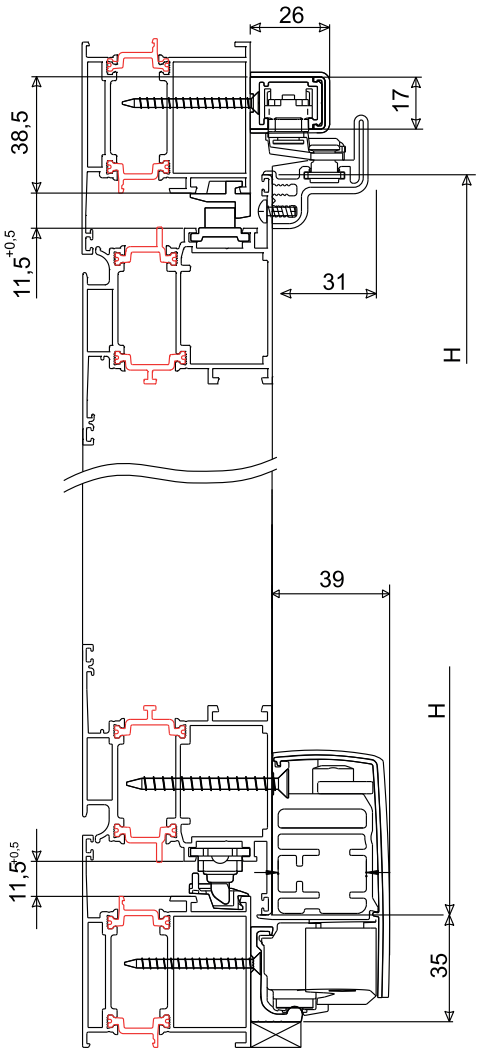
Height adjustment



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Application section





GS1000-ML range of use

Applications on aluminium doors and windows
Sash weight (kg) = max 100 kg
Sash width (W) = 630 to 1480 mm
Sash height (H) = 930 to 2400 mm

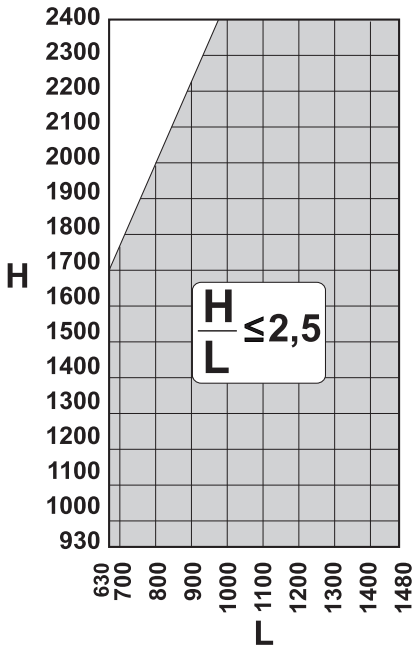
Minimum required dimensions

Bottom rail = 35 mm
Top rail = 38.5 mm
Bottom rail depth = 17 mm
Step >= 7 mm
Sash depth D:
<= 87 mm check not required
> 87 mm do only after technical verification (return trajectory and sash centre of gravity)

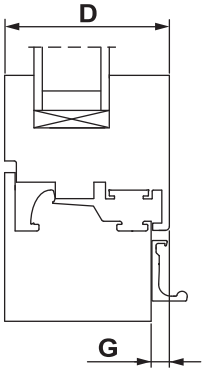
Important note

The H/L ratio <= 2.5 given in the scheme is binding and must not be exceeded.
In all cases, refer to the profile manufacturer's instructions and comply with the requirements.
Take the due precautions to avoid straining the mechanism in specific sites such as hotels, schools, kindergartens, etc.

Range of use



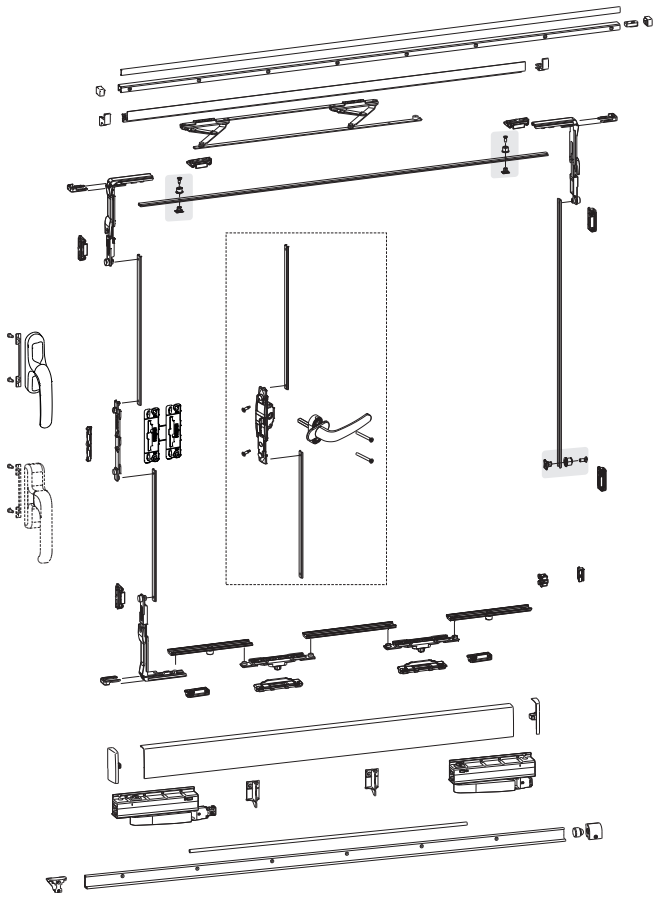
G = step
D = sash depth



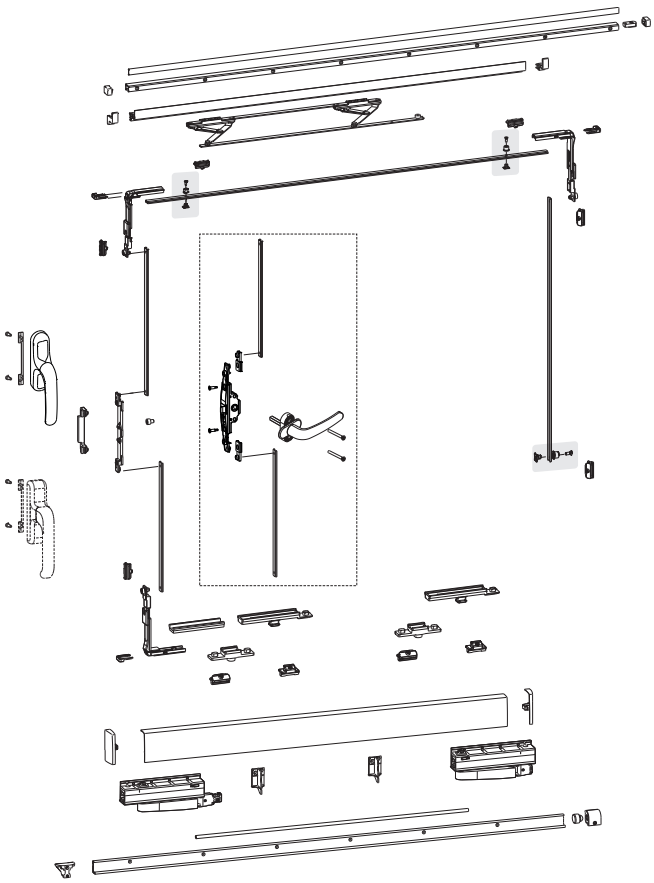
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A typical GS1000-ML configuration consists of:
• single pulley set
• hardware set available in the Euro groove version for cremones, in the Euro groove version for window handles and in the R40 version for cremones and window handles
• stay arm
• profile set
• accessories set without side reinforcements
• cremone/window handle
• mobile control (in the case of an opening secondary sash)

Scheme for GS1000-ML Euro groove profile with cremone/window handle

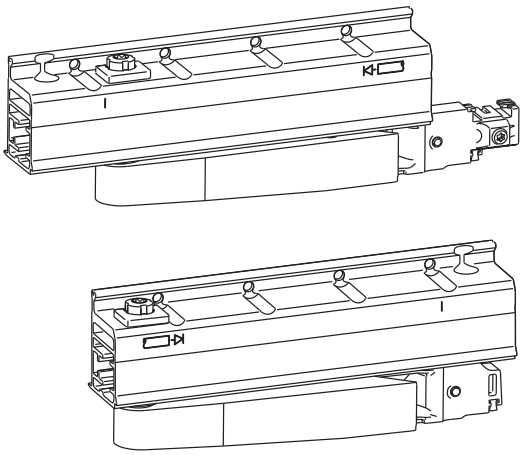


Scheme for GS1000-ML R40 profile with cremone/window handle



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SINGLE PULLEYS



Functions

Single pulleys for GS1000 tilt and slide system.

Technical features

Single pulleys to be used for making windows with the following tilt and slide versions:

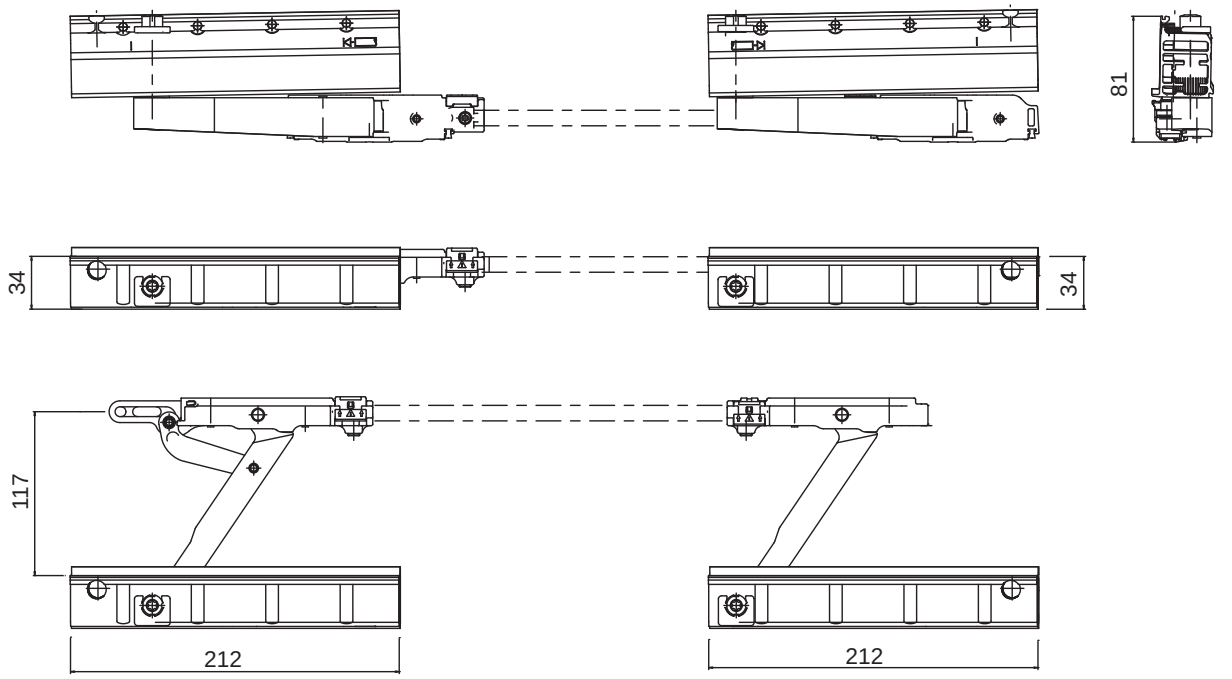
- GS1000-ML
- GS1000-HL
- GS1000-HD 100
- GS1000-HD 160

The set of single pulleys consists of a primary pulley, which controls sash return and a secondary pulley, available in right-hand and left-hand versions.
The opening of the arm of the pulleys allows the sash to come out from the frame by 117 mm.
Applicable on profiles with a step greater than or equal to 7 mm.
Both pulleys are designed for use with side reinforcements that improve the seal of the profile (sold separately in the hardware set).
Using the pulleys it is possible to adjust the height of the sash (-2/+4 mm) and the parallelism between the sash and frame.
The machining on the profile for installing pulleys can be done with a specific drilling template.
Fixing to the profile is done with self-threading screws.
The pulleys are supplied with 2 supports for the bottom guard and the screws and bolts for fixing the pulleys and the set of rails.

Materials

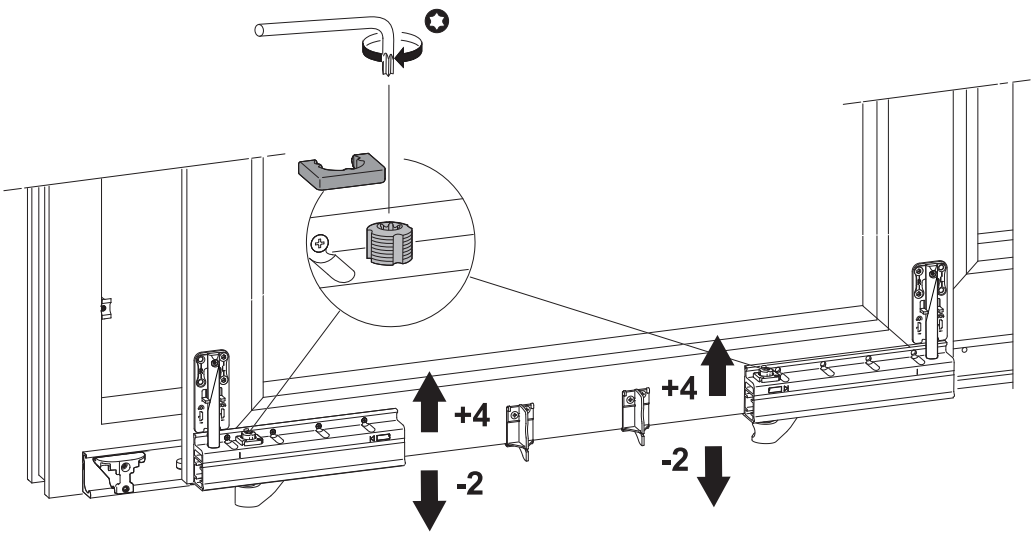
Body and opening levers of aluminium
Wheel support of zamak
Polyamide wheels
Bottom guard supports of polyamide
Screws and pins of stainless steel

Single pulleys

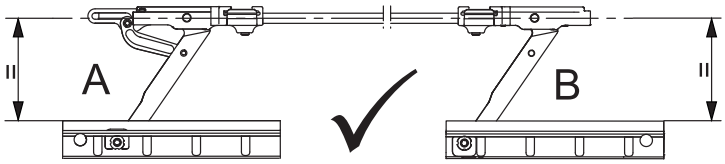


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Height adjustment



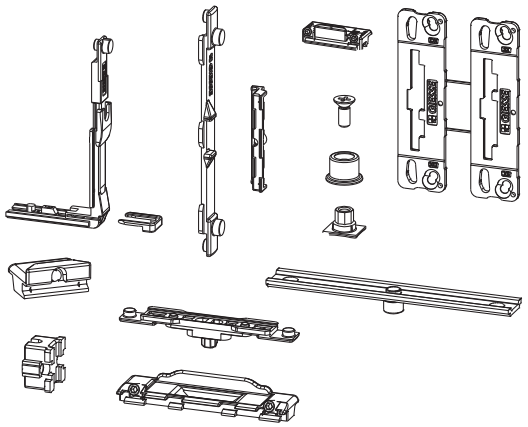
Sash-frame parallelism



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09776	SET OF RH SINGLE PULLEYS	-	-	X	X	X	X	-	X				1
09777	SET OF LH SINGLE PULLEYS	-	-	X	X	X	X	-	X				1

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GS1000-ML AND GS1000-HL HARDWARE



Functions

Complete fastener system for making GS1000 tilt and slide type windows with manual control.
Available in versions for Euro groove for cremone and window handle and the version for R40.

Technical features

The fastening system uses the Futura tilt-and-turn fastening mechanism with a polyamide rod and LOGICA opening (*) with which operating the cremone produces first tilt opening, then slide opening.
The Euro groove hardware set uses fixed pawls and adjustable strikers (± 1.8 mm) with which you can optimize the perimeter pressure of the sash.
The R40 hardware set instead has fixed strikers and adjustable pawls (± 1.2 mm).
The hardware components are pre-assembled and are attached to the profile with contrast grubscrews, without any specific machining.
It is possible to add up to four additional locking points, depending on the size of the sash.

The hardware set consists of:
• no. 3 corner drives to transmit the motion between the uprights and cross-beams, to be secured to the profile with interlocking clips
• no. 1 cremone drive rod + no.1 incorrect movement safety striker (not included in the window handle hardware set)
• no. 8 locking points (pawls + strikers)
• no. 2 spring latches + strikers for the automatic locking system (not available in the version for R40)
• no. 2 connection rods with fastening mechanism pawl
• no. 1 lift-proof system (block + striker)
• no. 2 incorrect movement safety plates for cremones (1 right + 1 left) to replace the one supplied with the standard cremone
• no. 1 sticker for correct system operation

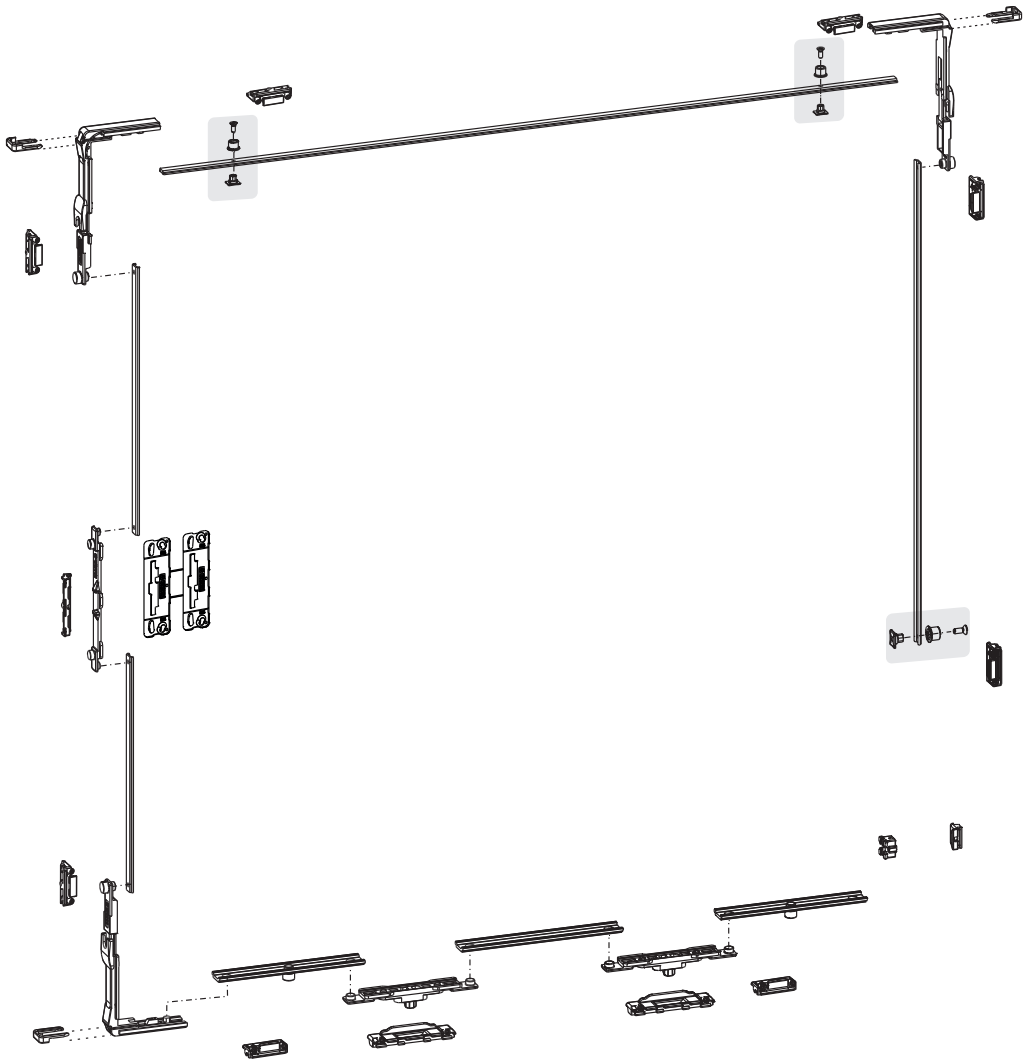
(*) excluding the configuration for R40

Materials

Drives, drive rod, strikers and pawls of zamak
Automatic catch strikers of zamak
Brass spring latches
Lift-proof striker + block of zamak
Polyamide connection rods
Polyamide incorrect movement safety device plates
Stainless steel mounting grubscrews

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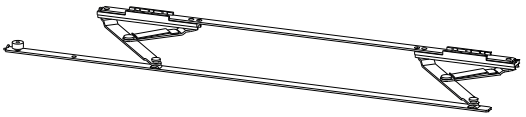
GS1000ML-HL hardware set



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09780	GS1000-ML/HL HARDWARE SET	-	C001-C002-C003-C005	X	X	-	-	-	X				1
09783	GS1000-ML/HL WINDOW HANDLE HARDWARE SET	-	C001	X	X	-	-	-	X				1
09758	GS1000 R40 HARDWARE SET	-	C007	X	X	-	-	-	X				1

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GS1000-ML/GS1000-HL ARMS



Functions

Stay arms for GS1000-ML and GS1000-HL tilt-and-slide system.

Technical features

The arms allow tilt-and-turn opening of the sash in conjunction with the fastening mechanisms.
They are available in three sizes to choose from according to the width of the sliding sash:
• for sashes of width 630-980 mm
• for sashes of width 981-1280 mm
• for sashes of width 1281-1680 mm

Materials

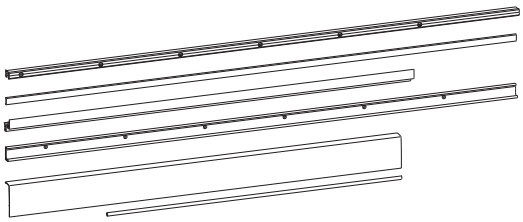
Steel arms
Sliders of nylon



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09723	630-930 WIDTH STAY ARM	630÷930	-	X	X	X	-	-	X				1
09724	931-1280 WIDTH STAY ARM	931÷1280	-	X	X	X	-	-	X				1
09725	1281-1680 WIDTH STAY ARM	1281÷1680	-	X	X	X	-	-	X				1

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PROFILES SET



Functions

Profiles with the function of supporting and guiding in the phase of operating the sliding sash and with the function of a stylish cover for the GS1000 tilt and slide system.

Technical features

Each set of profiles consists of:

- top guards and track
- bottom guards and track
- screw protection plug
- pulley connection rod

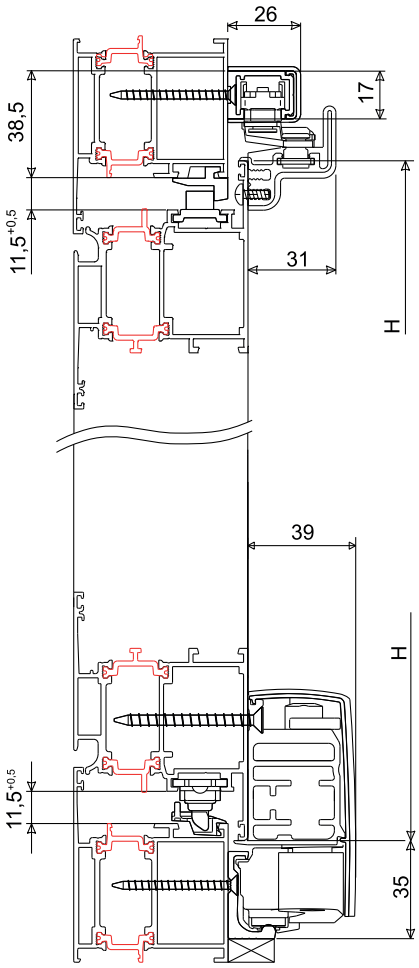
The profiles set is available in various sizes, depending on the width of the sash to be constructed.
The bottom rail always has an anodised, silver or black finish.
The fixing of the profiles is by means of self-threading screws (supplied with the set of pulleys).
There are specific templates for the installation of the various profiles.

Materials

Rails and covers made of extruded aluminium
PVC screw cover rod (*)
Steel connection rod

(*) Available in the basic finishes of white, black and grey, combined with the various profile set finishes.

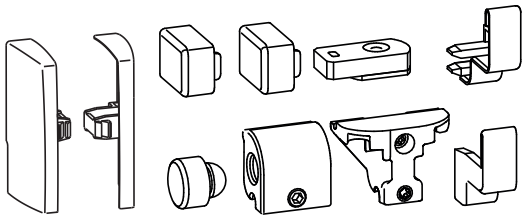
Application section



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09761	630-880 PROFILES SET	630÷880	-	X	X	X	X	-	X	X	X		1
09762	881-1080 PROFILES SET	881÷1080	-	X	X	X	X	-	X	X	X		1
09763	1081-1280 PROFILES SET	1081÷1280	-	X	X	X	X	X	X	X	X		1
09764	1281-1480 PROFILES SET	1281÷1480	-	X	X	X	X	X	X	X	X		1
09768	TOP RAIL L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09769	BOTTOM RAIL L=6000 mm	-	-	X	X	X	X	X	X	X			1
09770	TOP GUARD L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09771	BOTTOM GUARD L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09772	PVC SCREW COVER L=6000 mm	-	-	X	X	X	X	X	X				1
09773	PULLEY CONNECTION ROD L=4000 mm	-	-	X	X	X	X	X	X				1

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ACCESSORIES SET WITHOUT SIDE REINFORCEMENTS



Functions

Components for covering and completing the GS1000 tilt and slide system.

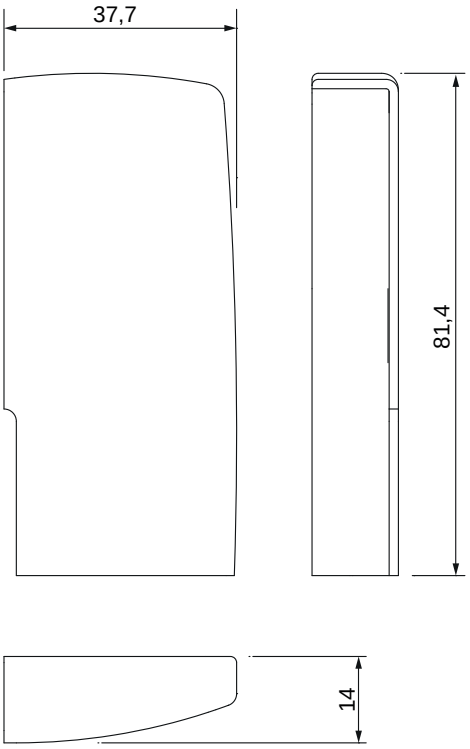
Technical features

Accessories set without side reinforcements consists of:
• flat side protective caps that can be painted as needed
• protective caps for guards
• top and bottom stops
• command striker
To be combined with the GS1000-ML and GS1000-HD 100 versions for sashes weighing up to 100 kg.

Materials

Paintable plastic plugs
Command striker of zamak
Bottom limit stop striker of zamak and rubber
Top limit stop striker of steel and rubber
Stainless steel screws and bolts

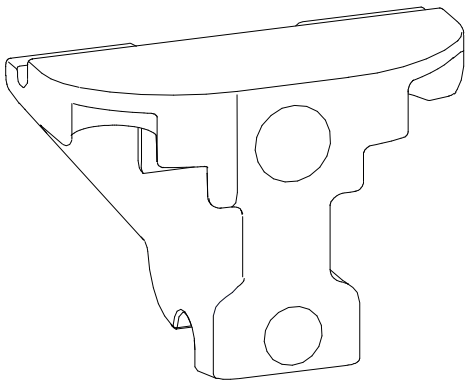
Plugs art. 09774



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09774	ACCESSORIES SET WITHOUT SIDE REINFORCEMENTS	-	-	X	-	X	-	-	X		X		1

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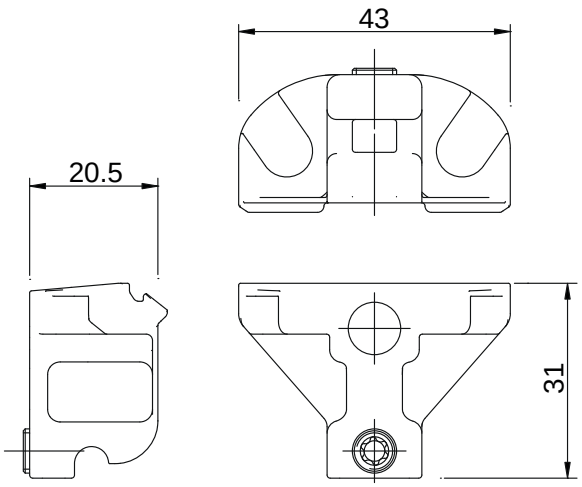
MOBILE STRIKER



Functions
Component for positioning the mobile sash for GS1000 tilt and slide systems.

Technical features
The mobile striker enables run-by of the sliding sash, for opening the secondary sash.
In configurations with an opening secondary sash, this striker replaces the fixed command striker supplied with the hardware set.
The pin with a spring keeps the striker in position and allows it to move in order to allow opening the secondary sash.
Installation can also be performed with a specific template.

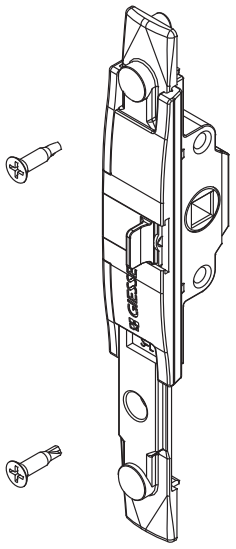
Materials
Zamak striker
Spring and pin of steel



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09790	MOBILE STRIKER	-	-	X	X	X	X	X			X		1

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WINDOW HANDLE MECHANISM



Functions

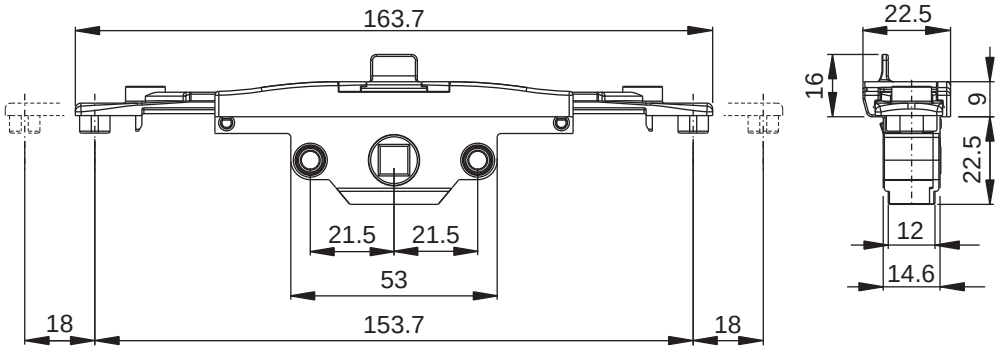
Specific one-way mechanism for GS1000-ML and GS1000-HL tilt and slide versions with window handle.

Technical features

Available in right and left versions, the mechanism must match the specific hardware set for the window handle (art. 09783).
The mechanism can be combined with all the window handles made by GIESSE, both of aluminium and brass (with 7 mm square pin).
The shim supplied, to be positioned inside the profile, between the mechanism and the window handle, enables perfect alignment of the parts.
The mechanism has an incorrect movement safety device integral with the mechanism and fixed pawls, already prepared for any additional locking points.

Materials

Rack, case, incorrect movement safety device slide, cover, mechanism and gear in die-cast zamak
Shims in black polyamide
Screws and spring of zinc-nickel plated steel



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09751	MECH. LH WINDOW HANDLE GS1000-ML/HL CE	-	-	X	X	-	-	-	X				1
09752	MECH. RH WINDOW HANDLE GS1000-ML/HL CE	-	-	X	X	-	-	-	X				1

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KORA WINDOW HANDLE



Functions

Window handle for manually operated GS1000 tilt-and-slide system.

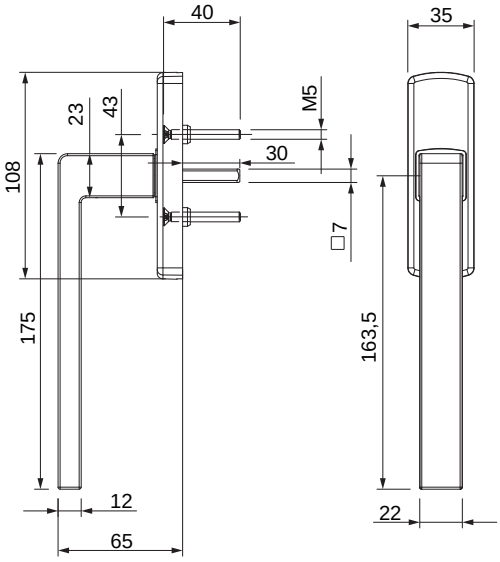
Technical features

Long window handle for manually operated tilt-and-slide system, ML and HL version.
10/7 mm square pin.
Fixing C/C distance 43 mm.
Operation with notches at 0°-90°-180°.
Can be combined with the tilt-and-slide mechanisms.

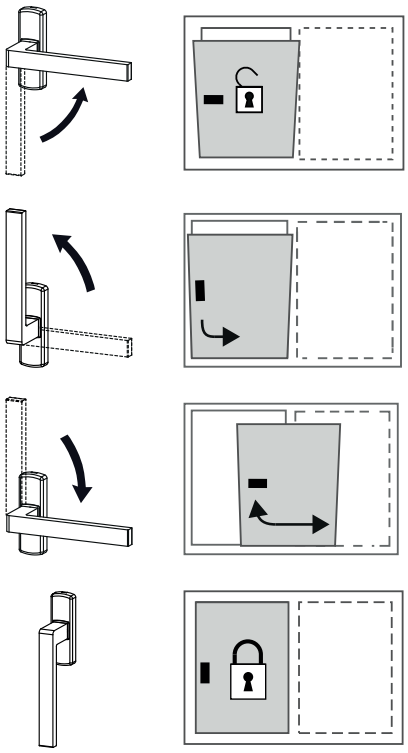
Materials

Aluminium handle and cover
Zamak case
Rotor made of zinc-plated steel
Trim ring made of acetal resin
Square pin 10/7 mm made of zinc-plated steel
Self-forming screw for fixing to the rotor made of zinc-plated steel
Fixing screws, zinc-coated steel

Overall dimensions



Operating scheme



Item code	Description	C/C distance (I)	Handle length (L)	Compatible with mecha-nisms	GS1000-ML	GS1000-HL	GS1000-HD100	GS1000-HD160	GS1000-HD200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0246601	WINDOW HANDLE KORA L175 GS1000	43 mm	175 mm	09751-09752-01062	X	X	-	-	-	X	X	X	X	5

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PRIMA WINDOW HANDLE



Functions

Window handle for manually operated GS1000 tilt-and-slide system.

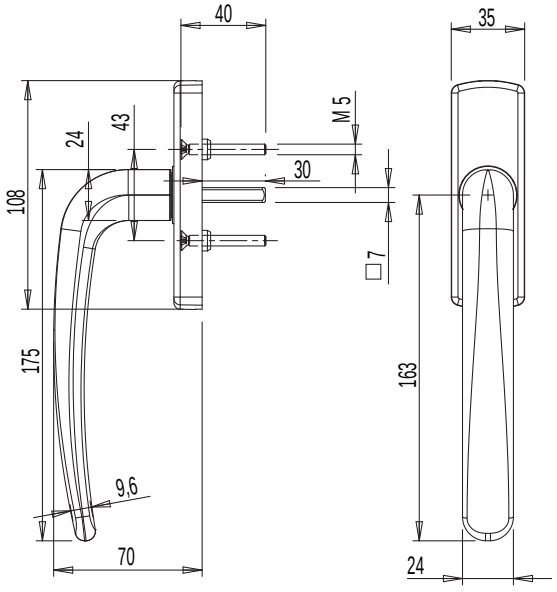
Technical features

Long window handle for manually operated tilt-and-slide system, ML and HL version.
10/7 mm square pin.
Fixing C/C distance 43 mm.
Operation with notches at 0°-90°-180°.
Can be combined with the tilt-and-slide mechanisms.

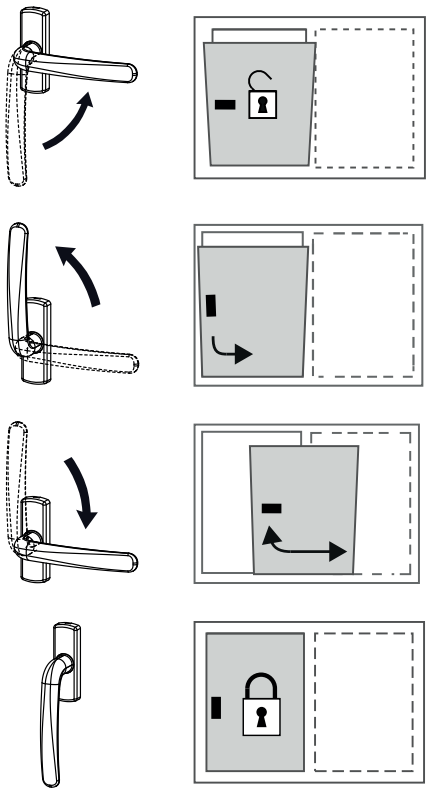
Materials

Aluminium handle and cover
Zamak case
Rotor made of zinc-plated steel
Trim ring made of acetal resin
Square pin 10/7 mm made of zinc-plated steel
Self-forming screw for fixing to the rotor made of zinc-plated steel
Fixing screws, zinc-coated steel

Overall dimensions



Operating scheme



Item code	Description	C/C distance (I)	Handle length (L)	Compatible with mecha-nisms	GS1000-ML	GS1000-HL	GS1000-HD100	GS1000-HD160	GS1000-HD200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0243501	PRIMA WINDOW HANDLE L175 GS1000	43 mm	175 mm	09751-09752-01062	X	X	-	-	-	X	X	X	X	5

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ASIA WINDOW HANDLE



Functions

Window handle for manually operated GS1000 tilt-and-slide system.

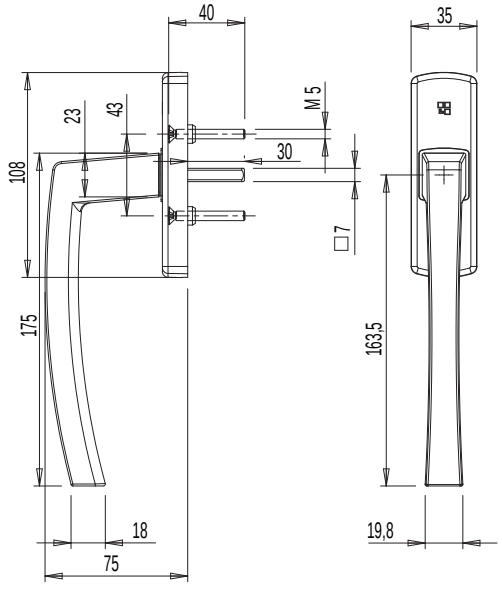
Technical features

Long window handle for manually operated tilt-and-slide system, ML and HL version.
10/7 mm square pin.
Fixing C/C distance 43 mm.
Operation with notches at 0°-90°-180°.
Can be combined with the tilt-and-slide mechanisms.

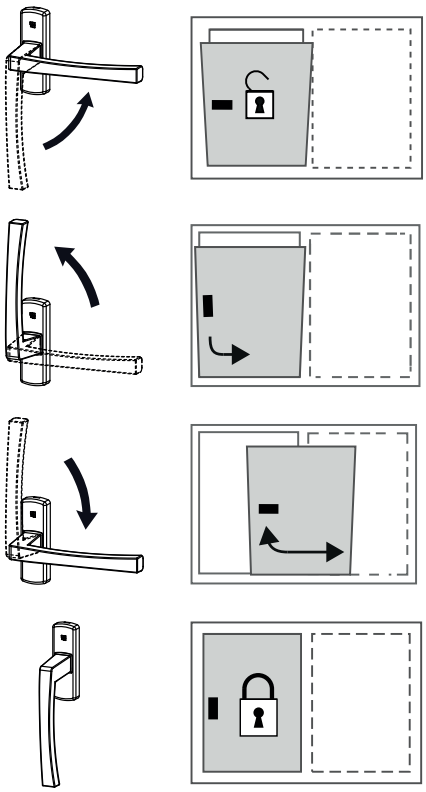
Materials

Aluminium handle and cover
Zamak case
Rotor made of zinc-plated steel
Trim ring made of acetal resin
Square pin 10/7 mm made of zinc-plated steel
Self-forming screw for fixing to the rotor made of zinc-plated steel
Fixing screws, zinc-coated steel

Overall dimensions



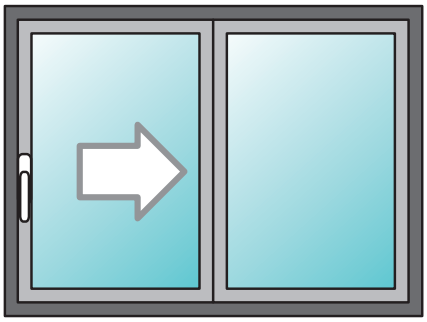
Operating scheme



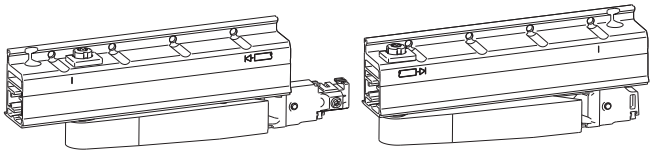
Item code	Description	C/C distance (I)	Handle length (L)	Compatible with mecha-nisms	GS1000-ML	GS1000-HL	GS1000-HD100	GS1000-HD160	GS1000-HD200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0244301	ASIA WINDOW HANDLE L175 GS1000	43 mm	175 mm	09751-09752-01062	X	X	-	-	-	X	X	X	X	5

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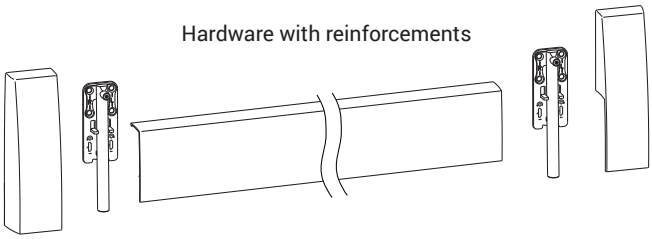
GS1000-HL



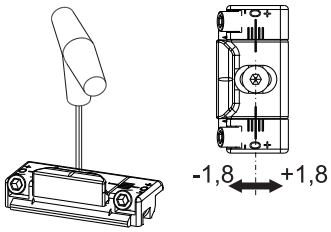
Single pulleys



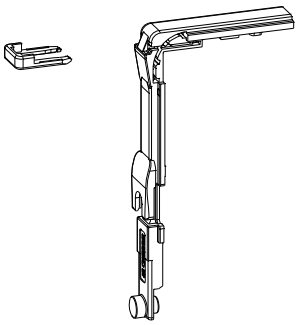
Hardware with reinforcements



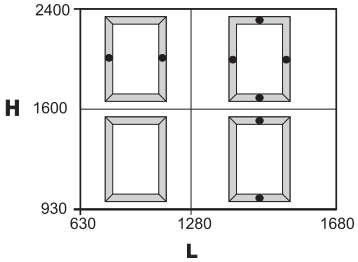
Adjustable strikers



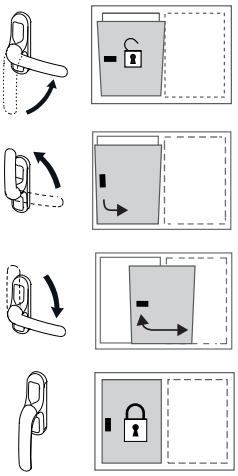
Futura corner drive



GS1000 HL Additional locking points



Operating scheme



GS1000-HL TILT AND SLIDE

Functions

Tilt and slide system with manual operation using standard cremone or window handle.
For applications with sashes weighing up to 160 kg.
Available for Euro groove and R40 profiles.

Technical Features

GS1000-HL is ideal for large windows.
Enables making sashes of large dimensions and weights up to 160 kg.
Uses single pulleys with machined side plugs and reinforcements.
GS1000-HL can be made in these configurations:
• for Euro groove with cremone/window handle
• for R40 with cremone/window handle depending on the specific hardware set you choose.
GS1000-HL uses the Giesse Futura tilt-and-turn fastening mechanism with the Giesse polyamide rod.
The hardware components are pre-assembled and are attached to the profile by interlocking or with contrast grubscrews, without any specific machining.
The Euro groove hardware set uses adjustable strikers (± 1.8 mm), while the R40 hardware set has adjustable pawls (± 1.2 mm), to optimize the perimeter pressure of the sash.
It is possible to add up to four additional locking points, depending on the size of the sash, to improve the air/water seal.
On both versions it is possible to add burglar-proof devices along the perimeter of the sash, except for R40 configurations.

Automatic catch

GS1000-HL features the automatic catch system (*) installed at the bottom of the sash.
This device facilitates closing the sash that, when put in the closed position, automatically locks in the tilt position.
Turning the cremone from 180° (sliding position) to 90° (tilt position) and putting the sash into the closed position engages the sash in the tilt position.
To close the sash simply move it against the frame and turn the cremone down a further 90° to 0° (closed).

(*) not available in the configuration for R40

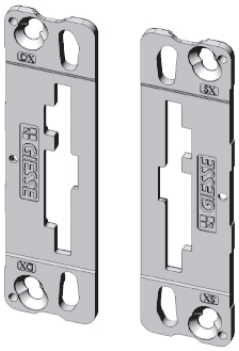
"LOGICA" opening mechanism

GS1000-HL uses the LOGICA opening system (**) whereby operating the cremone produces first tilt opening and then slide opening.
Taking the cremone to 90° operates tilt opening and turning it to 180° operates slide opening.
To engage the automatic catch, the cremone must be turned back to 90° and the sash closed against the frame.

(**) excluding the version for R40 in which there is first sliding opening then tilt-and-turn opening

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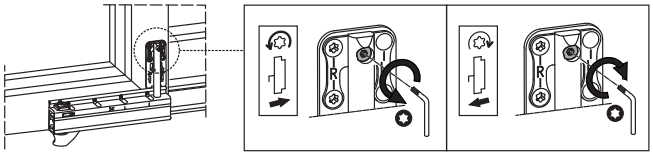
Incorrect movement safety device plates



Incorrect movement safety device

The "incorrect movement safety device" prevents incorrect cremone operation when opening and closing the sash, avoiding malfunctioning or damage to the casement.
In the cremone configuration, the incorrect movement safety feature is obtained by replacing the plate supplied with the standard cremone with one of the two plates (left/right) included in the cremone hardware set.
In this way the cremone can turn from 180° to 90° to allow automatic engagement, but it cannot turn from 90° to 0° if the sash is not tilted close, so as to prevent accidental impact of the strikers and pawls.
In the window handle configuration, the mechanism itself (available in right- and left-hand versions) is fitted with an incorrect movement safety device that prevents operating the cremone from 90° to 0° with the sash sliding open.

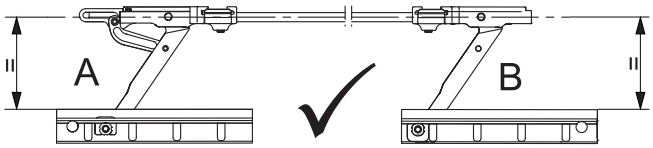
Adjustment of the side reinforcements



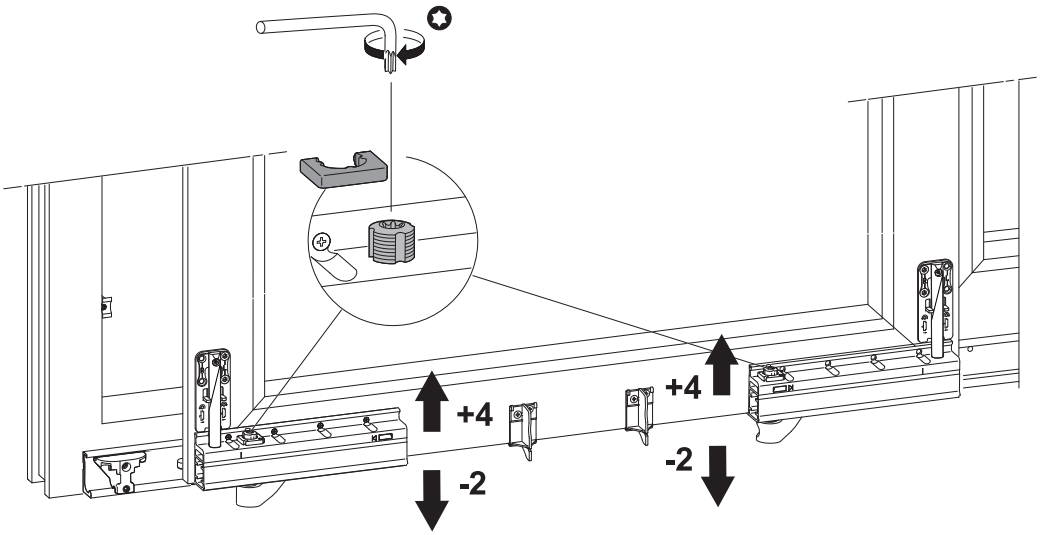
Correct positioning of the sash

To improve the overall alignment of the sash with the frame, there are several adjustments:
• height adjustment of the sash via the pulleys (-2/+4 mm)
• side adjustment via the command striker
• adjustment of the side reinforcements to improve the sash out and return phase
• adjustment of the sash-frame parallelism

Sash-frame parallelism

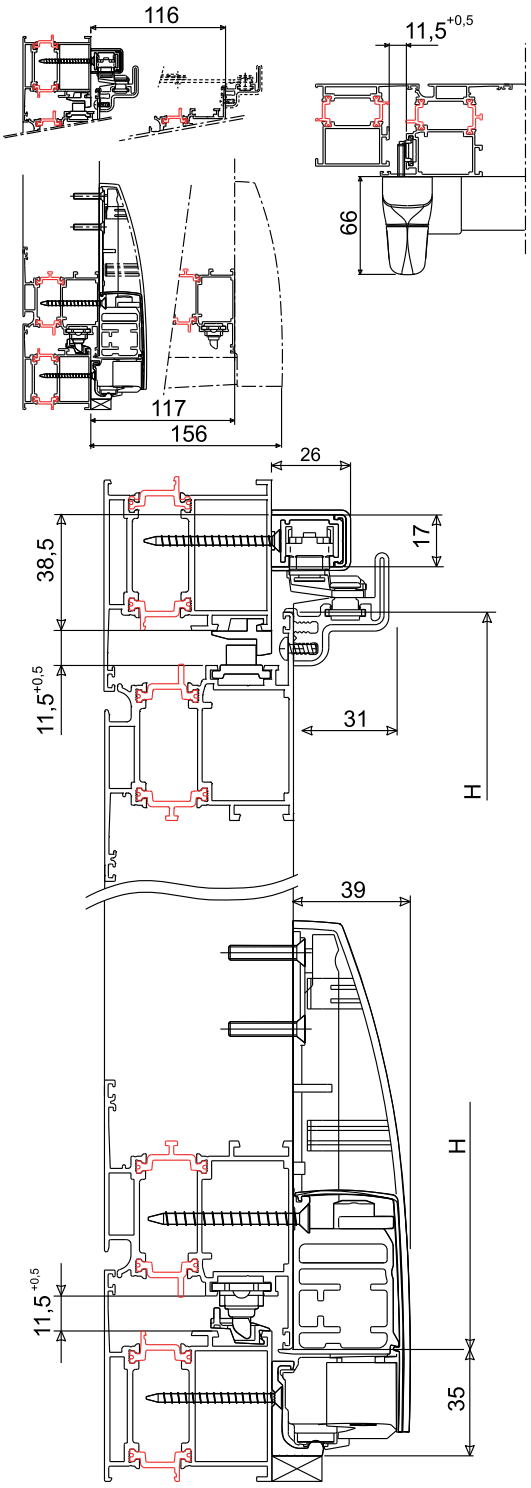


Height adjustment



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Application section



GS1000-HL range of use

Applications on aluminium doors and windows
Sash weight (kg) = max 160 kg
Sash width (W) = 630 to 1680 mm
Sash height (H) = 930 to 2400 mm

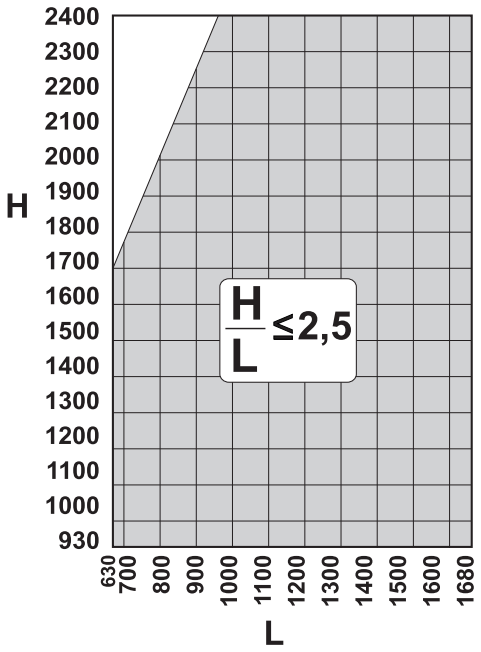
Minimum required dimensions

Bottom rail = 35 mm
Top rail = 38.5 mm
Bottom rail depth = 17 mm
Step >= 7 mm
Sash depth D:
<= 87 mm check not required
> 87 mm do only after technical verification (return trajectory and sash centre of gravity)

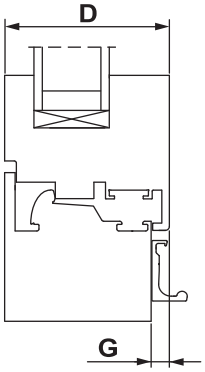
Important note

The H/L ratio <= 2.5 given in the scheme is binding and must not be exceeded.
In all cases, refer to the profile manufacturer's instructions and comply with the requirements.
Take the due precautions to avoid straining the mechanism in specific sites such as hotels, schools, kindergartens, etc.

Range of use



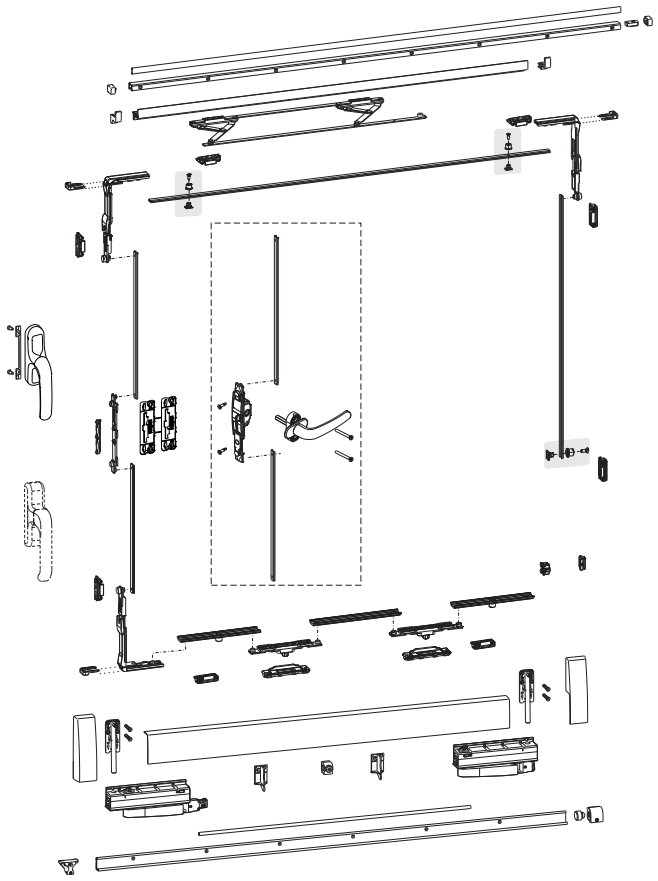
G = step
D = sash depth



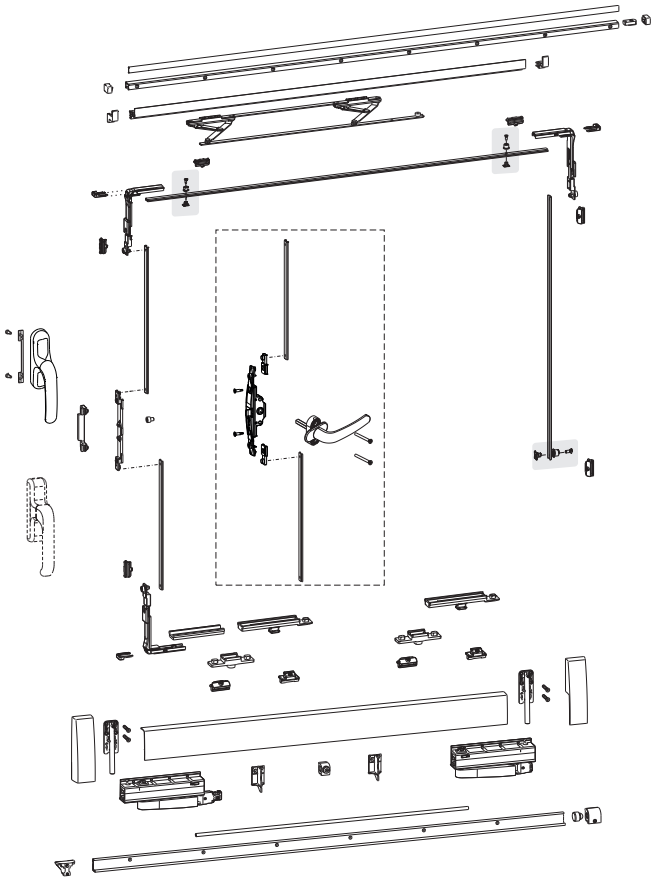
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A typical GS1000-HL configuration consists of:
• single pulley set
• hardware set available in the Euro groove version for cremones, in the Euro groove version for window handles and in the R40 version for cremones and window handles
• stay arm
• profile set
• accessories set with side reinforcements
• cremone/window handle
• mobile control (in the case of an opening secondary sash)
• support block for pulley connection rod (for sashes of width >1480 mm)

Scheme for GS1000-HL Euro groove profile with cremone/window handle

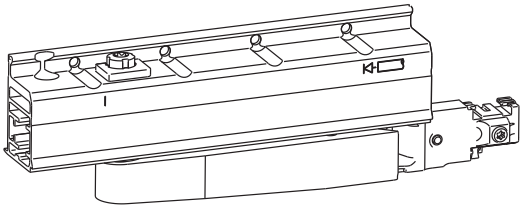


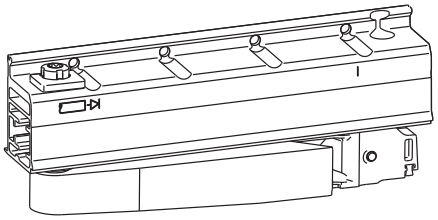
Scheme for GS1000-HL R40 profile with cremone/window handle



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SINGLE PULLEYS





Functions

Single pulleys for GS1000 tilt and slide system.

Technical features

Single pulleys to be used for making windows with the following tilt and slide versions:

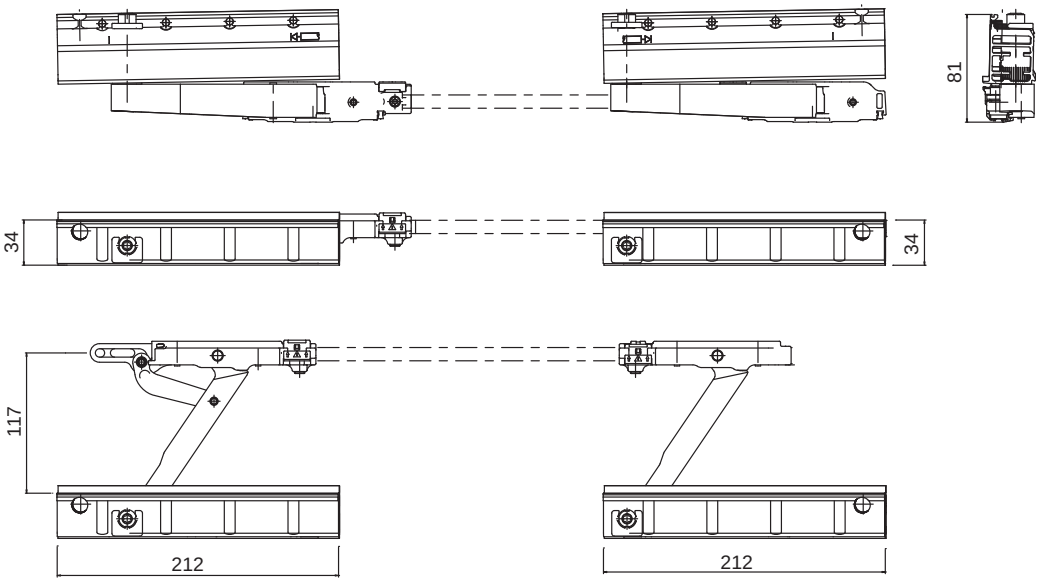
- GS1000-ML
- GS1000-HL
- GS1000-HD 100
- GS1000-HD 160

The set of single pulleys consists of a primary pulley, which controls sash return and a secondary pulley, available in right-hand and left-hand versions.
The opening of the arm of the pulleys allows the sash to come out from the frame by 117 mm.
Applicable on profiles with a step greater than or equal to 7 mm.
Both pulleys are designed for use with side reinforcements that improve the seal of the profile (sold separately in the hardware set).
Using the pulleys it is possible to adjust the height of the sash (-2/+4 mm) and the parallelism between the sash and frame.
The machining on the profile for installing pulleys can be done with a specific drilling template.
Fixing to the profile is done with self-threading screws.
The pulleys are supplied with 2 supports for the bottom guard and the screws and bolts for fixing the pulleys and the set of rails.

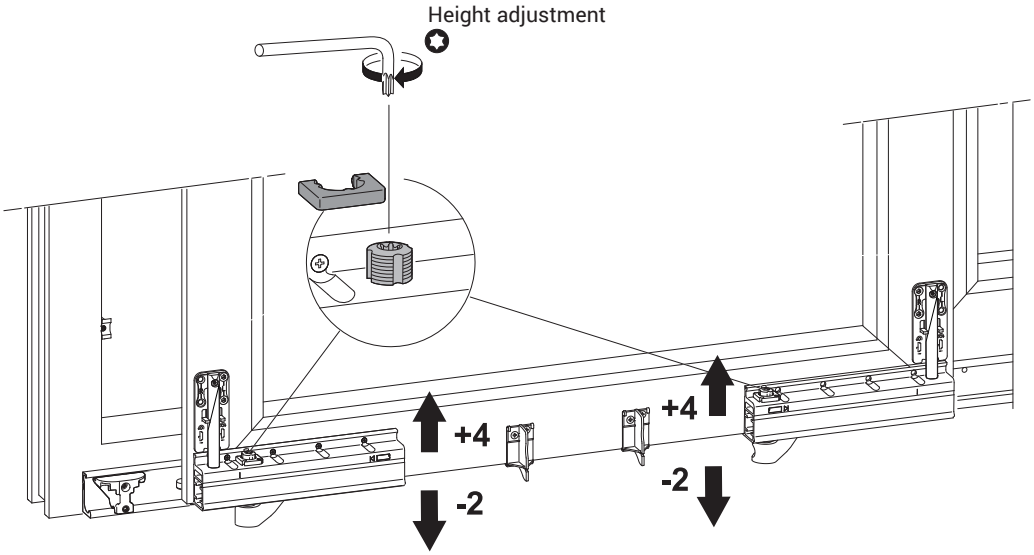
Materials

Body and opening levers of aluminium
Wheel support of zamak
Polyamide wheels
Bottom guard supports of polyamide
Screws and pins of stainless steel

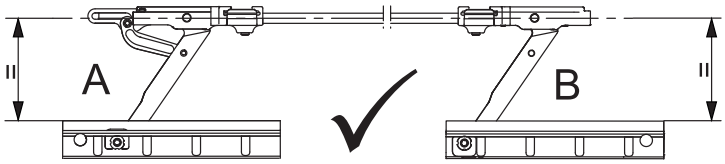
Single pulleys



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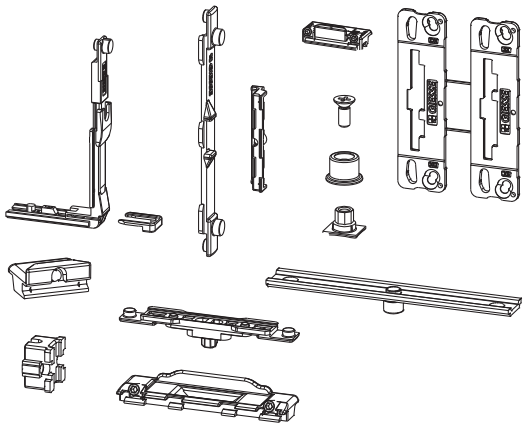
Sash-frame parallelism



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09776	SET OF RH SINGLE PULLEYS	-	-	X	X	X	X	-	X				1
09777	SET OF LH SINGLE PULLEYS	-	-	X	X	X	X	-	X				1

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GS1000-ML AND GS1000-HL HARDWARE



Functions

Complete fastener system for making GS1000 tilt and slide type windows with manual control.
Available in versions for Euro groove for cremone and window handle and the version for R40.

Technical features

The fastening system uses the Futura tilt-and-turn fastening mechanism with a polyamide rod and LOGICA opening (*) with which operating the cremone produces first tilt opening, then slide opening.
The Euro groove hardware set uses fixed pawls and adjustable strikers (± 1.8 mm) with which you can optimize the perimeter pressure of the sash.
The R40 hardware set instead has fixed strikers and adjustable pawls (± 1.2 mm).
The hardware components are pre-assembled and are attached to the profile with contrast grubscrews, without any specific machining.
It is possible to add up to four additional locking points, depending on the size of the sash.

The hardware set consists of:
• no. 3 corner drives to transmit the motion between the uprights and cross-beams, to be secured to the profile with interlocking clips
• no. 1 cremone drive rod + no.1 incorrect movement safety striker (not included in the window handle hardware set)
• no. 8 locking points (pawls + strikers)
• no. 2 spring latches + strikers for the automatic locking system (not available in the version for R40)
• no. 2 connection rods with fastening mechanism pawl
• no. 1 lift-proof system (block + striker)
• no. 2 incorrect movement safety plates for cremones (1 right + 1 left) to replace the one supplied with the standard cremone
• no. 1 sticker for correct system operation

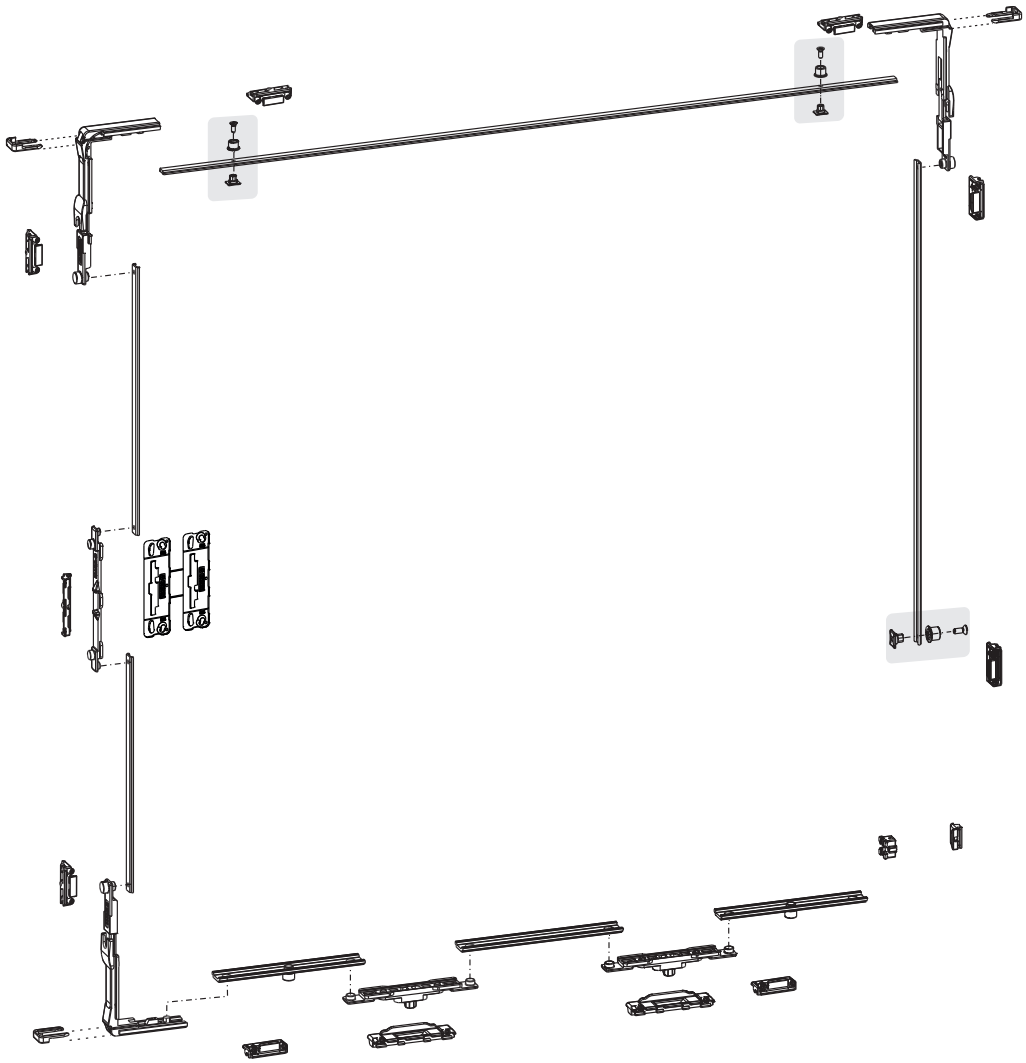
(*) excluding the configuration for R40

Materials

Drives, drive rod, strikers and pawls of zamak
Automatic catch strikers of zamak
Brass spring latches
Lift-proof striker + block of zamak
Polyamide connection rods
Polyamide incorrect movement safety device plates
Stainless steel mounting grubscrews

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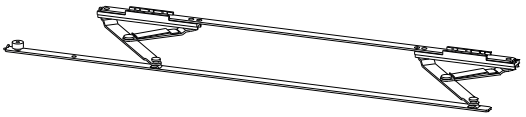
GS1000ML-HL hardware set



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09780	GS1000-ML/HL HARDWARE SET	-	C001-C002-C003-C005	X	X	-	-	-	X				1
09783	GS1000-ML/HL WINDOW HANDLE HARDWARE SET	-	C001	X	X	-	-	-	X				1
09758	GS1000 R40 HARDWARE SET	-	C007	X	X	-	-	-	X				1

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GS1000-ML/GS1000-HL ARMS



Functions

Stay arms for GS1000-ML and GS1000-HL tilt-and-slide system.

Technical features

The arms allow tilt-and-turn opening of the sash in conjunction with the fastening mechanisms.
They are available in three sizes to choose from according to the width of the sliding sash:
• for sashes of width 630-980 mm
• for sashes of width 981-1280 mm
• for sashes of width 1281-1680 mm

Materials

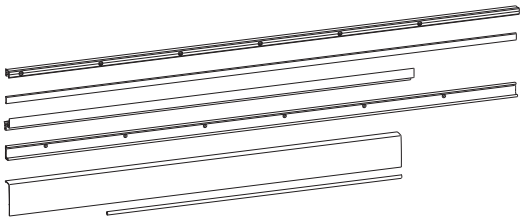
Steel arms
Sliders of nylon



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09723	630-930 WIDTH STAY ARM	630÷930	-	X	X	X	-	-	X				1
09724	931-1280 WIDTH STAY ARM	931÷1280	-	X	X	X	-	-	X				1
09725	1281-1680 WIDTH STAY ARM	1281÷1680	-	X	X	X	-	-	X				1

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PROFILES SET



Functions

Profiles with the function of supporting and guiding in the phase of operating the sliding sash and with the function of a stylish cover for the GS1000 tilt and slide system.

Technical features

Each set of profiles consists of:

- top guards and track
- bottom guards and track
- screw protection plug
- pulley connection rod

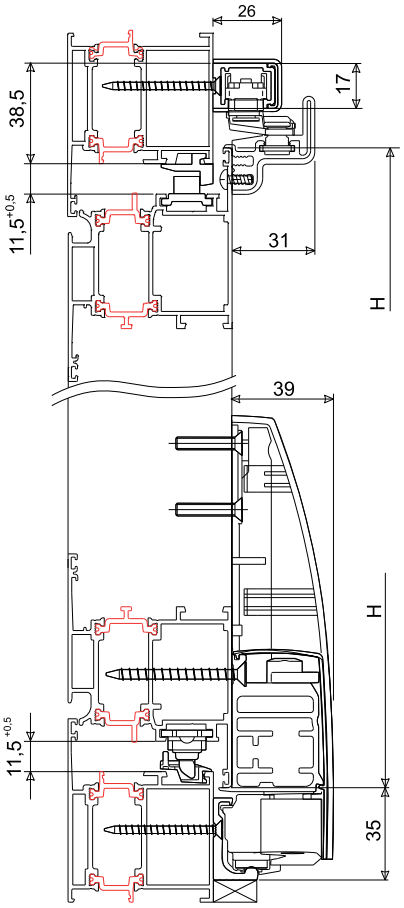
The profiles set is available in various sizes, depending on the width of the sash to be constructed.
The bottom rail always has an anodised, silver or black finish.
The fixing of the profiles is by means of self-threading screws (supplied with the set of pulleys).
There are specific templates for the installation of the various profiles.

Materials

Rails and covers made of extruded aluminium
PVC screw cover rod (*)
Steel connection rod

(*) Available in the basic finishes of white, black and grey, combined with the various profile set finishes.

Application section



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09761	630-880 PROFILES SET	630÷880	-	X	X	X	X	-	X	X	X		1
09762	881-1080 PROFILES SET	881÷1080	-	X	X	X	X	-	X	X	X		1
09763	1081-1280 PROFILES SET	1081÷1280	-	X	X	X	X	X	X	X	X		1
09764	1281-1480 PROFILES SET	1281÷1480	-	X	X	X	X	X	X	X	X		1
09765	1481-1680 PROFILES SET	1481÷1680	-	-	X	-	X	X	X	X	X		1
09768	TOP RAIL L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09769	BOTTOM RAIL L=6000 mm	-	-	X	X	X	X	X	X	X			1
09770	TOP GUARD L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09771	BOTTOM GUARD L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09772	PVC SCREW COVER L=6000 mm	-	-	X	X	X	X	X	X				1
09773	PULLEY CONNECTION ROD L=4000 mm	-	-	X	X	X	X	X	X				1

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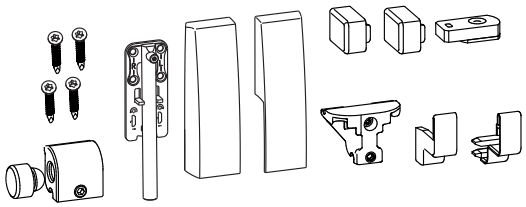
ACCESSORIES SET WITH SIDE REINFORCEMENTS

Functions

Components for covering and completing the GS1000 tilt and slide system.

Technical features

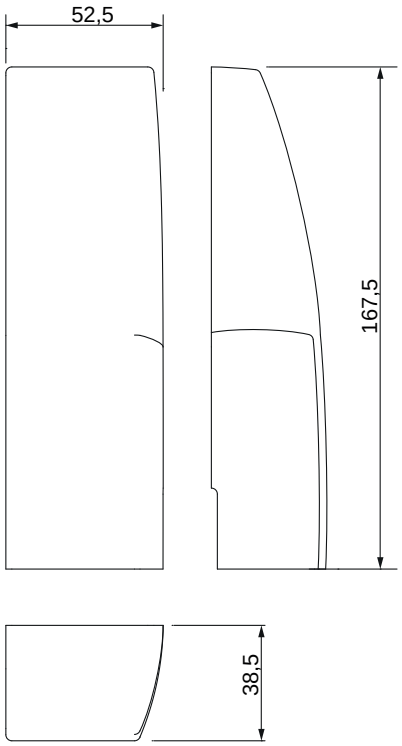
Accessories set with side reinforcements consists of:
• side reinforcements for pulleys
• machined side protective caps that can be painted as needed
• protective caps for guards
• top and bottom stops
• command striker
To be combined with the GS1000-HL, GS1000-HD 160 and GS1000-HD 200 versions for sashes weighing over 100 kg.



Materials

Paintable plastic plugs
Steel reinforcements
Command striker of zamak
Bottom limit stop striker of zamak and rubber
Top limit stop striker of steel and rubber
Stainless steel screws and bolts

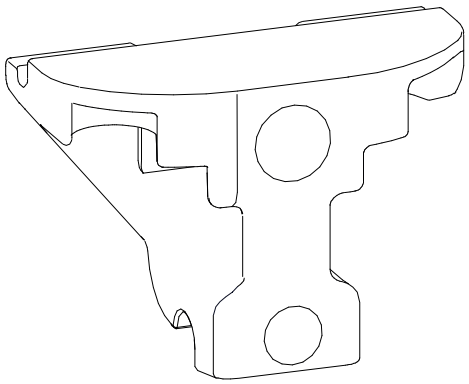
Plugs art. 09775



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09775	ACCESSORIES SET WITH SIDE REINFORCEMENTS	-	-	-	X	-	X	X	X		X		1

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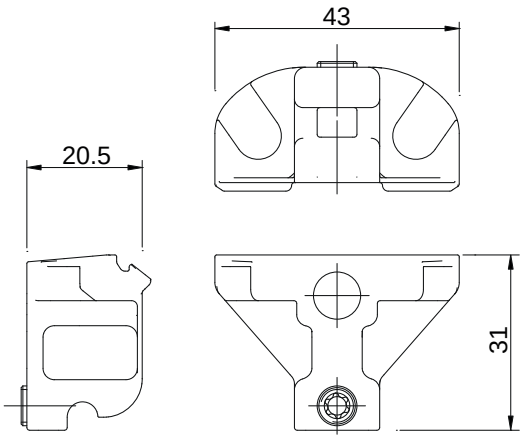
MOBILE STRIKER



Functions
Component for positioning the mobile sash for GS1000 tilt and slide systems.

Technical features
The mobile striker enables run-by of the sliding sash, for opening the secondary sash.
In configurations with an opening secondary sash, this striker replaces the fixed command striker supplied with the hardware set.
The pin with a spring keeps the striker in position and allows it to move in order to allow opening the secondary sash.
Installation can also be performed with a specific template.

Materials
Zamak striker
Spring and pin of steel



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09790	MOBILE STRIKER	-	-	X	X	X	X	X			X		1

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SUPPORT BLOCK

Functions

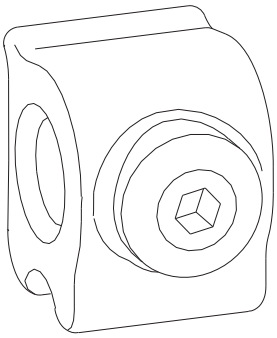
Component for supporting the pulley connection rod.
For all GS1000 tilt and slide system versions.

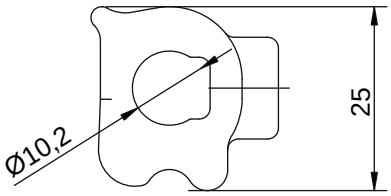
Technical features

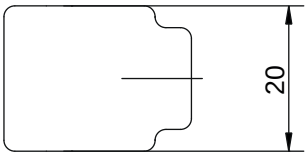
The support block is used for sash widths > 1480 mm in order to make the connection rod between the two pulleys more stable.

Materials

Nylon block
Steel mounting grubscrew



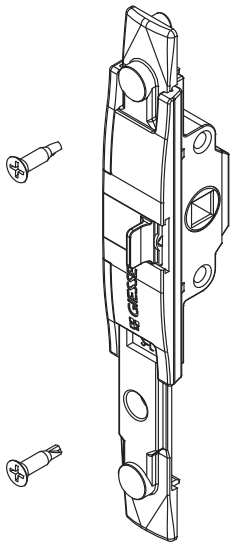




Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09789	SUPPORT BLOCK	-	-	-	X	X	X	X	X				1

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WINDOW HANDLE MECHANISM



Functions

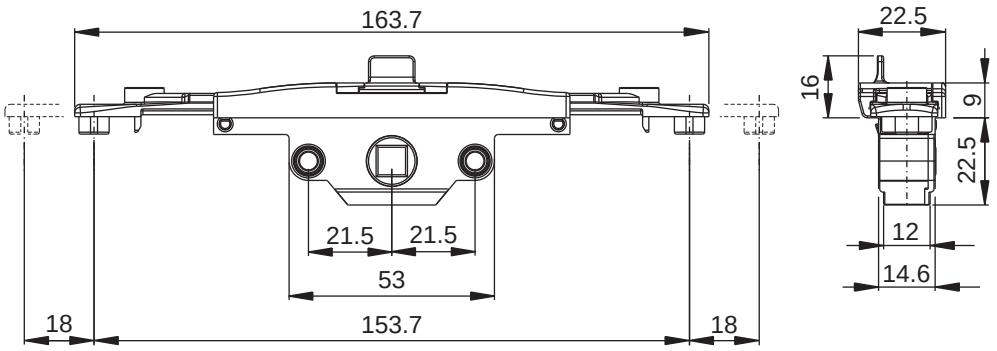
Specific one-way mechanism for GS1000-ML and GS1000-HL tilt and slide versions with window handle.

Technical features

Available in right and left versions, the mechanism must match the specific hardware set for the window handle (art. 09783).
The mechanism can be combined with all the window handles made by GIESSE, both of aluminium and brass (with 7 mm square pin).
The shim supplied, to be positioned inside the profile, between the mechanism and the window handle, enables perfect alignment of the parts.
The mechanism has an incorrect movement safety device integral with the mechanism and fixed pawls, already prepared for any additional locking points.

Materials

Rack, case, incorrect movement safety device slide, cover, mechanism and gear in die-cast zamak
Shims in black polyamide
Screws and spring of zinc-nickel plated steel



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09751	MECH. LH WINDOW HANDLE GS1000-ML/HL CE	-	-	X	X	-	-	-	X				1
09752	MECH. RH WINDOW HANDLE GS1000-ML/HL CE	-	-	X	X	-	-	-	X				1

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KORA WINDOW HANDLE



Functions

Window handle for manually operated GS1000 tilt-and-slide system.

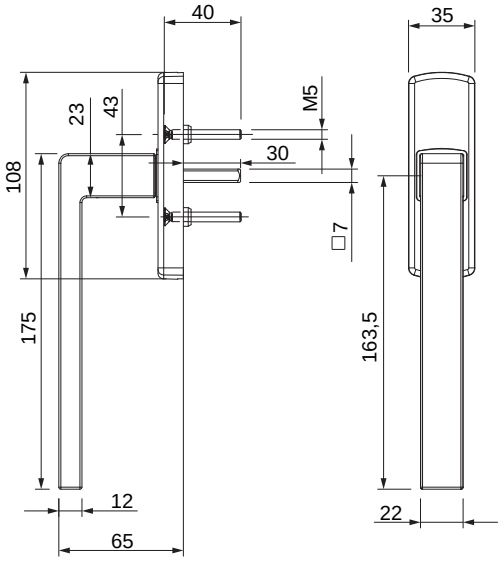
Technical features

Long window handle for manually operated tilt-and-slide system, ML and HL version.
10/7 mm square pin.
Fixing C/C distance 43 mm.
Operation with notches at 0°-90°-180°.
Can be combined with the tilt-and-slide mechanisms.

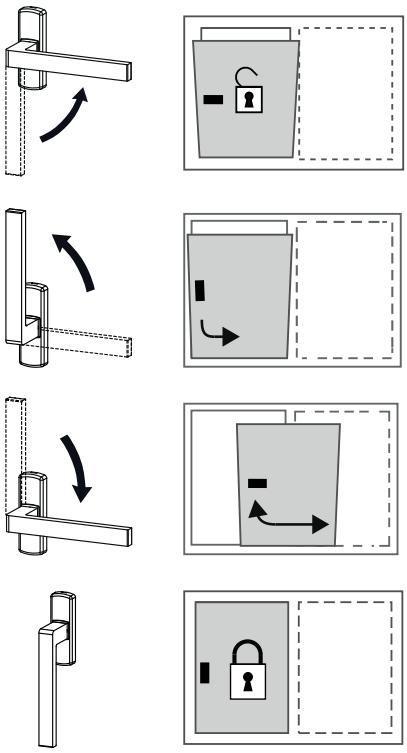
Materials

Aluminium handle and cover
Zamak case
Rotor made of zinc-plated steel
Trim ring made of acetal resin
Square pin 10/7 mm made of zinc-plated steel
Self-forming screw for fixing to the rotor made of zinc-plated steel
Fixing screws, zinc-coated steel

Overall dimensions



Operating scheme



Item code	Description	C/C distance (I)	Handle length (L)	Compatible with mecha-nisms	GS1000-ML	GS1000-HL	GS1000-HD100	GS1000-HD160	GS1000-HD200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0246601	WINDOW HANDLE KORA L175 GS1000	43 mm	175 mm	09751-09752-01062	X	X	-	-	-	X	X	X	X	5

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PRIMA WINDOW HANDLE



Functions

Window handle for manually operated GS1000 tilt-and-slide system.

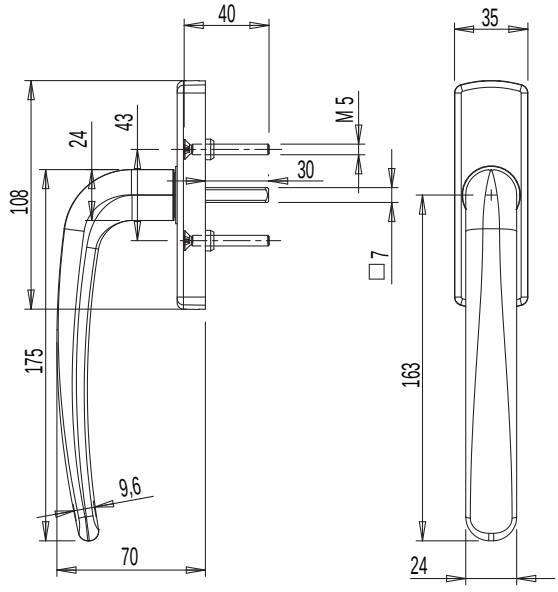
Technical features

Long window handle for manually operated tilt-and-slide system, ML and HL version.
10/7 mm square pin.
Fixing C/C distance 43 mm.
Operation with notches at 0°-90°-180°.
Can be combined with the tilt-and-slide mechanisms.

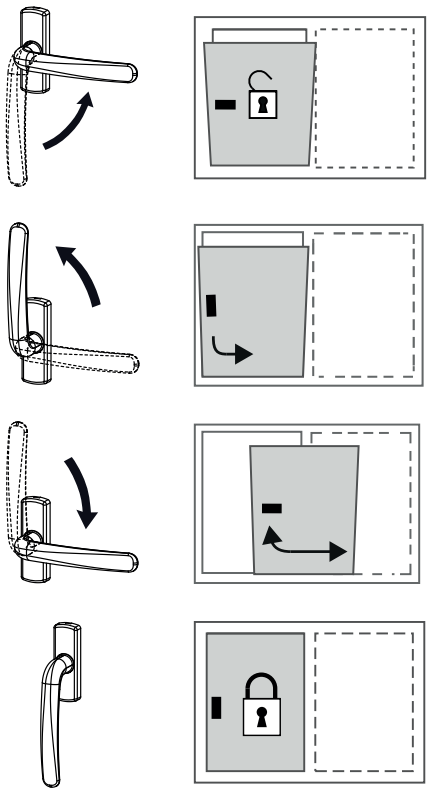
Materials

Aluminium handle and cover
Zamak case
Rotor made of zinc-plated steel
Trim ring made of acetal resin
Square pin 10/7 mm made of zinc-plated steel
Self-forming screw for fixing to the rotor made of zinc-plated steel
Fixing screws, zinc-coated steel

Overall dimensions



Operating scheme



Item code	Description	C/C distance (I)	Handle length (L)	Compatible with mecha-nisms	GS1000-ML	GS1000-HL	GS1000-HD100	GS1000-HD160	GS1000-HD200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0243501	PRIMA WINDOW HANDLE L175 GS1000	43 mm	175 mm	09751-09752-01062	X	X	-	-	-	X	X	X	X	5

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ASIA WINDOW HANDLE



Functions

Window handle for manually operated GS1000 tilt-and-slide system.

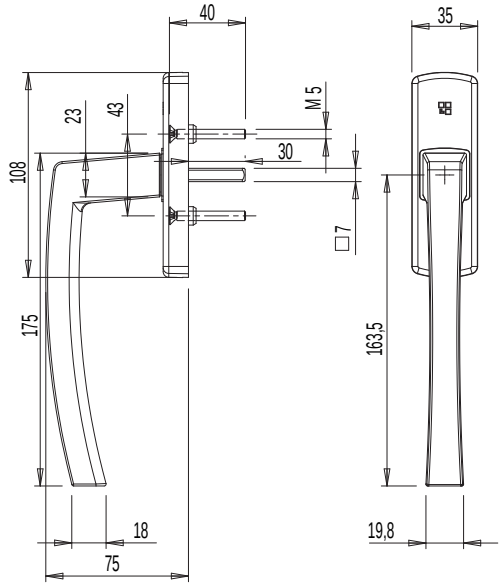
Technical features

Long window handle for manually operated tilt-and-slide system, ML and HL version.
10/7 mm square pin.
Fixing C/C distance 43 mm.
Operation with notches at 0°-90°-180°.
Can be combined with the tilt-and-slide mechanisms.

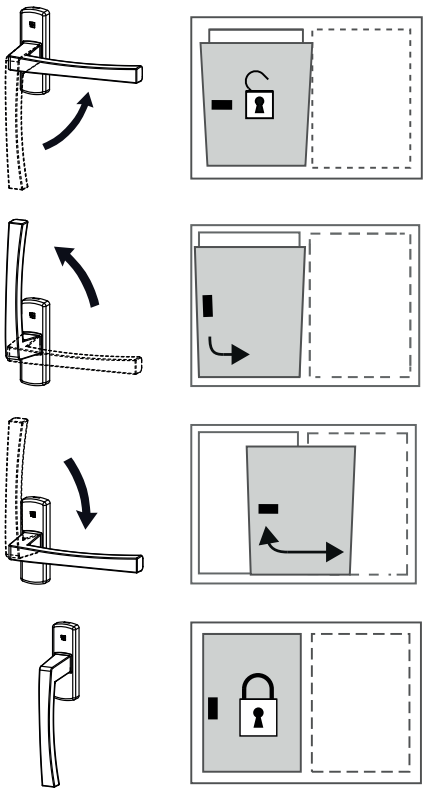
Materials

Aluminium handle and cover
Zamak case
Rotor made of zinc-plated steel
Trim ring made of acetal resin
Square pin 10/7 mm made of zinc-plated steel
Self-forming screw for fixing to the rotor made of zinc-plated steel
Fixing screws, zinc-coated steel

Overall dimensions



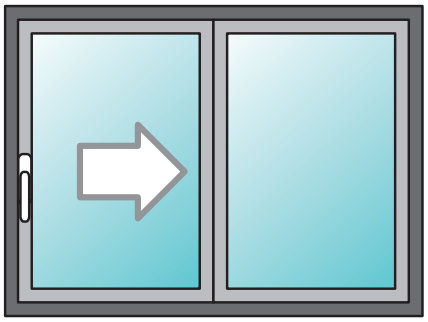
Operating scheme



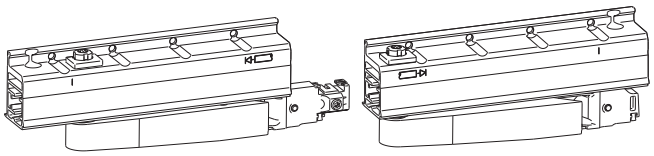
Item code	Description	C/C distance (I)	Handle length (L)	Compatible with mecha-nisms	GS1000-ML	GS1000-HL	GS1000-HD100	GS1000-HD160	GS1000-HD200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0244301	ASIA WINDOW HANDLE L175 GS1000	43 mm	175 mm	09751-09752-01062	X	X	-	-	-	X	X	X	X	5

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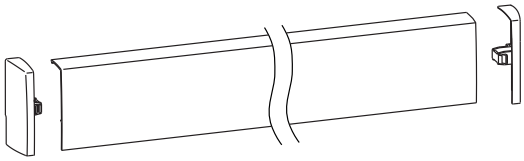
GS1000-HD100



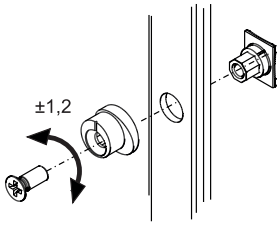
Single pulleys



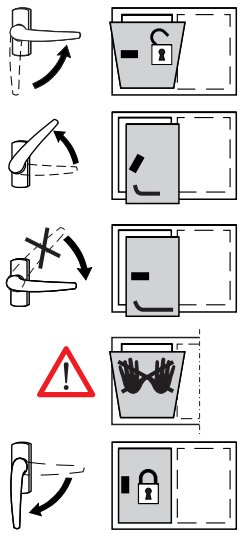
Hardware without reinforcements



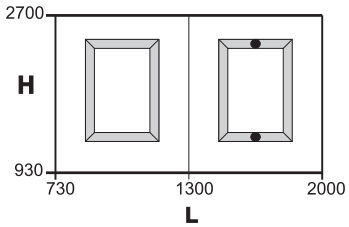
Adjustable pawl



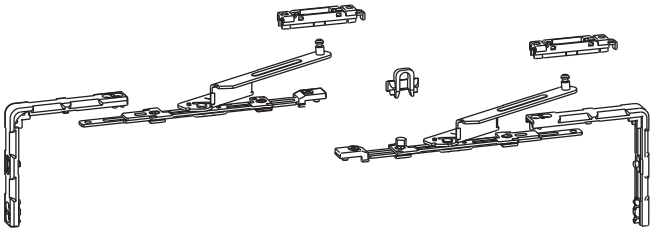
Operating scheme



Additional locking points



Fastening mechanisms



GS1000-HD 100 TILT AND SLIDE

Functions

Tilt and slide system with semi-automatic forced control operation that allows closing the sash with just one hand, by operating the long-handled cremone.
For applications with sashes weighing up to 100 kg.
Available for Euro groove profiles.

Technical Features

GS1000-HD 100 is ideal for light sashes of up to 100 kg in weight, for those who want semi-automatic operation.
Uses single pulleys without flat side plugs and reinforcements.
GS1000 HD-100 is available in the configuration for the Euro groove profile and uses special fastening mechanisms specifically designed for aluminium.
All the hardware components are equipped with Torx fixing screws.
The hardware set uses fixed lock strikers and compression adjustable lock pawls (±1.2 mm), with which you can optimize the perimeter pressure of the sash.
It is possible to add up to two additional locking points on the top and bottom cross-beams, depending on the size of the sash, to improve the air/water seal.

Automatic catch

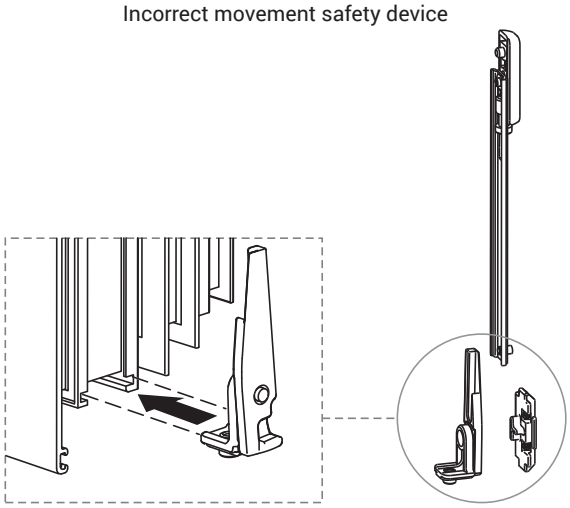
GS1000-HD 100 features the automatic catch system installed at the bottom of the sash.
This device facilitates closing the sash that, when put in the closed position, automatically locks in the tilt position. Turning the cremone from 135° (sliding position) to 90° (tilt position) and putting the sash into the closed position engages the sash in the tilt position.
To close the sash, simply rotate the cremone to 0° (closed).
The forced control device will close the sash automatically.

"LOGICA" opening mechanism

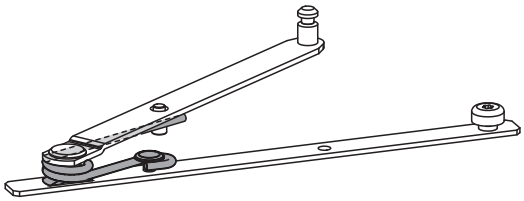
GS1000-HD 100 uses the LOGICA opening system whereby operating the cremone produces first tilt opening and then slide opening.
Taking the cremone to 90° operates tilt opening and turning it to 135° operates slide opening.
To engage the automatic catch, the cremone must be turned back to 90° and the sash closed against the frame.

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Incorrect movement safety device



Additional arm



Incorrect movement safety device

The new incorrect movement safety device for the forced control version allows operating the cremone only when the sash is hooked onto the frame, protecting the hardware against damage in the event of improper use.
The device also prevents the sash from lifting.
Ideal for installation in conditions of high frequency opening and with occasional users (hotels, public buildings).
It cannot be used in the case of an opening secondary sash.
Sold separately.

Additional arm

Using the additional arm, thanks to the special spring, facilitates opening the sash in the case of heavy weights.
The arm is to be installed for sashes weighing more than 160 kg or weighing more than 100 kg and sash profile width > 75 mm.
Sold separately.

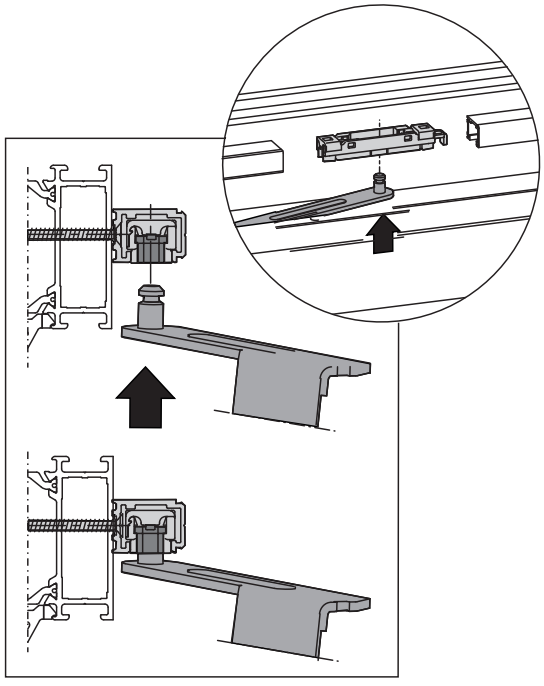
Stay arm catch

The system for coupling the opening arms and the sliders guarantees perfect coupling between the sash and the frame.
The correct positioning of the steel insert ensures that the arms and sliders are linked together.

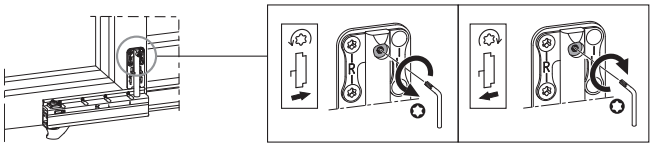
Correct positioning of the sash

To improve the overall alignment of the sash with the frame, there are several adjustments
• height adjustment of the sash via the pulleys (-2/+4 mm)
• side adjustment via the command striker
• adjustment of the side reinforcements to improve the sash out and return phase
• adjustment of the sash-frame parallelism with pulleys and arms

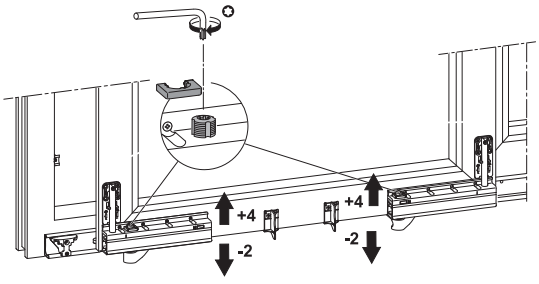
Stay arm catch



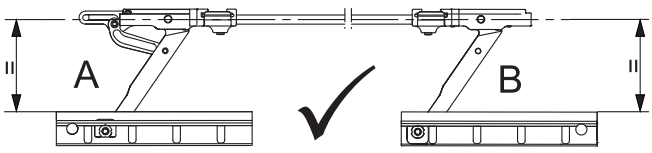
Adjustment of the side reinforcements



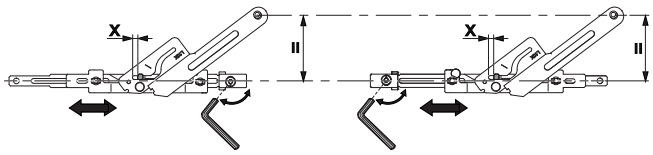
Height adjustment



Sash-frame parallelism

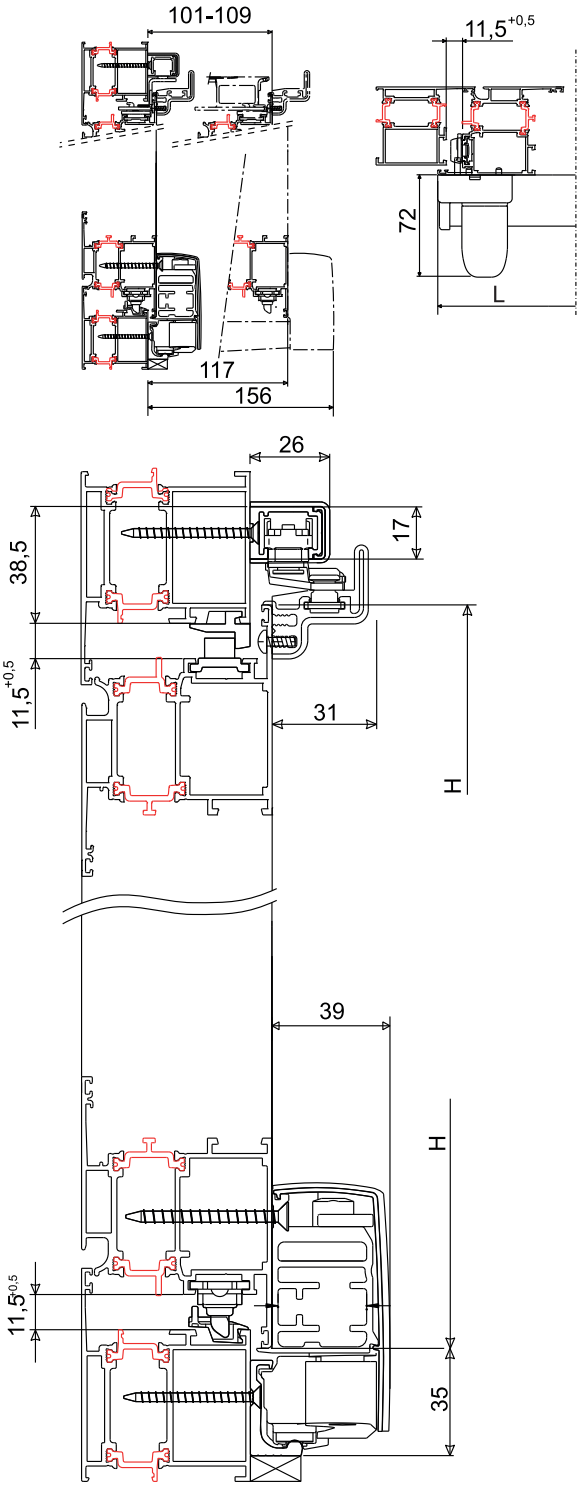


Sash-frame parallelism with arms



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Application section



GS1000-HD 100 range of use

Applications on aluminium doors and windows
Sash weight (kg) = max 100 kg
Sash width (W) = 730 to 1300 mm
Sash height (H) = 930 to 2400 mm

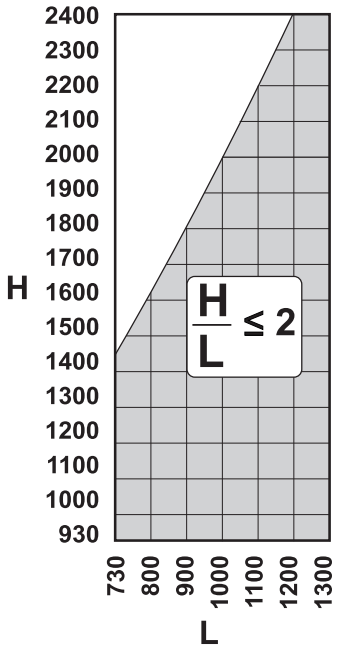
Minimum required dimensions

Bottom rail = 35 mm
Top rail = 38.5 mm
Bottom rail depth = 17 mm
Step >= 7 mm
Sash depth D:
<= 87 mm check not required
> 87 mm do only after technical verification (return trajectory and sash centre of gravity)

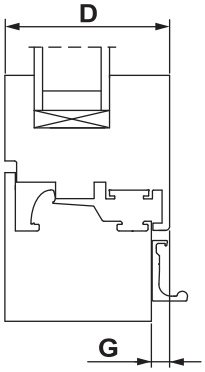
Important note

The H/L ratio <= 2 given in the scheme is binding and must not be exceeded.
In all cases, refer to the profile manufacturer's instructions and comply with the requirements.
Take the due precautions to avoid straining the mechanism in specific sites such as hotels, schools, kindergartens, etc.

Range of use



G = step
D = sash depth

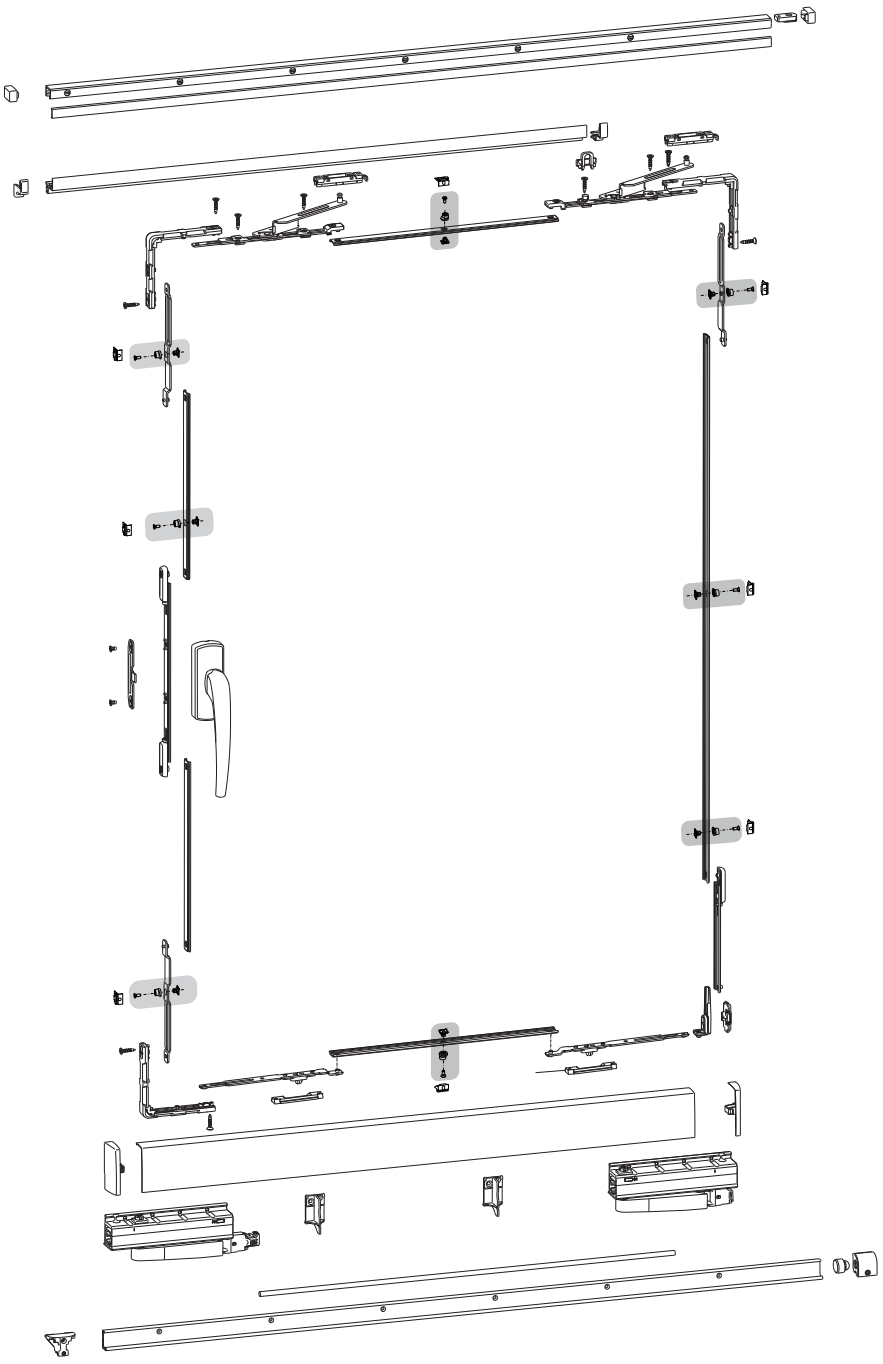


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GS1000 TILT AND SLIDE
GS1000-HD 100 TILT AND SLIDE

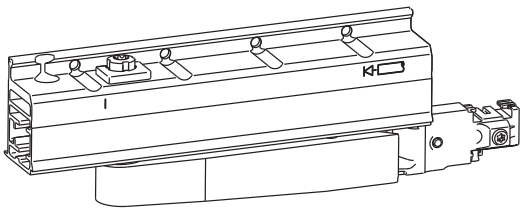
A typical GS1000-HD 100 configuration consists of:
- single pulley set
- special hardware set for Euro groove profile
- profile set
- accessories set without side reinforcements
- fastening striker set
- cremone with long handle (in the version with and without a key)
- incorrect movement safety device that prevents incorrect operation of the sash
- mobile control (in the case of an opening secondary sash)
- support block for pulley connection rod (for sashes of width >1480 mm)

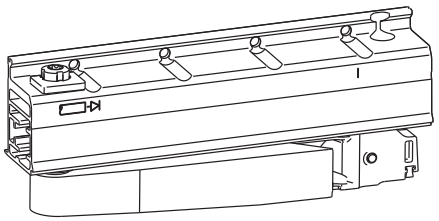
Scheme for GS1000-HD 100 Euro groove profile



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SINGLE PULLEYS





Functions

Single pulleys for GS1000 tilt and slide system.

Technical features

Single pulleys to be used for making windows with the following tilt and slide versions:

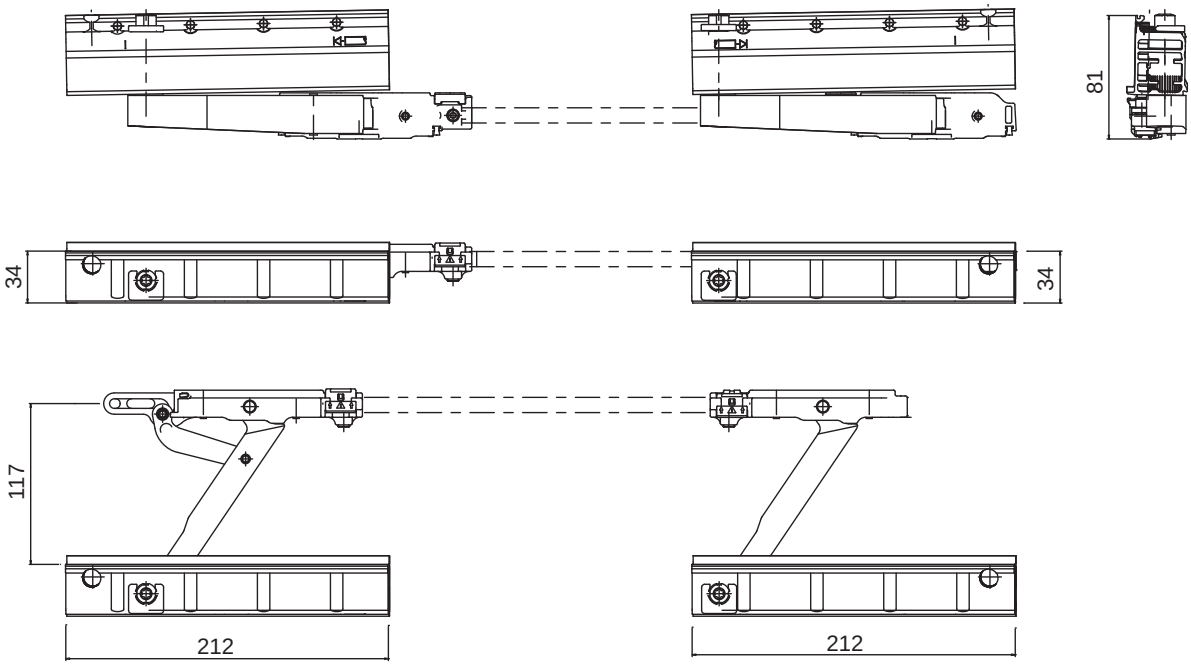
- GS1000-ML
- GS1000-HL
- GS1000-HD 100
- GS1000-HD 160

The set of single pulleys consists of a primary pulley, which controls sash return and a secondary pulley, available in right-hand and left-hand versions.
The opening of the arm of the pulleys allows the sash to come out from the frame by 117 mm.
Applicable on profiles with a step greater than or equal to 7 mm.
Both pulleys are designed for use with side reinforcements that improve the seal of the profile (sold separately in the hardware set).
Using the pulleys it is possible to adjust the height of the sash (-2/+4 mm) and the parallelism between the sash and frame.
The machining on the profile for installing pulleys can be done with a specific drilling template.
Fixing to the profile is done with self-threading screws.
The pulleys are supplied with 2 supports for the bottom guard and the screws and bolts for fixing the pulleys and the set of rails.

Materials

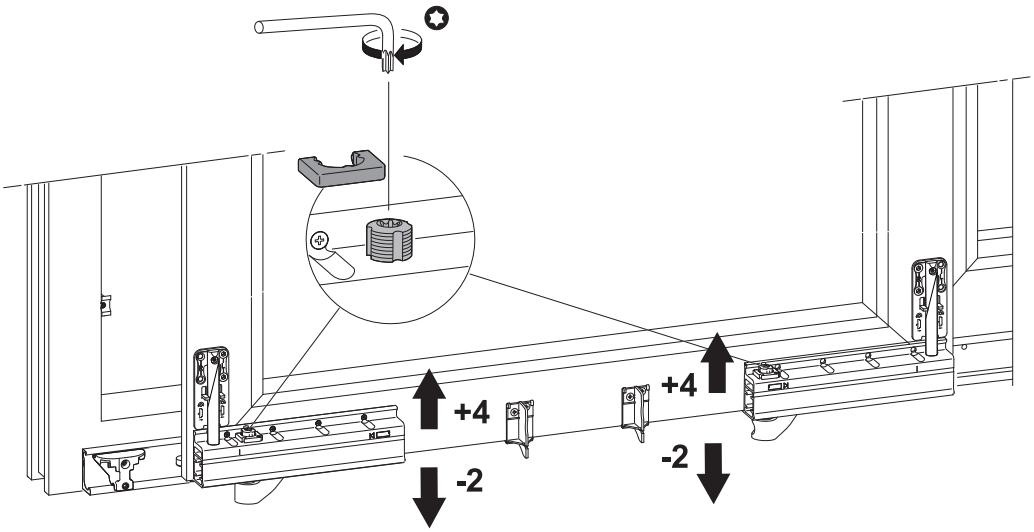
Body and opening levers of aluminium
Wheel support of zamak
Polyamide wheels
Bottom guard supports of polyamide
Screws and pins of stainless steel

Single pulleys

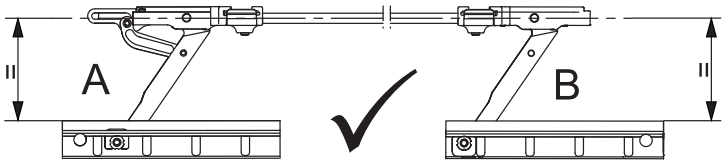


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Height adjustment



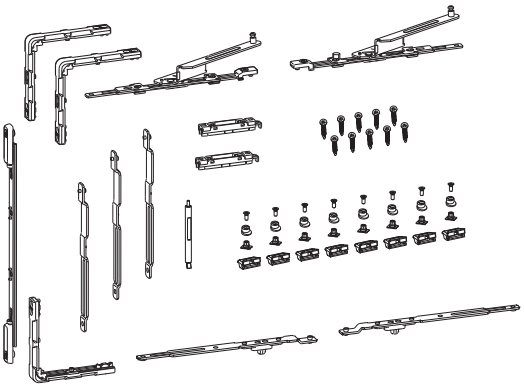
Sash-frame parallelism



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09776	SET OF RH SINGLE PULLEYS	-	-	X	X	X	X	-	X				1
09777	SET OF LH SINGLE PULLEYS	-	-	X	X	X	X	-	X				1

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GS1000-HD HARDWARE



Functions

Complete fastener system for making GS1000 tilt and slide type windows with forced control.
Available in version for Euro groove.

Technical features

The fastening system uses the special fastening mechanism with LOGICA opening with which operating the cremone produces first tilt opening and then slide opening.
The particular shape of the arms of the special hardware allows semi-automatic return of the sash into the bottom-hung opening position and into the closing position.
The hardware set uses fixed strikers and adjustable pawls (±1.2 mm) to optimize the perimeter pressure of the sash.
The hardware components are pre-assembled and are attached to the profile with Torx screws.
It is possible to add up to two additional locking points, depending on the size of the sash.

The hardware set consists of:
• no. 3 corner drives to transmit the motion between the uprights and cross-beams, to be secured to the profile with Torx screws
• no. 1 cremone drive rod
• no. 2 opening arms + sliders
• no. 2 spring latches (matching the set of strikers sold separately)
• no. 3 fastening mechanism rods
• no. 8 locking points (adjustable pawls + fixed strikers)
• no. 1 sticker for correct system operation
• no. 1 arm and pulley release device

Materials

Drive rod of aluminium and zamak
Zamak drives
Opening arms and spring latches made of steel
Steel fastening rods
Sliders of polyamide and steel
Strikers and pawls of zamak
Steel screws

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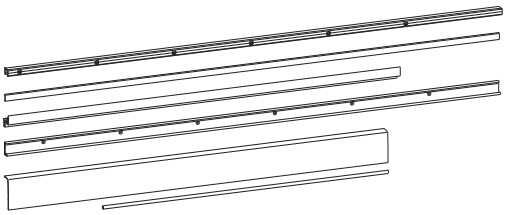
GS1000 HD hardware set



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09781	GS1000-HD LH HARDWARE SET	-	C001-C002-C003-C005	-	-	X	X	X	X				1
09782	GS1000-HD RH HARDWARE SET	-	C001-C002-C003-C005	-	-	X	X	X	X				1

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PROFILES SET



Functions

Profiles with the function of supporting and guiding in the phase of operating the sliding sash and with the function of a stylish cover for the GS1000 tilt and slide system.

Technical features

Each set of profiles consists of:

- top guards and track
- bottom guards and track
- screw protection plug
- pulley connection rod

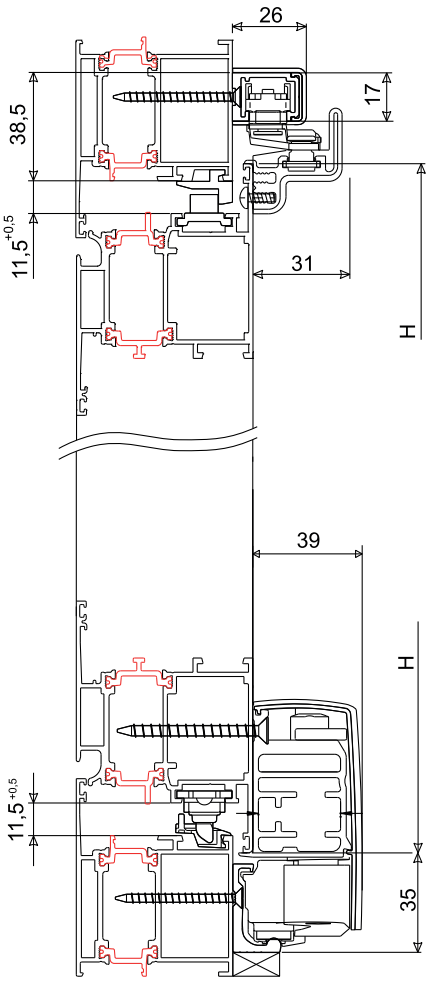
The profiles set is available in various sizes, depending on the width of the sash to be constructed.
The bottom rail always has an anodised, silver or black finish.
The fixing of the profiles is by means of self-threading screws (supplied with the set of pulleys).
There are specific templates for the installation of the various profiles.

Materials

Rails and covers made of extruded aluminium
PVC screw cover rod (*)
Steel connection rod

(*) Available in the basic finishes of white, black and grey, combined with the various profile set finishes.

Application section



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09761	630-880 PROFILES SET	630÷880	-	X	X	X	X	-	X	X	X		1
09762	881-1080 PROFILES SET	881÷1080	-	X	X	X	X	-	X	X	X		1
09763	1081-1280 PROFILES SET	1081÷1280	-	X	X	X	X	X	X	X	X		1
09764	1281-1480 PROFILES SET	1281÷1480	-	X	X	X	X	X	X	X	X		1
09768	TOP RAIL L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09769	BOTTOM RAIL L=6000 mm	-	-	X	X	X	X	X	X	X			1
09770	TOP GUARD L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09771	BOTTOM GUARD L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09772	PVC SCREW COVER L=6000 mm	-	-	X	X	X	X	X	X				1
09773	PULLEY CONNECTION ROD L=4000 mm	-	-	X	X	X	X	X	X				1

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ACCESSORIES SET WITHOUT SIDE REINFORCEMENTS

Functions

Components for covering and completing the GS1000 tilt and slide system.

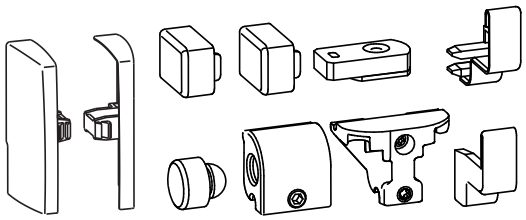
Technical features

Accessories set without side reinforcements consists of:
- flat side protective caps that can be painted as needed
- protective caps for guards
- top and bottom stops
- command striker

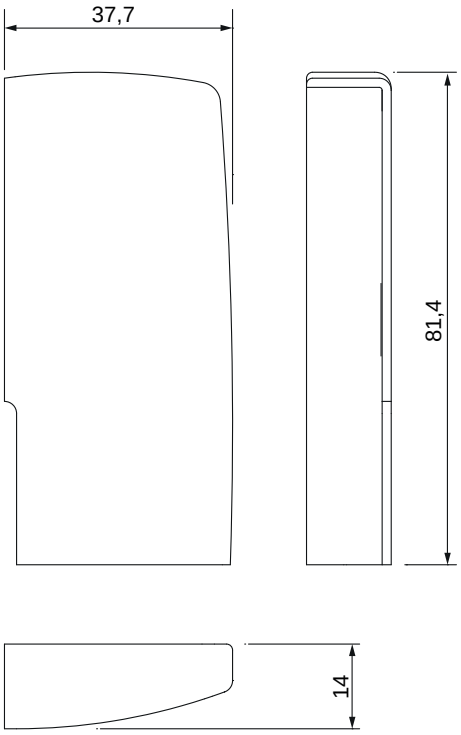
To be combined with the GS1000-ML and GS1000-HD 100 versions for sashes weighing up to 100 kg.

Materials

Paintable plastic plugs
Command striker of zamak
Bottom limit stop striker of zamak and rubber
Top limit stop striker of steel and rubber
Stainless steel screws and bolts



Plugs art. 09774



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09774	ACCESSORIES SET WITHOUT SIDE REINFORCEMENTS	-	-	X	-	X	-	-	X		X		1

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SET OF STRIKERS

Functions

Lock strikers for the spring latches of the automatic catch system of the GS1000-HD tilt and slide system.

Technical features

The set of strikers is available in four versions depending on the frame channel and consists of:
• no. 2 strikers for spring latches to secure to the frame channel with contrast grubscrews
• no. 1 sash centring striker

Materials

Automatic catch strikers of zamak
Sash centring striker of polyamide

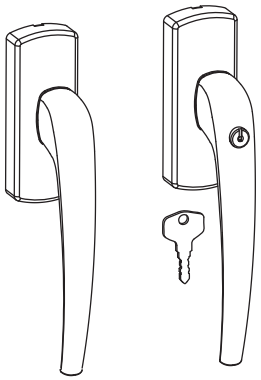




Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09785	SET OF STRIKERS E.G. 10-14	-	C003	-	-	X	X	X	X				1
09786	SET OF STRIKERS E.G. 12-15	-	C005	-	-	X	X	X	X				1
09787	SET OF STRIKERS E.G. 13.5-16.8	-	C002	-	-	X	X	X	X				1
09788	SET OF STRIKERS E.G. 14-18	-	C001-C004	-	-	X	X	X	X				1

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CREMONES FOR GS1000-HD



Functions

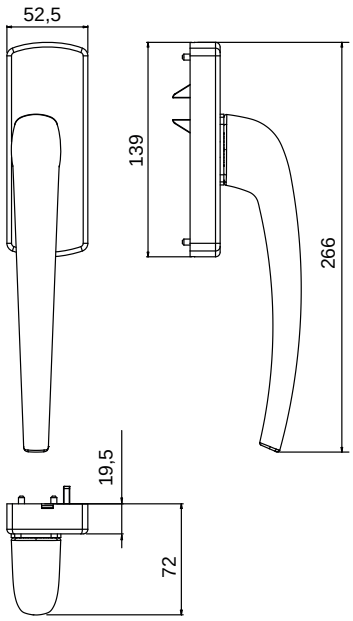
Right and left cremone versions, with and without key, specific for the GS1000-HD tilt and slide system with forced control.

Technical features

Long-handled cremone with specially designed internal mechanism to make it easier to operate sashes weighing up to 200 kg.
The special long-handled cremone consists of:
• cremone
• cover
• component connecting to the drive rod

Materials

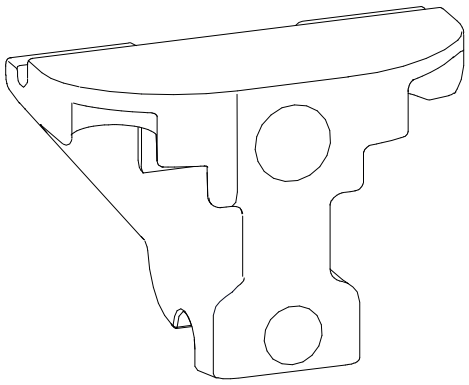
Handle in die-cast aluminium
Case and rack made of zamak
Aluminium cover
Steel screws and bolts



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09736N	GS1000-HD RH CREMONE	-	-	-	-	X	X	X	X	X	X		1
09737N	GS1000-HD LH CREMONE	-	-	-	-	X	X	X	X	X	X		1
09738N	GS1000-HD RH CREMONE WITH KEY	-	-	-	-	X	X	X		X	X		1
09739N	GS1000-HD LH CREMONE WITH KEY	-	-	-	-	X	X	X		X	X		1

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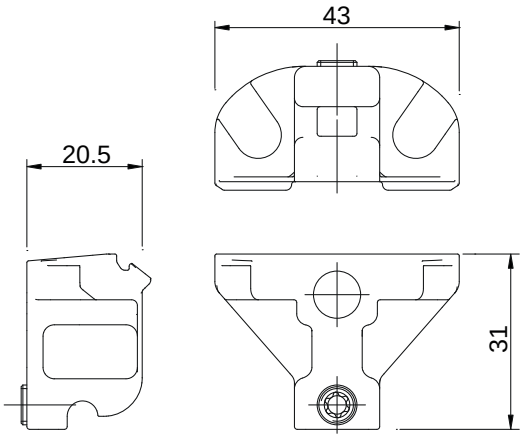
MOBILE STRIKER



Functions
Component for positioning the mobile sash for GS1000 tilt and slide systems.

Technical features
The mobile striker enables run-by of the sliding sash, for opening the secondary sash.
In configurations with an opening secondary sash, this striker replaces the fixed command striker supplied with the hardware set.
The pin with a spring keeps the striker in position and allows it to move in order to allow opening the secondary sash.
Installation can also be performed with a specific template.

Materials
Zamak striker
Spring and pin of steel



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09790	MOBILE STRIKER	-	-	X	X	X	X	X			X		1

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SUPPORT BLOCK

Functions

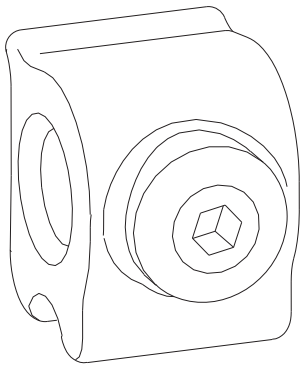
Component for supporting the pulley connection rod.
For all GS1000 tilt and slide system versions.

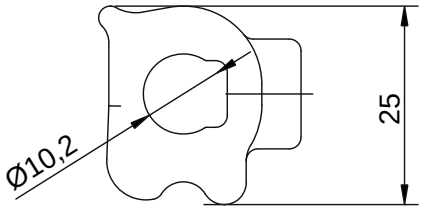
Technical features

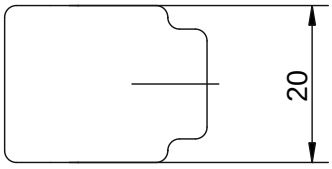
The support block is used for sash widths > 1480 mm in order to make the connection rod between the two pulleys more stable.

Materials

Nylon block
Steel mounting grubscrew



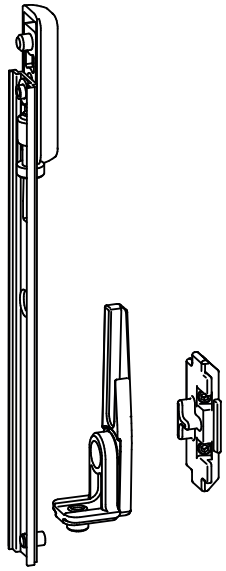




Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09789	SUPPORT BLOCK	-	-	-	X	X	X	X	X				1

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INCORRECT MOVEMENT SAFETY DEVICE



Functions

Incorrect movement safety device for the GS1000-HD version of the GS1000 tilt and slide system with forced control, which prevents damage to the hardware in the event of incorrect operation.

Technical features

The incorrect movement safety device enables operating the special long-handled cremone only when the sash is attached to the frame.
The device also prevents the sash from lifting.
Available in two versions, opening to the left or right, depending on the frame channel.

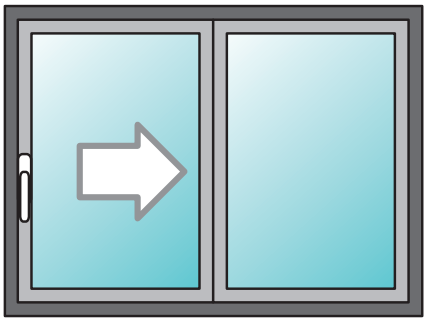
Materials

Incorrect movement safety device made of zamak
Stainless steel grub screws

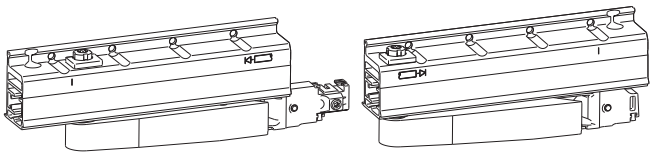
Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09791	GS1000-HD 14/18 LH INCORRECT MOVEMENT SAFETY DEVICE SET	-	C001-C002-C004-C005	-	-	X	X	X	X				1
09792	GS1000-HD 14/18 RH INCORRECT MOVEMENT SAFETY DEVICE SET	-	C001-C002-C004-C005	-	-	X	X	X	X				1
09793	GS1000-HD CE LH INCORRECT MOVEMENT SAFETY DEVICE SET	-	C003	-	-	X	X	X	X				1
09794	GS1000-HD CE RH INCORRECT MOVEMENT SAFETY DEVICE SET	-	C003	-	-	X	X	X	X				1

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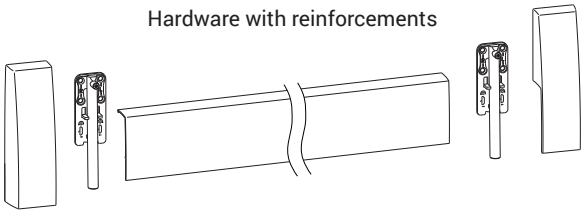
GS1000-HD160



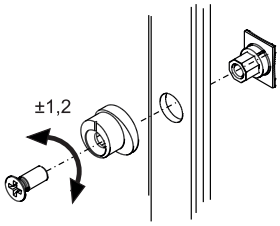
Single pulleys



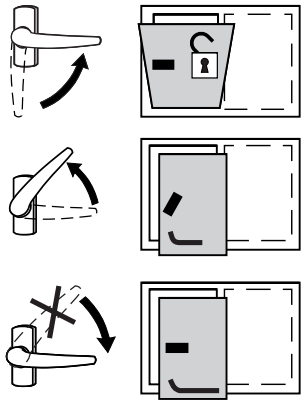
Hardware with reinforcements



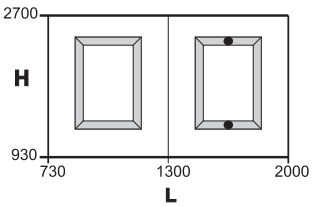
Adjustable pawl

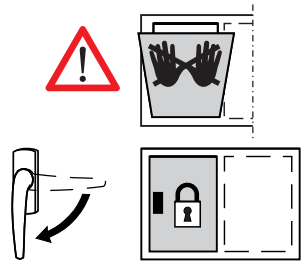


Operating scheme

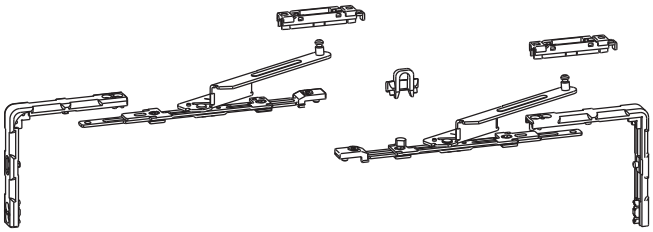


Additional locking points





Fastening mechanisms



GS1000-HD 160 TILT AND SLIDE

Functions

Tilt and slide system with semi-automatic forced control operation that allows closing the sash with just one hand, by operating the long-handled cremone.
For applications with sashes weighing up to 160 kg.
Available for Euro groove profiles.

Technical Features

GS1000-HD 160 is ideal for sashes of up to 160 kg in weight, for those who want semi-automatic operation.
Uses single pulleys with machined side plugs and reinforcements.
GS1000 HD-160 is available in the configuration for the Euro groove profile and uses special fastening mechanisms specifically designed for aluminium.
All the hardware components are equipped with Torx fixing screws.
The hardware set uses fixed lock strikers and compression adjustable lock pawls (±1.2 mm), with which you can optimize the perimeter pressure of the sash.
It is possible to add up to two additional locking points on the top and bottom cross-beams, depending on the size of the sash, to improve the air/water seal.

Automatic catch

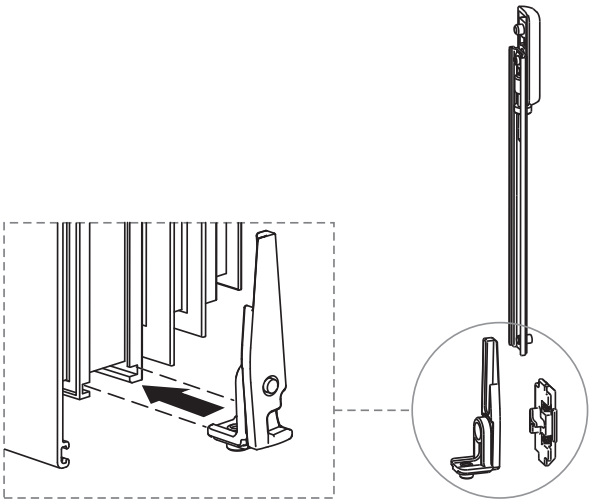
GS1000-HD 160 features the automatic catch system installed at the bottom of the sash.
This device facilitates closing the sash that, when put in the closed position, automatically locks in the tilt position. Turning the cremone from 135° (sliding position) to 90° (tilt position) and putting the sash into the closed position engages the sash in the tilt position.
To close the sash, simply rotate the cremone to 0° (closed).
The forced control device will close the sash automatically.

"LOGICA" opening mechanism

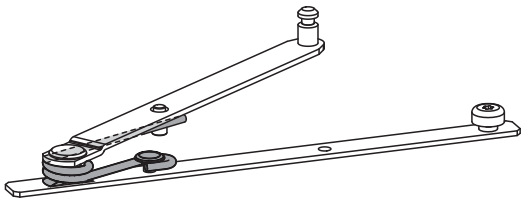
GS1000-HD 160 uses the LOGICA opening system whereby operating the cremone produces first tilt opening and then slide opening.
Taking the cremone to 90° operates tilt opening and turning it to 135° operates slide opening.
To engage the automatic catch, the cremone must be turned back to 90° and the sash closed against the frame.

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Incorrect movement safety device



Additional arm



Incorrect movement safety device

The new incorrect movement safety device for the forced control version allows operating the cremone only when the sash is hooked onto the frame, protecting the hardware against damage in the event of improper use.
The device also prevents the sash from lifting.
Ideal for installation in conditions of high frequency opening and with occasional users (hotels, public buildings).
It cannot be used in the case of an opening secondary sash.
Sold separately.

Additional arm

Using the additional arm, thanks to the special spring, facilitates opening the sash in the case of heavy weights.
The arm is to be installed for sashes weighing more than 160 kg or weighing more than 100 kg and sash profile width > 75 mm.
Sold separately.

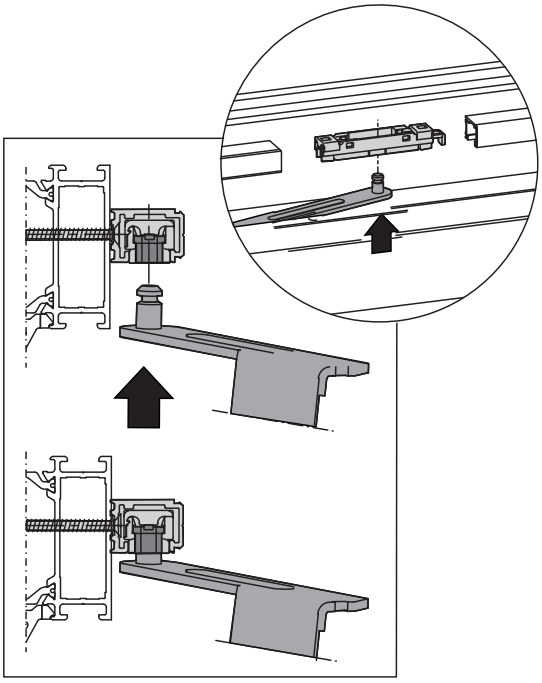
Stay arm catch

The system for coupling the opening arms and the sliders guarantees perfect coupling between the sash and the frame.
The correct positioning of the steel insert ensures that the arms and sliders are linked together.

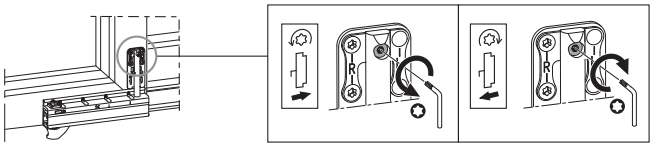
Correct positioning of the sash

To improve the overall alignment of the sash with the frame, there are several adjustments
• height adjustment of the sash via the pulleys (-2/+4 mm)
• side adjustment via the command striker
• adjustment of the side reinforcements to improve the sash out and return phase
• adjustment of the sash-frame parallelism with pulleys and arms

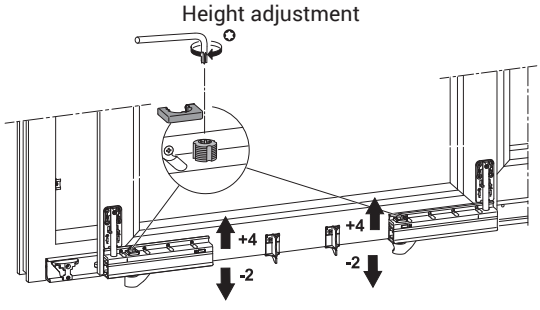
Stay arm catch



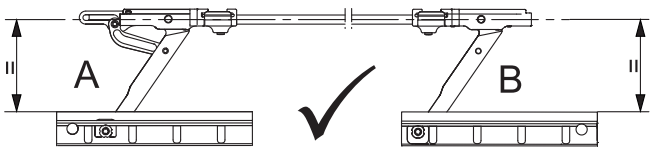
Adjustment of the side reinforcements



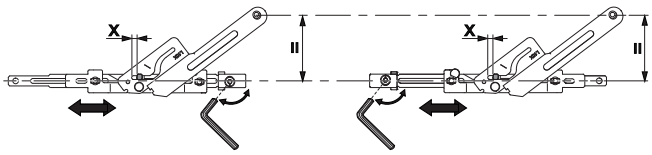
Height adjustment



Sash-frame parallelism

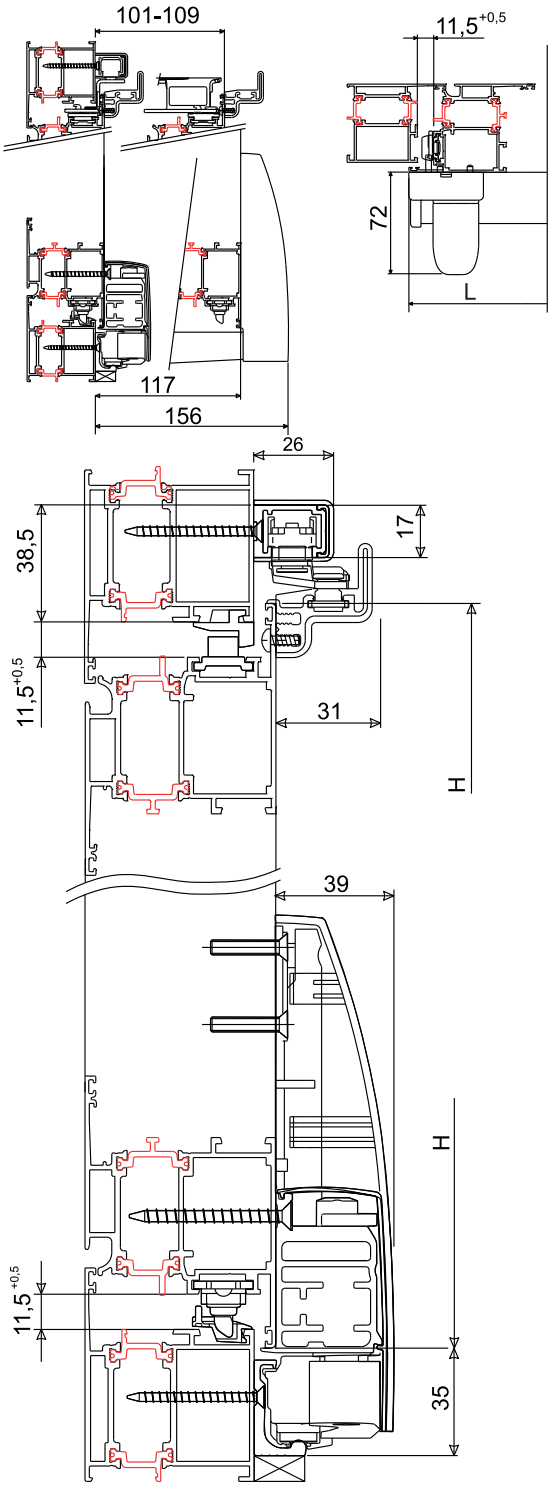


Sash-frame parallelism with arms



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Application section



GS1000-HD 160 range of use

Applications on aluminium doors and windows
Sash weight (kg) = max 160 kg
Sash width (W) = 730 to 2000 mm
Sash height (H) = 930 to 2700 mm

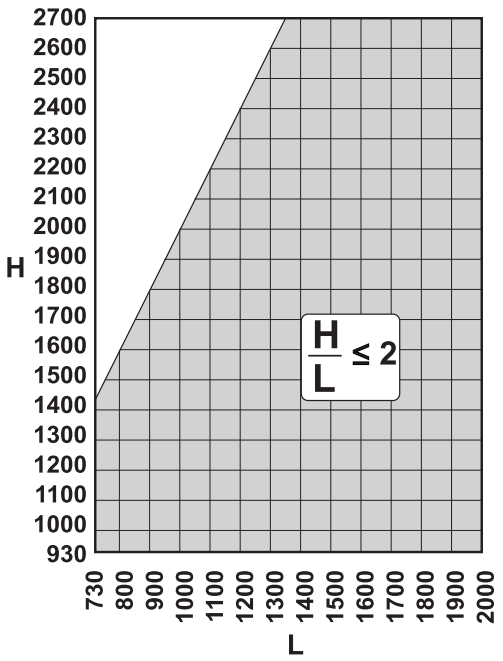
Minimum required dimensions

Bottom rail = 35 mm
Top rail = 38.5 mm
Bottom rail depth = 17 mm
Step >= 7 mm
Sash depth D:
<= 87 mm check not required
> 87 mm do only after technical verification (return trajectory and sash centre of gravity)

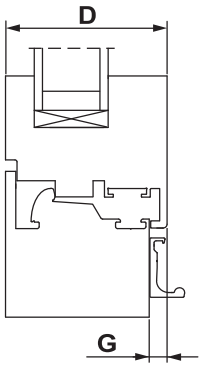
Important note

The H/L ratio <= 2 given in the scheme is binding and must not be exceeded.
In all cases, refer to the profile manufacturer's instructions and comply with the requirements.
Take the due precautions to avoid straining the mechanism in specific sites such as hotels, schools, kindergartens, etc.

Range of use



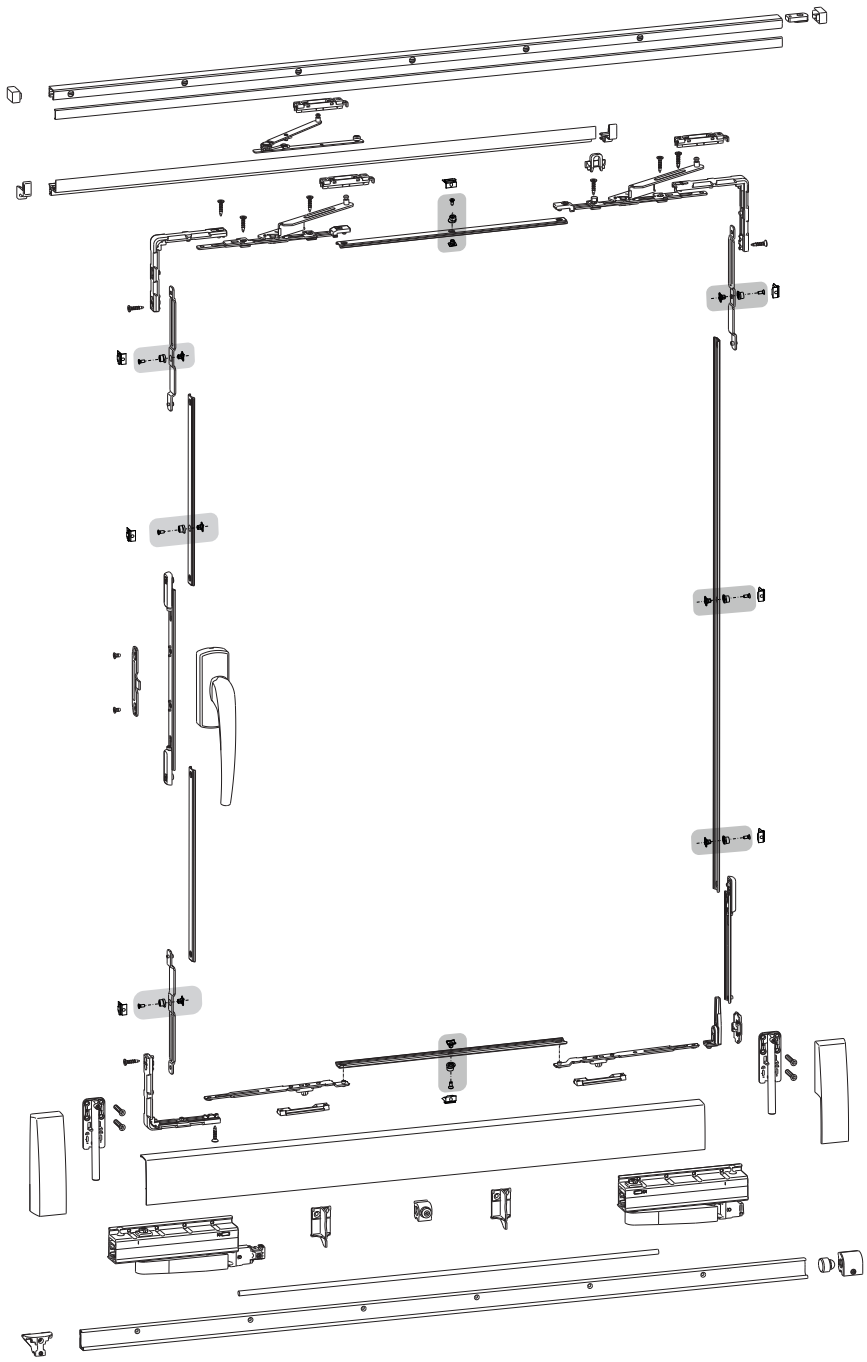
G = step
D = sash depth



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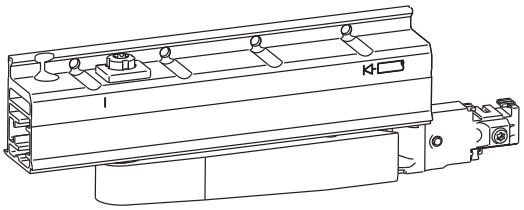
A typical GS1000-HD 160 configuration consists of:
• single pulley set
• special hardware set for Euro groove profile
• profile set
• accessories set without side reinforcements
• fastening striker set
• cremone with long handle (in the version with and without a key)
• additional arm to be used in cases of heavy weights to facilitate sash opening
• incorrect movement safety device that prevents incorrect operation of the sash
• mobile control (in the case of an opening secondary sash)
• support block for pulley connection rod (for sashes of width >1480 mm)

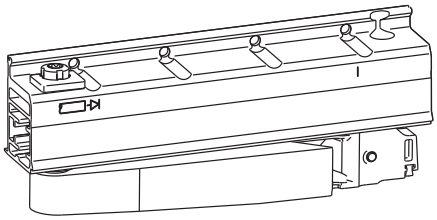
Scheme for GS1000-HD 160 Euro groove profile



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SINGLE PULLEYS





Functions

Single pulleys for GS1000 tilt and slide system.

Technical features

Single pulleys to be used for making windows with the following tilt and slide versions:

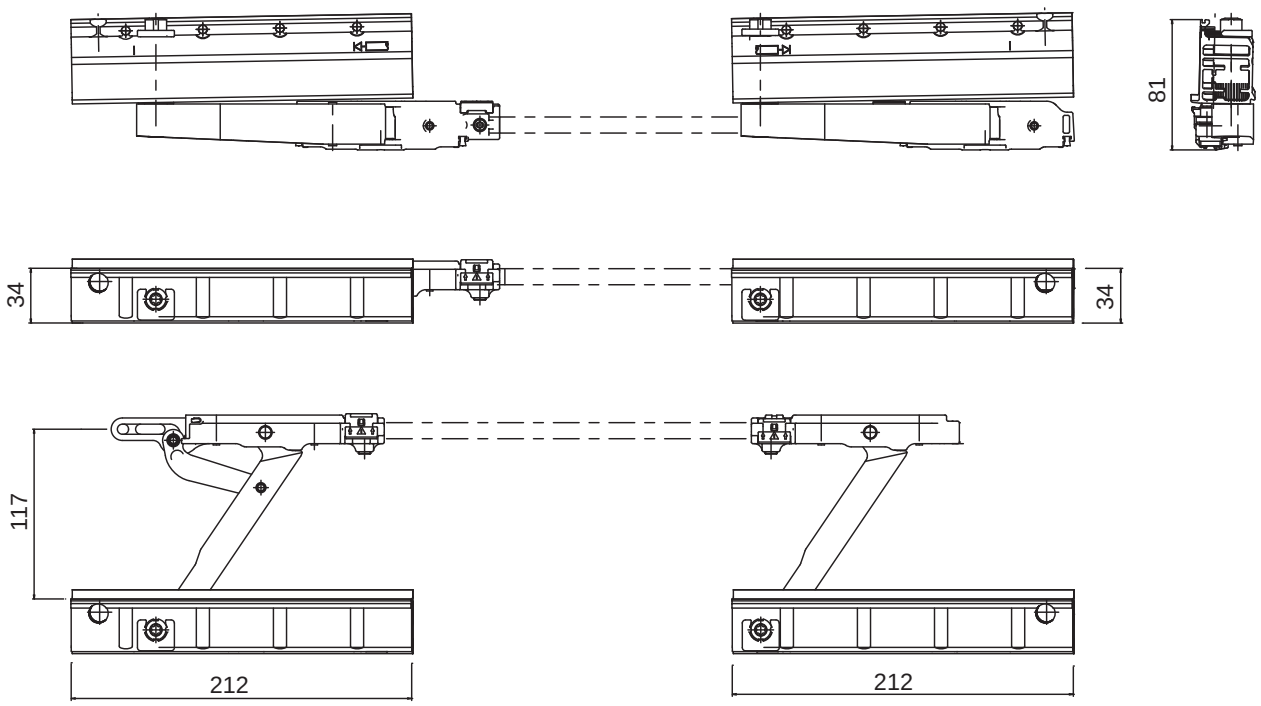
- GS1000-ML
- GS1000-HL
- GS1000-HD 100
- GS1000-HD 160

The set of single pulleys consists of a primary pulley, which controls sash return and a secondary pulley, available in right-hand and left-hand versions.
The opening of the arm of the pulleys allows the sash to come out from the frame by 117 mm.
Applicable on profiles with a step greater than or equal to 7 mm.
Both pulleys are designed for use with side reinforcements that improve the seal of the profile (sold separately in the hardware set).
Using the pulleys it is possible to adjust the height of the sash (-2/+4 mm) and the parallelism between the sash and frame.
The machining on the profile for installing pulleys can be done with a specific drilling template.
Fixing to the profile is done with self-threading screws.
The pulleys are supplied with 2 supports for the bottom guard and the screws and bolts for fixing the pulleys and the set of rails.

Materials

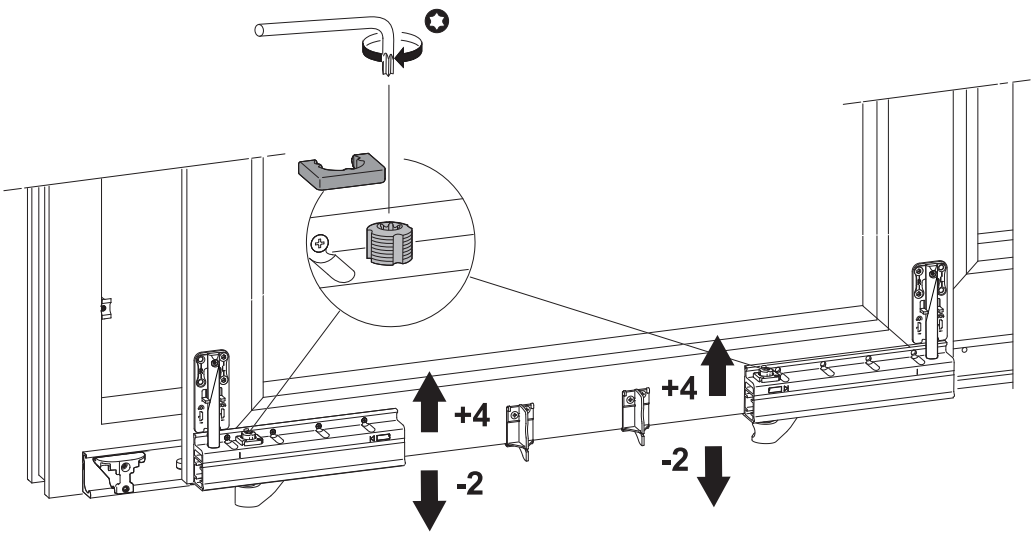
Body and opening levers of aluminium
Wheel support of zamak
Polyamide wheels
Bottom guard supports of polyamide
Screws and pins of stainless steel

Single pulleys

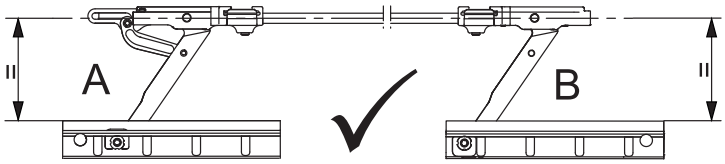


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Height adjustment



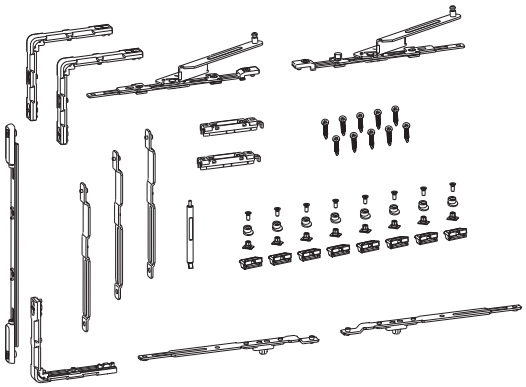
Sash-frame parallelism



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09776	SET OF RH SINGLE PULLEYS	-	-	X	X	X	X	-	X				1
09777	SET OF LH SINGLE PULLEYS	-	-	X	X	X	X	-	X				1

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GS1000-HD HARDWARE



Functions

Complete fastener system for making GS1000 tilt and slide type windows with forced control.
Available in version for Euro groove.

Technical features

The fastening system uses the special fastening mechanism with LOGICA opening with which operating the cremone produces first tilt opening and then slide opening.
The particular shape of the arms of the special hardware allows semi-automatic return of the sash into the bottom-hung opening position and into the closing position.
The hardware set uses fixed strikers and adjustable pawls (±1.2 mm) to optimize the perimeter pressure of the sash.
The hardware components are pre-assembled and are attached to the profile with Torx screws.
It is possible to add up to two additional locking points, depending on the size of the sash.

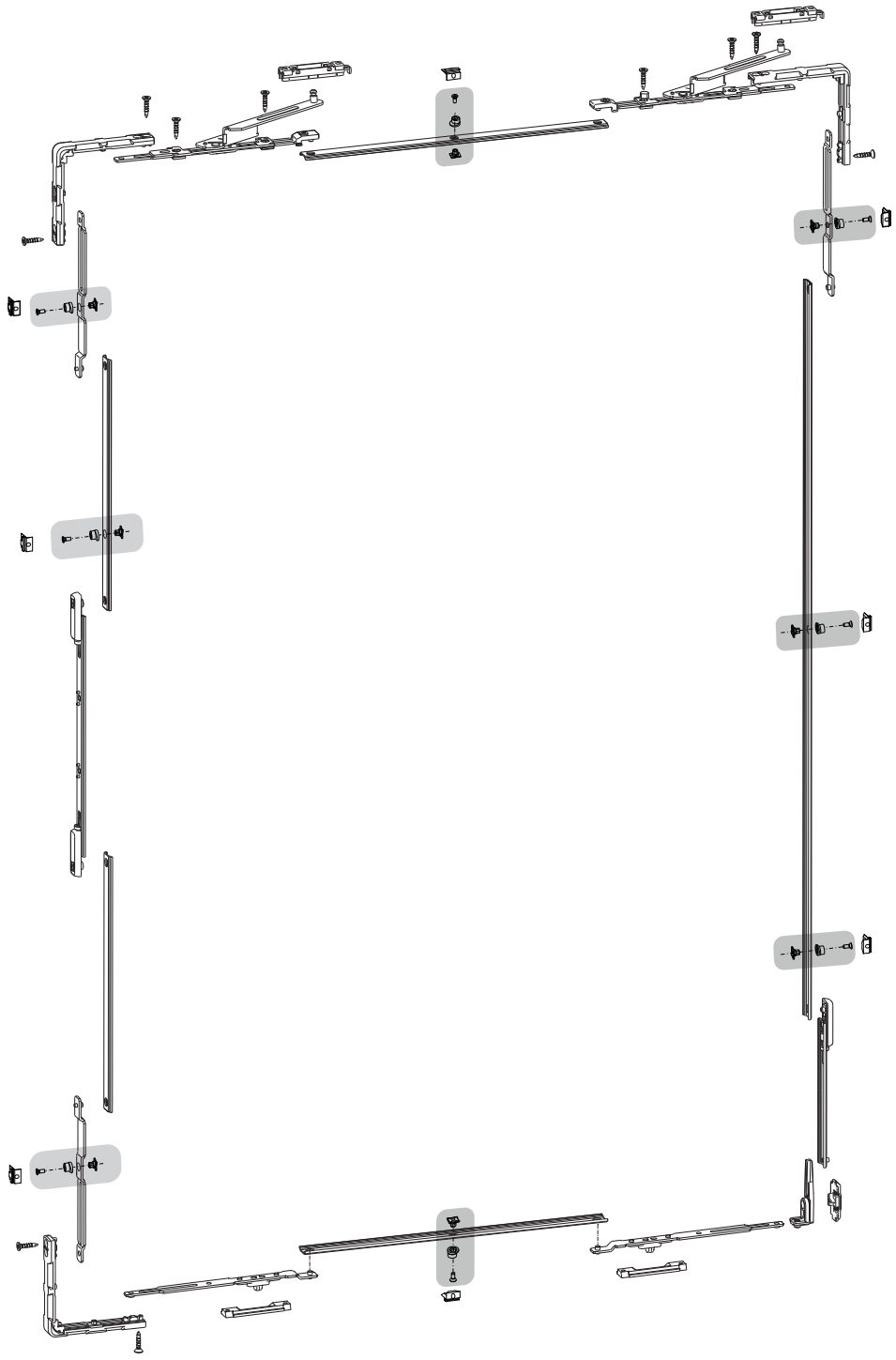
The hardware set consists of:
• no. 3 corner drives to transmit the motion between the uprights and cross-beams, to be secured to the profile with Torx screws
• no. 1 cremone drive rod
• no. 2 opening arms + sliders
• no. 2 spring latches (matching the set of strikers sold separately)
• no. 3 fastening mechanism rods
• no. 8 locking points (adjustable pawls + fixed strikers)
• no. 1 sticker for correct system operation
• no. 1 arm and pulley release device

Materials

Drive rod of aluminium and zamak
Zamak drives
Opening arms and spring latches made of steel
Steel fastening rods
Sliders of polyamide and steel
Strikers and pawls of zamak
Steel screws

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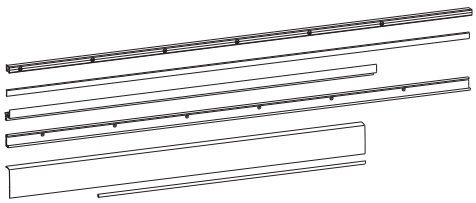
GS1000 HD hardware set



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09781	GS1000-HD LH HARDWARE SET	-	C001-C002-C003-C005	-	-	X	X	X	X				1
09782	GS1000-HD RH HARDWARE SET	-	C001-C002-C003-C005	-	-	X	X	X	X				1

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PROFILES SET



Functions

Profiles with the function of supporting and guiding in the phase of operating the sliding sash and with the function of a stylish cover for the GS1000 tilt and slide system.

Technical features

Each set of profiles consists of:

- top guards and track
- bottom guards and track
- screw protection plug
- pulley connection rod

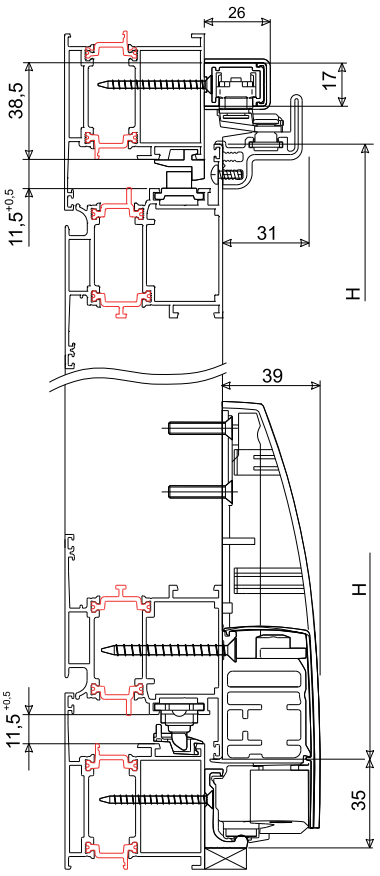
The profiles set is available in various sizes, depending on the width of the sash to be constructed.
The bottom rail always has an anodised, silver or black finish.
The fixing of the profiles is by means of self-threading screws (supplied with the set of pulleys).
There are specific templates for the installation of the various profiles.

Materials

Rails and covers made of extruded aluminium
PVC screw cover rod (*)
Steel connection rod

(*) Available in the basic finishes of white, black and grey, combined with the various profile set finishes.

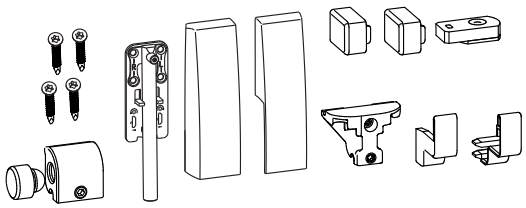
Application section



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09761	630-880 PROFILES SET	630÷880	-	X	X	X	X	-	X	X	X		1
09762	881-1080 PROFILES SET	881÷1080	-	X	X	X	X	-	X	X	X		1
09763	1081-1280 PROFILES SET	1081÷1280	-	X	X	X	X	X	X	X	X		1
09764	1281-1480 PROFILES SET	1281÷1480	-	X	X	X	X	X	X	X	X		1
09765	1481-1680 PROFILES SET	1481÷1680	-	-	X	-	X	X	X	X	X		1
09766	1681-2000 PROFILES SET	1681÷2000	-	-	-	-	X	X	X	X	X		1
09768	TOP RAIL L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09769	BOTTOM RAIL L=6000 mm	-	-	X	X	X	X	X	X	X			1
09770	TOP GUARD L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09771	BOTTOM GUARD L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09772	PVC SCREW COVER L=6000 mm	-	-	X	X	X	X	X	X				1
09773	PULLEY CONNECTION ROD L=4000 mm	-	-	X	X	X	X	X	X				1

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ACCESSORIES SET WITH SIDE REINFORCEMENTS



Functions

Components for covering and completing the GS1000 tilt and slide system.

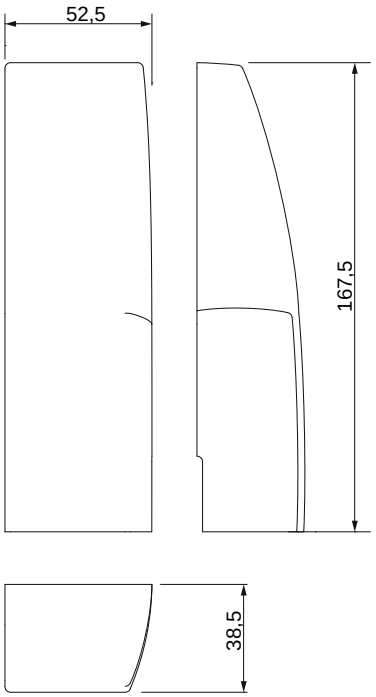
Technical features

Accessories set with side reinforcements consists of:
• side reinforcements for pulleys
• machined side protective caps that can be painted as needed
• protective caps for guards
• top and bottom stops
• command striker
To be combined with the GS1000-HL, GS1000-HD 160 and GS1000-HD 200 versions for sashes weighing over 100 kg.

Materials

Paintable plastic plugs
Steel reinforcements
Command striker of zamak
Bottom limit stop striker of zamak and rubber
Top limit stop striker of steel and rubber
Stainless steel screws and bolts

Plugs art. 09775



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09775	ACCESSORIES SET WITH SIDE REINFORCEMENTS	-	-	-	X	-	X	X	X		X		1

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SET OF STRIKERS

Functions

Lock strikers for the spring latches of the automatic catch system of the GS1000-HD tilt and slide system.

Technical features

The set of strikers is available in four versions depending on the frame channel and consists of:
• no. 2 strikers for spring latches to secure to the frame channel with contrast grubscrews
• no. 1 sash centring striker

Materials

Automatic catch strikers of zamak
Sash centring striker of polyamide

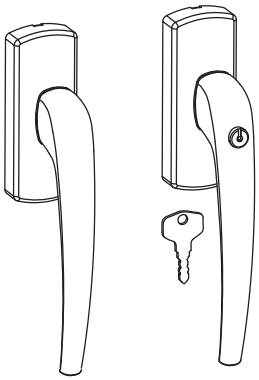




Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09785	SET OF STRIKERS E.G. 10-14	-	C003	-	-	X	X	X	X				1
09786	SET OF STRIKERS E.G. 12-15	-	C005	-	-	X	X	X	X				1
09787	SET OF STRIKERS E.G. 13.5-16.8	-	C002	-	-	X	X	X	X				1
09788	SET OF STRIKERS E.G. 14-18	-	C001-C004	-	-	X	X	X	X				1

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CREMONES FOR GS1000-HD



Functions

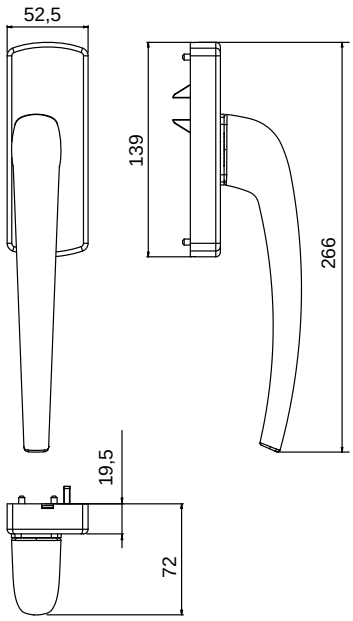
Right and left cremone versions, with and without key, specific for the GS1000-HD tilt and slide system with forced control.

Technical features

Long-handled cremone with specially designed internal mechanism to make it easier to operate sashes weighing up to 200 kg.
The special long-handled cremone consists of:
• cremone
• cover
• component connecting to the drive rod

Materials

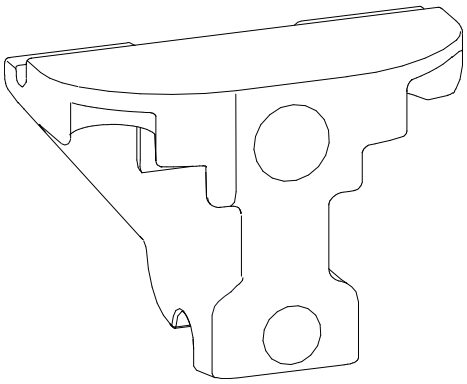
Handle in die-cast aluminium
Case and rack made of zamak
Aluminium cover
Steel screws and bolts



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09736N	GS1000-HD RH CREMONE	-	-	-	-	X	X	X	X	X	X		1
09737N	GS1000-HD LH CREMONE	-	-	-	-	X	X	X	X	X	X		1
09738N	GS1000-HD RH CREMONE WITH KEY	-	-	-	-	X	X	X		X	X		1
09739N	GS1000-HD LH CREMONE WITH KEY	-	-	-	-	X	X	X		X	X		1

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MOBILE STRIKER



Functions

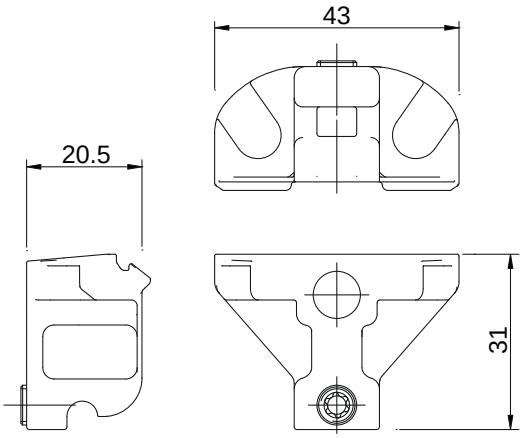
Component for positioning the mobile sash for GS1000 tilt and slide systems.

Technical features

The mobile striker enables run-by of the sliding sash, for opening the secondary sash.
In configurations with an opening secondary sash, this striker replaces the fixed command striker supplied with the hardware set.
The pin with a spring keeps the striker in position and allows it to move in order to allow opening the secondary sash.
Installation can also be performed with a specific template.

Materials

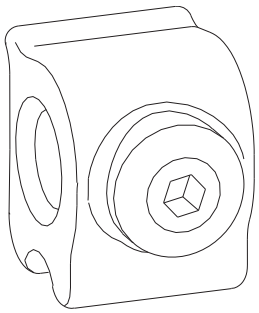
Zamak striker
Spring and pin of steel



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09790	MOBILE STRIKER	-	-	X	X	X	X	X			X		1

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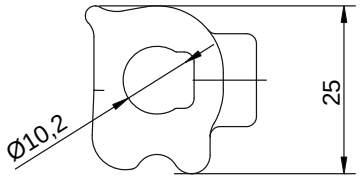
SUPPORT BLOCK

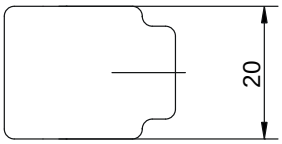


Functions
Component for supporting the pulley connection rod.
For all GS1000 tilt and slide system versions.

Technical features
The support block is used for sash widths > 1480 mm in order to make the connection rod between the two pulleys more stable.

Materials
Nylon block
Steel mounting grubscrew

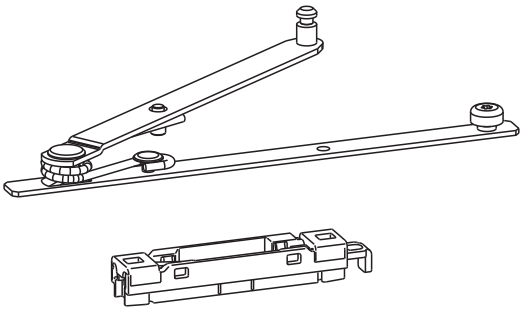




Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09789	SUPPORT BLOCK	-	-	-	X	X	X	X	X				1

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GS1000-HD ADDITIONAL ARM



Functions

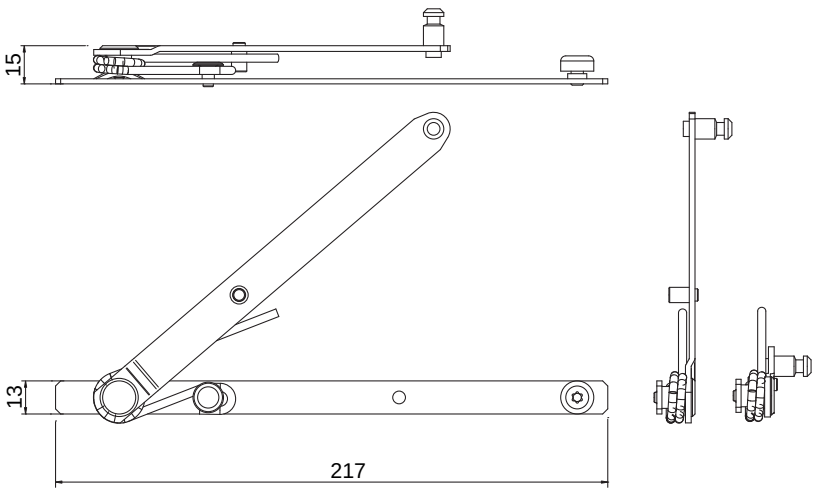
Additional arm for GS1000-HD tilt-and-slide system.

Technical features

The additional arm, thanks to the special spring, facilitates opening the sash in the case of heavy weights.
The element must be installed between the two arms of the GS1000-HD hardware set for sashes weighing more than 160 kg or weighing more than 100 kg and sash profile width > 75 mm.

Materials

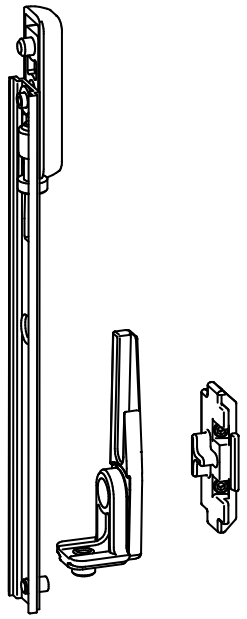
Steel arm
Sliders of steel and polyamide



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09759	ADDITIONAL ARM	-	-	-	-	-	X	X	X				1

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INCORRECT MOVEMENT SAFETY DEVICE



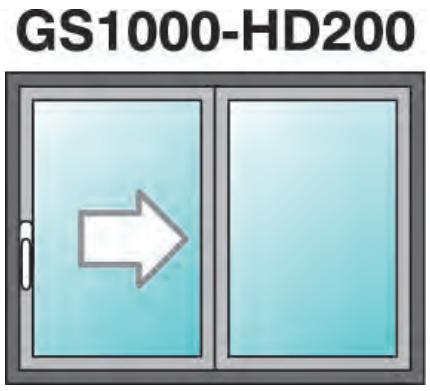
Functions
Incorrect movement safety device for the GS1000-HD version of the GS1000 tilt and slide system with forced control, which prevents damage to the hardware in the event of incorrect operation.

Technical features
The incorrect movement safety device enables operating the special long-handled cremone only when the sash is attached to the frame.
The device also prevents the sash from lifting.
Available in two versions, opening to the left or right, depending on the frame channel.

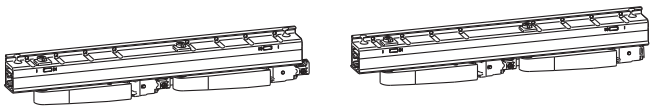
Materials
Incorrect movement safety device made of zamak
Stainless steel grub screws

Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09791	GS1000-HD 14/18 LH INCORRECT MOVEMENT SAFETY DEVICE SET	-	C001-C002-C004-C005	-	-	X	X	X	X				1
09792	GS1000-HD 14/18 RH INCORRECT MOVEMENT SAFETY DEVICE SET	-	C001-C002-C004-C005	-	-	X	X	X	X				1
09793	GS1000-HD CE LH INCORRECT MOVEMENT SAFETY DEVICE SET	-	C003	-	-	X	X	X	X				1
09794	GS1000-HD CE RH INCORRECT MOVEMENT SAFETY DEVICE SET	-	C003	-	-	X	X	X	X				1

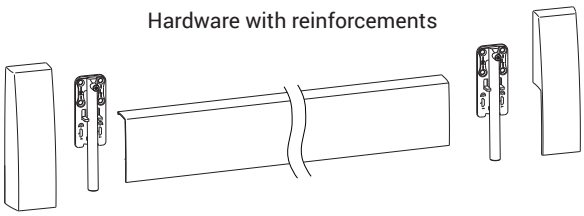
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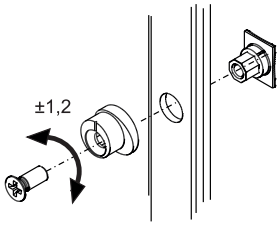
Double pulleys



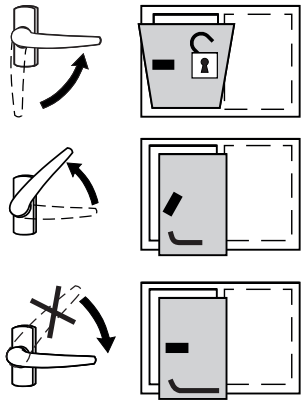
Hardware with reinforcements



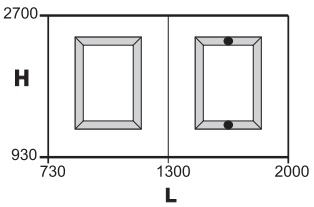
Adjustable pawl



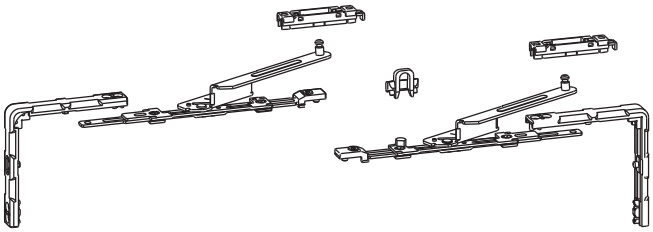
Operating scheme



Additional locking points



Fastening mechanisms



GS1000-HD 200 TILT AND SLIDE

Functions

Tilt and slide system with semi-automatic forced control operation that allows closing the sash with just one hand, by operating the long-handled cremone.
For applications with sashes weighing up to 200 kg.
Available for Euro groove profiles.

Technical Features

GS1000-HD 200 is ideal for sashes of up to 200 kg in weight, for easily operating the sliding sash.
Uses double pulleys with machined side plugs and reinforcements.
GS1000 HD-200 is available in the configuration for the Euro groove profile and uses special fastening mechanisms specifically designed for aluminium.
All the hardware components are equipped with Torx fixing screws.
The hardware set uses fixed lock strikers and compression adjustable lock pawls (±1.2 mm), with which you can optimize the perimeter pressure of the sash.
It is possible to add up to two additional locking points on the top and bottom cross-beams, depending on the size of the sash, to improve the air/water seal.

Automatic catch

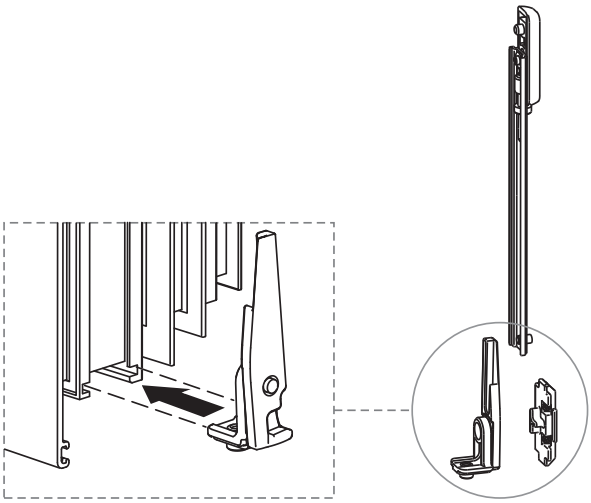
GS1000-HD 200 features the automatic catch system installed at the bottom of the sash.
This device facilitates closing the sash that, when put in the closed position, automatically locks in the tilt position. Turning the cremone from 135° (sliding position) to 90° (tilt position) and putting the sash into the closed position engages the sash in the tilt position.
To close the sash, simply rotate the cremone to 0° (closed).
The forced control device will close the sash automatically.

"LOGICA" opening mechanism

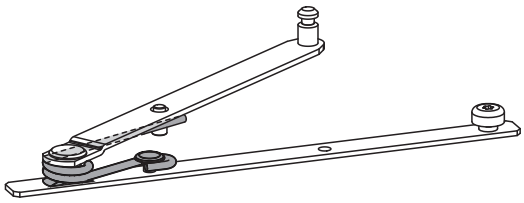
GS1000-HD 200 uses the LOGICA opening system whereby operating the cremone produces first tilt opening and then slide opening.
Taking the cremone to 90° operates tilt opening and turning it to 135° operates slide opening.
To engage the automatic catch, the cremone must be turned back to 90° and the sash closed against the frame.

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Incorrect movement safety device



Additional arm



Incorrect movement safety device

The new incorrect movement safety device for the forced control version allows operating the cremone only when the sash is hooked onto the frame, protecting the hardware against damage in the event of improper use.
The device also prevents the sash from lifting.
Ideal for installation in conditions of high frequency opening and with occasional users (hotels, public buildings).
It cannot be used in the case of an opening secondary sash.
Sold separately.

Additional arm

Using the additional arm, thanks to the special spring, facilitates opening the sash in the case of heavy weights.
The arm is to be installed for sashes weighing more than 160 kg or weighing more than 100 kg and sash profile width > 75 mm.
Sold separately.

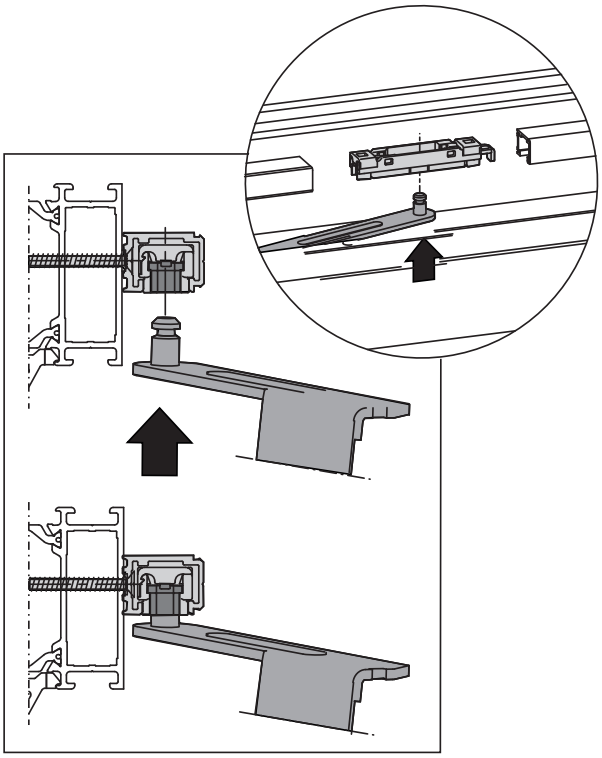
Stay arm catch

The system for coupling the opening arms and the sliders guarantees perfect coupling between the sash and the frame.
The correct positioning of the steel insert ensures that the arms and sliders are linked together.

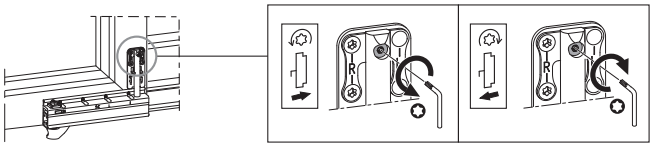
Correct positioning of the sash

To improve the overall alignment of the sash with the frame, there are several adjustments
• height adjustment of the sash via the pulleys (-2/+4 mm)
• side adjustment via the command striker
• adjustment of the side reinforcements to improve the sash out and return phase
• adjustment of the sash-frame parallelism with pulleys and arms

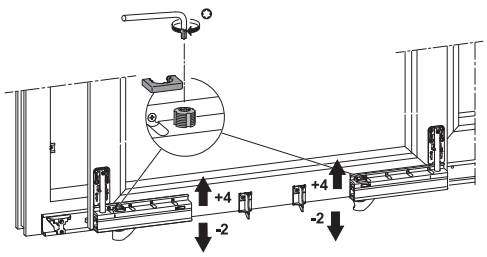
Stay arm catch



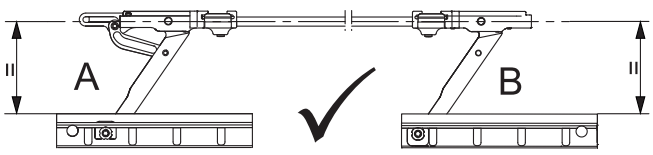
Adjustment of the side reinforcements



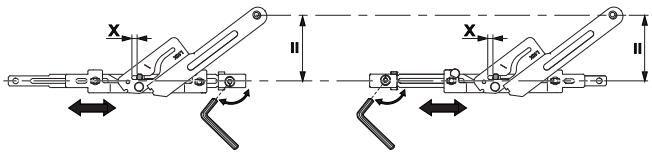
Height adjustment



Sash-frame parallelism

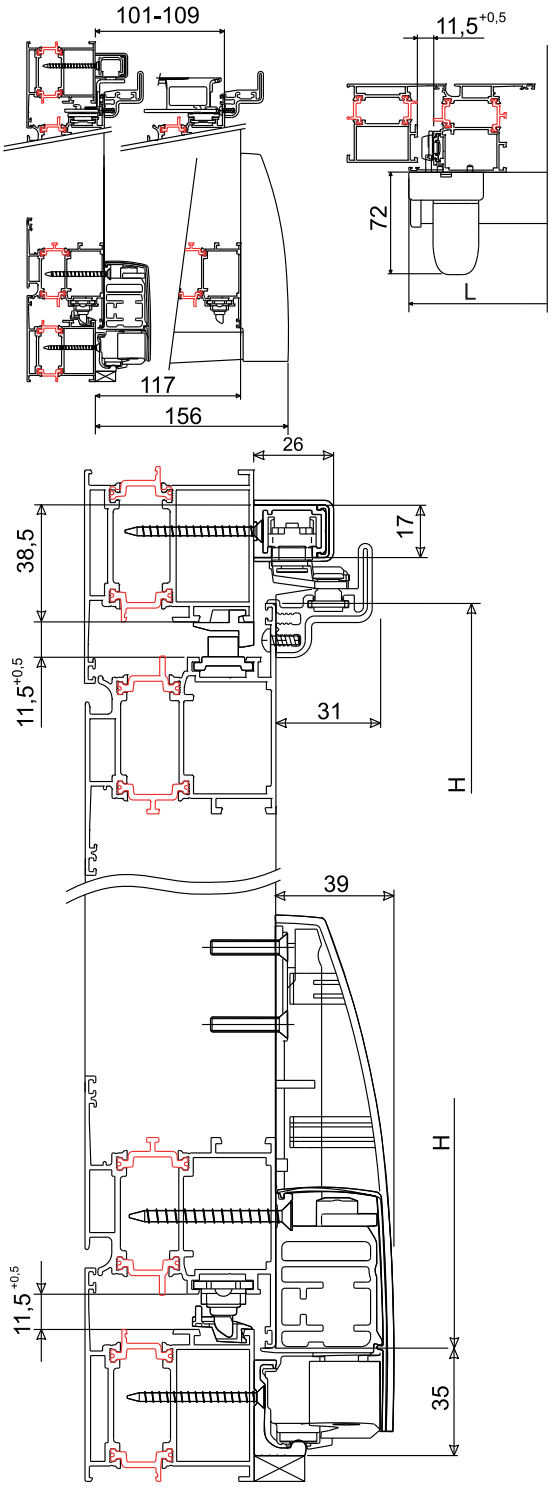


Sash-frame parallelism with arms



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Application section



GS1000-HD 200 range of use

Applications on aluminium doors and windows
Sash weight (kg) = max 200 kg
Sash width (W) = 1080 to 2000 mm
Sash height (H) = 930 to 2700 mm

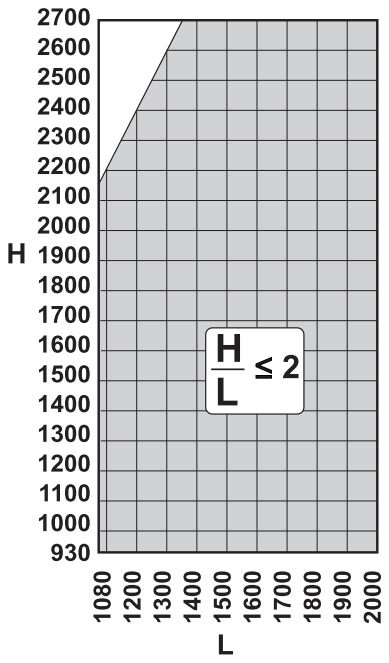
Minimum required dimensions

Bottom rail = 35 mm
Top rail = 38.5 mm
Bottom rail depth = 17 mm
Step >= 7 mm
Sash depth D:
<= 87 mm check not required
> 87 mm do only after technical verification (return trajectory and sash centre of gravity)

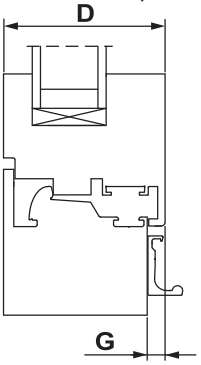
Important note

The H/L ratio <= 2 given in the scheme is binding and must not be exceeded.
In all cases, refer to the profile manufacturer's instructions and comply with the requirements.
Take the due precautions to avoid straining the mechanism in specific sites such as hotels, schools, kindergartens, etc.

Range of use



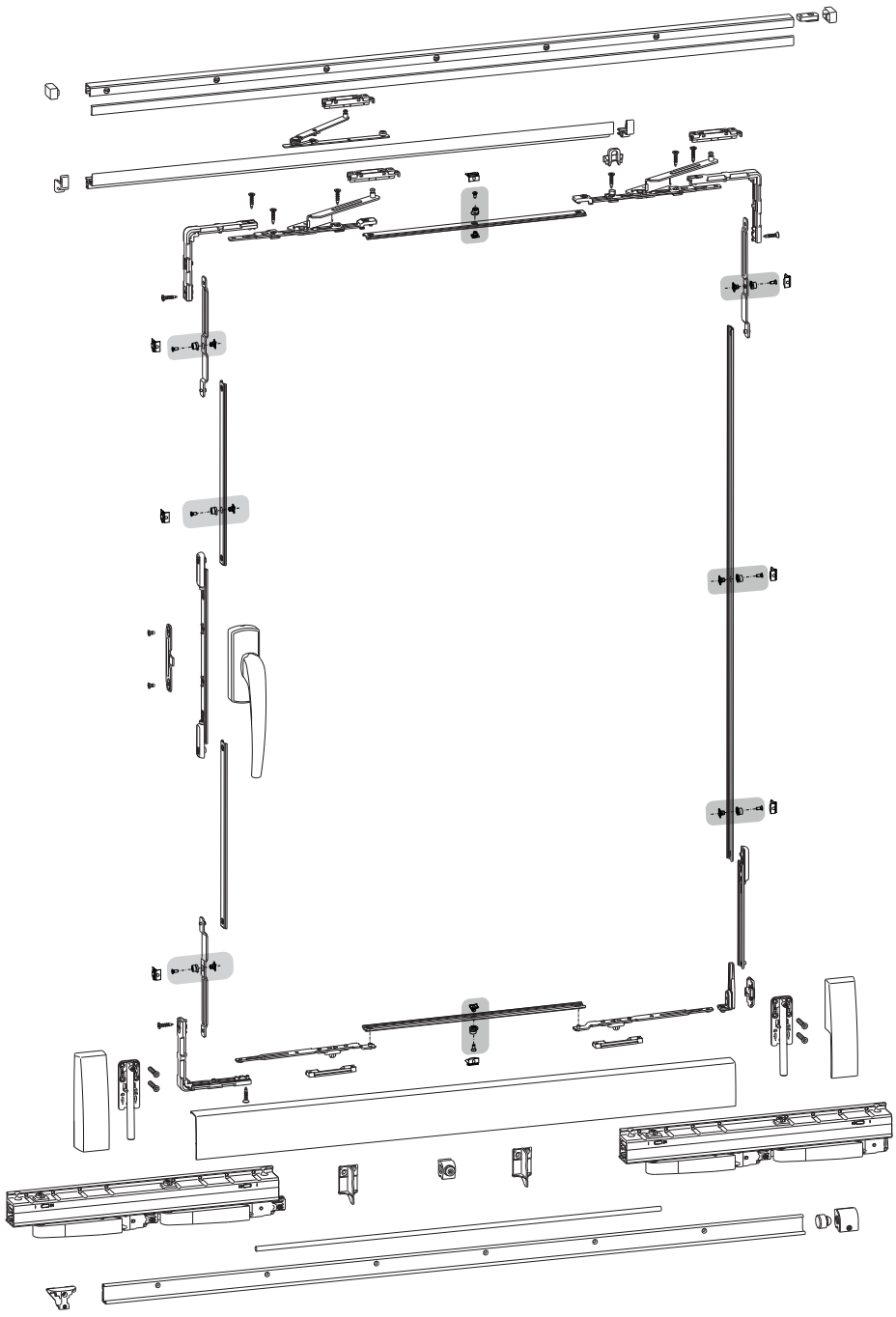
G = step
D = sash depth



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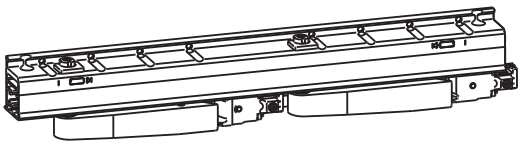
A typical GS1000-HD 200 configuration consists of:
- double pulley set
- special hardware set for Euro groove profile
- profile set
- accessories set without side reinforcements
- fastening striker set
- cremone with long handle (in the version with and without a key)
- additional arm to be used in cases of heavy weights to facilitate sash opening
- incorrect movement safety device that prevents incorrect operation of the sash
- mobile control (in the case of an opening secondary sash)
- support block for pulley connection rod (for sashes of width >1480 mm)

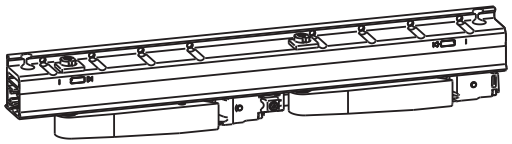
Scheme for GS1000-HD 200 Euro groove profile



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DOUBLE PULLEYS





Functions

Double pulleys for GS1000 tilt and slide system.

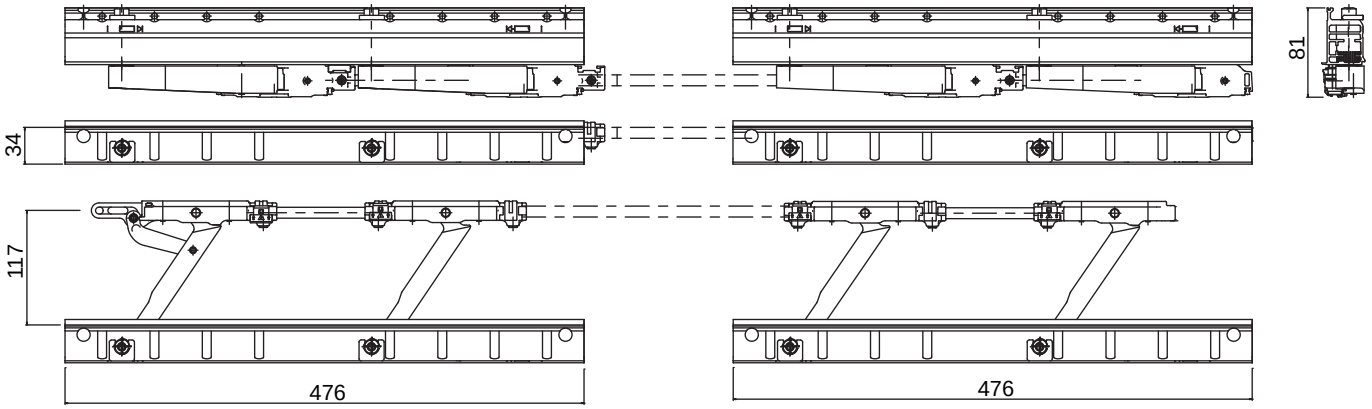
Technical features

Double pulleys to be used for making tilt and slide windows with version GS1000 HD-200.
The set of double pulleys consists of a primary pulley, which controls sash return and a secondary pulley.
Available in right- and left-hand versions.
The opening of the arm of the pulleys allows the sash to come out from the frame by 117 mm.
Applicable on profiles with a step greater than or equal to 7 mm.
Both pulleys are designed for use with side reinforcements that improve the seal of the profile (sold separately in the hardware set).
Using the pulleys it is possible to adjust the height of the sash (-2/+4 mm) and the parallelism between the sash and frame.
The machining on the profile for installing pulleys can be done with a specific drilling template.
Fixing to the profile is done with self-threading screws.
The pulleys are supplied with 2 supports for the bottom guard and the screws and bolts for fixing the pulleys and the set of rails.

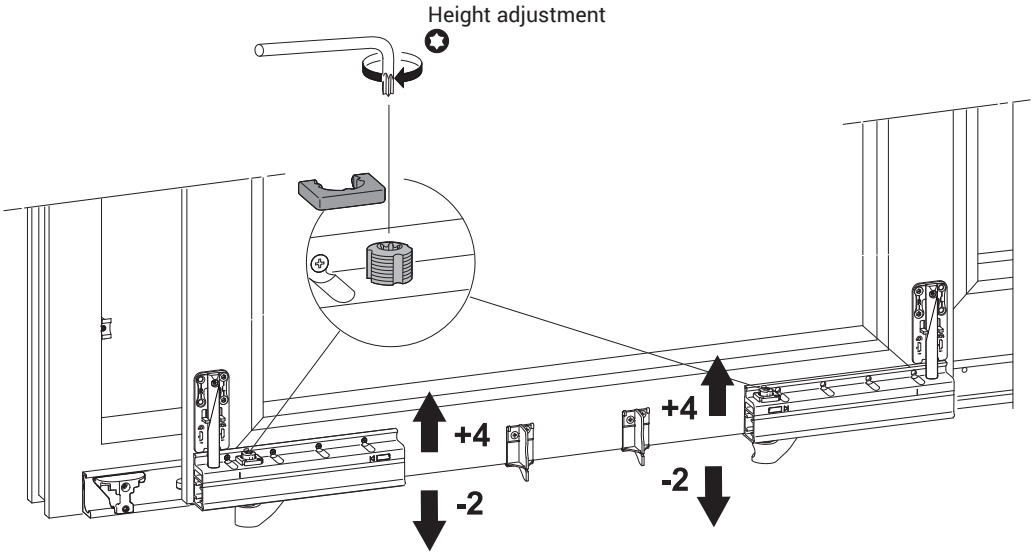
Materials

Body and opening levers of aluminium
Wheel support of zamak
Polyamide wheels
Bottom guard supports of polyamide
Screws and pins of stainless steel

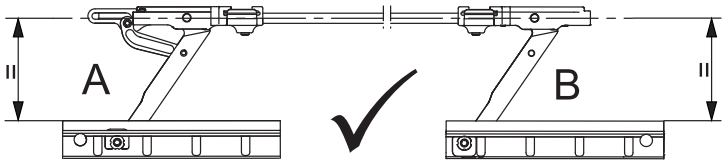
Double pulleys



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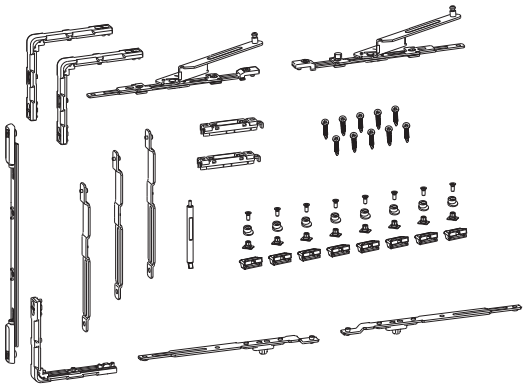
Sash-frame parallelism



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09778	SET OF RH DOUBLE PULLEYS	-	-	-	-	-	-	X	X				1
09779	SET OF LH DOUBLE PULLEYS	-	-	-	-	-	-	X	X				1

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GS1000-HD HARDWARE



Functions

Complete fastener system for making GS1000 tilt and slide type windows with forced control.
Available in version for Euro groove.

Technical features

The fastening system uses the special fastening mechanism with LOGICA opening with which operating the cremone produces first tilt opening and then slide opening.
The particular shape of the arms of the special hardware allows semi-automatic return of the sash into the bottom-hung opening position and into the closing position.
The hardware set uses fixed strikers and adjustable pawls (±1.2 mm) to optimize the perimeter pressure of the sash.
The hardware components are pre-assembled and are attached to the profile with Torx screws.
It is possible to add up to two additional locking points, depending on the size of the sash.

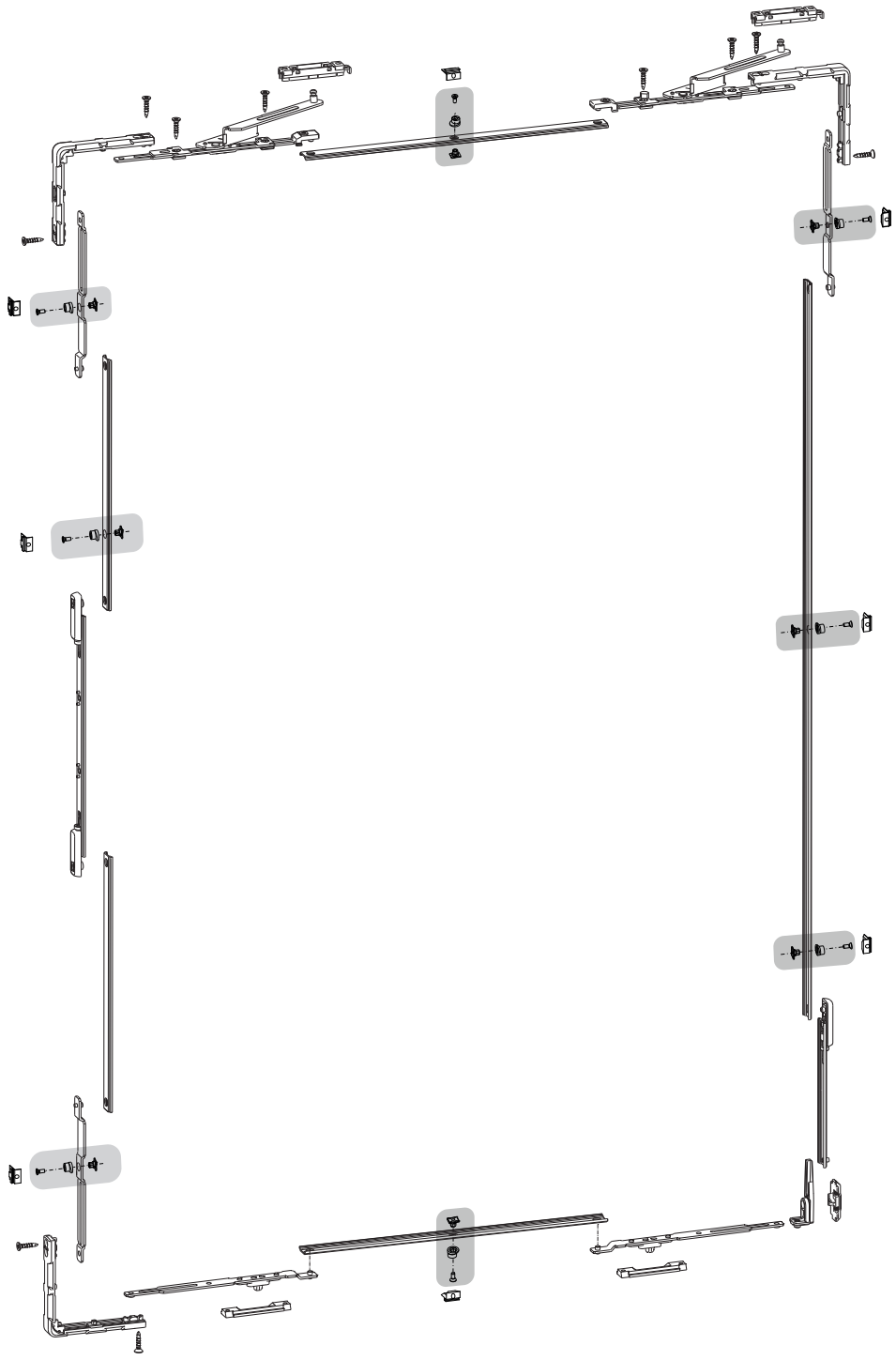
The hardware set consists of:
• no. 3 corner drives to transmit the motion between the uprights and cross-beams, to be secured to the profile with Torx screws
• no. 1 cremone drive rod
• no. 2 opening arms + sliders
• no. 2 spring latches (matching the set of strikers sold separately)
• no. 3 fastening mechanism rods
• no. 8 locking points (adjustable pawls + fixed strikers)
• no. 1 sticker for correct system operation
• no. 1 arm and pulley release device

Materials

Drive rod of aluminium and zamak
Zamak drives
Opening arms and spring latches made of steel
Steel fastening rods
Sliders of polyamide and steel
Strikers and pawls of zamak
Steel screws

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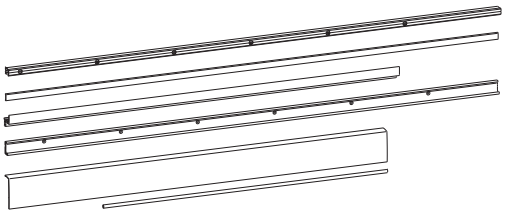
GS1000 HD hardware set



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09781	GS1000-HD LH HARDWARE SET	-	C001-C002-C003-C005	-	-	X	X	X	X				1
09782	GS1000-HD RH HARDWARE SET	-	C001-C002-C003-C005	-	-	X	X	X	X				1

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PROFILES SET



Functions

Profiles with the function of supporting and guiding in the phase of operating the sliding sash and with the function of a stylish cover for the GS1000 tilt and slide system.

Technical features

Each set of profiles consists of:

- top guards and track
- bottom guards and track
- screw protection plug
- pulley connection rod

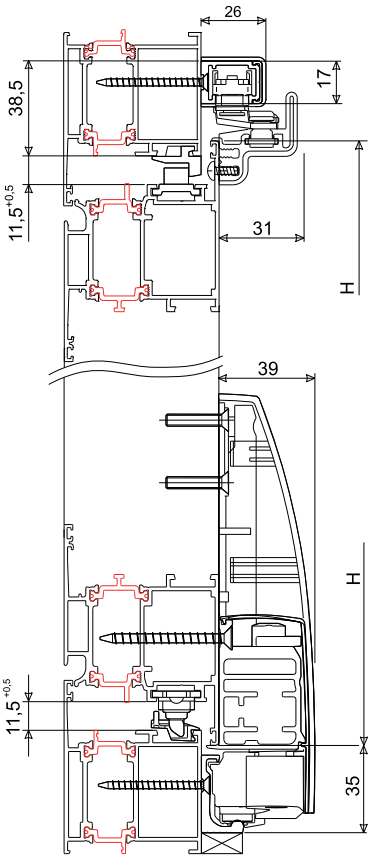
The profiles set is available in various sizes, depending on the width of the sash to be constructed.
The bottom rail always has an anodised, silver or black finish.
The fixing of the profiles is by means of self-threading screws (supplied with the set of pulleys).
There are specific templates for the installation of the various profiles.

Materials

Rails and covers made of extruded aluminium
PVC screw cover rod (*)
Steel connection rod

(*) Available in the basic finishes of white, black and grey, combined with the various profile set finishes.

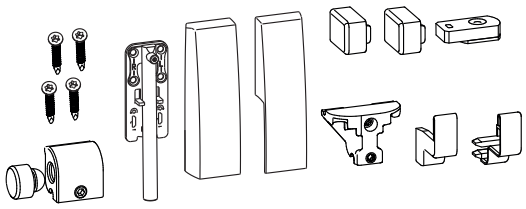
Application section



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09763	1081-1280 PROFILES SET	1081÷1280	-	X	X	X	X	X	X	X	X		1
09764	1281-1480 PROFILES SET	1281÷1480	-	X	X	X	X	X	X	X	X		1
09765	1481-1680 PROFILES SET	1481÷1680	-	-	X	-	X	X	X	X	X		1
09766	1681-2000 PROFILES SET	1681÷2000	-	-	-	-	X	X	X	X	X		1
09768	TOP RAIL L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09769	BOTTOM RAIL L=6000 mm	-	-	X	X	X	X	X	X	X			1
09770	TOP GUARD L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09771	BOTTOM GUARD L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09772	PVC SCREW COVER L=6000 mm	-	-	X	X	X	X	X	X				1
09773	PULLEY CONNECTION ROD L=4000 mm	-	-	X	X	X	X	X	X				1

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ACCESSORIES SET WITH SIDE REINFORCEMENTS



Functions

Components for covering and completing the GS1000 tilt and slide system.

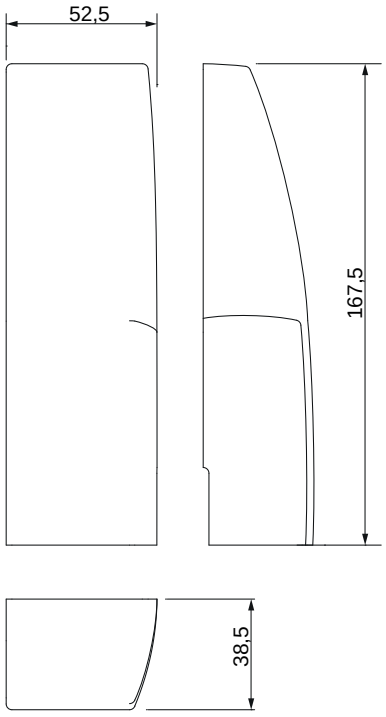
Technical features

Accessories set with side reinforcements consists of:
• side reinforcements for pulleys
• machined side protective caps that can be painted as needed
• protective caps for guards
• top and bottom stops
• command striker
To be combined with the GS1000-HL, GS1000-HD 160 and GS1000-HD 200 versions for sashes weighing over 100 kg.

Materials

Paintable plastic plugs
Steel reinforcements
Command striker of zamak
Bottom limit stop striker of zamak and rubber
Top limit stop striker of steel and rubber
Stainless steel screws and bolts

Plugs art. 09775



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09775	ACCESSORIES SET WITH SIDE REINFORCEMENTS	-	-	-	X	-	X	X	X		X		1

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SET OF STRIKERS

Functions

Lock strikers for the spring latches of the automatic catch system of the GS1000-HD tilt and slide system.

Technical features

The set of strikers is available in four versions depending on the frame channel and consists of:
• no. 2 strikers for spring latches to secure to the frame channel with contrast grubscrews
• no. 1 sash centring striker

Materials

Automatic catch strikers of zamak
Sash centring striker of polyamide

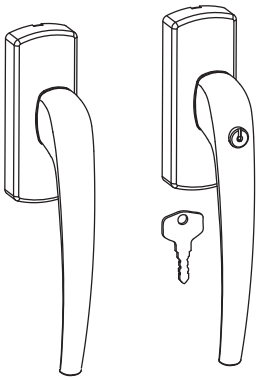




Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09785	SET OF STRIKERS E.G. 10-14	-	C003	-	-	X	X	X	X				1
09786	SET OF STRIKERS E.G. 12-15	-	C005	-	-	X	X	X	X				1
09787	SET OF STRIKERS E.G. 13.5-16.8	-	C002	-	-	X	X	X	X				1
09788	SET OF STRIKERS E.G. 14-18	-	C001-C004	-	-	X	X	X	X				1

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CREMONES FOR GS1000-HD



Functions

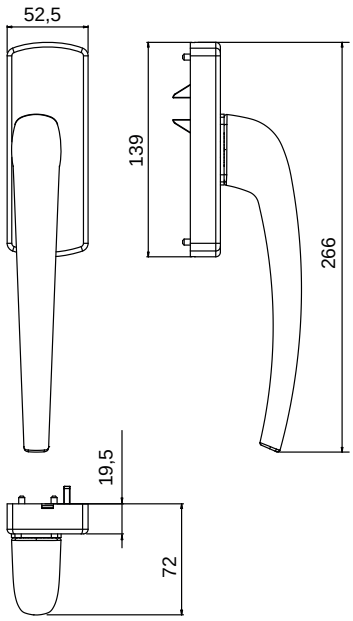
Right and left cremone versions, with and without key, specific for the GS1000-HD tilt and slide system with forced control.

Technical features

Long-handled cremone with specially designed internal mechanism to make it easier to operate sashes weighing up to 200 kg.
The special long-handled cremone consists of:
• cremone
• cover
• component connecting to the drive rod

Materials

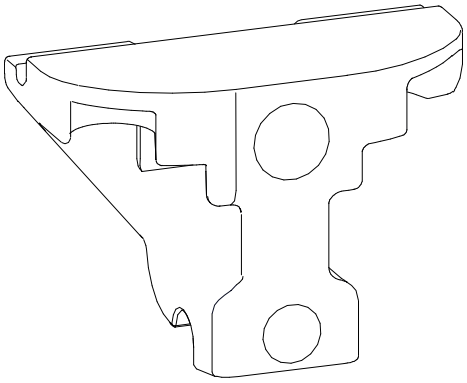
Handle in die-cast aluminium
Case and rack made of zamak
Aluminium cover
Steel screws and bolts



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09736N	GS1000-HD RH CREMONE	-	-	-	-	X	X	X	X	X	X		1
09737N	GS1000-HD LH CREMONE	-	-	-	-	X	X	X	X	X	X		1
09738N	GS1000-HD RH CREMONE WITH KEY	-	-	-	-	X	X	X		X	X		1
09739N	GS1000-HD LH CREMONE WITH KEY	-	-	-	-	X	X	X		X	X		1

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MOBILE STRIKER



Functions

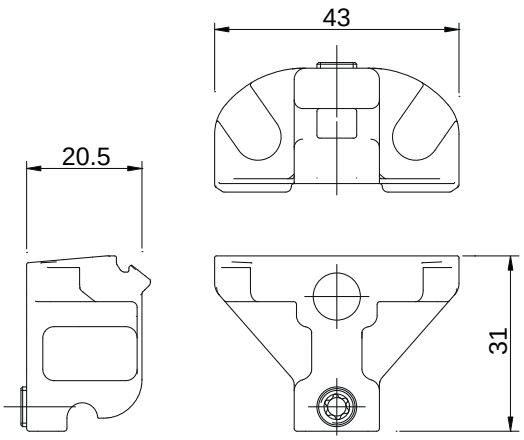
Component for positioning the mobile sash for GS1000 tilt and slide systems.

Technical features

The mobile striker enables run-by of the sliding sash, for opening the secondary sash.
In configurations with an opening secondary sash, this striker replaces the fixed command striker supplied with the hardware set.
The pin with a spring keeps the striker in position and allows it to move in order to allow opening the secondary sash.
Installation can also be performed with a specific template.

Materials

Zamak striker
Spring and pin of steel



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09790	MOBILE STRIKER	-	-	X	X	X	X	X			X		1

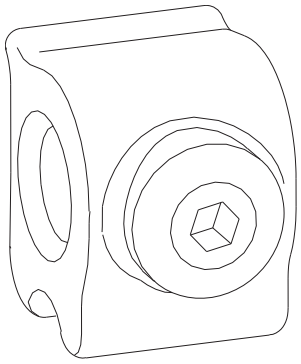
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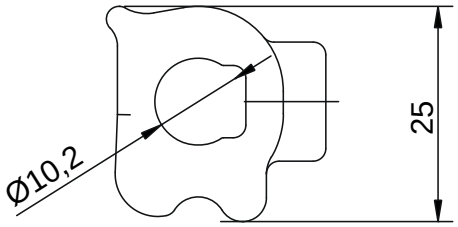
SUPPORT BLOCK

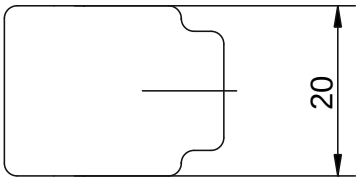
Functions
Component for supporting the pulley connection rod.
For all GS1000 tilt and slide system versions.

Technical features
The support block is used for sash widths > 1480 mm in order to make the connection rod between the two pulleys more stable.

Materials
Nylon block
Steel mounting grubscrew



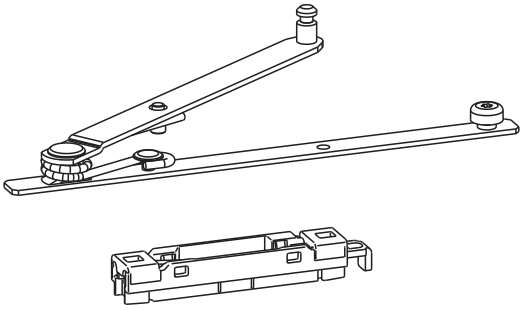




Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09789	SUPPORT BLOCK	-	-	-	X	X	X	X	X				1

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GS1000-HD ADDITIONAL ARM



Functions

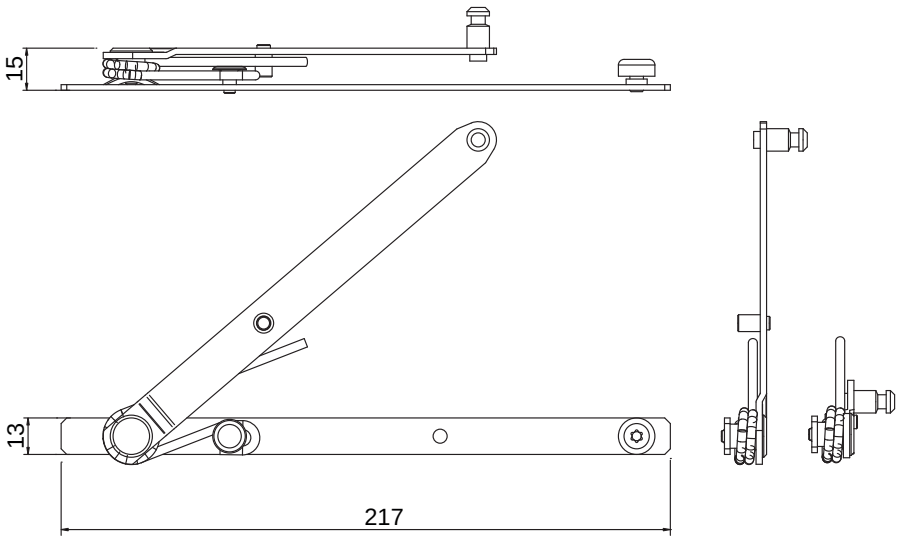
Additional arm for GS1000-HD tilt-and-slide system.

Technical features

The additional arm, thanks to the special spring, facilitates opening the sash in the case of heavy weights.
The element must be installed between the two arms of the GS1000-HD hardware set for sashes weighing more than 160 kg or weighing more than 100 kg and sash profile width > 75 mm.

Materials

Steel arm
Sliders of steel and polyamide



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09759	ADDITIONAL ARM	-	-	-	-	-	X	X	X				1

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INCORRECT MOVEMENT SAFETY DEVICE

Functions

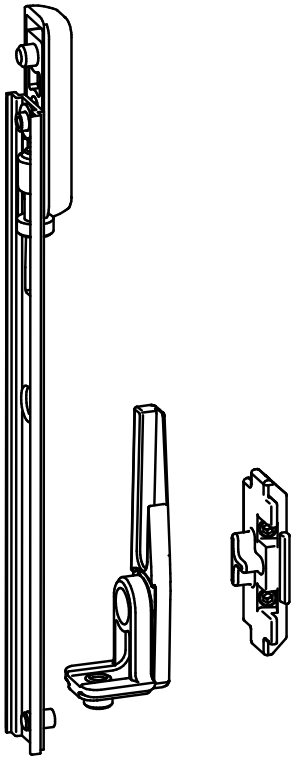
Incorrect movement safety device for the GS1000-HD version of the GS1000 tilt and slide system with forced control, which prevents damage to the hardware in the event of incorrect operation.

Technical features

The incorrect movement safety device enables operating the special long-handled cremone only when the sash is attached to the frame.
The device also prevents the sash from lifting.
Available in two versions, opening to the left or right, depending on the frame channel.

Materials

Incorrect movement safety device made of zamak
Stainless steel grub screws



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09791	GS1000-HD 14/18 LH INCORRECT MOVEMENT SAFETY DEVICE SET	-	C001-C002-C004-C005	-	-	X	X	X	X				1
09792	GS1000-HD 14/18 RH INCORRECT MOVEMENT SAFETY DEVICE SET	-	C001-C002-C004-C005	-	-	X	X	X	X				1
09793	GS1000-HD CE LH INCORRECT MOVEMENT SAFETY DEVICE SET	-	C003	-	-	X	X	X	X				1
09794	GS1000-HD CE RH INCORRECT MOVEMENT SAFETY DEVICE SET	-	C003	-	-	X	X	X	X				1

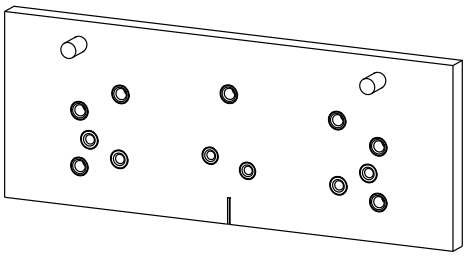
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GS1000-HD CREMONE DRILLING TEMPLATE

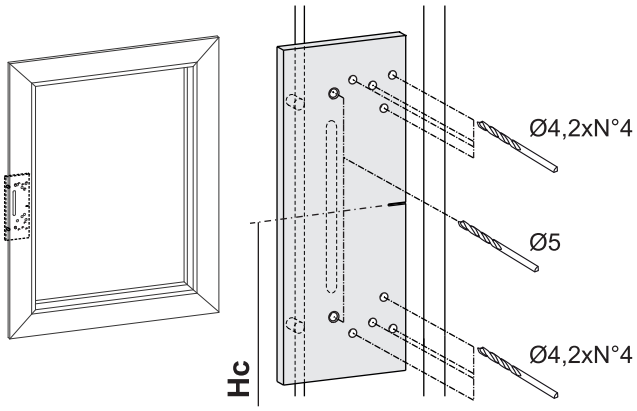
Functions
Drilling template for the special long-handled cremone for the GS1000-HD tilt and slide system.

Technical features
Specific template for GS1000-HD it enables machining the profile for installing the special cremone.
It can also be used for machining the sash profile, necessary for fitting the top guard.

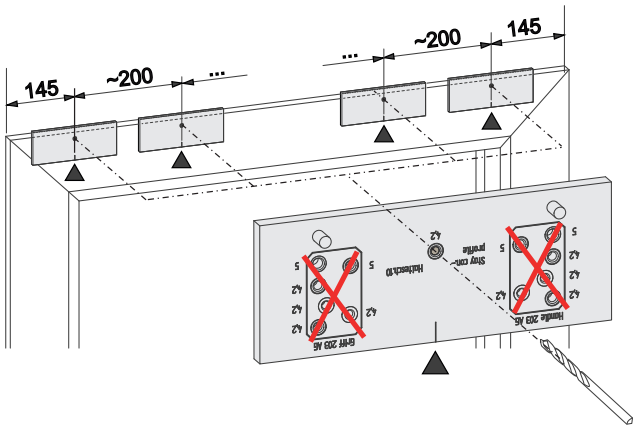
Materials
Aluminium template
Carbonitrided steel tip guide bushings



Machining for cremone



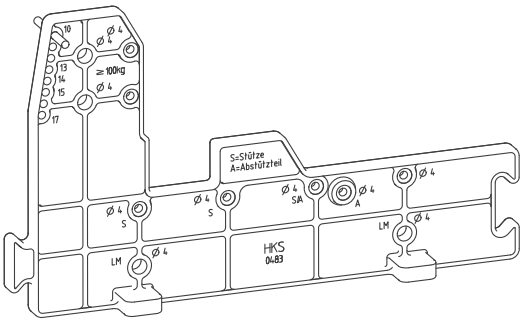
Machining for top guard



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09741N	GS1000-HD CREMONE DRILLING TEMPLATE	-	-	-	-	X	X	X	X				1

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GS1000 PULLEY DRILLING TEMPLATE



Functions

Pulley drilling template for all GS1000 tilt and slide system versions.

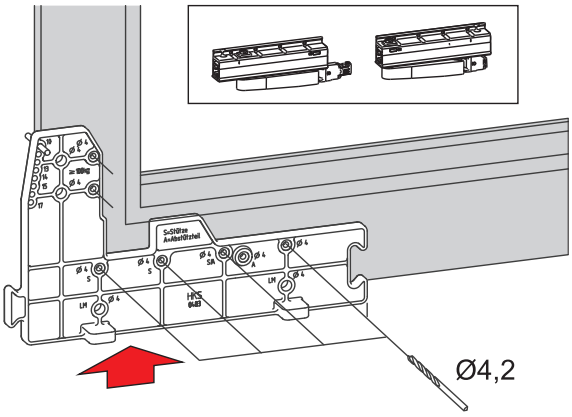
Technical features

This is used for drilling the profile in order to install the pulleys, side reinforcements and bottom guard support.
Reversible for right and left pulley.
Combined with another identical template it also permits the drilling for the double pulleys.
Made of polyamide with carbonitrided steel tip guide bushings.

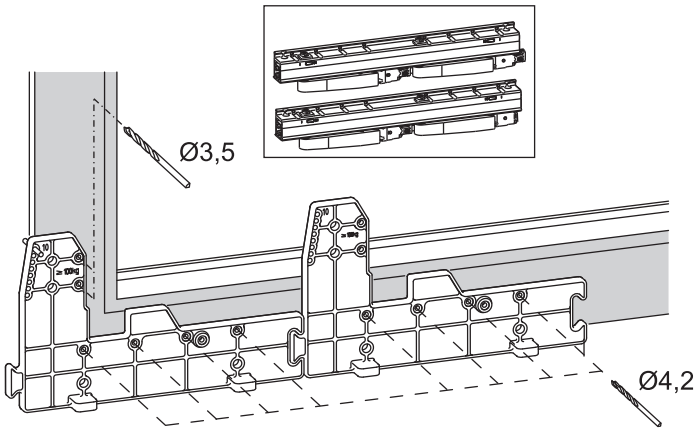
Materials

Polyamide template body
Carbonitrided steel tip guide bushings and pins

Application for single pulleys



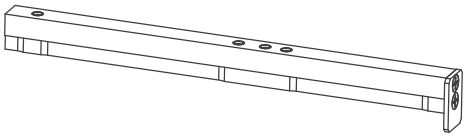
Application for double pulleys



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09801	PULLEY DRILLING TEMPLATE	-	-	X	X	X	X	X	X				1

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GS1000-HD ARM AND DRIVE DRILLING TEMPLATE

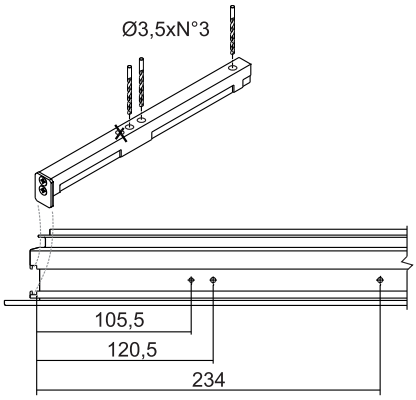


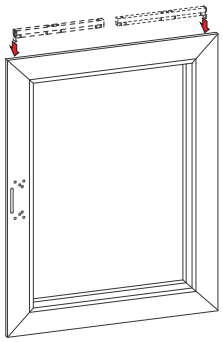
Functions
Arms and corner drive drilling template for the GS1000 HD version.

Technical features
Specific for GS1000-HD it enables drilling the sash for fitting the opening arms and for fitting the drives of the special fastening mechanisms.

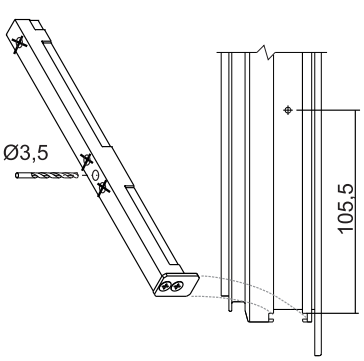
Materials
Aluminium template
Carbonitrided steel tip guide bushings

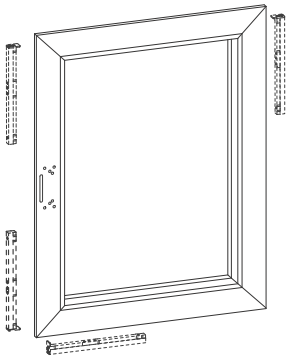
Machining for arms





Machining for drives

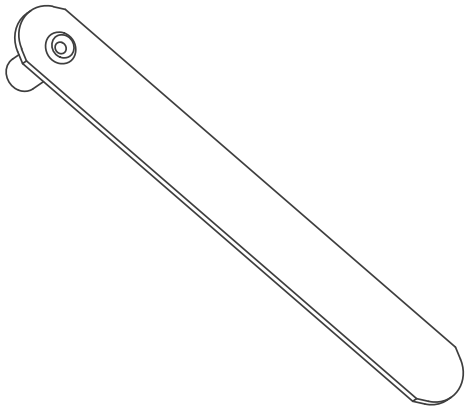




Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09803	GS1000-HD ARM AND DRIVE DRILLING TEMPLATE	-	-	-	-	X	X	X	X				1

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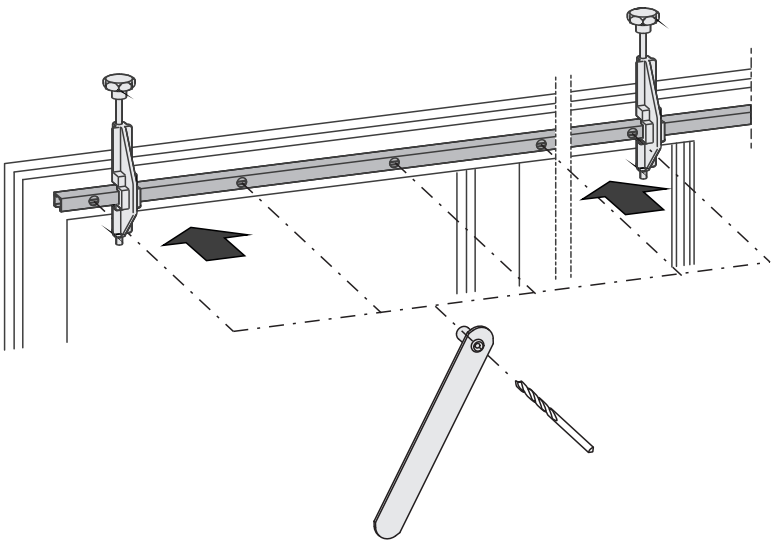
HOLE CENTRING TEMPLATE



Functions
Hole centring template for fixing the rails of the profile set.
For all GS1000 tilt and slide system versions.

Technical features
In combination with the rail fixing template, it enables keeping the drill bit aligned with the existing holes in the rails, ensuring the rails are correctly secured to the profile.

Materials
Steel template body
Carbonitrided steel tip guide bushing



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09804	HOLE CENTRING TEMPLATE	-	-	X	X	X	X	X	X				1

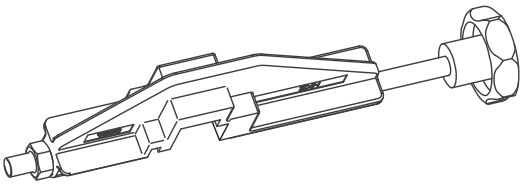
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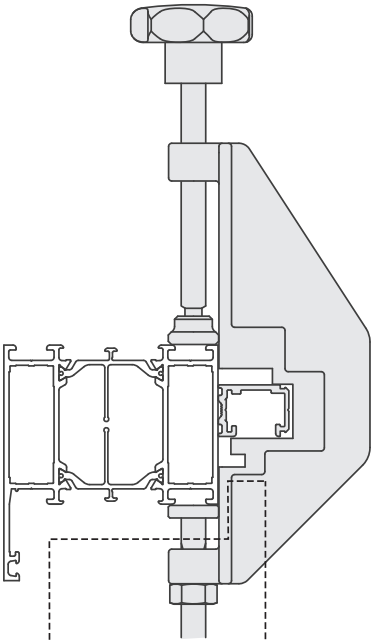
RAIL FIXING TEMPLATE

Functions
Rail fixing template.
For all GS1000 tilt and slide system versions.

Technical features
This enables securely positioning the rails on the profile while making the holes in the frame.

Materials
Aluminium template





Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09805	RAIL FIXING TEMPLATE	-	-	X	X	X	X	X	X				1

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GS3000 LIFT AND SLIDE SYSTEM



Functions

Complete system for the construction of slide and lift windows with sash weight up to 400 kg, 3750 mm height and 3350 mm width.
Available in the GS3000-150 and GS3000-300/400 version.

Technical Features

GS3000-150

GS3000-150 hardware allows the construction of sashes up to 150 kg, with widths of up to 2400 mm.

GS3000-300/400

GS3000-300/400 hardware allows the construction of sashes from 300 kg to 400 kg, with widths of up to 3350 mm.

GS3000 versions: available characteristics and dimensions

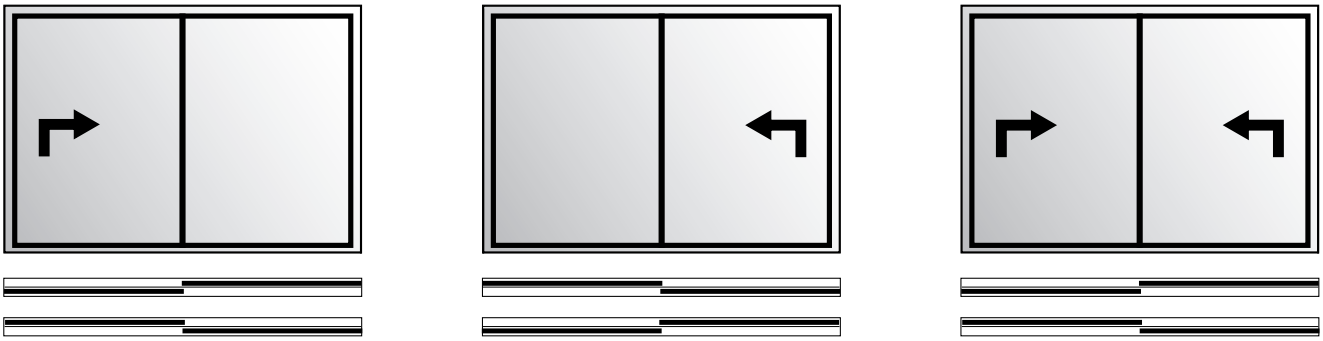
Version	Pulleys 150/18	Pulleys 150/22	Pulleys 300/22	Addit. pulleys	Sash width (W) [mm]	Sash height (H) [mm]	Max sash weight (P) [kg]	Drive gear [mm]	Window handle C/C distance (I) [mm]
GS3000-150	X	X	-	-	600 ÷ 2400	1270 – 2800 1270 – 3450 (*)	150	E=25	43
GS3000-300			X	-	720 ÷ 3350	1150 – 3750 (*)	300	E = 27.5 mm E = 37.5 mm	80
GS3000-400			X	X	1300 ÷ 3350	1150 – 3750 (*)	400	E = 27.5 mm E = 37.5 mm	80

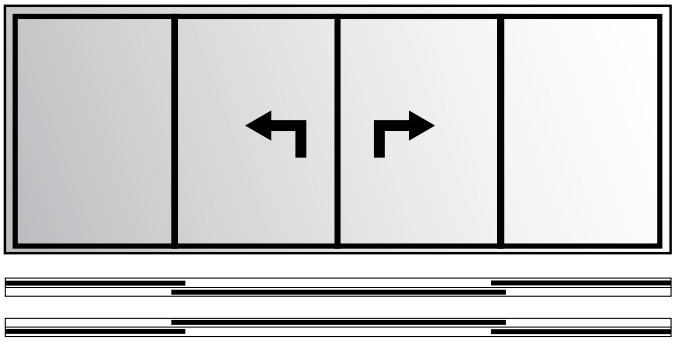
(*) with the use of 650 mm drive gear extension cover

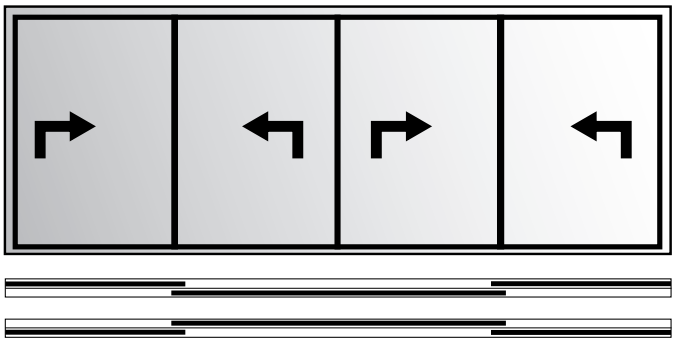
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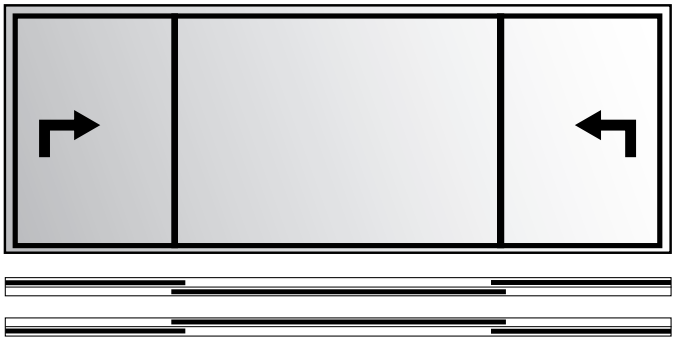
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OPENING SCHEMES









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OVERVIEW OF GS3000 PRODUCTS

Item code	Description	Dimensions	Max sash weight	Compatible with pulleys	Compatible with drive gear backset	Compatible with window handle C/C distance (I)	Version GS3000-150	Version GS3000-300/400
07101	300/22 PULLEYS - GS3000	22 mm slot	300 kg	-	E = 27.5 mm E = 37.5 mm	80 mm	-	X
07102	ADDITIONAL PULLEY 300/22-GS3000	22 mm slot	300 kg with 1 pulley 400 kg with 2 pulleys	-	E = 27.5 mm E = 37.5 mm	80 mm	-	X
07165	150/18 PULLEYS - GS3000	22 mm slot	150 kg	-	E =25 mm	43 mm	X	-
07166	150/22 PULLEYS - GS3000	22 mm slot	150 kg	-	E =25 mm	43 mm	X	-
07105	DRIVE GEAR KEY H170 E37.5-GS3000	E =37.5 mm	-	300/22	-	80 mm	X	X
07106	DRIVE GEAR KEY H190 E37.5-GS3000	E =37.5 mm	-	300/22	-	80 mm	X	X
0710701	DRIVE GEAR KEY H200 E37.5-GS3000	E =37.5 mm	-	300/22	-	80 mm	X	X
0710801	DRIVE GEAR KEY H230 E37.5-GS3000	E =37.5 mm	-	300/22	-	80 mm	X	X
0710901	DRIVE GEAR KEY H260 E37.5-GS3000	E =37.5 mm	-	300/22	-	80 mm	X	X
0711001	DRIVE GEAR KEY H300 E37.5-GS3000	E =37.5 mm	-	300/22	-	80 mm	X	X
07133	DRIVE GEAR KEY H170 E27.-5-GS3000	E =27.5 mm	-	300/22	-	80 mm	X	X
07134	DRIVE GEAR H190 E27.5-GS3000	E =27.5 mm	-	300/22	-	80 mm	X	X
0713501	DRIVE GEAR KEY H200 E27.5-GS3000	E =27.5 mm	-	300/22	-	80 mm	X	X
0713601	DRIVE GEAR KEY H230 E27.5-GS3000	E =27.5 mm	-	300/22	-	80 mm	X	X
0713701	DRIVE GEAR KEY H260 E27.-5-GS3000	E =27.5 mm	-	300/22	-	80 mm	X	X
0713801	DRIVE GEAR KEY H300 E27.5-GS3000	E =27.5 mm	-	300/22	-	80 mm	X	X

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OVERVIEW OF GS3000 PRODUCTS

Item code	Description	Dimensions	Max sash weight	Compatible with pulleys	Compatible with drive gear backset	Compatible with window handle C/C distance (I)	Version GS3000-150	Version GS3000-300/400
07161	GS3000 ROD EXTENSION COVER	-	-	-	-	-	X	X
07146	PULLEYS CONNECTION ROD 900 - GS3000	W = 900 mm	-	-	-	-	X	X
07147	PULLEYS CONNECTION ROD 1400 - GS3000	W = 1400 mm	-	-	-	-	X	X
07148	PULLEYS CONNECTION ROD 1900 - GS3000	L = 1900 mm	-	-	-	-	X	X
07149	FIXED LOCKING POINT	13 – 16 mm	-	-	-	-	X	X
07150	ADJUSTABLE LOCKING POINT	13 – 25 mm	-	-	-	-	X	X
07151	MICRO-VENTILATION LOCKING POINT	13 – 16 mm	-	-	-	-	X	X
07152	OPPOSING SASHES LOCKING POINT	13 – 16 mm	-	-	-	-	X	X
07153	SHIMS 11 FOR ROD AND PULLEY-GS3000	11 mm	-	-	-	-	X	X
07154	SHIMS 14 FOR ROD AND PULLEY-GS3000	14 mm	-	-	-	-	X	X
07155	SHIMS 16 FOR ROD AND PULLEY-GS3000	16 mm	-	-	-	-	X	X
07156	SHIMS 18 FOR ROD AND PULLEY-GS3000	18 mm	-	-	-	-	X	X
07157	SHIMS 21 FOR ROD AND PULLEY-GS3000	21 mm	-	-	-	-	X	X
07158	SHIMS 23 FOR ROD AND PULLEY-GS3000	23 mm	-	-	-	-	X	X
07159	SHIMS 25 FOR ROD AND PULLEY-GS3000	25 mm	-	-	-	-	X	X
07160	SHIMS 30 FOR ROD AND PULLEY-GS3000	30 mm	-	-	-	-	X	X
07162	PULLEY SHIM - GS3000	-	-	-	-	-	X	X
07163	SHIM FOR LOCKING POINT - GS3000	-	-	-	-	-	X	X

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OVERVIEW OF GS3000 PRODUCTS

Item code	Description	Dimensions	Max sash weight	Compatible with pulleys	Compatible with drive gear backset	Compatible with window handle C/C distance (I)	Version GS3000-150	Version GS3000-300/400
07164	MACHINING COVER CAPS KIT GS3000	-	-	-	-	-	X	X
07967	MACHINING COVER CAPS KIT GS3000	-	-	-	-	-	X	X
0797701	CENTRAL ANTI-LIFTING PLUGS KIT -GS3000	-	-	-	-	-	X	X
07978	CENTRAL ANTI-LIFTING PLUGS KIT -GS3000	-	-	-	-	-	X	X
0243601	PRIMA WINDOW HANDLE L240-I43 GS3000	W = 240 mm	-	150/18 - 150/22	E =25 mm	43 mm	-	X
0243701	PRIMA WINDOW HANDLE L240-I80 GS3000	W = 240 mm	-	300/22 - 150/18 - 150/22	E = 27.5 mm E = 37.5 mm	80 mm	X	X
0243801	PRIMA WINDOW HANDLE L240 KEY-I80 GS3000	W = 240 mm	-	300/22 - 150/18 - 150/22	E = 27.5 mm E = 37.5 mm	80 mm	X	X
0243901	PRIMA WINDOW HANDLE L240-I80 GS3000 (PAIR)	W = 240 mm	-	300/22 - 150/18 - 150/22	E = 27.5 mm E = 37.5 mm	80 mm	X	X
0243201	ASIA WINDOW HANDLE L240-I43 GS3000	W = 240 mm	-	150/18 - 150/22	E =25 mm	43 mm	-	X
0244601	ASIA WINDOW HANDLE L240-I80 GS3000	W = 240 mm	-	300/22 - 150/18 - 150/22	E = 27.5 mm E = 37.5 mm	80 mm	X	X
0244701	ASIA WINDOW HANDLE L240 KEY-I80 GS3000	W = 240 mm	-	300/22 - 150/18 - 150/22	E = 27.5 mm E = 37.5 mm	80 mm	X	X
0244801	ASIA WINDOW HANDLE L240-I80 GS3000 (PAIR)	W = 240 mm	-	300/22 - 150/18 - 150/22	E = 27.5 mm E = 37.5 mm	80 mm	X	X
0246701	KORA WINDOW HANDLE L240-I80 GS3000	W = 240 mm	-	150/18 - 150/22	E =25 mm	43 mm	X	-
0246801	KORA WINDOW HANDLE L240-I80 GS3000	W = 240 mm	-	300/22	E = 27.5 mm E = 37.5 mm	80 mm	-	X
0246901	KORA WINDOW HANDLE L240 KEY-I80 GS3000	W = 240 mm	-	300/22	E = 27.5 mm E = 37.5 mm	80 mm	-	X
0247001	KORA WINDOW HANDLE L240 CP-I80 GS3000	W = 240 mm	-	300/22	E = 27.5 mm E = 37.5 mm	80 mm	-	X
02764	EXTERNAL RECESS PULL HANDLE	-	-	150/18 - 150/22	E =25 mm	-	X	-
0799501	RECESS HANDLE-GS3000	-	-	300/22	E = 27.5 mm E = 37.5 mm	80 mm	-	X

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GS3000 - 300/400 LIFT AND SLIDE

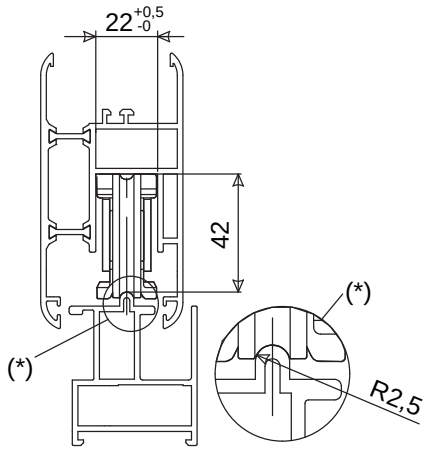
Functions

Lift and slide hardware system to construct sashes from 300 to 400 kg.

Technical Features

The GS3000-300/400 system is composed of:

- 300/22 pulleys (300 kg) for seating in profiles with 22 mm slot and 42 mm slot/track distance, for sashes up to 300 kg
- additional pulley, in addition to the 300/22 pulleys, to be employed for the following cases:
  - 1 additional pulley for sashes wider than 2500 mm and up to 300 kg
  - 2 additional pulleys for sashes up to 400 kg in weight and width >1300 mm
- pulleys connection rod for drive transmission from main to secondary pulley. DEREK To be selected on the basis of sash width
- drive gear with 27.5 mm backset and 37.5 with key. The backset depends on the profile employed and the length of the rod depends on the sash height
- locking points to assemble to the frame, to be selected in accordance with the profile type. The number of mechanisms depends on the sash height
- shims to be selected in accordance with the profile, drive gear and type of locking point employed
- window handle with 80 mm fixing C/C distance, available in CLASSIC and KORA styles, in single version without key and single/double with key.
- external recess handle with 80 mm fixing C/C distance



Available characteristics and sizes

Sash width	L = 720 - 3350 mm
Sash height	H = 1150 - 3750 mm (with extension)
Max sash weight	300 kg (400 kg with two additional pulleys)
Pulleys 300/22	For slot with width A = 22 mm and track distance B = 42 mm
Drive gears	Backset E = 37.5 mm and E = 27.5 mm
Window handle	Handle length L = 240 mm, 80 mm C/C distance and 10 mm square pin. Single and double version, with or without key.

Drive gear with 27.5 mm backset (80 mm fixing C/C distance)



Drive gear with 37.5 mm backset ready for cylinder (80 mm fixing C/C distance)

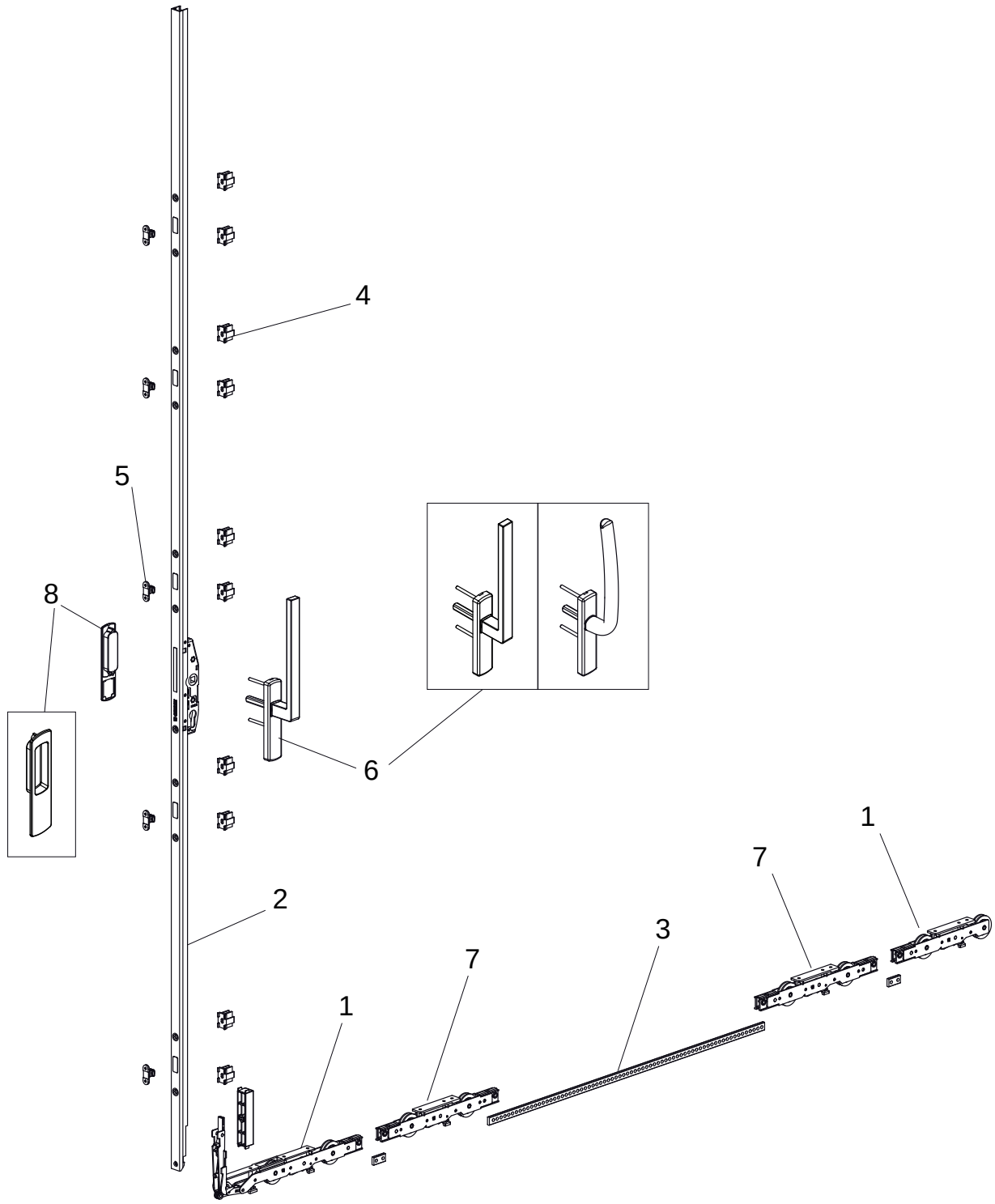


Drive gear extension covering extension for sashes up to 3750 mm high



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GS3000 diagram - 300/400



1 - Pulleys kit
2 - Drive gear
3 - Pulleys connection rod
4 - Shims
5 - Locking points
6 - Window handles
7 - Additional pulley (300 kg with 1 pulley; 400 kg with 2 pulleys)
8 - Recess handle

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GS3000-300 PULLEYS



Functions

Reversible pulleys for GS3000 lift and slide system.

Technical features

Reversible two-wheel pulleys with lever type lifting device, to create operable sashes from 300 to 400 kg.

Pulleys 300/22

Set composed of a primary corner pulley, equipped with a toggle for sash lifting, and a secondary pulley.
Connection and drive of the secondary pulley occurs by means of a connection rod to be cut to length.
Compatible with drive gear with 27.5 and 37.5 mm backset and with window handles having 80 mm fixing C/C distance.
Complete with threaded bushings to fit on the drive gear for use with a single handle and in the external handle, for use of a double handle.

300/22 additional pulley

Additional pulley, to combine with the 300/22 pulleys in the following cases:
- 1 additional pulley for sashes wider than 2500 mm and up to 300 kg
- 2 additional pulleys for sashes up to 400 kg with width >1300 mm

Connection to the other pulleys by means of the length of connection rod supplied.

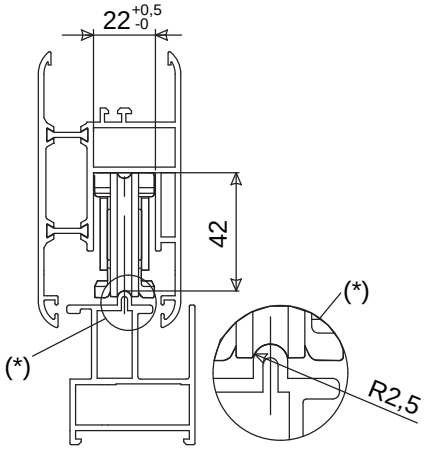
The 300/22 pulleys and 300/22 additional pulley feature a wheel that is compatible with 2.5 mm radius rails.
Both equipped with special support components that keep the wheels raised from the track in the sash closed position.
Supplied complete with fixing screws, connection rod pin and rod guide.

Materials

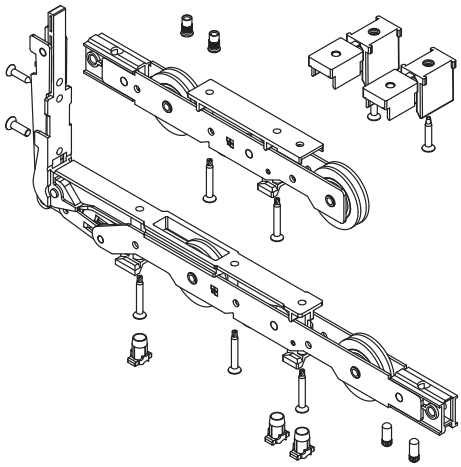
Pulley body in galvanised zamak
Stainless steel side covers
Stainless steel levers, connecting brackets and pins
Fibreglass-reinforced nylon wheels
Connection rod in zinc plated steel
Connection rod guides in fibreglass-reinforced nylon
Fixing screws, zinc-coated steel
Zinc plated steel bushings
Pulley support components in nylon

Capacities

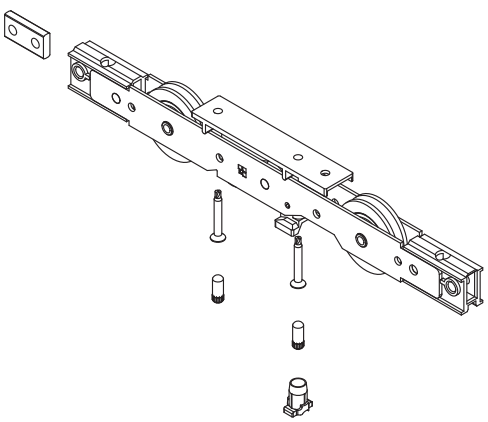
For sashes up to 400 kg.



Pulleys 300/22

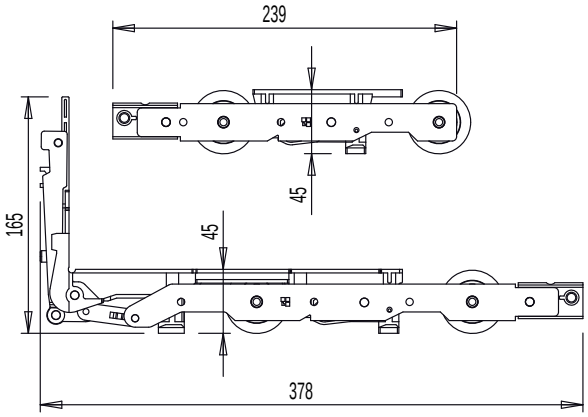


300/22 additional pulley

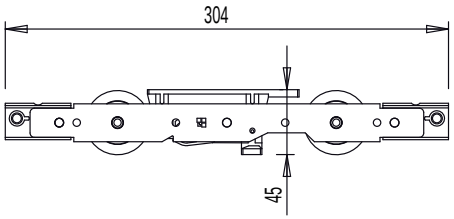


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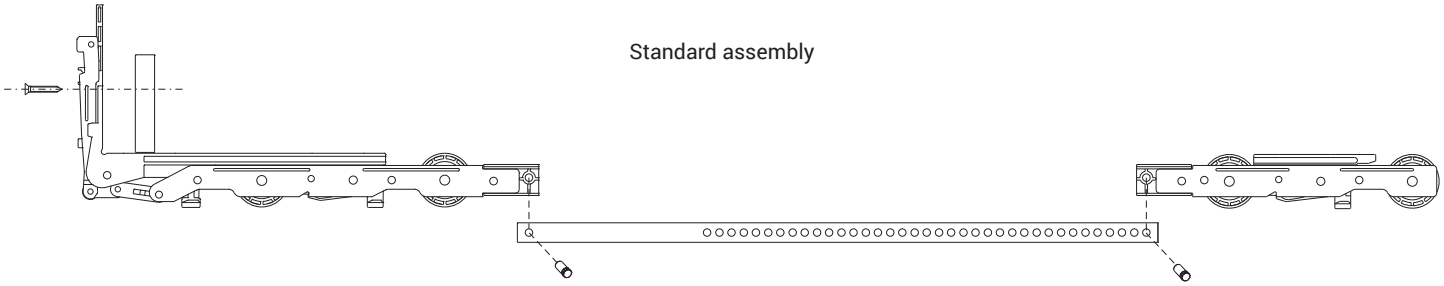
Art. 07101



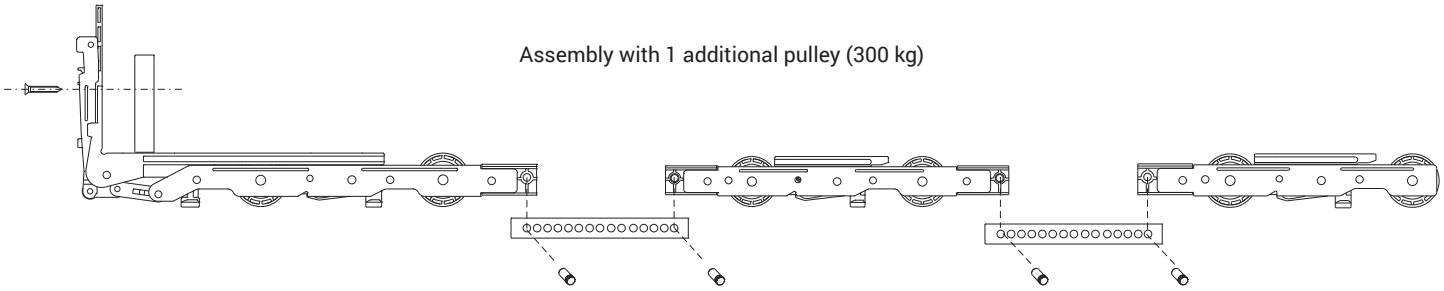
Art. 07102



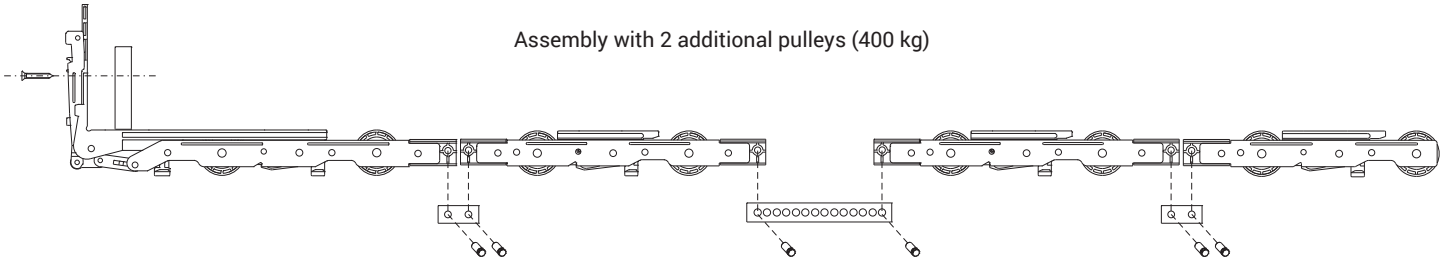
Standard assembly



Assembly with 1 additional pulley (300 kg)



Assembly with 2 additional pulleys (400 kg)



Item code	Description	Slot width (A)	Track height (B)	Max sash weight	Compatible with drive gear	Compatible with window handle C/C distance (I)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07101	300/22 pulleys - GS3000	22 mm	42 mm	300 kg	E = 27.5 E = 37.5	80 mm	X				1
07102	ADDITIONAL PULLEY 300/22-GS3000	22 mm	42 mm	300 kg with 1 pulley 400 kg with 2 pulleys	E = 27.5 mm E = 37.5 mm	80 mm	X				1

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GS3000 DRIVING RODS



Functions

Driving rods for GS3000 lift and slide system.

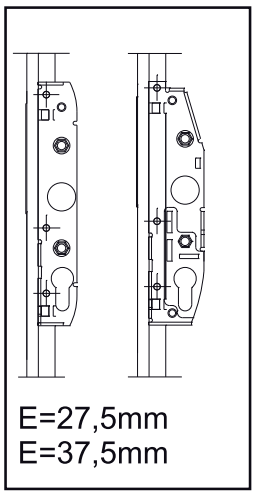
Technical features

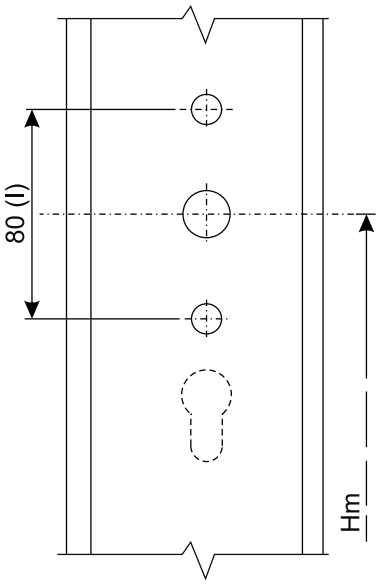
Lift locks for sashes from 150 to 400 kg (with additional pulleys) to select according to profile width, weight and height of sash.
Available in versions with 27.5 mm and 37.5 mm backset.
10 mm square pin.
Available in 6 alternative heights for each version.
Compatible with 150/300 kg pulleys and with window handles with 80 mm fixing c/c distance.
Pre-slotted front plate with up to 5 positions for combination with the locking points.
Cover extension available for all versions of drive gear, to fit to the casement in the hardware slot that the drive gear does not reach.
Allows the construction of sashes up to 3750 mm in height.

Materials

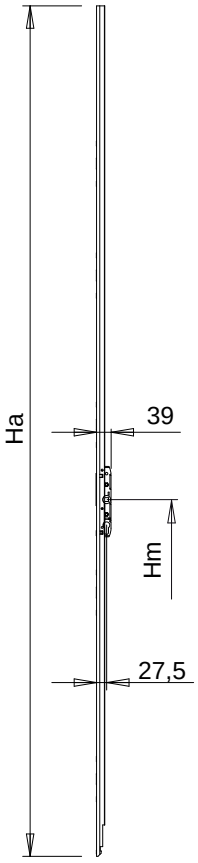
Anodised aluminium front plate
Internal sliding rod in stainless steel
Body of zinc plated steel
Internal parts in zinc plated steel and brass
Anodised aluminium extension cover

Machining on profile

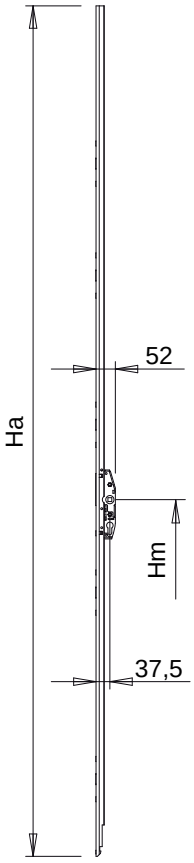




Drive gear with E = 27.5 mm



Drive gear with E = 37.5 mm



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Item code	Description	Backset	Drive gear height (Ha)	Window handle positions (Hm)	Compatible with pulleys	Compatible with window handle C/C distance (I)	Key	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07105	DRIVE GEAR KEY H170 E37.5-GS3000	37.5 mm	1680 mm	354 mm	300/22	80 mm	YES	X				1
07106	DRIVE GEAR KEY H190 E37.5-GS3000	37.5 mm	1880 mm	654 mm	300/22	80 mm	YES	X				1
0710701	DRIVE GEAR KEY H200 E37.5-GS3000	37.5 mm	1980 mm	954 mm	300/22	80 mm	YES	X				1
0710801	DRIVE GEAR KEY H230 E37.5-GS3000	37.5 mm	2280 mm	954 mm	300/22	80 mm	YES	X				1
0710901	DRIVE GEAR KEY H260 E37.5-GS3000	37.5 mm	2580 mm	954 mm	300/22	80 mm	YES	X				1
0711001	DRIVE GEAR KEY H300 E37.5-GS3000	37.5 mm	2980 mm	954 mm	300/22	80 mm	YES	X				1
07133	DRIVE GEAR KEY H170 E27.-5-GS3000	27,5 mm	1680 mm	354 mm	300/22	80 mm	YES	X				1
07134	DRIVE GEAR H190 E27.5-GS3000	27,5 mm	1880 mm	654 mm	300/22	80 mm	YES	X				1
0713501	DRIVE GEAR KEY H200 E27.5-GS3000	27,5 mm	1980 mm	954 mm	300/22	80 mm	YES	X				1
0713601	DRIVE GEAR KEY H230 E27.5-GS3000	27,5 mm	2280 mm	954 mm	300/22	80 mm	YES	X				1
0713701	DRIVE GEAR KEY H260 E27.-5-GS3000	27,5 mm	2580 mm	954 mm	300/22	80 mm	YES	X				1
0713801	DRIVE GEAR KEY H300 E27.5-GS3000	27,5 mm	2980 mm	954 mm	300/22	80 mm	YES	X				1
07161	GS3000 ROD EXTENSION COVER	-	650 mm	-	-	-	NO	X				5

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PULLEYS CONNECTION ROD



Functions

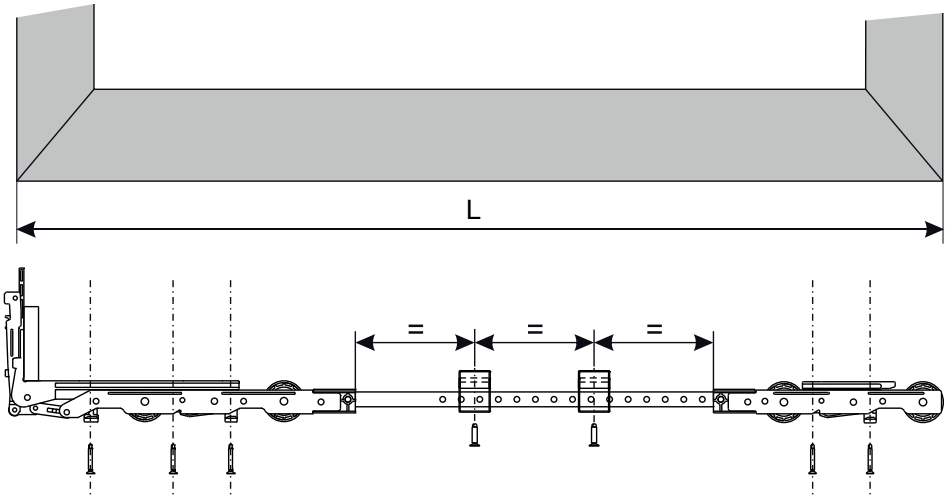
GS3000 lift and slide system pulleys connection rod.

Technical features

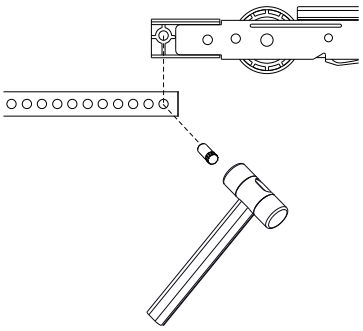
The connection rod transmits drive from the main pulley to the secondary pulley.
Available in three different sizes, to be cut in accordance with the sash width.
Compatible with all pulley versions.

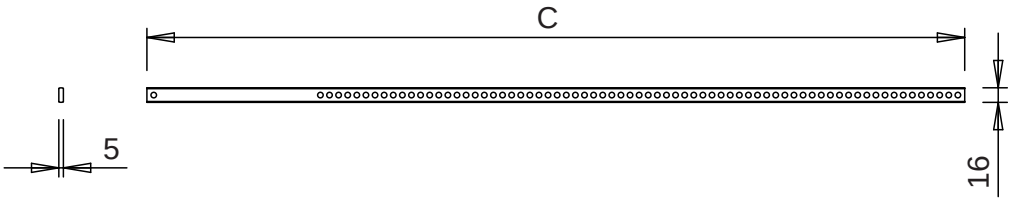
Materials

Zinc plated steel



Rod to pulleys fixing





Item code	Description	Rod length (C)	Sash width (L) (*)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07146	Pulleys connection rod 900 - GS3000	900 mm	600 – 1500 mm	X				5
07147	Pulleys connection rod 1400 - GS3000	1400 mm	1501 – 2000 mm	X				5
07148	Pulleys connection rod 1900 - GS3000	1900 mm	2001 – 2500 mm	X				5

(*) the dimensions are referred to the minimum and maximum sash width that can be constructed with the selected rod. When using additional pulleys the maximum permissible sash width is 3350 mm.

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GS3000 LOCKING POINTS



Functions

Locking points to fit to frame for GS3000 lift and slide system.

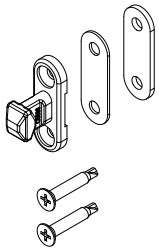
Technical features

Locking points to fit to frame in correspondence with the slots of the drive gear installed on the sash.
Available in several version to be selected in accordance with the profile.
When combined with the appropriate shims for the profile the locking points ensure an optimal sash / frame seal.
The number of locking points required depends on the sash height and the selected drive gear.

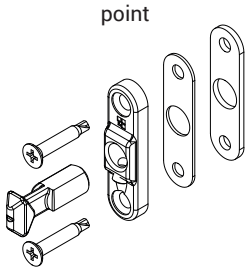
Materials

Nickel-plated brass locking point
Stainless steel shims
Nylon adapter (for opposing sashes version)
Stainless steel mounting plate (for opposing sashes version)
Stainless steel fixing screws

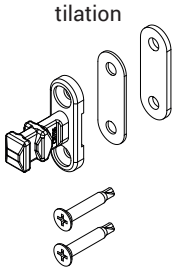
Fixed locking point



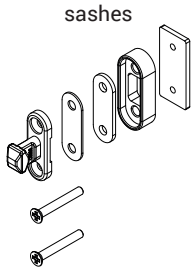
13–25 mm adjustable locking point



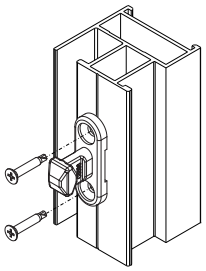
Locking point with Micro-ventilation



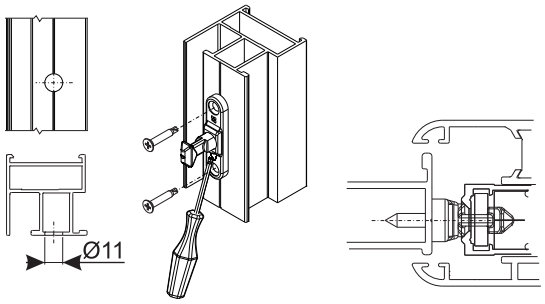
Locking point for opposing sashes



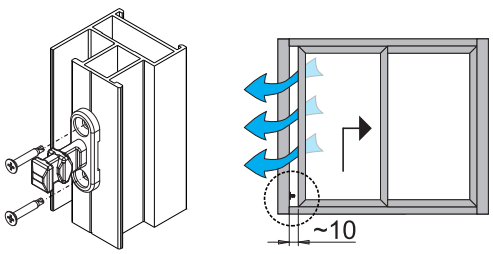
Assembly of fixed locking point



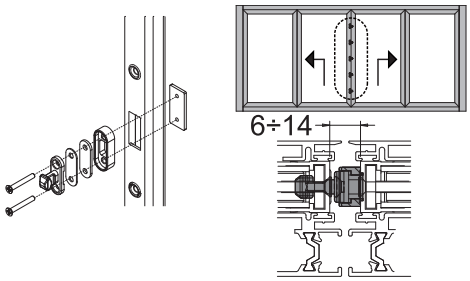
Assembly of 13–25 mm adjustable locking point



Assembly of Micro-ventilation locking point



Assembly of locking point for opposing sashes



Item code	Description	Range	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07149	Fixed locking point	13 – 16 mm	X				10
07150	Adjustable locking point	13 – 25 mm	X				10
07151	Micro-ventilation locking point	13 – 16 mm	X				10
07152	Opposing sashes locking point	13 – 16 mm	X				10

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GS3000 SHIMS



Functions

Profile shims for drive gear and main pulley for GS3000 lift and slide system.

Technical features

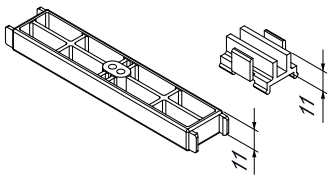
Set of adapters to combine with the drive gear and main pulley to fit the hardware in the profile groove.
Available in various sizes to be selected in accordance with the profile, drive gear and type of locking point employed.
Each set of shims consists of:
• 10 shims to install on drive gear
• 1 shim to install on main pulley
• self-threading fixing screws

Side container shims available to lodge the pulleys in a stable position inside special profile slots without any lateral containment.
The shims are fixed to the profile using grub screws.
Shims available to combine with the fixed locking point and locking point with micro-ventilation.

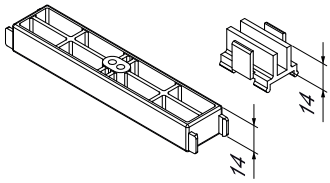
Materials

Polyamide shims
Zinc plated steel self-threading screws
Stainless steel grub screws

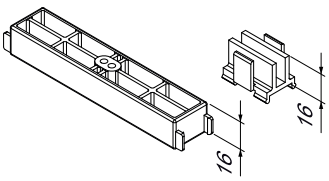
Art. 07153



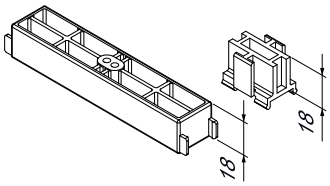
Art. 07154



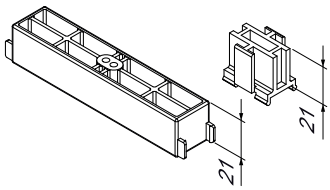
Art. 07155



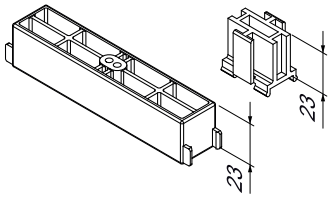
Art. 07156



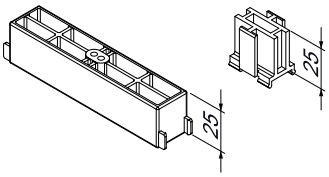
Art. 07157



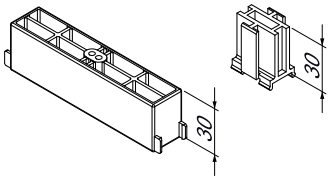
Art. 07158



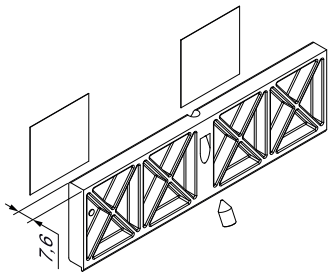
Art. 07159



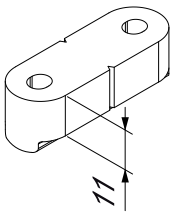
Art. 07160



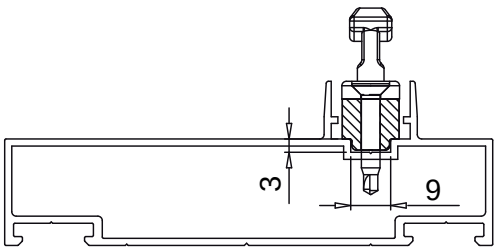
Art. 07162



Art. 07163

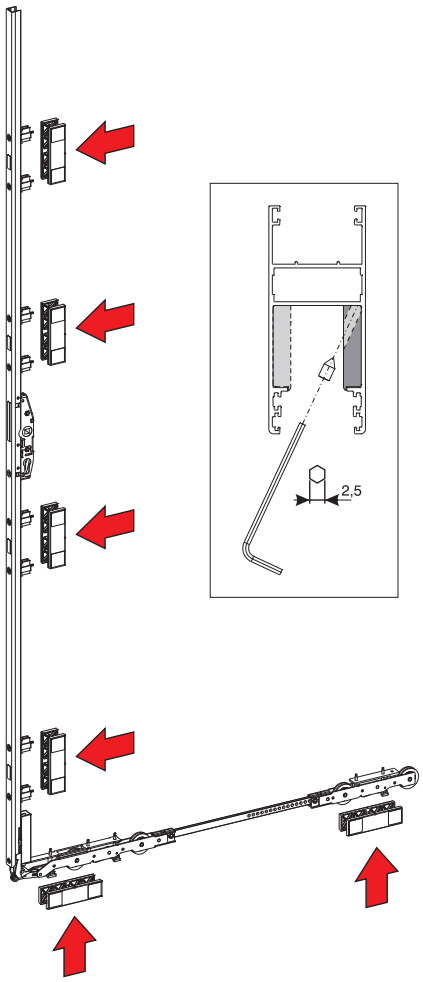


Shim fitting for locking point

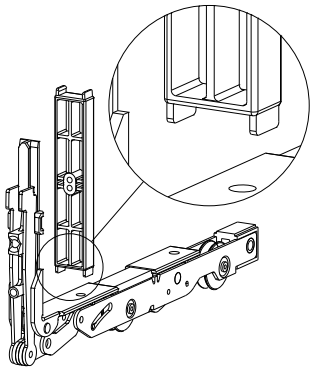


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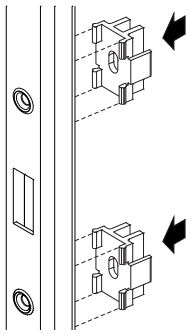
Lateral container shims assembly diagram

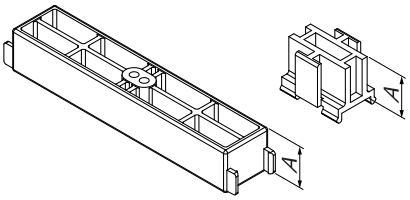


Assembly of main pulley shim



Assembly of shims to drive gear

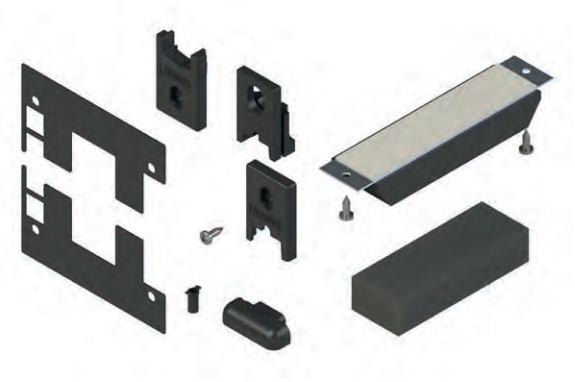




Item code	Description	Dimension (A)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07153	SHIMS 11 FOR ROD AND PULLEY-GS3000	11 mm	X				1
07154	SHIMS 14 FOR ROD AND PULLEY-GS3000	14 mm	X				1
07155	SHIMS 16 FOR ROD AND PULLEY-GS3000	16 mm	X				1
07156	SHIMS 18 FOR ROD AND PULLEY-GS3000	18 mm	X				1
07157	SHIMS 21 FOR ROD AND PULLEY-GS3000	21 mm	X				1
07158	SHIMS 23 FOR ROD AND PULLEY-GS3000	23 mm	X				1
07159	SHIMS 25 FOR ROD AND PULLEY-GS3000	25 mm	X				1
07160	SHIMS 30 FOR ROD AND PULLEY-GS3000	30 mm	X				1

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GS3000 MACHINING COVER CAPS



Functions

Machining cover caps for GS3000 lift and slide system.

Technical features

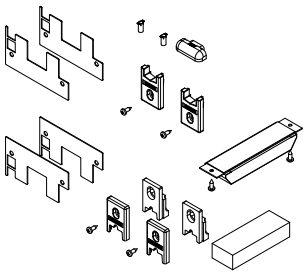
The machining cover caps kit contains all the components required to complete a two-sash lift and slide casement:
• top dust-proof plug and lower central sponge to fit in frame, in correspondence with the central labyrinth, to restrict the circulation of dust and passage of air
• top and bottom cover caps to conceal machinings on sash central upright
• lower sealing buffers to increase seal on track
• drainage cap, to fit to the frame lower cross-beam for fast drainage of water from the frame groove to outside the room
• sealing plates to seal the joint between stile and cross-beam in frames with 90° cut
• drainage tubes to position on frame lower cross-beam

A central and anti-lifting plugs kit is also available, composed of:
• top dust-proof plug and lower central sponge to fit in frame, in correspondence with the central labyrinth, to restrict the circulation of dust and passage of air
• top and bottom machining cover caps equipped with buffers to absorb closing impact between sash and frame
• anti-lifting plug to be fitted in frame top corner. Designed to prevent sash from being removed simply by lifting it from bottom track
• anti-lifting shims to fit in correspondence with sash side stile

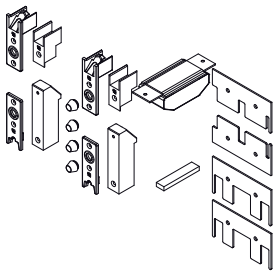
Materials

Top dust-proof plug composed of plastic body with sponge
Central lower sponge in expanded rubber
Stainless steel screws
Machining cover caps and anti-lifting plugs in fibreglass-reinforced polyamide
Lower sealing buffers in rubber
Cap and drainage tubes in fibreglass-reinforced polyamide
Sealing plates in adhesive rubber
Rubber dampers

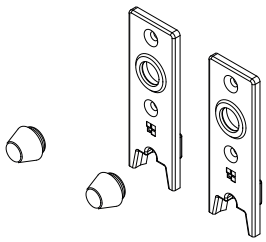
Machining cover kit for 2-sash lift and slide casement



Machining cover and anti-lifting kit



Lower machining cover caps



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07967	MACHINING COVER CAPS KIT GS3000		X				5
07978	CENTRAL ANTI-LIFTING PLUGS KIT -GS3000		X				5

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KORA WINDOW HANDLE GS3000-300



Functions

Window handles for GS3000-300 lift and slide system.

Technical features

Long window handles for lift and slide window with KORA style to construct sashes up to 400 kg.
10 mm square pin.
80 mm fixing C/C distance.
Available in single version with and without key and in double version with key.
Compatible with driving rod with 27.5 and 37.5 mm backset.
Can be combined with recess handles with 80 mm C/C distance.

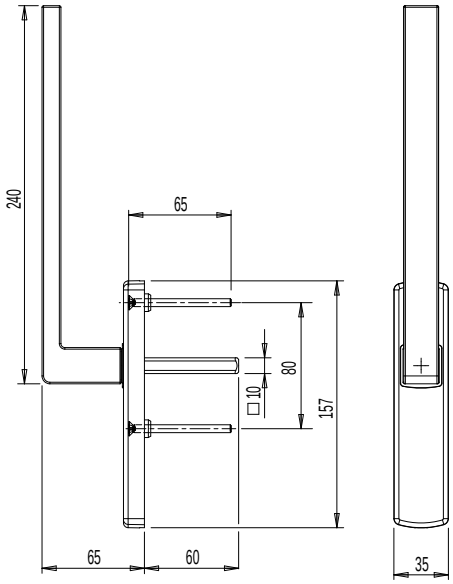
Materials

Aluminium handle and cover
Zamak case
Rotor made of zinc-plated steel
Trim ring made of acetal resin
Square pin in zinc plated steel
Fixing screws, zinc-coated steel

KORA window handle L240 -I80



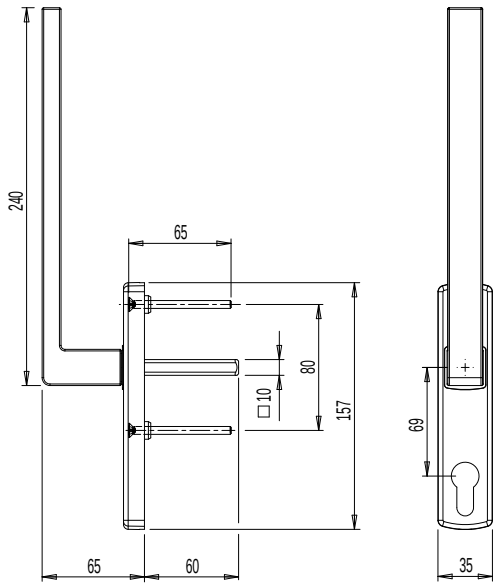
KORA window handle dimensions L240 -I80



KORA window handle L240 KEY -I80

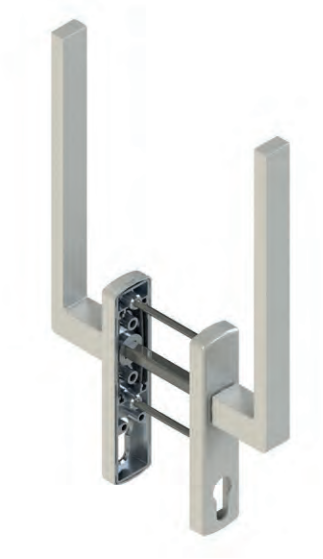


KORA window handle dimensions L240 KEY -I80

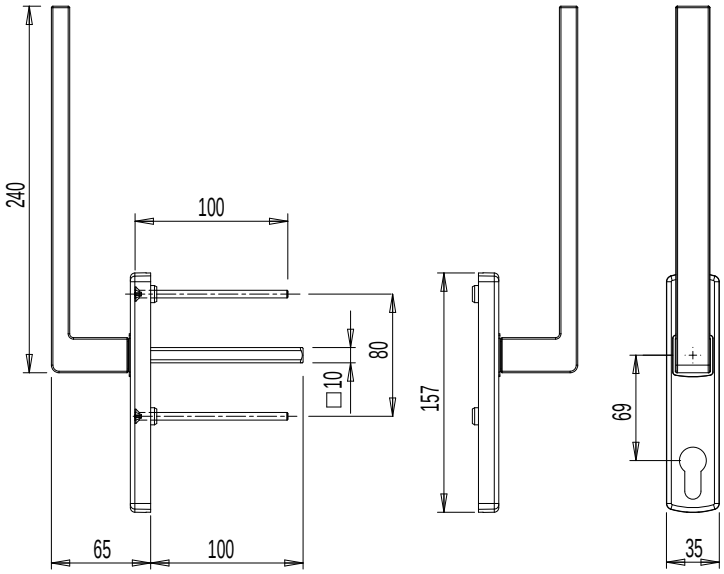


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KORA window handle L240 CP -I80



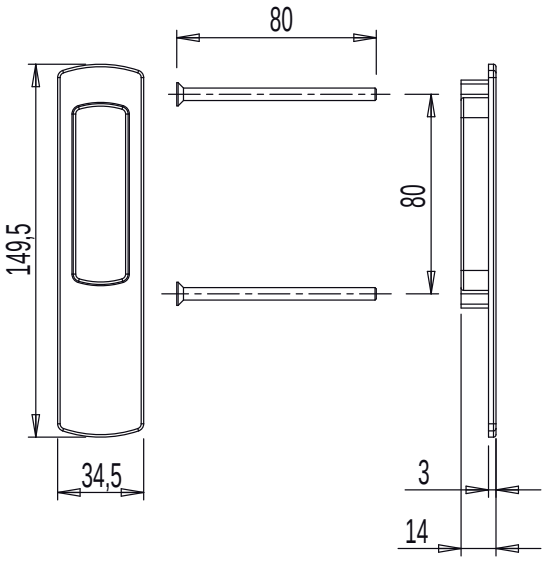
KORA window handle dimensions L240 CP -I80



Recess handle



Recess handle dimensions



Item code	Description	C/C distance (I)	Handle length (L)	Compatible with drive gear	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0246801	KORA WINDOW HANDLE L240-I80 GS3000	80 mm	240 mm	E = 27.5mm/E = 37.5mm	X	X	X	X	1
0246901	KORA WINDOW HANDLE L240 KEY-I80 GS3000	80 mm	240 mm	E = 27.5mm/E = 37.5mm	X	X	X	X	1
0799501	RECESS HANDLE	80 mm	-	E = 27.5mm/E = 37.5mm	X		X	X	5

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ASIA WINDOW HANDLE GS3000-300



Functions

Window handles for GS3000-300 lift and slide system.

Technical features

Long window handles for lift and slide window with ASIA style to construct sashes up to 400 kg.
10 mm square pin.
80 mm fixing C/C distance.
Available in single version with and without key and in double version with key.
Compatible with driving rod with 27.5 and 37.5 mm backset.
Can be combined with recess handles with 80 mm C/C distance.

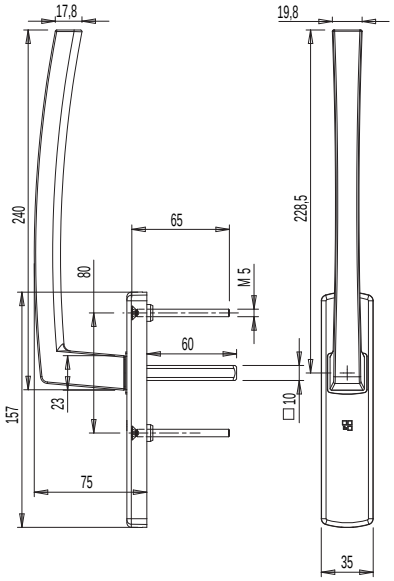
Materials

Aluminium handle and cover
Zamak case
Rotor made of zinc-plated steel
Trim ring made of acetal resin
Square pin in zinc plated steel
Fixing screws, zinc-coated steel

ASIA window handle L240 -I80



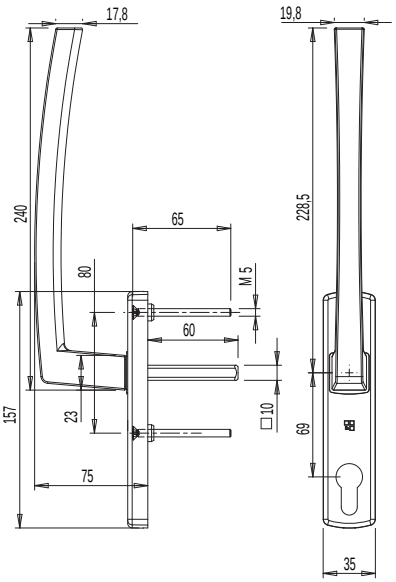
ASIA window handle dimensions L240 -I80



ASIA window handle L240 KEY-I80



ASIA window handle dimensions L240 KEY -I80

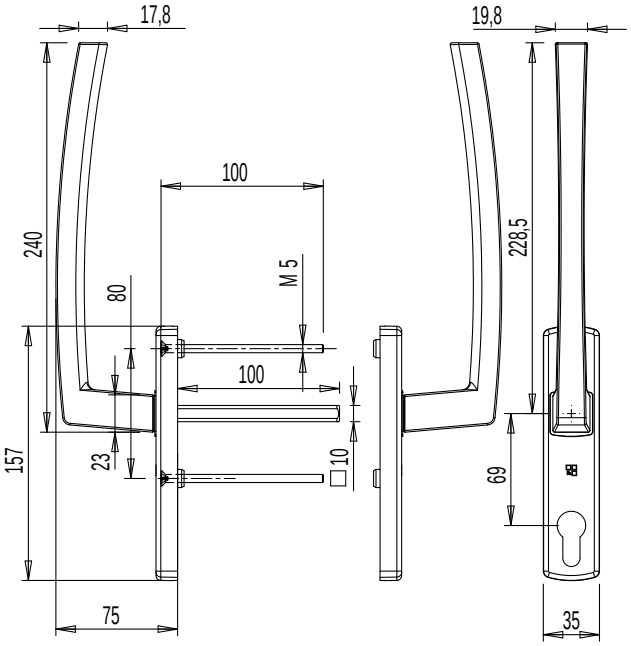


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ASIA window handle L240 CP -I80



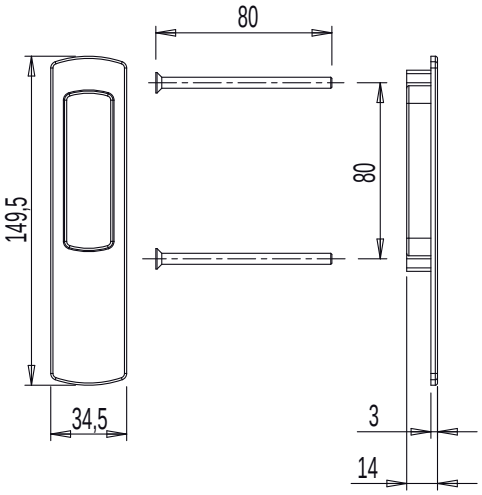
ASIA window handle dimensions L240 CP -I80



Recess handle



Recess handle dimensions



Item code	Description	C/C distance (I)	Handle length (L)	Compatible with drive gear	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0244601	ASIA WINDOW HANDLE L240-I80 GS3000	80 mm	240 mm	E = 27.5mm/E = 37.5mm	X	X	X	X	1
0244701	ASIA WINDOW HANDLE L240 KEY-I80 GS3000	80 mm	240 mm	E = 27.5mm/E = 37.5mm	X	X	X	X	1
0244801	ASIA WINDOW HANDLE L240-I80 GS3000 (PAIR)	80 mm	240 mm	E = 27.5mm/E = 37.5mm	X	X	X	X	1
0799501	RECESS HANDLE	80 mm	-	E = 27.5mm/E = 37.5mm	X		X	X	5

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PRIMA WINDOW HANDLE GS3000-300



Functions

Window handles for GS3000-300 lift and slide system.

Technical features

Long window handles for lift and slide window with PRIMA style to construct sashes up to 400 kg.
10 mm square pin.
80 mm fixing C/C distance.
Available in single version with and without key and in double version with key.
Compatible with driving rod with 27.5 and 37.5 mm backset.
Can be combined with recess handles with 80 mm C/C distance.

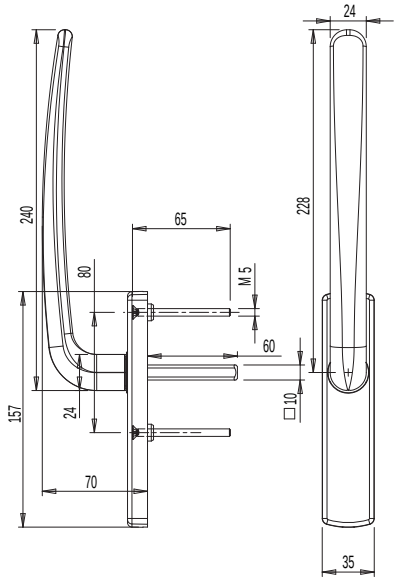
Materials

Aluminium handle and cover
Zamak case
Rotor made of zinc-plated steel
Trim ring made of acetal resin
Square pin in zinc plated steel
Fixing screws, zinc-coated steel

PRIMA window handle L240 -I80



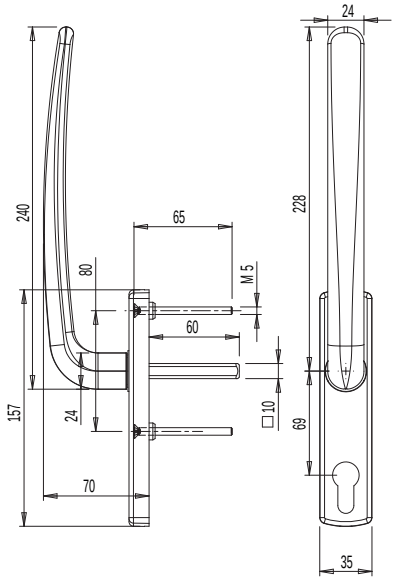
PRIMA window handle dimensions L240 -I80



PRIMA window handle L240 KEY-I80



PRIMA window handle dimensions L240 KEY -I80

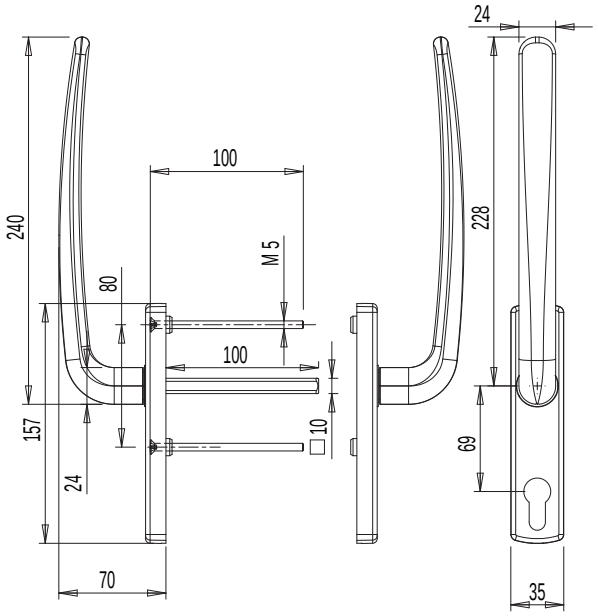


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PRIMA window handle L240 CP -I80



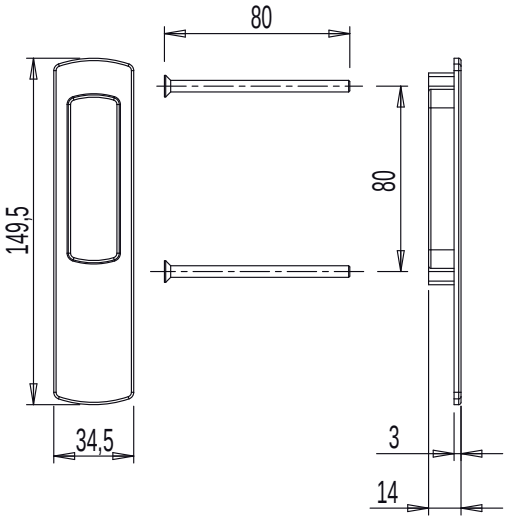
PRIMA window handle dimensions L240 CP -I80



Recess handle



Recess handle dimensions



Item code	Description	C/C distance (I)	Handle length (L)	Compatible with drive gear	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0243701	PRIMA WINDOW HANDLE L240-I80 GS3000	80 mm	240 mm	E = 27.5mm/E = 37.5mm	X	X	X	X	1
0243801	PRIMA WINDOW HANDLE L240 KEY-I80 GS3000	80 mm	240 mm	E = 27.5mm/E = 37.5mm	X	X	X	X	1
0243901	PRIMA WINDOW HANDLE L240-I80 GS3000 (PAIR)	80 mm	240 mm	E = 27.5mm/E = 37.5mm	X	X	X	X	1
0799501	RECESS HANDLE	80 mm	-	E = 27.5mm/E = 37.5mm	X		X	X	5

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GS3000 - 150 LIFT AND SLIDE SYSTEM

Functions

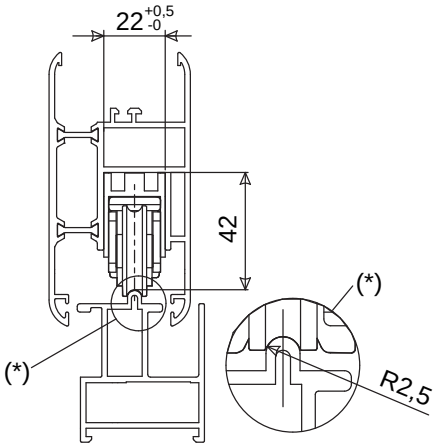
Hardware system to construct lift and slide casements with sashes of up to 150 kg.

Technical Features

The GS3000-150 system is composed of:

- 150 kg pulleys available in two versions
  - 150/18 pulleys with adapters for seating in profiles with 22 mm slot and 42 mm slot/track distance
  - 150/22 pulleys with adapters for seating in profiles with 22 mm slot and 30 mm slot/track distance
- pulleys connection rod for drive transmission from main to secondary pulley. To be selected on the basis of sash width
- drive gear with 25 mm backset without key. To select from among the available versions in accordance with the sash height
- locking points to assemble to the frame, to be selected in accordance with the profile type. The number of mechanisms depends on the sash height
- shims for drive gear and main pulley, to be selected in accordance with the profile, drive gear and type of locking point
- window handle with 43 mm fixing C/C distance without key, available in CLASSIC and KORA styles
- external recess handle with 43 mm fixing C/C distance

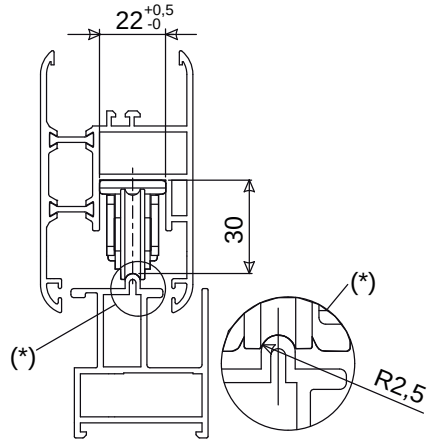
Pulleys 150/18



Available characteristics and sizes

Sash width	L = 600 - 2400 mm
Sash height	H = 1270 - 3450 mm (with extension)
Max sash weight	150 kg
Pulleys 150/22	For slot with width A = 22 mm and track distance B = 30 mm
Pulleys 150/18	For slot with width A = 22 mm and track distance B = 42 mm
Drive gears	Backset E = 25 mm
Window handle	Window handle with L = 240, 43 mm C/C distance and 10/7 mm dual section square pin. Single version.

Pulleys 150/22



Drive gear with 25 mm backset (43 mm fixing C/C distance)

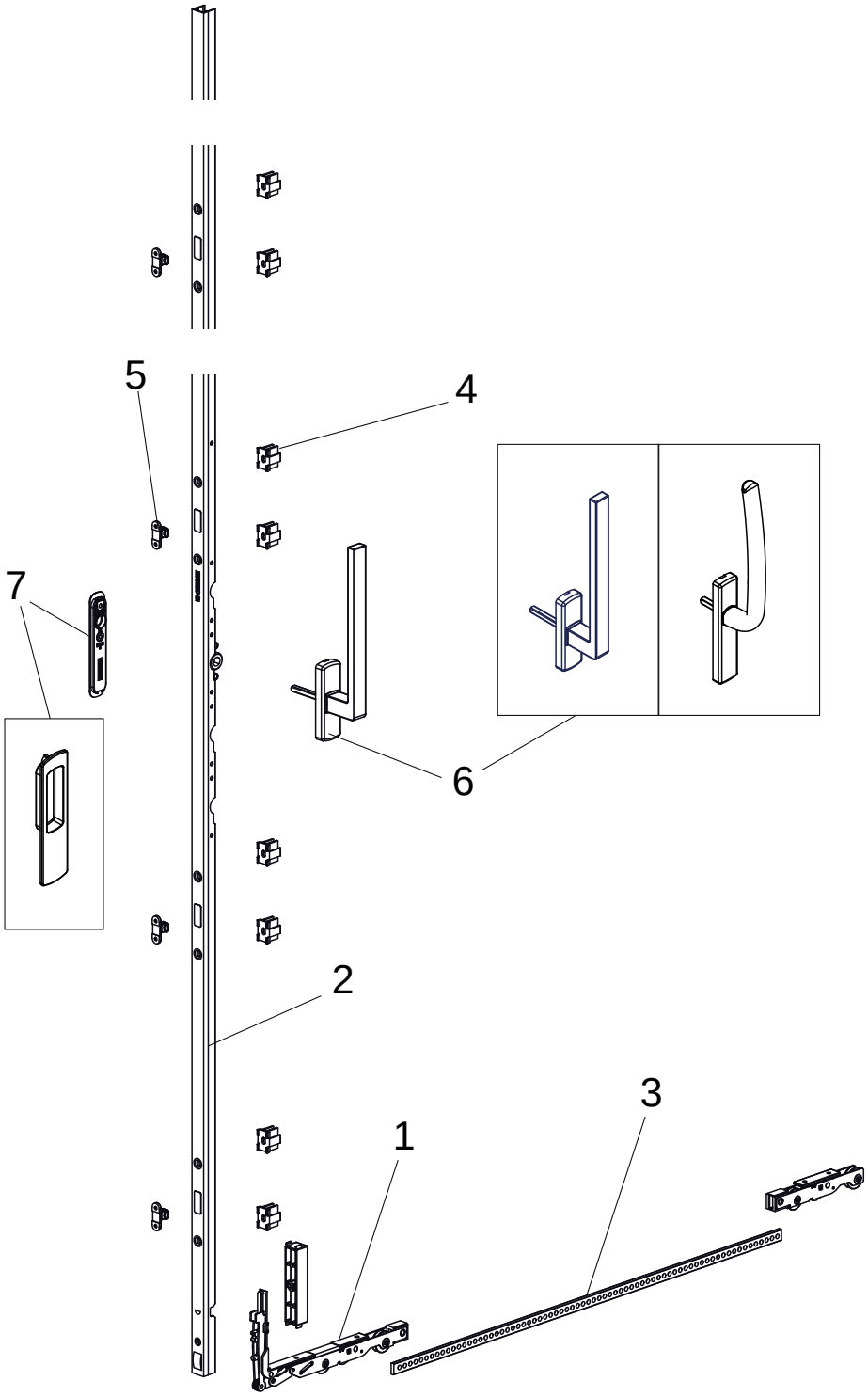


Drive gear extension covering extension for sashes up to 3750 mm high



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GS3000 - 150 diagram



1 - Pulleys kit
2 - Drive gear
3 - Pulleys connection rod
4 - Shims
5 - Locking points
6 - Window handles
7 - Recess handle

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GS3000-150 PULLEYS



Functions

Pulleys for GS3000-150 lift and slide system.

Technical features

Reversible two-wheel pulleys with lever type lifting device to construct operable sashes of up to 150 kg.
Wheel compatible with 2.5 mm radius rails.
The set of double pulleys consists of a primary corner pulley, equipped with a toggle for sash lifting, and a secondary pulley.
Connection and drive of the secondary pulley occurs by means of a connection rod to be cut to length.
Available in two versions:
• 150/22 pulleys for slot with 22 mm width and 30 mm distance from track
• 150/18 pulleys for slot with 22 mm width and 42 mm distance from track. The set of adapters supplied allow the pulley to seat in the 22 mm slot.
Compatible with drive gear with 27.5 and 37.5 mm backset and with window handles having 80 mm fixing C/C distance.
Complete with threaded bushings to fit on the drive gear for use with a single handle and in the external handle, for use of a double handle.
Supplied complete with fixing screws, connection rod pin and rod guide.

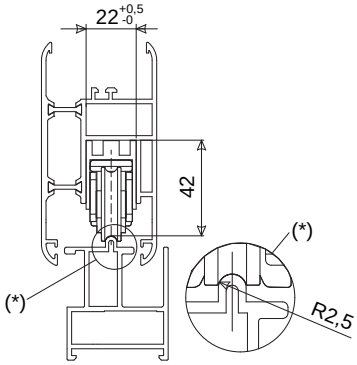
Materials

Pulley body in galvanised zamak
Stainless steel side covers
Stainless steel levers, connecting brackets and pins
Fibreglass-reinforced nylon wheels
Pulley adapters (150/18 version) in fibreglass reinforced nylon
Connection rod guides in fibreglass reinforced nylon
Fixing screws, zinc-coated steel

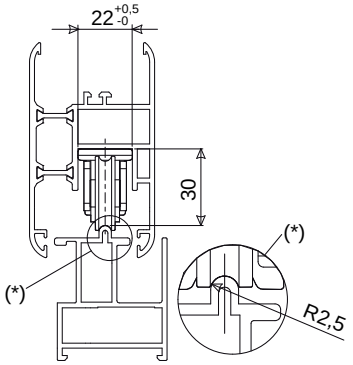
Capacities

For sashes up to 150 kg.

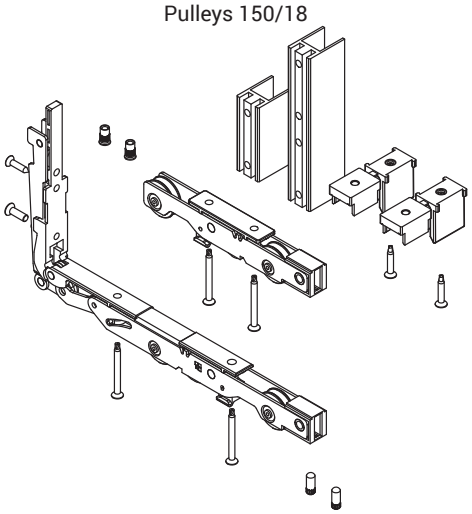
Section with 150/18 pulley



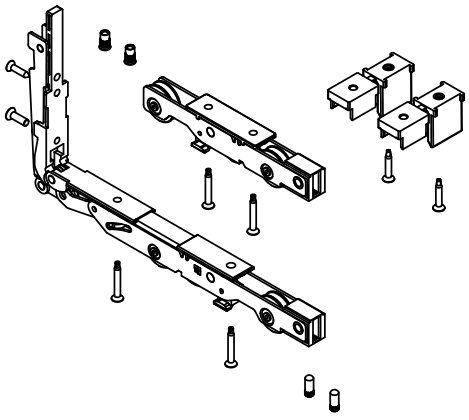
Section with 150/22 pulley



Pulleys 150/18

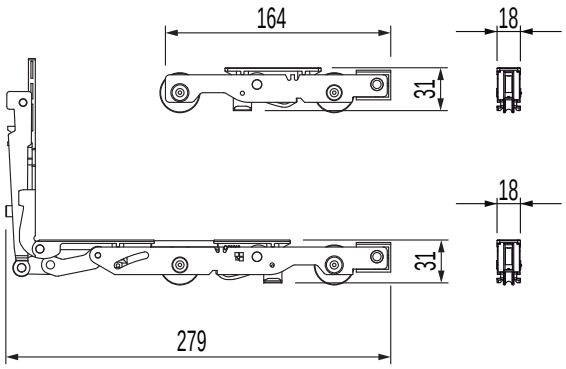


Pulleys 150/22

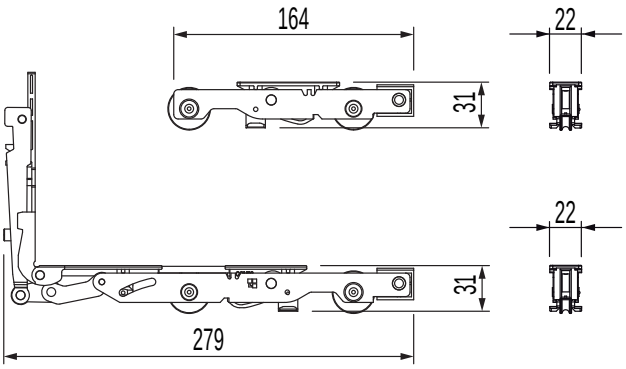


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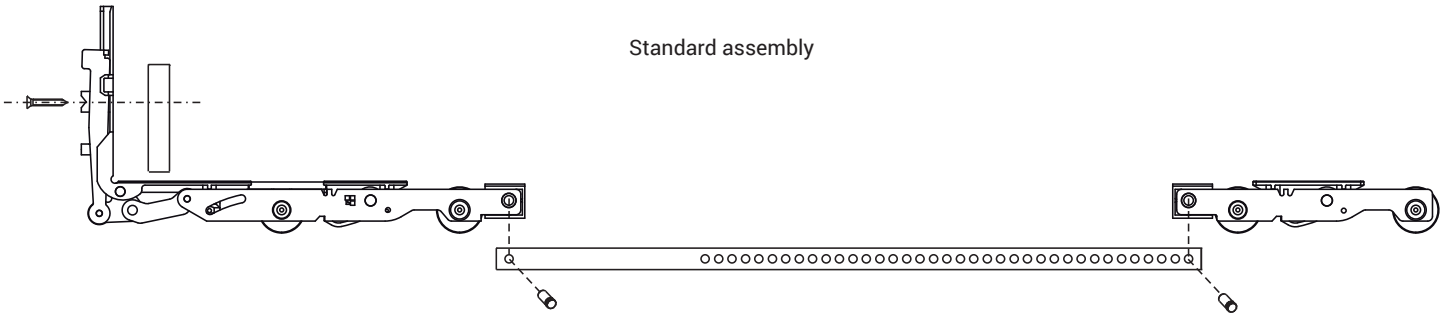
Art. 07165



Art. 07166



Standard assembly



Item code	Description	Slot width	Track height	Max sash weight	Compatible with drive gear	Compatible with window handle C/C distance (I)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07165	Pulleys1 150/18 - GS3000	22 mm	30 mm	150 kg	E =25 mm	43 mm	X				1
07166	Pulleys1 150/22 - GS3000	22 mm	42 mm	150 kg	E =25 mm	43 mm	X				1

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GS3000 DRIVING RODS



Functions

Driving rods for GS3000 lift and slide system.

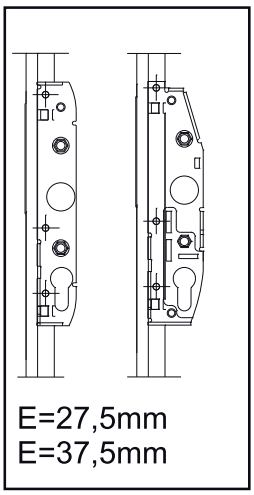
Technical features

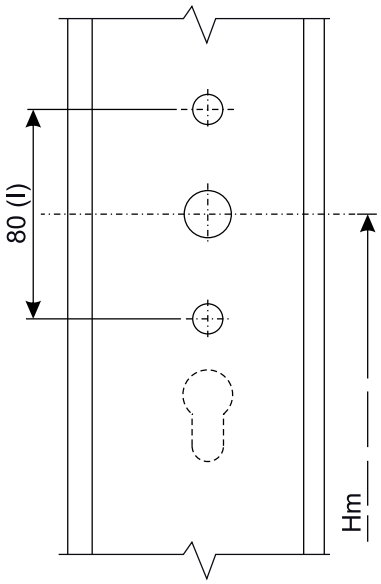
Lift locks for sashes from 150 to 400 kg (with additional pulleys) to select according to profile width, weight and height of sash.
Available in versions with 27.5 mm and 37.5 mm backset.
10 mm square pin.
Available in 6 alternative heights for each version.
Compatible with 150/300 kg pulleys and with window handles with 80 mm fixing c/c distance.
Pre-slotted front plate with up to 5 positions for combination with the locking points.
Cover extension available for all versions of drive gear, to fit to the casement in the hardware slot that the drive gear does not reach.
Allows the construction of sashes up to 3750 mm in height.

Materials

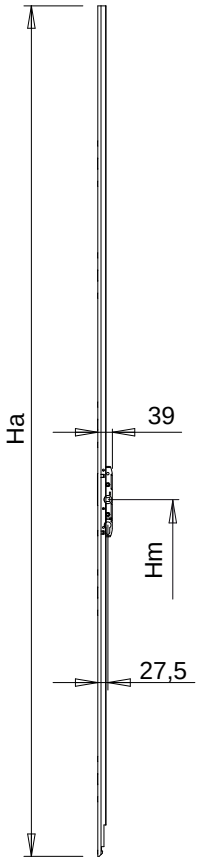
Anodised aluminium front plate
Internal sliding rod in stainless steel
Body of zinc plated steel
Internal parts in zinc plated steel and brass
Anodised aluminium extension cover

Machining on profile

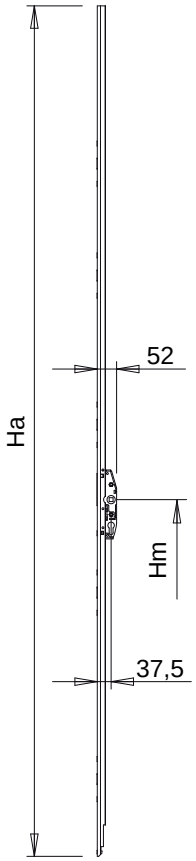




Drive gear with E = 27.5 mm



Drive gear with E = 37.5 mm



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GS3000 LIFT AND SLIDE SYSTEM

GS3000 - 150 LIFT AND SLIDE SYSTEM

Item code	Description	Backset	Drive gear height (Ha)	Window handle positions (Hm)	Compatible with pulleys	Compatible with window handle C/C distance (I)	Key	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07105	DRIVE GEAR KEY H170 E37.5-GS3000	37.5 mm	1680 mm	354 mm	300/22	80 mm	YES	X				1
07106	DRIVE GEAR KEY H190 E37.5-GS3000	37.5 mm	1880 mm	654 mm	300/22	80 mm	YES	X				1
0710701	DRIVE GEAR KEY H200 E37.5-GS3000	37.5 mm	1980 mm	954 mm	300/22	80 mm	YES	X				1
0710801	DRIVE GEAR KEY H230 E37.5-GS3000	37.5 mm	2280 mm	954 mm	300/22	80 mm	YES	X				1
0710901	DRIVE GEAR KEY H260 E37.5-GS3000	37.5 mm	2580 mm	954 mm	300/22	80 mm	YES	X				1
0711001	DRIVE GEAR KEY H300 E37.5-GS3000	37.5 mm	2980 mm	954 mm	300/22	80 mm	YES	X				1
07133	DRIVE GEAR KEY H170 E27.-5-GS3000	27,5 mm	1680 mm	354 mm	300/22	80 mm	YES	X				1
07134	DRIVE GEAR H190 E27.5-GS3000	27,5 mm	1880 mm	654 mm	300/22	80 mm	YES	X				1
0713501	DRIVE GEAR KEY H200 E27.5-GS3000	27,5 mm	1980 mm	954 mm	300/22	80 mm	YES	X				1
0713601	DRIVE GEAR KEY H230 E27.5-GS3000	27,5 mm	2280 mm	954 mm	300/22	80 mm	YES	X				1
0713701	DRIVE GEAR KEY H260 E27.-5-GS3000	27,5 mm	2580 mm	954 mm	300/22	80 mm	YES	X				1
0713801	DRIVE GEAR KEY H300 E27.5-GS3000	27,5 mm	2980 mm	954 mm	300/22	80 mm	YES	X				1
07161	GS3000 ROD EXTENSION COVER	-	650 mm	-	-	-	NO	X				5

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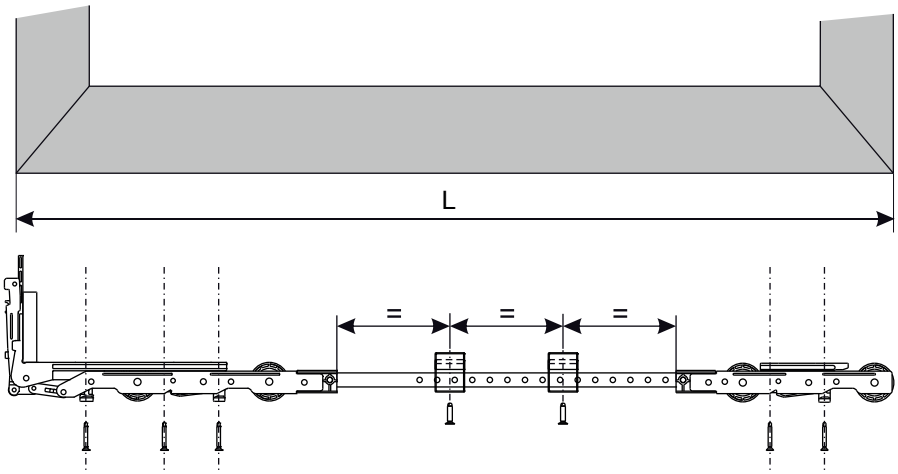
PULLEYS CONNECTION ROD



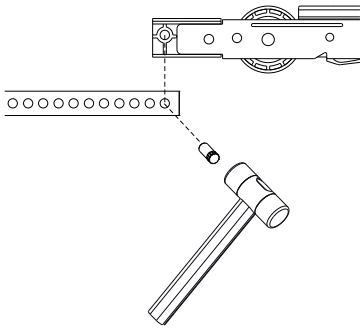
Functions
GS3000 lift and slide system pulleys connection rod.

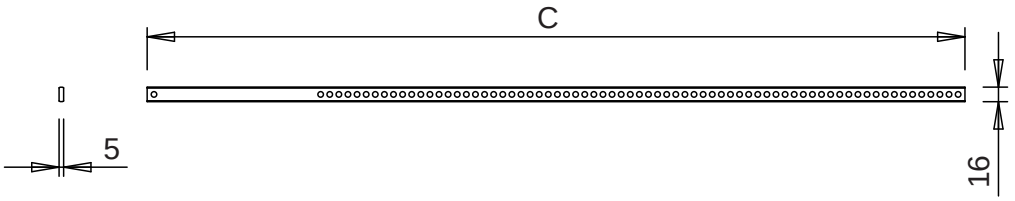
Technical features
The connection rod transmits drive from the main pulley to the secondary pulley.
Available in three different sizes, to be cut in accordance with the sash width.
Compatible with all pulley versions.

Materials
Zinc plated steel



Rod to pulleys fixing





Item code	Description	Rod length (C)	Sash width (L) (*)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07146	Pulleys connection rod 900 - GS3000	900 mm	600 – 1500 mm	X				5
07147	Pulleys connection rod 1400 - GS3000	1400 mm	1501 – 2000 mm	X				5
07148	Pulleys connection rod 1900 - GS3000	1900 mm	2001 – 2500 mm	X				5

(*) the dimensions are referred to the minimum and maximum sash width that can be constructed with the selected rod. When using additional pulleys the maximum permissible sash width is 3350 mm.

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GS3000 LOCKING POINTS



Functions

Locking point to fit to frame for GS3000 lift and slide casements.

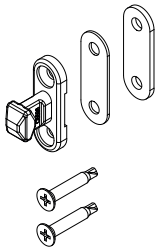
Technical features

Locking points to fit to frame in correspondence with the slots of the drive gear installed on the sash.
Available in several version to be selected in accordance with the profile.
When combined with the appropriate shims for the profile the locking points ensure an optimal sash / frame seal.
The number of locking points required depends on the sash height and the selected drive gear.

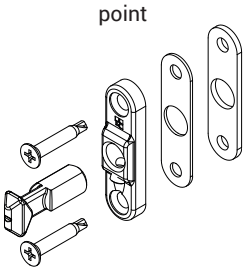
Materials

Nickel-plated brass locking point
Stainless steel shims
Nylon adapter (for opposing sashes version)
Stainless steel mounting plate (for opposing sashes version)
Stainless steel fixing screws

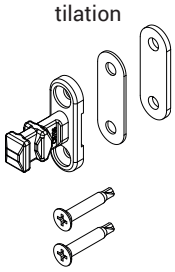
Fixed locking point



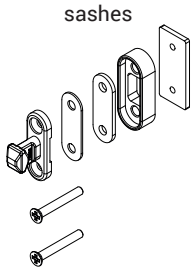
13–25 mm adjustable locking point



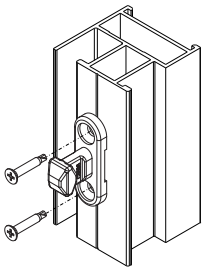
Locking point with Micro-ventilation



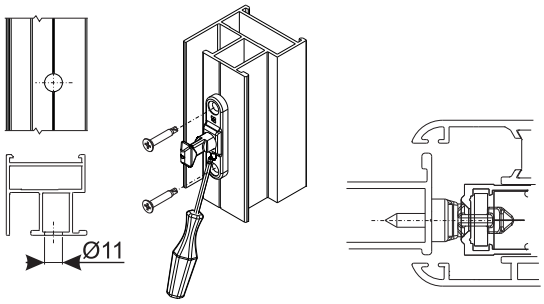
Locking point for opposing sashes



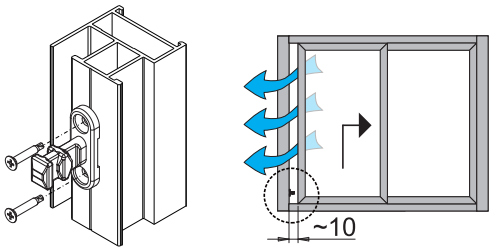
Assembly of fixed locking point



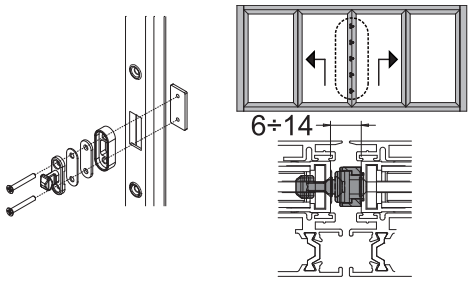
Assembly of 13–25 mm adjustable locking point



Assembly of Micro-ventilation locking point



Assembly of locking point for opposing sashes



Item code	Description	Range	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07149	Fixed locking point	13 – 16 mm	X				10
07150	Adjustable locking point	13 – 25 mm	X				10
07151	Micro-ventilation locking point	13 – 16 mm	X				10
07152	Opposing sashes locking point	13 – 16 mm	X				10

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GS3000 SHIMS



Functions

Profile shims for drive gear and main pulley for GS3000 lift and slide system.

Technical features

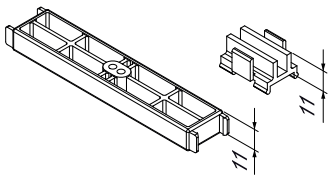
Set of adapters to combine with the drive gear and main pulley to fit the hardware in the profile groove.
Available in various sizes to be selected in accordance with the profile, drive gear and type of locking point employed.
Each set of shims consists of:
• 10 shims to install on drive gear
• 1 shim to install on main pulley
• self-threading fixing screws

Side container shims available to lodge the pulleys in a stable position inside special profile slots without any lateral containment.
The shims are fixed to the profile using grub screws.
Shims available to combine with the fixed locking point and locking point with micro-ventilation.

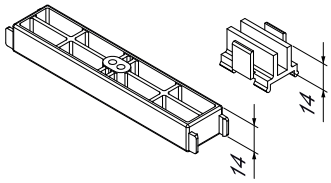
Materials

Polyamide shims
Zinc plated steel self-threading screws
Stainless steel grub screws

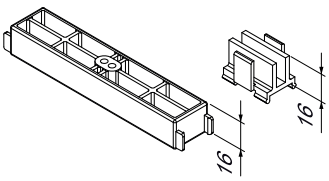
Art. 07153



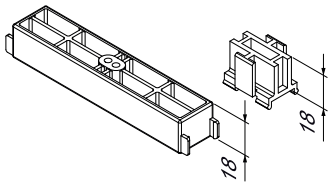
Art. 07154



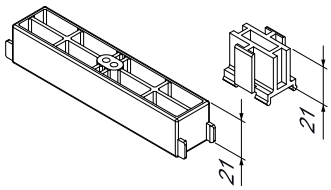
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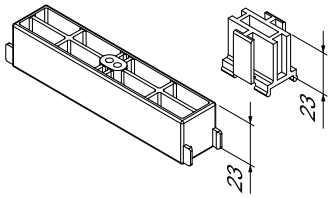
Art. 07156



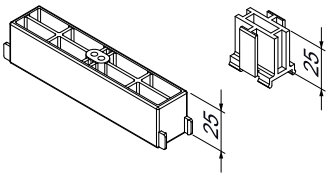
Art. 07157



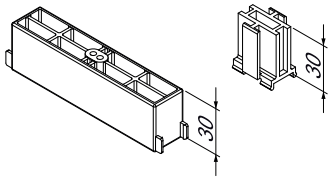
Art. 07158



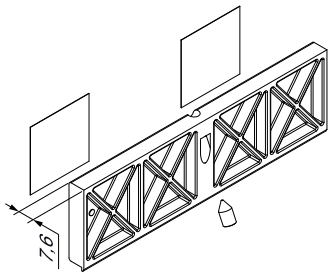
Art. 07159



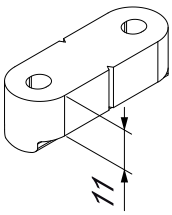
Art. 07160



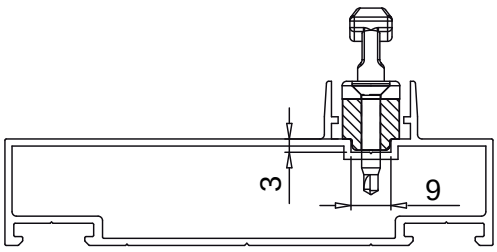
Art. 07162



Art. 07163

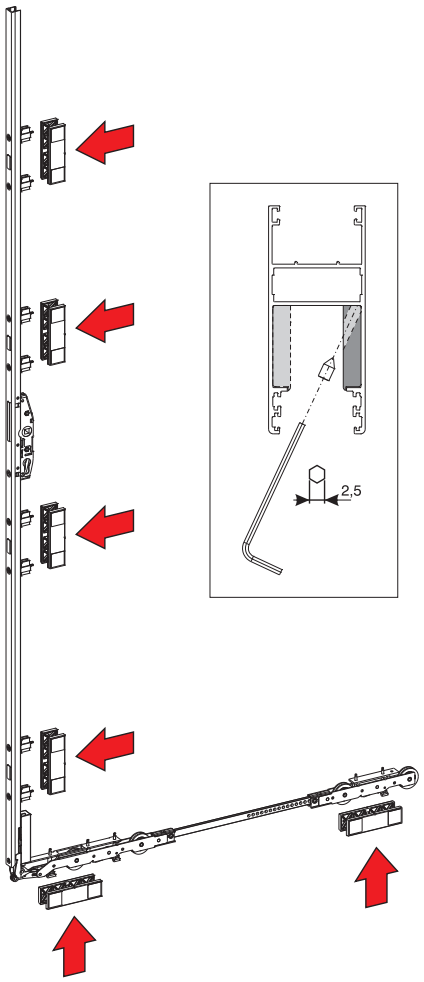


Shim fitting for locking point

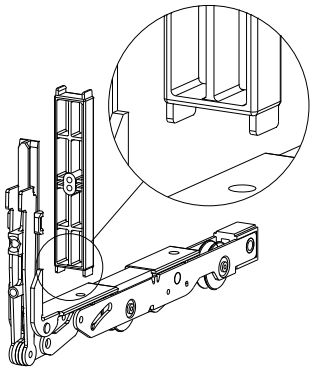


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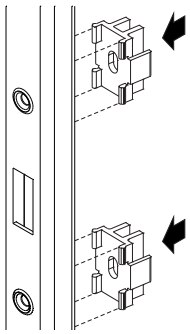
Lateral container shims assembly diagram

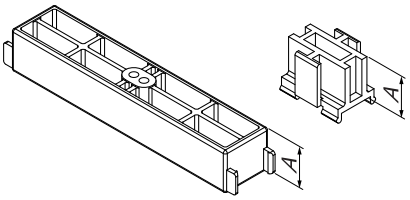


Assembly of main pulley shim



Assembly of shims to drive gear

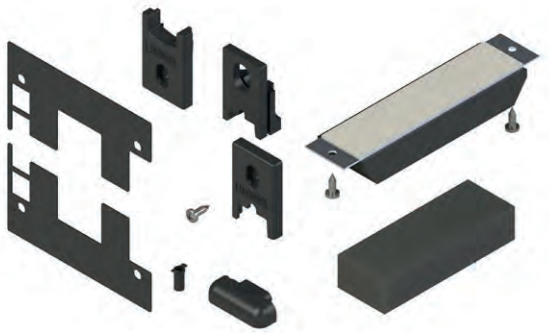




Item code	Description	Dimension (A)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07153	SHIMS 11 FOR ROD AND PULLEY-GS3000	11 mm	X				1
07154	SHIMS 14 FOR ROD AND PULLEY-GS3000	14 mm	X				1
07155	SHIMS 16 FOR ROD AND PULLEY-GS3000	16 mm	X				1
07156	SHIMS 18 FOR ROD AND PULLEY-GS3000	18 mm	X				1
07157	SHIMS 21 FOR ROD AND PULLEY-GS3000	21 mm	X				1
07158	SHIMS 23 FOR ROD AND PULLEY-GS3000	23 mm	X				1
07159	SHIMS 25 FOR ROD AND PULLEY-GS3000	25 mm	X				1
07160	SHIMS 30 FOR ROD AND PULLEY-GS3000	30 mm	X				1

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GS3000 MACHINING COVER CAPS



Functions

Machining cover caps for GS3000 lift and slide system.

Technical features

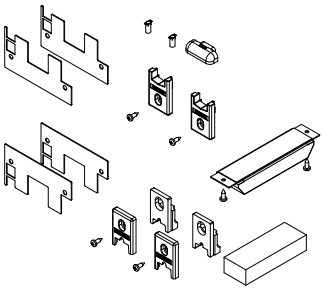
The machining cover caps kit contains all the components required to complete a two-sash lift and slide casement:
• top dust-proof plug and lower central sponge to fit in frame, in correspondence with the central labyrinth, to restrict the circulation of dust and passage of air
• top and bottom cover caps to conceal machinings on sash central upright
• lower sealing buffers to increase seal on track
• drainage cap, to fit to the frame lower cross-beam for fast drainage of water from the frame groove to outside the room
• sealing plates to seal the joint between stile and cross-beam in frames with 90° cut
• drainage tubes to position on frame lower cross-beam

A central and anti-lifting plugs kit is also available, composed of:
• top dust-proof plug and lower central sponge to fit in frame, in correspondence with the central labyrinth, to restrict the circulation of dust and passage of air
• top and bottom machining cover caps equipped with buffers to absorb closing impact between sash and frame
• anti-lifting plug to be fitted in frame top corner. Designed to prevent sash from being removed simply by lifting it from bottom track
• anti-lifting shims to fit in correspondence with sash side stile

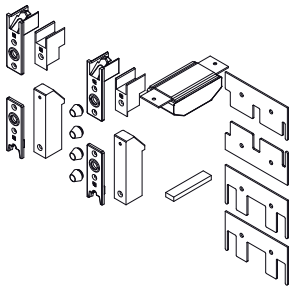
Materials

Top dust-proof plug composed of plastic body with sponge
Central lower sponge in expanded rubber
Stainless steel screws
Machining cover caps and anti-lifting plugs in fibreglass-reinforced polyamide
Lower sealing buffers in rubber
Cap and drainage tubes in fibreglass-reinforced polyamide
Sealing plates in adhesive rubber
Rubber dampers

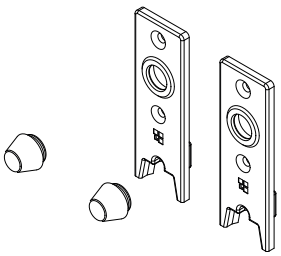
Machining cover kit for 2-sash lift and slide casement



Machining cover and anti-lifting kit



Lower machining cover caps



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07967	MACHINING COVER CAPS KIT GS3000		X				5
07978	CENTRAL ANTI-LIFTING PLUGS KIT -GS3000		X				5

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KORA WINDOW HANDLE GS3000-150



Functions

Window handle for GS3000-150 lift and slide system.

Technical features

Long window handle for lift and slide window with KORA style to construct sashes up to 150 kg.
7/10 mm square pin.
43 mm fixing C/C distance.
Available in single version without key.
Compatible with driving rods with 25 mm backset.
Can be combined with recess handle with 43 mm C/C distance.

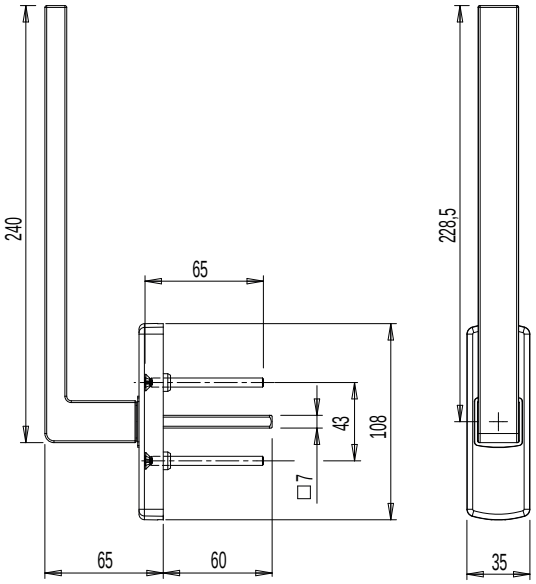
Materials

Aluminium handle and cover
Zamak case
Rotor made of zinc-plated steel
Trim ring made of acetal resin
Square pin in zinc plated steel
Fixing screws, zinc-coated steel

KORA window handle L240 -I80



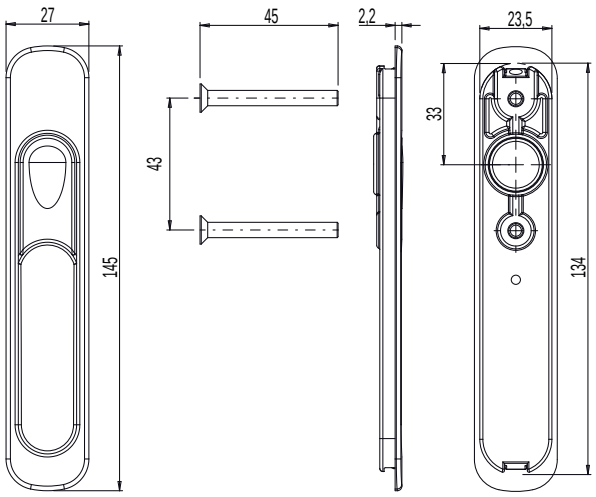
KORA window handle dimensions L240 -I80



External recess handle



External recess handle dimensions



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Item code	Description	C/C distance (I)	Handle length (L)	Compatible with drive gear	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0246701	KORA WINDOW HANDLE L240-I43 GS3000	43 mm	240 mm	E = 25mm	X	X	X	X	1
02764	EXTERNAL RECESS PULL HANDLE	43 mm	-	E = 25mm	X		X	X	8

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ASIA WINDOW HANDLE GS3000-150



Functions

Window handles for GS3000-150 lift and slide system.

Technical features

Long window handle for lift and slide window with ASIA style to construct sashes up to 150 kg.
7/10 mm square pin.
43 mm fixing C/C distance.
Available in single version without key.
Compatible with driving rods with 25 mm backset.
Can be combined with recess handle with 43 mm C/C distance.

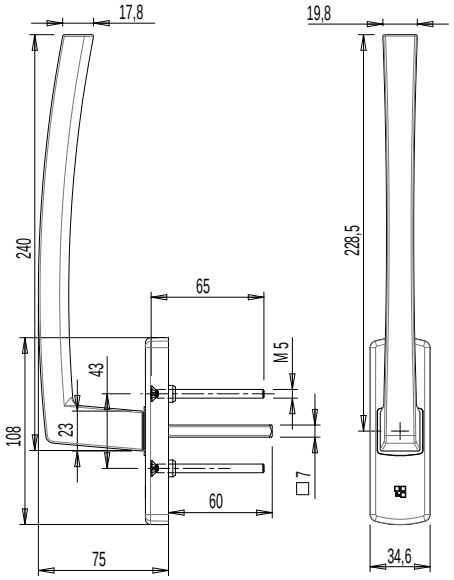
Materials

Aluminium handle and cover
Zamak case
Rotor made of zinc-plated steel
Trim ring made of acetal resin
Square pin in zinc plated steel
Fixing screws, zinc-coated steel

ASIA window handle L240 -I43



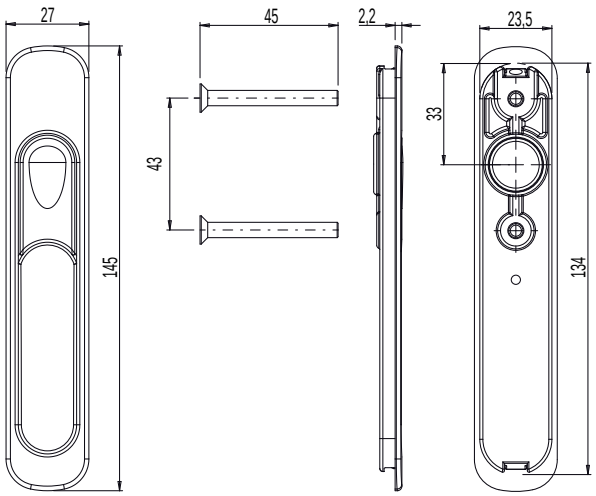
ASIA window handle dimensions L240 -I43



Recess handle



Recess handle dimensions



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Item code	Description	C/C distance (I)	Handle length (L)	Compatible with drive gear	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0243201	ASIA WINDOW HANDLE L240-I43 GS3000	43 mm	240 mm	E =25 mm	X	X	X	X	1
02764	EXTERNAL RECESS PULL HANDLE	43 mm	-	E = 25mm	X		X	X	8

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PRIMA WINDOW HANDLE GS3000-150



Functions

Window handles for GS3000-150 lift and slide system.

Technical features

Long window handle for lift and slide window with PRIMA style to construct sashes up to 150 kg.
7/10 mm square pin.
43 mm fixing C/C distance.
Available in single version without key.
Compatible with driving rods with 25 mm backset.
Can be combined with recess handle with 43 mm C/C distance.

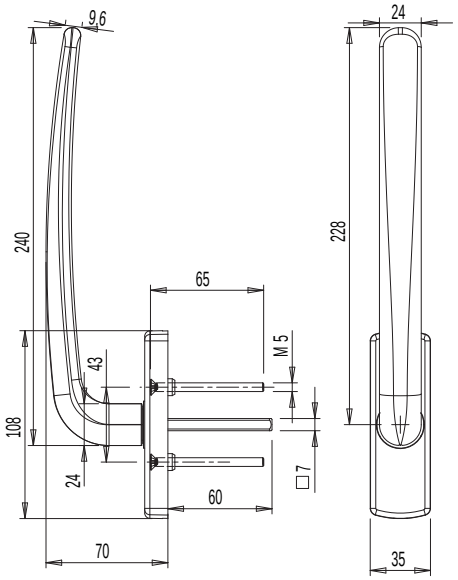
Materials

Aluminium handle and cover
Zamak case
Rotor made of zinc-plated steel
Trim ring made of acetal resin
Square pin in zinc plated steel
Fixing screws, zinc-coated steel

PRIMA window handle L240 -I43



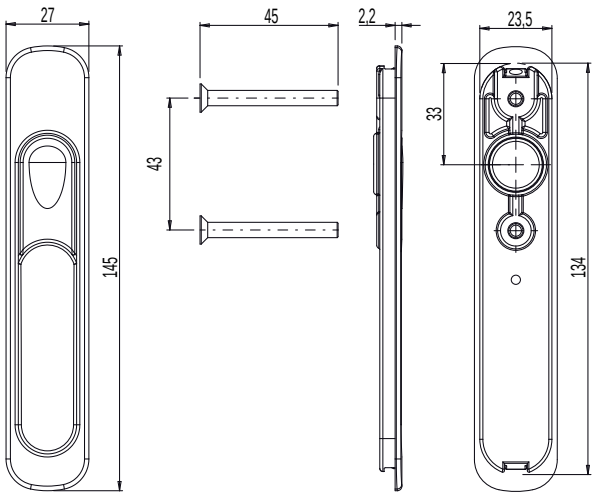
PRIMA window handle dimensions L240 -I43



External recess handle



External recess handle dimensions



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Item code	Description	C/C distance (I)	Handle length (L)	Compatible with drive gear	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0243601	PRIMA WINDOW HANDLE L240-I43 GS3000	43 mm	240 mm	E = 25mm	X	X	X	X	1
02764	EXTERNAL RECESS PULL HANDLE	43 mm	-	E = 25mm	X		X	X	8

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WINDOW AUTOMATIONS

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VARIA TUBE 230 V

Functions

Electromechanical linear actuators with chain for automation of bottom-hung and top-hung windows, pivoting windows, skylights and other casement types.

Technical Features

TUBE 230 V AC actuators can be powered at a voltage of 110 - 230 V AC - 50/60 Hz.
This family of articles subdivides into the "Solo" and "Syncro" versions:

• Varia Tube 230 V AC in “Solo” version, created as stand-alone, which cannot be combined with other actuators in this family.
Range comprises 4 articles with different chain lengths: 300, 600, 800 and 1000 mm.

• Varia Tube RWA 230 V AC, comprising a pair of operators (2 pcs) generally fitted to particularly wide windows (more than 1600 mm) to obtain 2 thrust and closing points perfectly synchronized between the two operators.
Up to 8 (4 pairs) Varia Tube 230 V AC actuators can be synchronized simultaneously to obtain 8 thrust points.
Each pair is produced ready-synchronized. The setup operations for synchronization of two or more pairs are quick and easy.
Range comprises 4 articles (pairs) with different chain lengths: 300, 600, 800 and 1000 mm.
All Varia Tube 230 V AC family actuators, in both "solo" and "syncro" version, share the following technical characteristics:
• Articulated chain of 4 stainless steel links
• Silver anodized extruded aluminum actuator body
• Thrust and pull force = 350N

Chain stroke adjustment via dip-switches:
• Varia Tube 300: preset stroke of the chain = 300 mm, selectable to 175 mm or to 100 mm.
• Varia Tube 600: preset stroke of the chain = 600 mm, selectable to 500 mm or to 400 mm.
• Varia Tube 800: preset stroke of the chain = 800 mm, selectable to 700 mm or to 600 mm.
• Varia Tube 1000: preset stroke of the chain = 1000 mm, selectable to 900 mm or to 800 mm.
Load-dependent closing stroke cut-off function and actuators connectable in parallel.
"Soft stop" function, consisting in speed reduction in the final section of the stroke.
“Relax” function, consisting in release of the gears once the closing position has been reached, in order to reduce mechanical stress.
On-board diagnostic LED.
Frame mounting brackets for each actuator always included in pack. Bracket for fixing chain to sash sold separately, to be chosen depending on the type of casement to be constructed.

Materials

Anodized extruded aluminium body.
Stainless steel chain.
Painted steel frame brackets
Stainless steel fixing clips

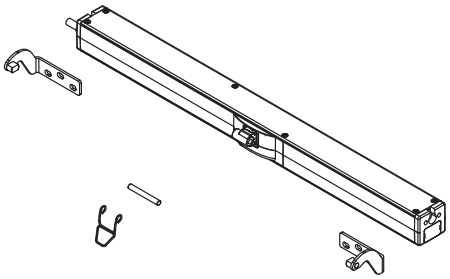
Parts

VARIA TUBE 230 V ac
• One actuator
• Pair of operator to frame fixing brackets
• One quick-fit clip (spring + pin)

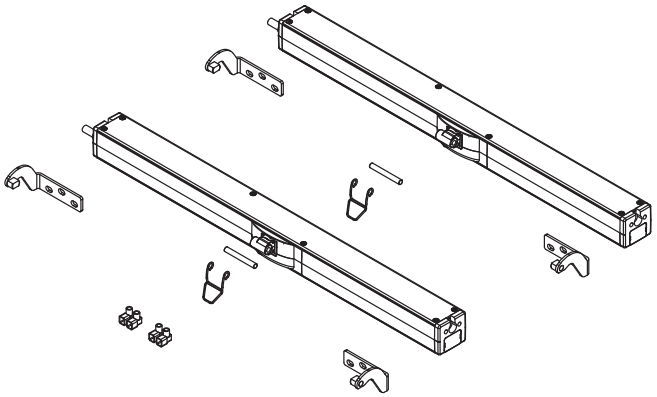
VARIA TUBE SYNCRO 230 V ac
• Pair (2 pcs) of actuators
• Two pairs of operator to frame fixing brackets
• Two quick-fit clips (spring + pin)
• Two connection terminals

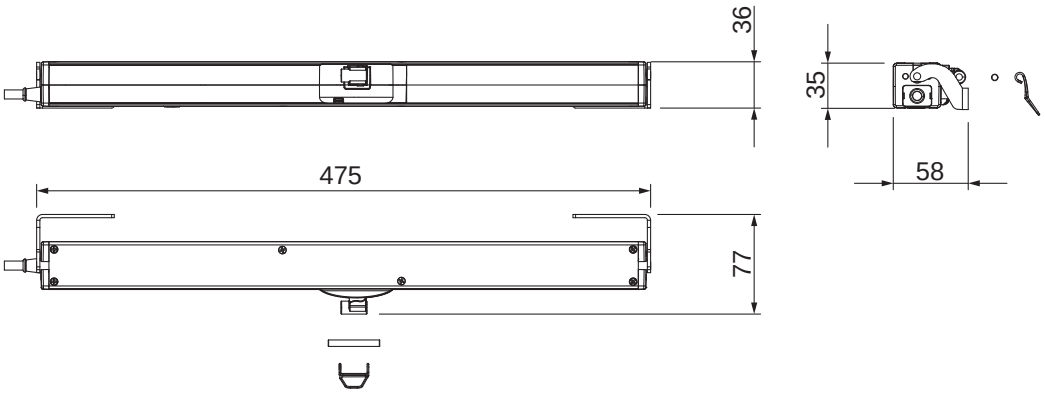
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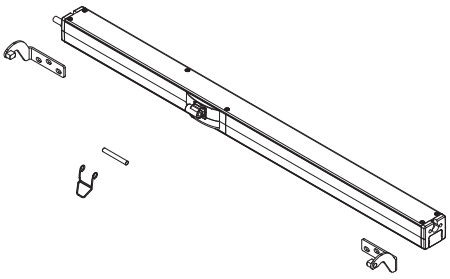


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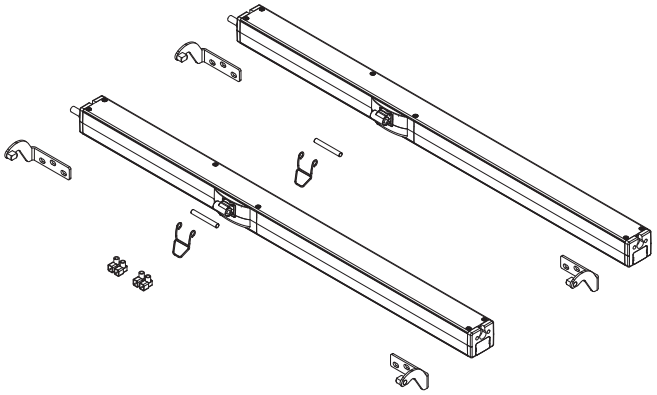


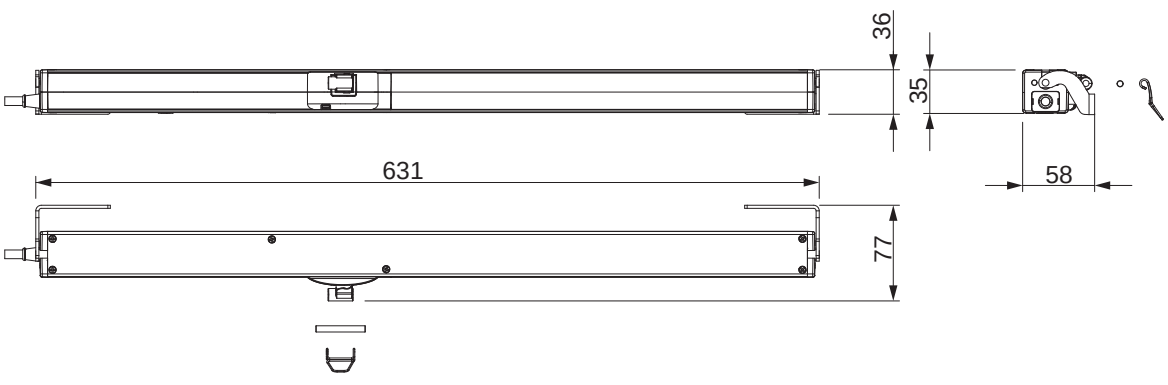


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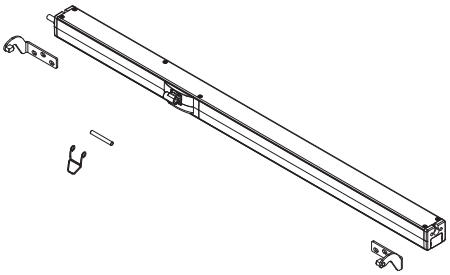
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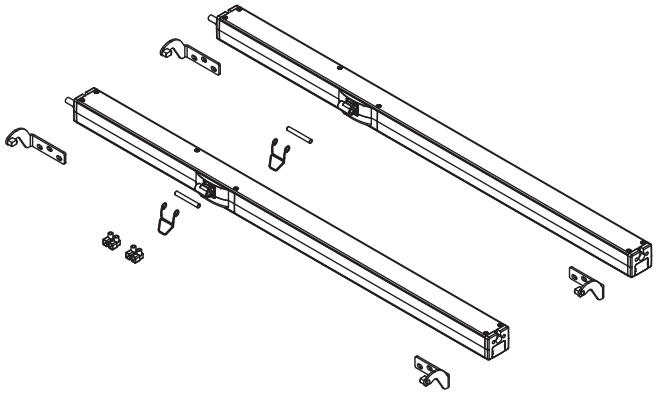


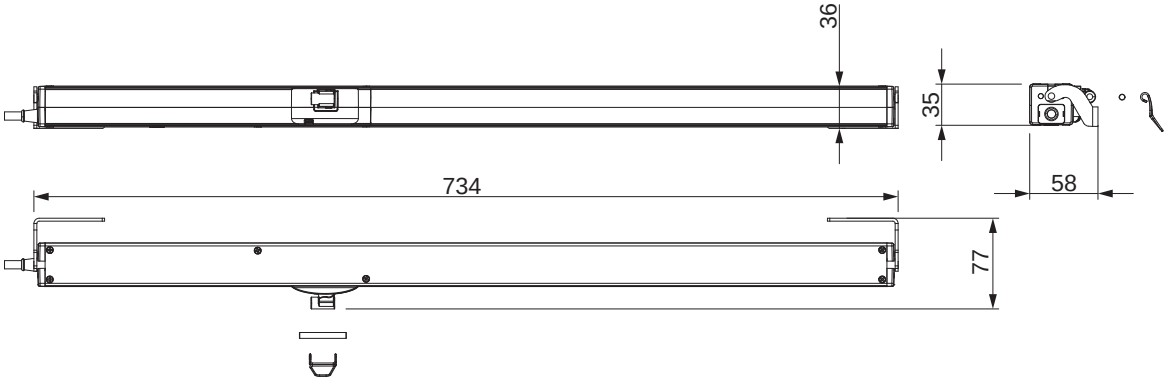
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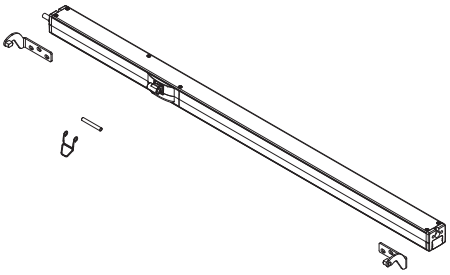


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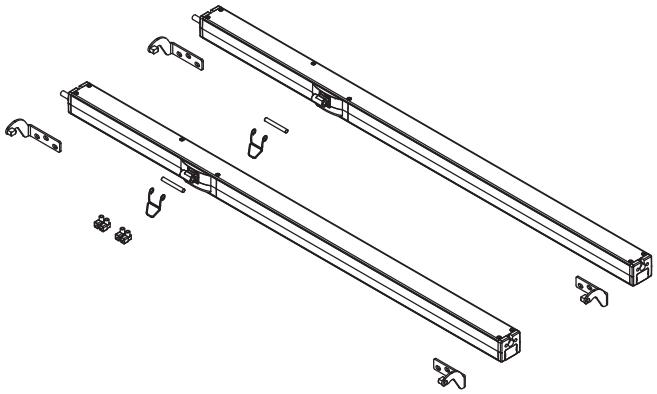


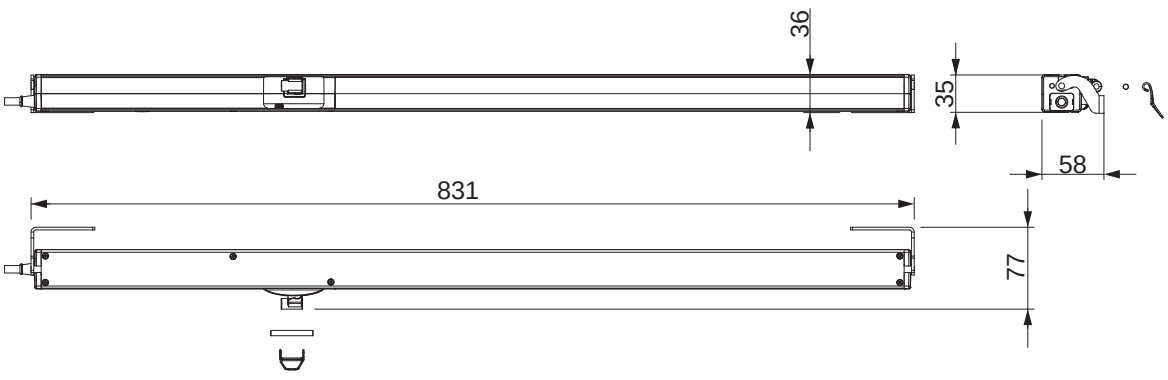


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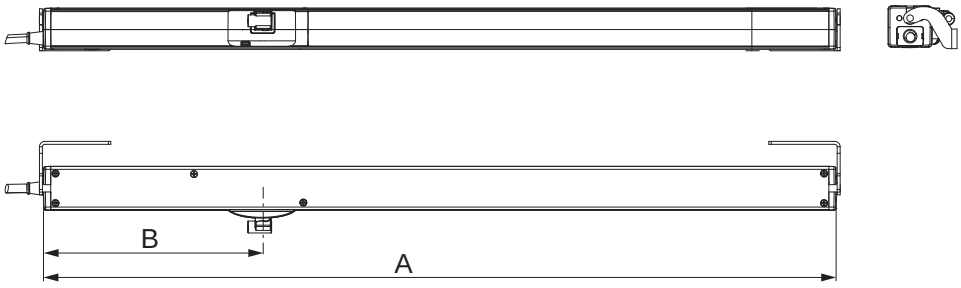




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Technical data

VARIA TUBE	230 V AC	SYNCRO 230 V AC
Item code	07875-07876-07877-07878	07896-07897-07898-07899
Pull force	350N	350N
Thrust force	350N	350N
Stroke (mm)	300-600-800-1000	300-600-800-1000
Syncro Technology (patented)	YES	YES
Power supply voltage	110÷230 V AC	110÷230 V AC
Frequency	50/60Hz	50/60Hz
Nominal load current	0,23 A (230V)	0,23 A (230V)
Nominal load absorbed power	29 W	29 W
Speed	11/9,6 mm/s	11/9,6 mm/s
Duration of stroke with nominal load (open)	Stroke 300/600/800/1000 = 28/54/72/90 s	Stroke 300/600/800/1000 = 28/54/72/90 s
Duration of stroke with nominal load (close)	Stroke 300/600/800/1000 = 36/67/88/109 s	Stroke 300/600/800/1000 = 36/67/88/109 s
Double electrical insulation	YES	YES
Service type	S2 of 3 min	S2 of 3 min
Operating temperature	-20 °C ÷ +70 °C	-20 °C ÷ +70 °C
Electrical devices protection rating	IP32	IP32
Soft Stop	YES	YES
Relax function	YES	YES
Casement connection adjustment	Position self-detection	Position self-detection
Connection in parallel	YES	YES
Power cable type and length	H05VV-F - 2 m	FRR/2 - 2,5 m
Opening limit stop position	Electronic with dip-switch setting	Electronic with dip-switch setting
Closing limit switch	Power absorption type	Power absorption type
Overload protection	Power absorption type	Power absorption type
Dimensions for 230 V (stroke 300/600/800/1000)	34,6x37 L=468/624/727/824 mm	34,6x37 L=468/624/727/824 mm
Static holding force	2000 N	2000 N
Weight	0,9/1,4/1,8/2,2 Kg	0,9/1,4/1,8/2,2 Kg



Item code	Description	Notes	Stroke	Length (mm) (length A)	Chain axis fixed length (length B)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07875	VARIA TUBE 230 V - 300		300	468	245	X				1
07876	VARIA TUBE 230 V - 600		600	624	245	X				1
07877	VARIA TUBE 230 V - 800		800	727	245	X				1
07878	VARIA TUBE 230 V -1000		1000	824	245	X				1
07896	VARIA TUBE SYNCRO 230 V - 300	pair	300	468	245	X				1
07897	VARIA TUBE SYNCRO 230 V - 600	pair	600	624	245	X				1
07898	VARIA TUBE SYNCRO 230 V - 800	pair	800	727	245	X				1
07899	VARIA TUBE SYNCRO 230 V - 1000	pair	1000	824	245	X				1

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VARIA TUBE RWA 24 V DC

Functions
Electromechanical linear actuators with chain for automation of bottom-hung and top-hung windows, pivoting windows, skylights and other casement types.

Technical Features
VARIA TUBE RWA actuators are available exclusively with 24Vdc power supply.
Actuators in this family have an articulated chain of 4 all-stainless steel links, with silver anodized aluminum body.
This product family is composed of:

• Varia Tube RWA 24V in “Solo” version, created as stand-alone, which cannot be combined with other actuators in this family.
Range comprises 4 articles with different chain lengths: 300, 600, 800 and 1000 mm.

• Varia Tube RWA Syncro 24Vdc, comprising a pair of operators (2 pcs) generally fitted to particularly wide windows (more than 1600 mm) to obtain 2 thrust and closing points perfectly synchronized between the two operators.
Suitable also for parallel openings in which opening and closing of the sash must be uniform on all 4 sides.
In normal circumstances, depending on the size of the parallel opening, 2 actuators (1 pair) or 4 actuators (2 pairs) are employed.
Up to 8 (4 pairs) Varia Tube RWA Syncro 24Vdc actuators can be synchronized simultaneously to obtain 8 thrust points.
As each pair is produced pre-synchronized, synchronizing several Varia Tube Syncro actuators is quick and easy.
Range comprises 4 articles with different chain lengths: 300, 600, 800 and 1000 mm.

The Varia Tube 24 V RWA and Varia Tube RWA Syncro 24Vdc actuators are designed to pass the heat and fire resistance tests prescribed by EN 12101-2:2003-09, with classification B300.
Thrust and pull force = 350N.
Varia Tube RWA 24V stroke limit adjustment with dip-switch:
• Varia Tube 300: preset stroke of the chain = 300 mm, selectable to 175 mm or to 100 mm.
• Varia Tube 600: preset stroke of the chain = 600 mm, selectable to 500 mm or to 400 mm.
• Varia Tube 800: preset stroke of the chain = 800 mm, selectable to 700 mm or to 600 mm.
• Varia Tube 1000: preset stroke of the chain = 1000 mm, selectable to 900 mm or to 800 mm.
Actuators with load-dependent closing stroke cut-off function, connectable in parallel.
The products are equipped with the “soft stop” function, which provides a speed reduction in the final stroke distance, and the “relax” function, wherein the gears are released once the closed position has been reached in order to reduce mechanical stress.
The products are equipped with diagnostic LEDs.
The pack contains 2 frame fixing brackets for each actuator while the sash fixing brackets are sold separately and must be selected on the basis of the type of casement to be automated.
Varia Tube 24V RWA actuators (Solo and Syncro) can be combined with the Tube Lock 24V perimeter lock.

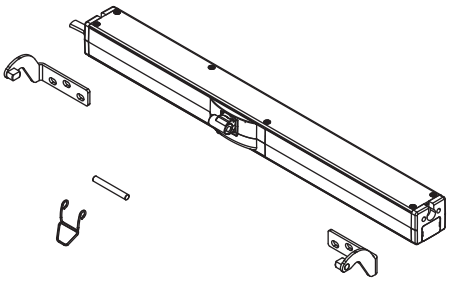
Materials
Anodized extruded aluminium body.
Stainless steel chain.
Painted steel frame brackets
Stainless steel fixing clips

Parts
VARIA TUBE RWA 24V
• One actuator
• Pair of operator to frame fixing brackets
• One quick-fit clip (spring + pin)

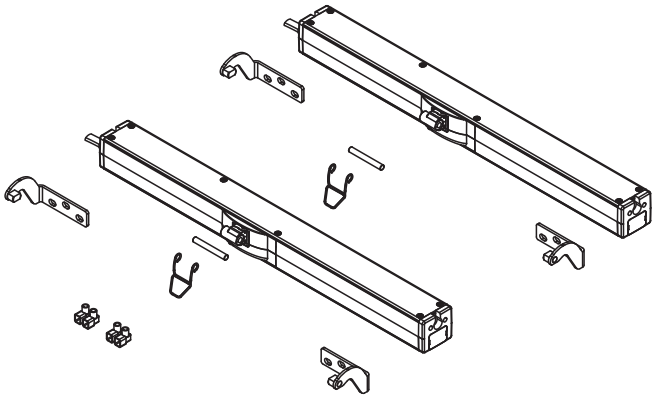
VARIA TUBE RWA SYNCRO 24V
• Pair (2 pcs) of actuators
• Two pairs of operator to frame fixing brackets
• Two quick-fit clips (spring + pin)
• Two connection terminals

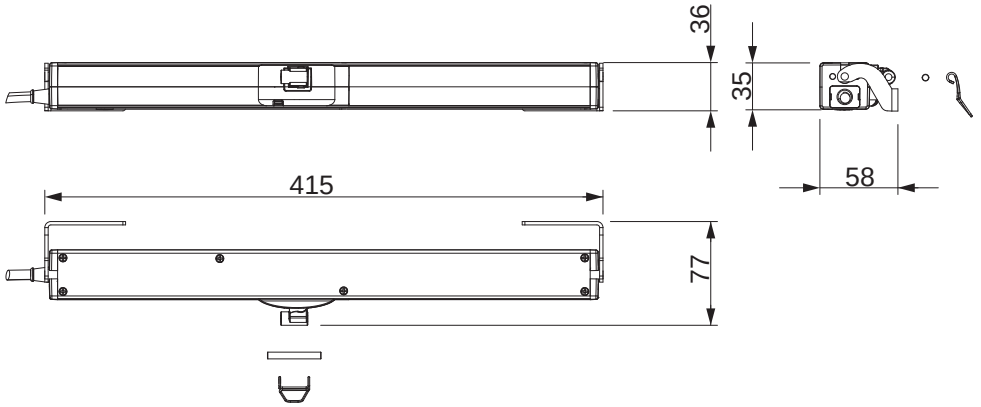
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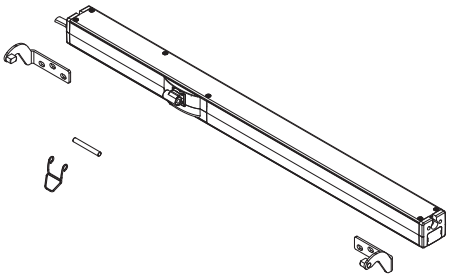


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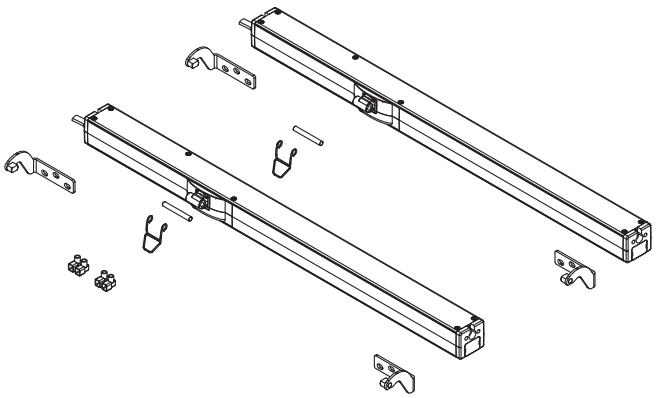


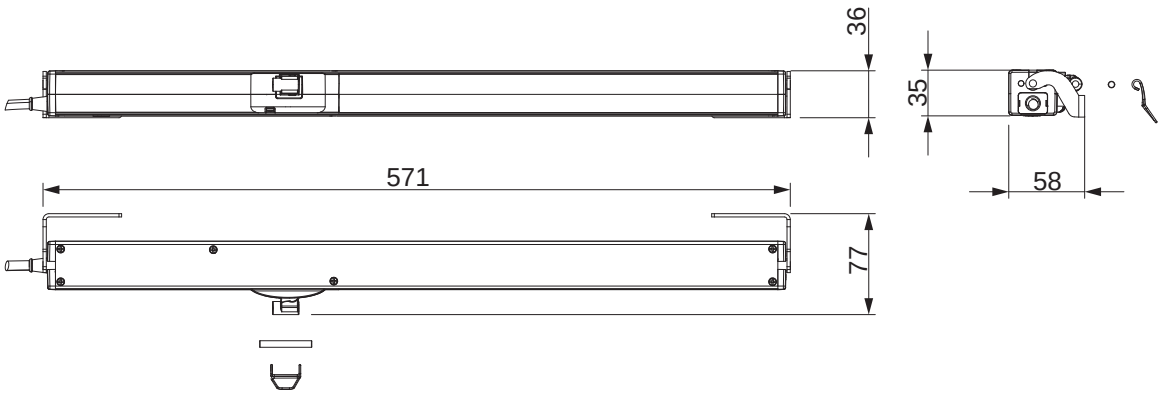


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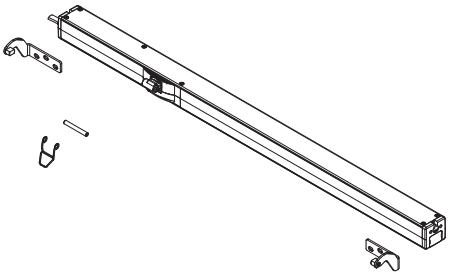
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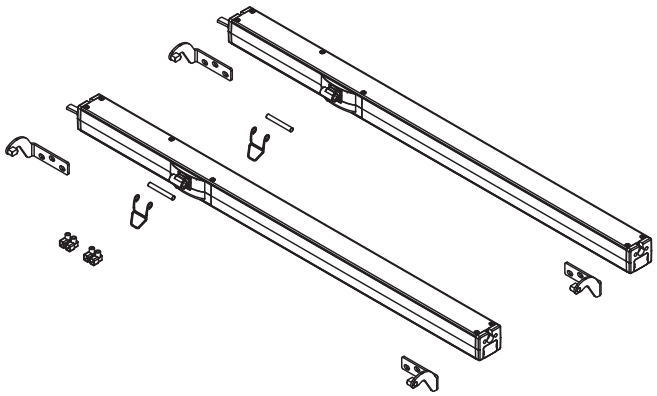


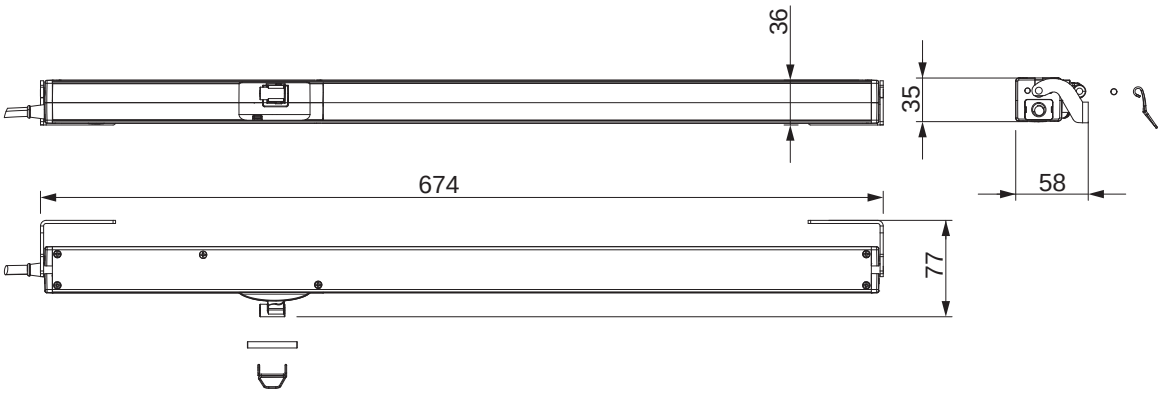
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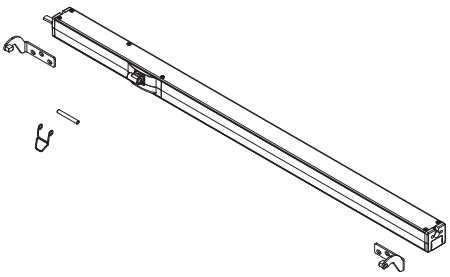


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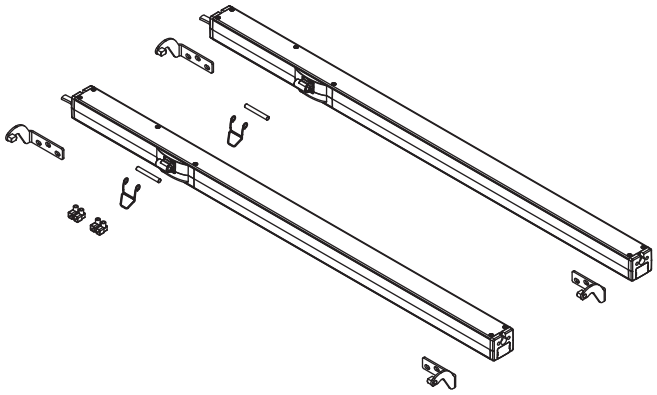


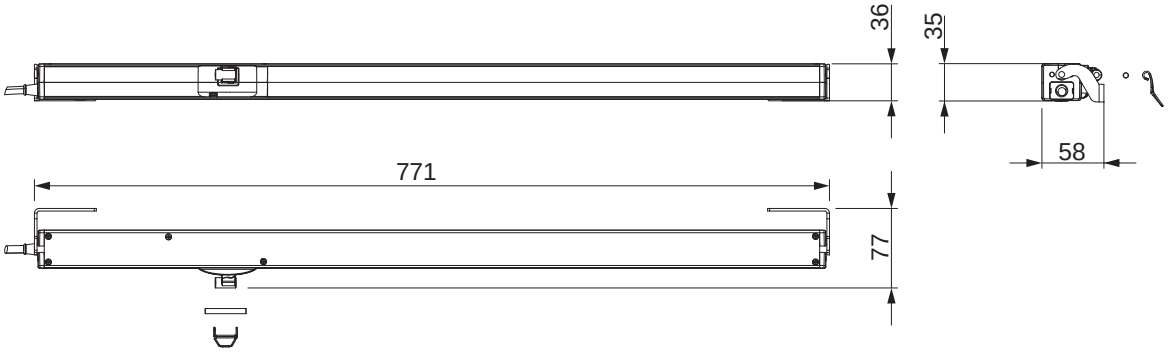


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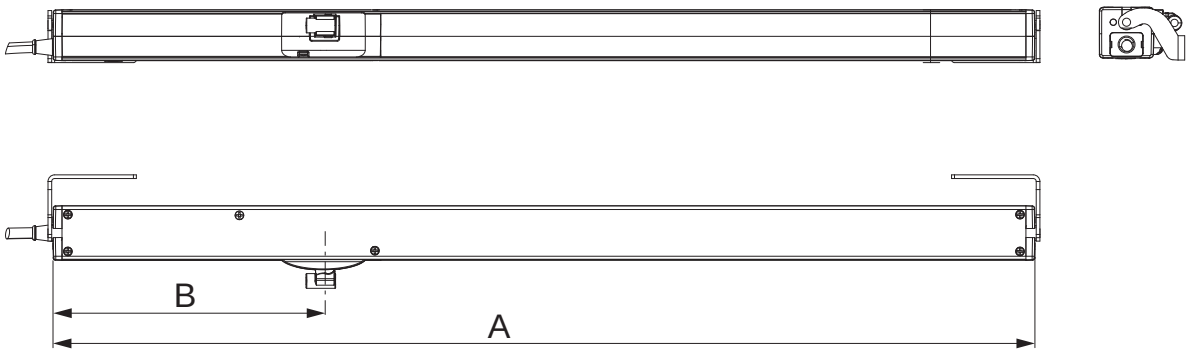




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Technical data

VARIA TUBE	24 V DC	SYNCRO 24 V DC
Item code	07804-07805-07806-07807	07815-07816-07817-07818
Pull force	350N	350N
Thrust force	350N	350N
Stroke (mm)	300-600-800-1000	300-600-800-1000
Syncro Technology (patented)	YES	YES
Power supply voltage	24 V DC	24 V DC
Frequency	-	-
Nominal load current	0,80 A	0,80 A
Nominal load absorbed power	19,2 W	19,2 W
Speed	11/9,6 mm/s	11/9,6 mm/s
Duration of stroke with nominal load (open)	Stroke 300/600/800/1000 = 28/54/72/90 s	Stroke 300/600/800/1000 = 28/54/72/90 s
Duration of stroke with nominal load (close)	Stroke 300/600/800/1000 = 36/67/88/109 s	Stroke 300/600/800/1000 = 36/67/88/109 s
Double electrical insulation	B.T.	B.T.
Service type	S2 of 3 min	S2 of 3 min
Operating temperature	-20 °C ÷ +70 °C	-20 °C ÷ +70 °C
Electrical devices protection rating	IP32	IP32
Soft Stop	YES	YES
Relax function	YES	YES
Casement connection adjustment	Position self-detection	Position self-detection
Connection in parallel	YES	YES
Power cable type and length	H05VV-F - 2 m	FRR/2 - 2,5 m
Opening limit stop position	Electronic with dip-switch setting	Electronic with dip-switch setting
Closing limit switch	Power absorption type	Power absorption type
Overload protection	Power absorption type	Power absorption type
Dimensions for 24 V (stroke 300/600/800/1000)	34,6x37 L=408/624/667/764 mm	34,6x37 L=408/624/667/764 mm
Static holding force	2000 N	2000 N
Weight	0,8/1,3/1,7/2,1 Kg	0,8/1,3/1,7/2,1 Kg



Item code	Description	notes	Stroke	Length (mm) (length A)	Chain axis fixed length (length B)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07804	VARIA TUBE RWA 24 V - 300		300	408	185	X				1
07805	VARIA TUBE RWA 24 V - 600		600	564	185	X				1
07806	VARIA TUBE RWA 24 V - 800		800	667	185	X				1
07807	VARIA TUBE RWA 24 V - 1000		1000	764	185	X				1
07815	VARIA TUBE RWA SYNCRO 24 V - 300	pair	300	408	185	X				1
07816	VARIA TUBE RWA SYNCRO 24 V - 600	pair	600	564	185	X				1
07817	VARIA TUBE RWA SYNCRO 24 V - 800	pair	800	667	185	X				1
07818	VARIA TUBE RWA SYNCRO 24 V - 1000	pair	1000	764	185	X				1

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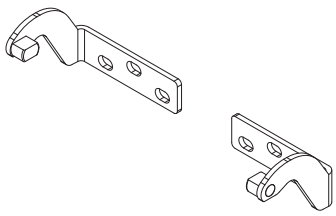
VARIA TUBE FIXING BRACKETS

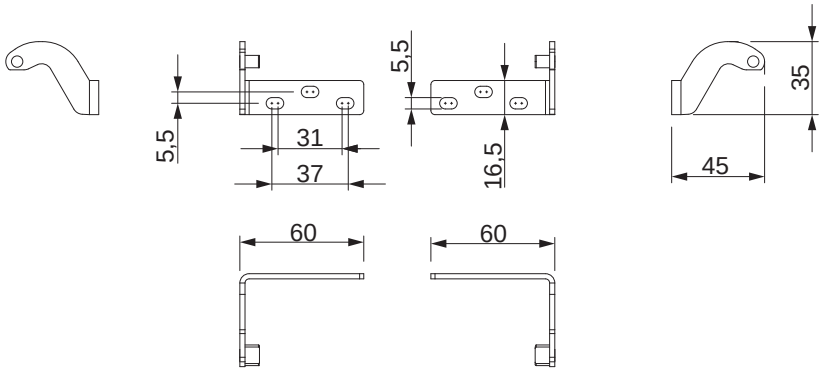
Functions
Metal fixing brackets applicable in combination with the Varia Tube range of chain actuators (all models).

Technical Features
The Varia Tube range of actuators is supplied exclusively with the frame fixing brackets.
The sash fixing bracket must be selected on the basis of the casement to be automated and the profile geometry.
Refer to the table for details of compatibility with the range of actuators.

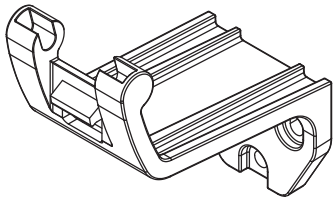
Materials
Sash and frame brackets in fibreglass-reinforced polyamide
Stainless steel quick-fit fixing clip

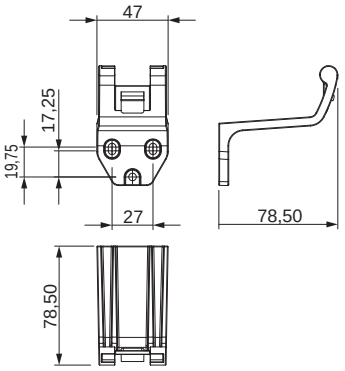
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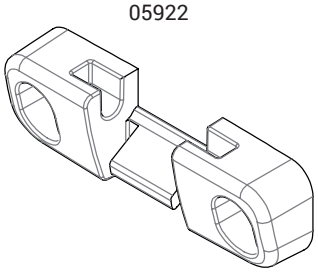


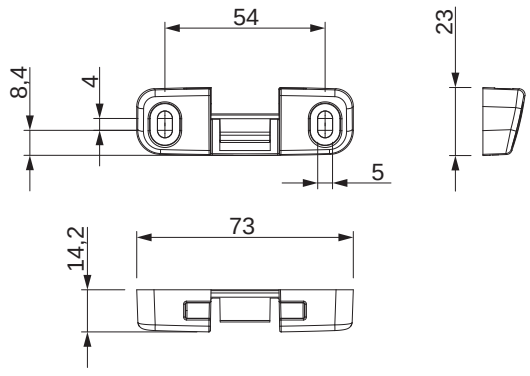
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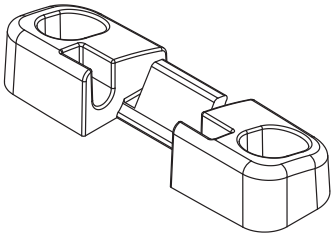
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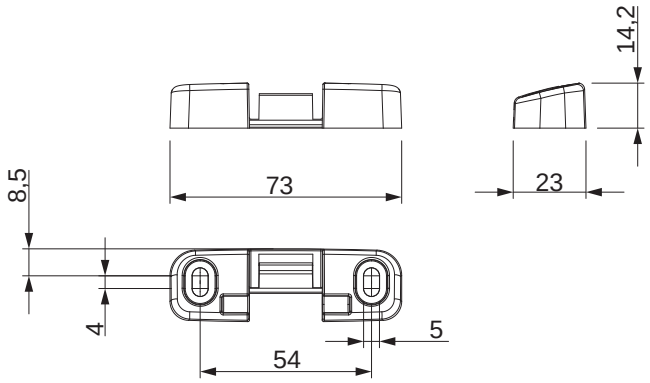




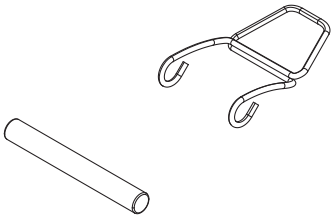
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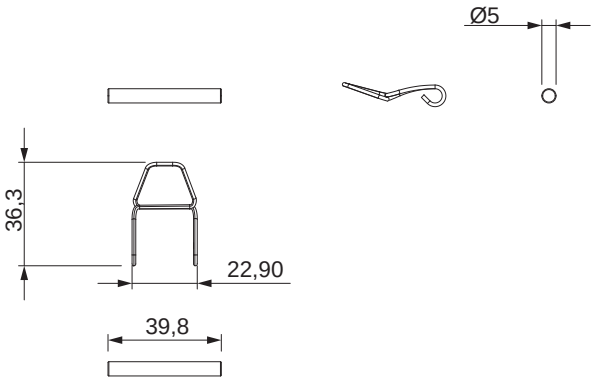
05923





05924





Item code	Description	notes	Material	supplied with VARIA TUBE	Compatible with	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
05920	VARIA TUBE FRAME BRACKETS	Spare Part	steel	Yes	All Varia Tube Range articles			X		1
05921	VARIA TUBE BOTTOM-HUNG WINDOW BRACKETS		Zamak	No	All Varia Tube Range articles			X		1
05922	VARIA TUBE TOP-HUNG WINDOW BRACKET		Zamak	No	All Varia Tube Range articles			X		1
05923	VARIA TUBE HORIZONTAL CONNECTION TOP-HUNG WINDOW BRACKET		Zamak	No	All Varia Tube Range articles			X		1
05924	QUICK CONNECTION FOR VARIA TUBE	Spare Part	steel	Yes	All Varia Tube Range articles	X				1

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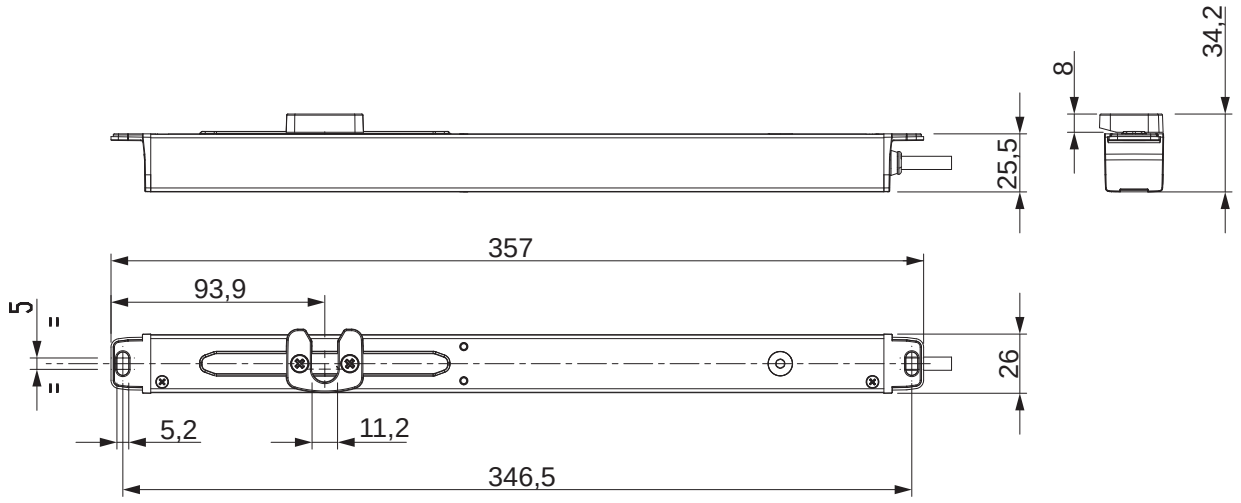


TUBE LOCK - 24 V

Functions
Electric locking device for the multiple locking of bottom-hung and top-hung windows, for combination with VARIA TUBE RWA 24 V DC (syncro and solo) chain actuators.

Technical Features
The TUBE LOCK - 24V electric locking device can be used with all VARIA TUBE RWA 24 Vdc (Syncro and Solo) family chain actuators: when the opening signal is received, the lock releases the locking points before the actuator comes into operation, and it locks the locking points as soon as the window has closed again.
The provision of locking points around the entire perimeter of the window significantly improves its tightness against air, water and wind.
Tube Lock is compact in size (25 x 26 mm) and is mounted set into the window frame, with no visual impact.
The bracket direction can be rotated if necessary.
The thrust and pull force (600 N working – 850 N starting) ensures exceptionally reliable operation, even with a large number of locking points.
Stroke selection (18 or 36 mm) using DIP switch.
Produced in compliance with Directive 2004/108 EC (EMC) and 2014/35/EU (low voltage) and tested at 10,000 cycles with full load.
Power supply voltage: 24Vdc.

Materials
Extruded aluminium body.
Fixing brackets in die-cast zamak



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Technical data

Model	TUBE-LOCK 24V
Item code	07809
Thrust and pull force	600 N – 850 N peak
Strokes	18 mm / 36 mm
Power supply voltage	24V (20,4÷30V)
Nominal load current input	0.85 A during stroke 1.2 A overload cutout rating
Nominal load absorbed power	~ 20 W
Idle stroke speed	5 mm/s
Duration of idle stroke	4 s (18 mm) – 7,2 s (36 mm)
Double electrical insulation	Device at safety extra-low voltage (SELV)
Duty rate	0,3
Service	S2 1 minute
Structure material	Extruded aluminium alloy
Operating temperature	-20°C ÷ +70°C
Electrical devices protection rating	IP 40
Opening and closing limit stop position	Electronically preset
Operation with chain actuator	Selectable
Operation without actuator	Selectable
Power cable with silicone insulation	3x0,5 mm² - 2,00 m
Open/Close stroke overload protection	Overload cutout
Dimensions (mm)	25,5x25,5x 357
Weight (kg)	0,56

Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07809	TUBE LOCK - 24 V		X				1

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VARIA SLIM PLUS RWA AND VARIA SLIM PLUS RWA SYNCRO

Functions

Electromechanical linear actuators with chain for automation of bottom-hung and top-hung windows, pivoting windows, skylights and other casement types.

Technical Features

VARIA SLIM PLUS RWA actuators are available exclusively with 24Vdc power supply.
The actuators in this family have a double-row 4-link articulated chain with internal collection in an aluminium casing (painted).
This product family is composed of:
• Varia Slim Plus RWA 24 V in the “Solo” version, an actuator designed to function individually that cannot be connected to the other actuators in this family to create 2 or more thrust points on a window;
• Varia Slim Plus RWA Syncro 24Vdc, composed of a pair of operators (2 pcs) generally fitted to particularly wide windows (more than 1600 mm) to obtain 2 thrust and closing points perfectly synchronized between the two operators. Suitable also for parallel openings in which opening and closing of the sash must be uniform on all 4 sides. In normal circumstances, depending on the size of the parallel opening, 2 (1 pair) or 4 actuators (2 pairs) are employed. Up to 8 (4 pairs) Varia Slim Plus RWA Syncro 24Vdc actuators can be synchronized simultaneously to obtain 8 thrust points.
Each pair of Varia Slim Plus RWA Syncro actuators produced by Giesse is supplied pre-synchronized. The operations required to synchronize multiple Varia Slim Plus RWA Syncro actuators are straightforward and can be performed quickly. If required, customers can order multiple pairs of actuators that are already synchronized with one another (contact the Technical Department).
The Varia Slim Plus 24 V RWA and Varia Slim Plus RWA Syncro 24Vdc actuators are designed to pass the heat and fire resistance tests prescribed by EN 12101-2:2003-09, with classification B300.
Thrust and pull force = 300N.
Chain stroke adjustable by means of DIP switches, with lengths of 200/300/500 mm.
Actuators with load-dependent closing stroke cut-off function, connectable in parallel.
The products are equipped with the “soft stop” function, which provides a speed reduction in the final stroke distance, and the “relax” function, wherein the gears are released once the closed position has been reached in order to reduce mechanical stress.
The products are equipped with diagnostic LEDs.
The pack contains 2 frame fixing brackets for each actuator while the sash fixing brackets are sold separately and must be selected on the basis of the type of casement to be automated.

Materials

Painted die-cast aluminium external guard
Galvanized steel chain
Painted Zamak frame brackets
Stainless steel fixing clips

Parts

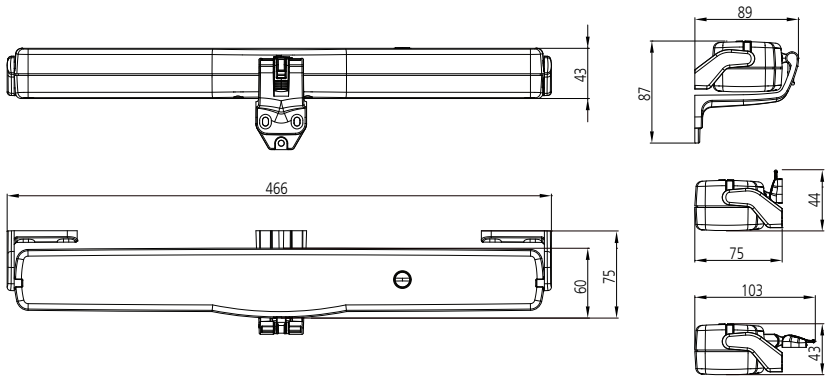
VARIA SLIM PLUS RWA 24 V
• One actuator
• Pair of operator to frame fixing brackets
• Drilling template for bottom-hung and top-hung windows
• One quick-fit clip (spring + pin)

VARIA SLIM PLUS RWA SYNCRO 24 V
• Pair (2 pcs) of actuators
• Two pairs of operator to frame fixing brackets (vertical assembly)
• Drilling template for bottom-hung and top-hung windows
• Two quick-fit clips (spring + pin)
• Two connection terminals

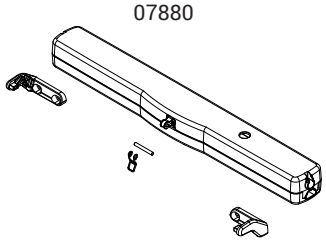
Finish

Black (500) RAL 9005, White (410) RAL 9010, Grey (970) RAL 9006

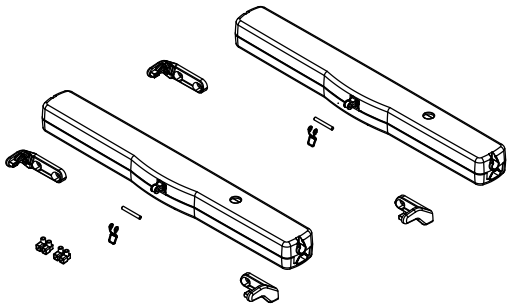
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07880



07881



Technical data

Model	VARIA SLIM PLUS RWA	VARIA SLIM PLUS RWA SYNCRO
Item code	07880	07881
Thrust and pull force	300N	300N
Stroke (mm)	200/300/500	200/300/500
Synchronization	NO	YES
Power supply voltage	24V DC	24V DC
Nominal load current input	0,910 A	0,910 A
Nominal load absorbed power	~ 20W	~ 20W
Idle travel speed	8,9 mm/s	8,9 mm/s
Duration of idle stroke	56 s	56 s
Double electrical insulation	Low voltage	Low voltage
Service type	S2 3 minutes	S2 3 minutes
Operating temperature	-5 ÷ 65 °C	-5 ÷ 65 °C
Electrical devices protection rating	IP 32	IP 32
Soft Stop	YES	YES
Relax function	YES	YES
Casement connection adjustment	Position self-detection	Position self-detection
Connection in parallel	SI (max 30 actuators)	SI (max 30 actuators)
Power cable length	2 m	2,5 m
Opening stroke limit selection	Electronics with DIP switch adjustment	Electronics with DIP switch adjustment
Closing limit switch	Power absorption type	Power absorption type
Dimensions mm	456 x 60 x 43	456 x 60 x 43
Unit weight kg	1,63 kg	1,63 kg
Static holding force	1700N	1700N
Brackets supplied	Standard fixing brackets for frame (sash brackets to be ordered separately)	Standard fixing brackets for frame (sash brackets to be ordered separately)

Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07880	VARIA SLIM PLUS RWA - 24 V				X		1
07881	VARIA SLIM PLUS RWA SYN-CRO-24V	pair			X		1

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VARIA SLIM PLUS AND VARIA SLIM PLUS SYNCRO

Functions

Electromechanical linear actuators with chain for automation of bottom-hung and top-hung windows, pivoting windows, skylights and other casement types.

Technical Features

The actuators in the VARIA SLIM PLUS product family are available exclusively with 230Vac power supply.
This product family is composed of:
• Varia Slim Plus (230Vac) in the “Solo” version, an actuator designed to function individually that cannot be connected to the other actuators in this family to create 2 or more thrust points on a window;
• Varia Slim Plus Syncro (230Vac) composed of a pair of operators (2 pcs) generally fitted to particularly wide windows (more than 1600 mm) to obtain 2 thrust points and with the closing movement perfectly synchronized between the two operators. Suitable also for parallel openings in which opening and closing of the sash must be uniform on all 4 sides. In normal circumstances, depending on the size of the parallel opening, 2 (1 pair) or 4 actuators (2 pairs) are employed. Up to 8 (4 pairs) Varia Slim Plus Syncro (230Vac) actuators can be synchronized simultaneously to obtain 8 thrust points.
Each pair of Varia Slim Plus Syncro actuators produced by Giesse is supplied pre-synchronized. The operations required to synchronize multiple Varia Slim Plus Syncro actuators are straightforward and can be performed quickly. If required, customers can order multiple pairs of actuators that are already synchronized with one another (contact the Technical Department).
The chain is of the double-row 4-link articulated type with internal collection in an aluminium casing (painted).
Chain stroke adjustable by means of DIP switches, with lengths of 200/300/500 mm.
Thrust and pull force = 300N.
Actuators with load-dependent closing stroke cut-off function, connectable in parallel.
The products are equipped with the “soft stop” function, which provides a speed reduction in the final stroke distance, and the “relax” function, wherein the gears are released once the closed position has been reached in order to reduce mechanical stress.
The products are equipped with diagnostic LEDs.
The pack contains 2 frame fixing brackets for each actuator while the sash fixing brackets are sold separately and must be selected on the basis of the type of casement to be automated.

Materials

Painted die-cast aluminium external guard
Galvanized steel chain
Painted Zamak frame brackets
Stainless steel fixing clips

Parts

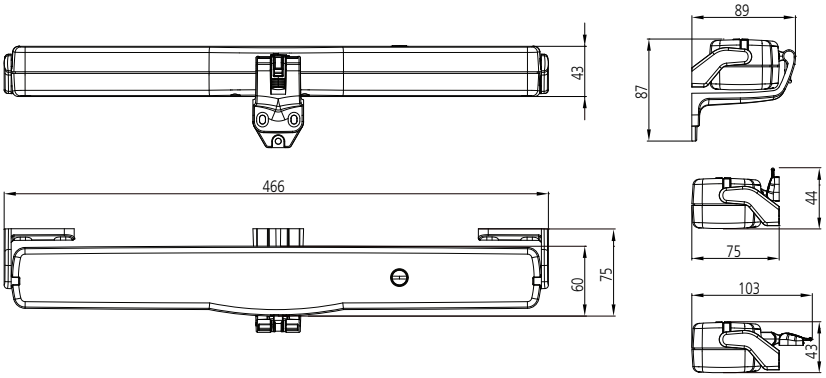
VARIA SLIM PLUS (230Vac)
One actuator
Pair of operator to frame fixing brackets
A drilling template for bottom-hung and top-hung applications
One quick-fit fixing clip (spring + pin)

VARIA SLIM PLUS SYNCRO (230Vac)
Pair (2 pcs) of actuators and two pairs of operator to frame fixing brackets
Two pairs of operator to frame fixing brackets (vertical assembly)
A drilling template for bottom-hung and top-hung applications
Two quick-fit fixing clips (spring + pin)
Two connection terminals

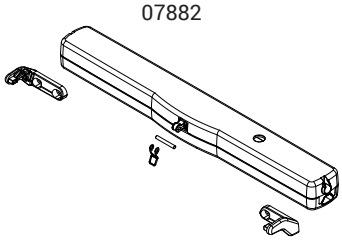
Finish

Black (500) RAL 9005, White (410) RAL 9010, Grey (970) RAL 9006

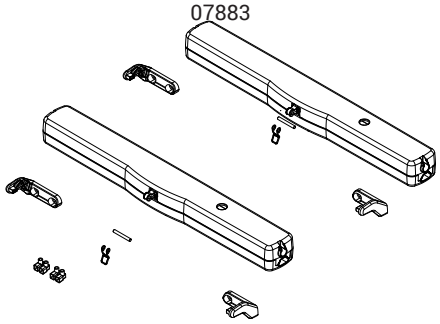
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07882



07883



Technical data

Model	VARIA SLIM PLUS-230V	VARIA SLIM PLUS SYNCRO-230V
Item code	07882	07883
Thrust and pull force	300N	300N
Stroke (mm)	200/300/500	200/300/500
Synchronization	NO	YES
Power supply voltage	110 ÷ 230V AC 50/60 Hz	110 ÷ 230V AC 50/60 Hz
Nominal load current input	0,160 A	0,160 A
Nominal load absorbed power	~ 36W	~ 36W
Idle travel speed	7,2 mm/s	7,2 mm/s
Duration of idle stroke	70 s	70 s
Double electrical insulation	YES	YES
Service type	S2 3 minutes	S2 3 minutes
Operating temperature	-5 ÷ 65 °C	-5 ÷ 65 °C
Electrical devices protection rating	IP 32	IP 32
Soft Stop	YES	YES
Relax function	YES	YES
Casement connection adjustment	Position self-detection	Position self-detection
Connection in parallel	SI (max 30 actuators)	SI (max 30 actuators)
Power cable length	2 m	2,5 m
Opening stroke limit selection	Electronics with DIP switch adjustment	Electronics with DIP switch adjustment
Closing limit switch	Power absorption type	Power absorption type
Dimensions mm	456 x 60 x 43 mm	456 x 60 x 43 mm
Unit weight kg	1,43 Kg	1,43 Kg
Static holding force	1700N	1700N
Brackets supplied with each actuator	Standard fixing brackets for frame (sash brackets to be ordered separately)	Standard fixing brackets for frame (sash brackets to be ordered separately)

Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07882	VARIA SLIM PLUS 230 V				X		1
07883	VARIA SLIM PLUS SYNCRO 230 V	pair			X		1

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VARIA SLIM PLUS HARDWARE

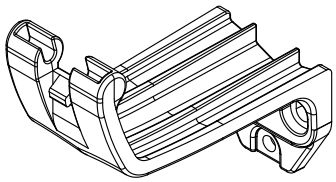
Functions

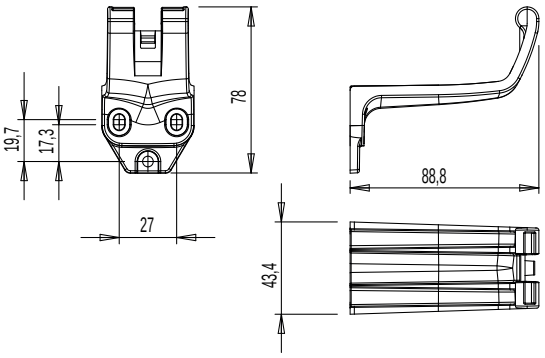
Metal fixing brackets applicable in combination with the Varia Slim Plus range of chain actuators (all models).

Technical Features

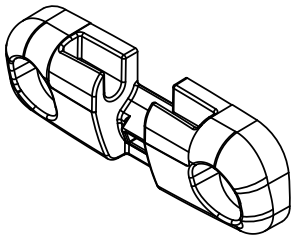
The Varia Slim Plus range of actuators is supplied exclusively with the frame fixing brackets.
The sash fixing bracket must be selected on the basis of the casement to be automated and the profile geometry.
All products, with the exception of art. 05909, are available in the finishes: black (500: RAL 9005), white (410 – RAL 9010), grey/silver (970 – RAL 9006).
Refer to the table for details of compatibility with the range of actuators.

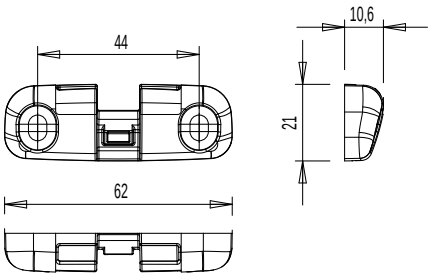
05900



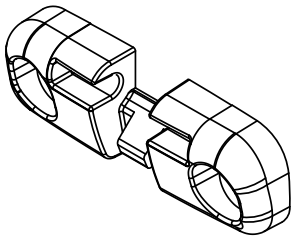


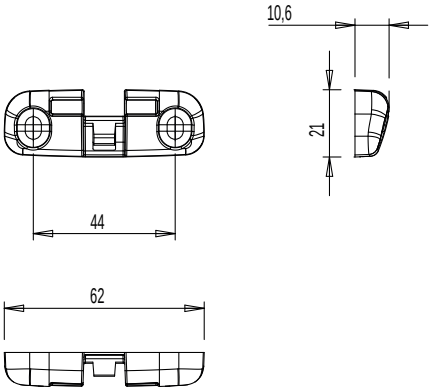
05901





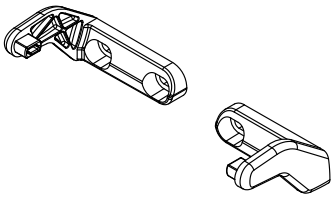
05902

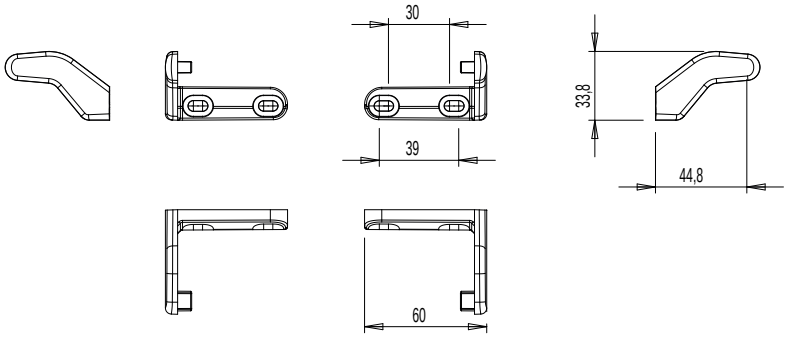




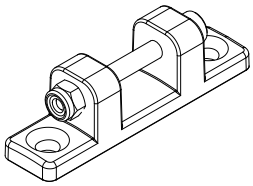
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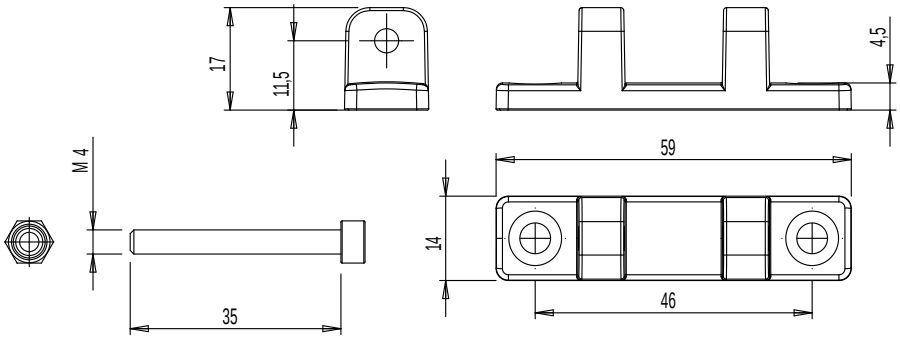
05903



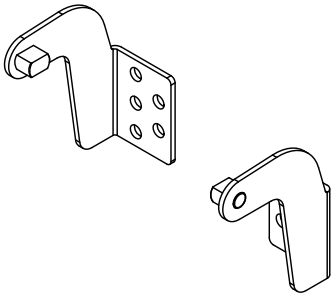


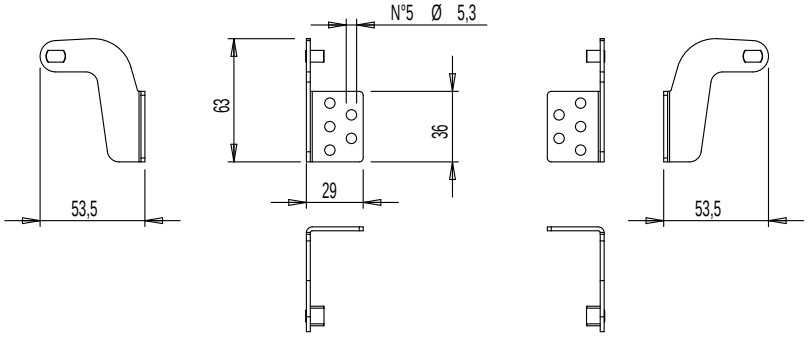
05909





05911





Item code	Description	Material	Supplied with Varia Slim Plus	Compatible with	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
05900	VARIA SLIM PLUS BOTTOM-HUNG WINDOW BRACKETS (SASH)	Painted zamak	No	Varia Slim Plus			X		1
05901	VARIA SLIM PLUS VERTICAL TOP-HUNG WINDOW BRACKET (SASH)	Painted zamak	No	Varia Slim Plus			X		1
05902	VARIA SLIM PLUS HORIZONTAL TOP-HUNG WINDOW BRACKET (SASH)	Painted zamak	No	Varia Slim Plus			X		1
05903	VARIA SLIM PLUS STANDARD FIXING BRACKET (FRAME)	Painted zamak	Yes	Varia Slim Plus			X		1
05909	VARIA SLIM PLUS TOP-HUNG BRACKET (SASH) - H15 MM	Unfinished Zamak	No	Varia Slim Plus	X				1
05911	VARIA SLIM PLUS FIXING BRACKET (FRAME)	Painted steel	No	Varia Slim Plus			X		1

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VARIA SLIM

Functions

Electromechanical linear actuator with chain for automation of bottom-hung and top-hung windows, pivoting windows, skylights and other casement types.

Technical Features

The actuators in the VARIA SLIM product family are available with 24Vdc or 230Vac power supply.
The actuators in this family have a double-row 4-link articulated chain with internal collection in a fibreglass-reinforced polyamide casing.
These products are defined as “solo” versions because they operate independently and cannot be linked to additional Varia Slim actuators to create 2 (or more) thrust points.
Thrust and pull force = 300N.
Chain stroke adjustable by means of DIP switches, with lengths of 110/200/300/400 mm.
Actuators with load-dependent closing stroke cut-off function, connectable in parallel.
The products are equipped with the “soft stop” function, which provides a speed reduction in the final stroke distance, and the “relax” function, wherein the gears are released once the closed position has been reached in order to reduce mechanical stress.
The actuator is equipped with diagnostic LEDs.
The pack contains 2 types of frame fixing brackets and 2 sash fixing brackets: one for bottom-hung casements and one for top-hung casements.

Materials

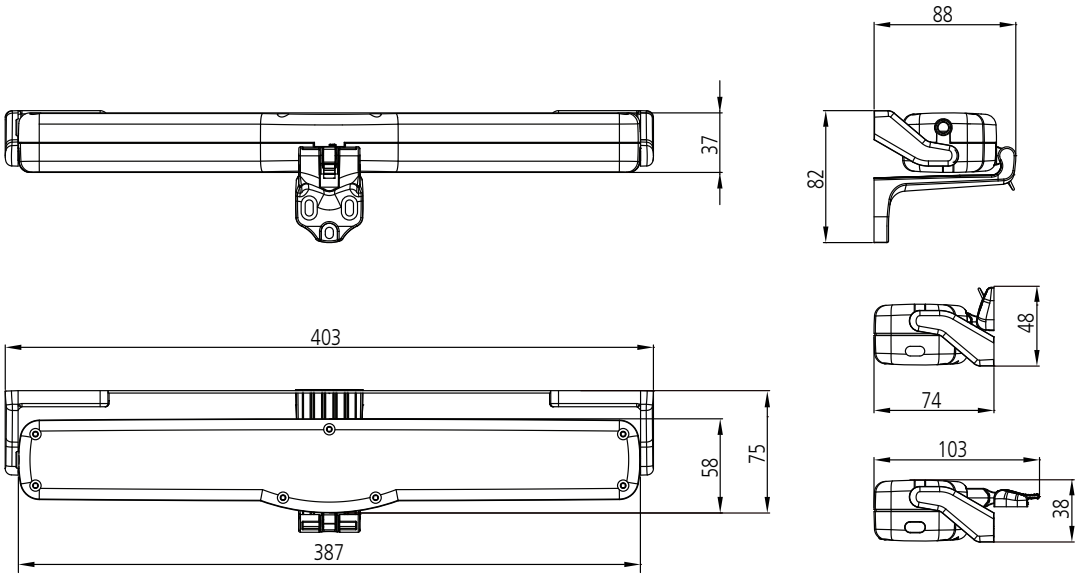
Outer guard in fibreglass-reinforced polyamide
Galvanized steel chain
Brackets in fibreglass-reinforced polyamide
Stainless steel fixing clips

Parts

One actuator
Pair of operator to frame fixing brackets
Pair of operator to frame fixing brackets (vertical assembly)
One fixing bracket (sash) for bottom-hung casements
One fixing bracket (sash) for top-hung casements
One frame brackets spacer
A drilling template for bottom-hung and top-hung applications
One quick-fit fixing clip (spring + pin)

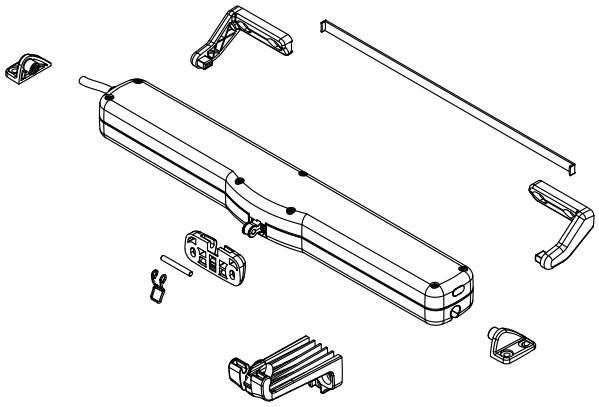
Finish

Black (500) RAL 9005, White (410) RAL 9010, Grey (970) RAL 9006



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07884 - 07885



Technical data

Model	VARIA SLIM - 230V	VARIA SLIM - 24V
Item code	07884	07885
Thrust and pull force	300N	300N
Stroke (mm)	110/200/300/400	110/200/300/400
Synchronization	NO	NO
Power supply voltage	230V~ 50Hz	24V =
Nominal load current input	0,115 A	0,950 A
Nominal load absorbed power	~ 25 W	~ 23 W
Idle travel speed	12,5 mm/s	12,5 mm/s
Maximum duration of idle stroke	32 s	32 s
Double electrical insulation	YES	Low Voltage
Service type	S2 3 minutes	S2 3 minutes
Operating temperature	-5 °C ÷ +65 °C	-5 °C ÷ +65 °C
Electrical devices protection rating	IP30	IP30
Soft Stop	NO	NO
Relax function	YES	YES
Casement connection adjustment	Position self-detection	Position self-detection
Connection in parallel	YES	YES
Power cable length	2 m	2 m
Opening stroke limit selection	Electronics with DIP switch adjustment	Electronics with DIP switch adjustment
Closing limit switch	Power absorption type	Power absorption type
Overload protection	Power absorption type	Power absorption type
Dimensions mm	387 x 59 x 37 mm	387 x 59 x 37 mm
Unit weight kg	0,97 Kg	0,94 Kg
Static holding force	1700N	1700N
Brackets supplied	Standard support brackets (frame) Support brackets for vertical fixing (frame) Bottom-hung window bracket (sash) Top hung window vertical bracket (sash)	Standard support brackets (frame) Support brackets for vertical fixing (frame) Bottom-hung window bracket (sash) Top hung window vertical bracket (sash)

Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07884	VARIA SLIM 230V		X				1
07885	VARIA SLIM 24 V		X				1

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VARIA SLIM SYNCRO

Functions

Pair of electromechanical linear actuators with chain for automation of bottom-hung and top-hung windows, pivoting windows, skylights and other casement types.

Technical Features

The actuators in the VARIA SLIM SYNCRO product family are available with 24Vdc or 230Vac power supply.
Varia Slim Syncro actuators are usually applied to particularly wide (more than 1600 mm) top-hung or bottom-hung windows requiring two or more perfectly synchronized thrust points.
Another compatible application is for parallel openings in which opening and closing of the sash must be uniform on all 4 sides.
In normal circumstances, depending on the size of the parallel opening, 2 (1 pair) or 4 actuators (2 pairs) are employed.
Up to 8 (4 pairs) Varia Syncro actuators can be synchronized simultaneously to obtain 8 thrust points.
Each pair of Varia Slim Syncro actuators manufactured by Giesse is supplied pre-synchronized. The operations required to synchronize multiple Varia Slim Syncro actuators are straightforward and can be performed quickly. If required, customers can order multiple pairs of actuators that are already synchronized with one another (contact the Technical Department).
The actuators in this family have a double-row 4-link articulated chain with internal collection in a fibreglass-reinforced polyamide casing.
Thrust and pull force = 300N.
Chain stroke adjustable by means of DIP switches, with lengths of 100/200/400 mm.
Actuators with load-dependent closing stroke cut-off function, connectable in parallel.
The products are equipped with the “soft stop” function, which provides a speed reduction in the final stroke distance, and the “relax” function, wherein the gears are released once the closed position has been reached in order to reduce mechanical stress.
The actuator is equipped with diagnostic LEDs.
The pack contains 2 types of frame fixing brackets and 2 sash fixing brackets: one for bottom-hung casements and one for top-hung casements.

Materials

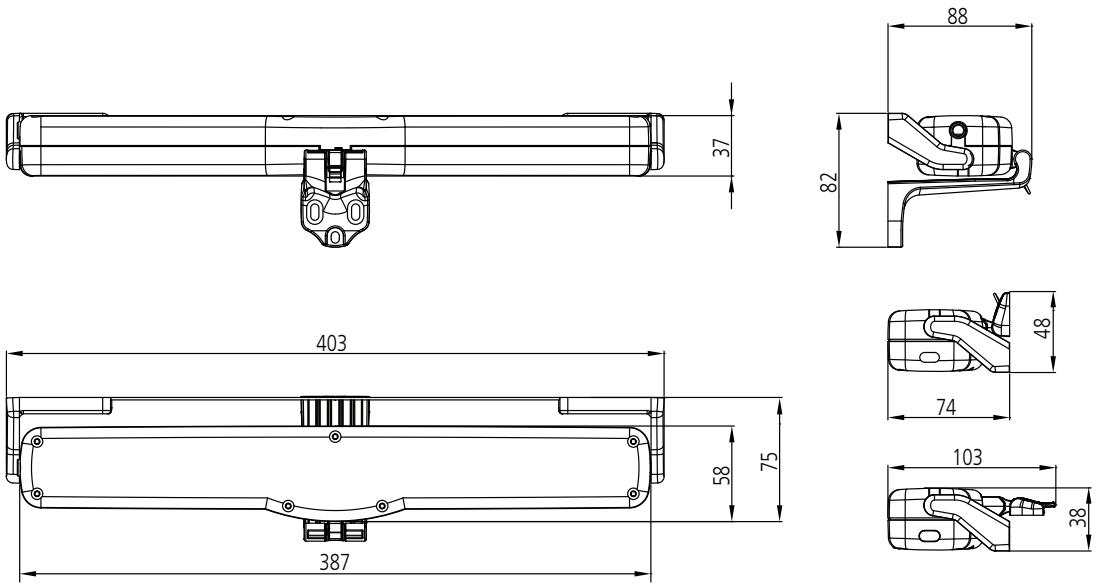
Outer guard in fibreglass-reinforced polyamide
Galvanized steel chain
Brackets in fibreglass-reinforced polyamide
Stainless steel fixing clips

Parts

Pair of VARIA SLIM SYNCRO actuators
Two pairs of operator to frame fixing brackets
Two pairs of operator to frame fixing brackets (vertical assembly)
Two fixing brackets for bottom-hung casements (sash)
Two fixing brackets for top-hung casements (sash)
Two frame bracket spacers
A drilling template for bottom-hung and top-hung applications
Two quick-fit fixing clips (spring + pin)
Two connection terminals

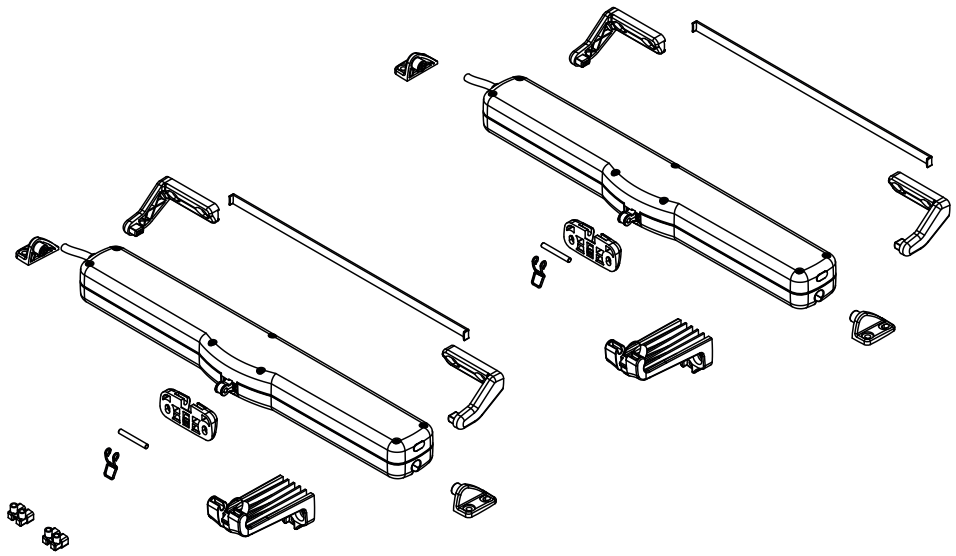
Finish

Black (590), White (560), Grey (542)



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07886 - 07887



Technical data

Model	VARIA SLIM SYNCRO-230V	VARIA SLIM SYNCRO-24V
Item code	07886	07887
Thrust and pull force	300N	300N
Stroke (mm)	100 / 200 / 400	100 / 200 / 400
Synchronization	YES	YES
Power supply voltage	230V~ 50Hz	24V =
Nominal load current input	0,115 A	0,950 A
Nominal load absorbed power	~ 25 W	~ 25W
Idle travel speed	8,5 mm/s	8,5 mm/s
Duration of idle stroke	48 s	48 s
Double electrical insulation	YES	Low Voltage
Service type	S2 3 minutes	S2 3 minutes
Operating temperature	-5 °C ÷ +65 °C	-5 °C ÷ +65 °C
Electrical devices protection rating	IP30	IP30
Soft Stop	YES	YES
Relax function	YES	YES
Casement connection adjustment	Position self-detection	Position self-detection
Connection in parallel	YES	YES
Power cable length	2,5 m	2,5 m
Opening stroke limit selection	Electronics with DIP switch adjustment	Electronics with DIP switch adjustment
Closing limit switch	Power absorption type	Power absorption type
Overload protection	Power absorption type	Power absorption type
Dimensions mm	387 x 59 x 37 mm	387 x 59 x 37 mm
Unit weight kg	1,18 Kg	1,15 Kg
Static holding force	1700N	1700N
Brackets supplied with each operator	Standard support brackets (frame) Support brackets for vertical fixing (frame) Bottom-hung window bracket (sash) Top hung window vertical bracket (sash)	Standard support brackets (frame) Support brackets for vertical fixing (frame) Bottom-hung window bracket (sash) Top hung window vertical bracket (sash)

Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07886	VARIA SLIM SYNCRO 230 V	pair	X				1
07887	VARIA SLIM SYNCRO 24 V	pair	X				1

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VARIA SLIM RADIO

Functions

Electromechanical linear actuator with chain for automation of bottom-hung and top-hung windows, pivoting windows, skylights and other casement types, with remote control facility via radio control and connectable directly to a rain sensor.

Technical Features

Electromechanical linear actuator with double-row 4-link articulated chain with internal collection in a fibreglass-reinforced polyamide casing.
Thrust and pull force = 300N.
Chain stroke adjustable by means of DIP switches, with lengths of 100/200/300 and 400 mm.
Equipped with load-dependent closing stroke cut-off function, connectable in parallel.
The Varia Slim Radio actuator operates with a 110/230V~ (AC) 50/60 HZ power supply and it is equipped with a radio receiver (built into the actuator body) capable of receiving the opening and closing commands from radio control art. 07892 (not included).
The Varia Slim Radio actuator can be connected by cable to rain sensor art. 07894 or to rain sensor art. 07893, which transmits the signal wirelessly, without requiring an additional control unit.
The product is equipped with the “soft stop” function, which consists in speed reduction in the final stroke distance, and the “relax” function, consisting in release of the gears once the closed position has been reached, in order to reduce mechanical stress.
The actuator is equipped with diagnostic LEDs.
The pack contains 2 types of frame fixing brackets and two sash fixing brackets: one for bottom-hung casements and one for top-hung casements.

Materials

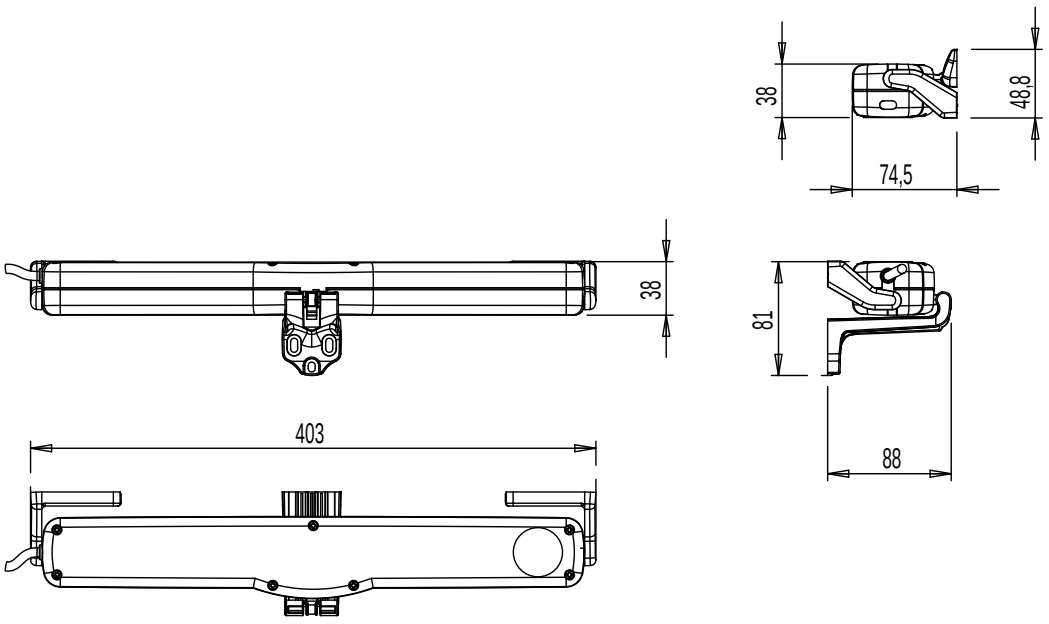
Outer guard in fibreglass-reinforced polyamide
Galvanized steel chain
Brackets in fibreglass-reinforced polyamide
Stainless steel fixing clips

Parts

One actuator
Pair of operator to frame fixing brackets
Pair of operator to frame fixing brackets (vertical assembly)
One fixing bracket (sash) for bottom-hung casements
One fixing bracket (sash) for top-hung casements
One frame brackets spacer
A drilling template for bottom-hung and top-hung applications
One quick-fit fixing clip (spring + pin)

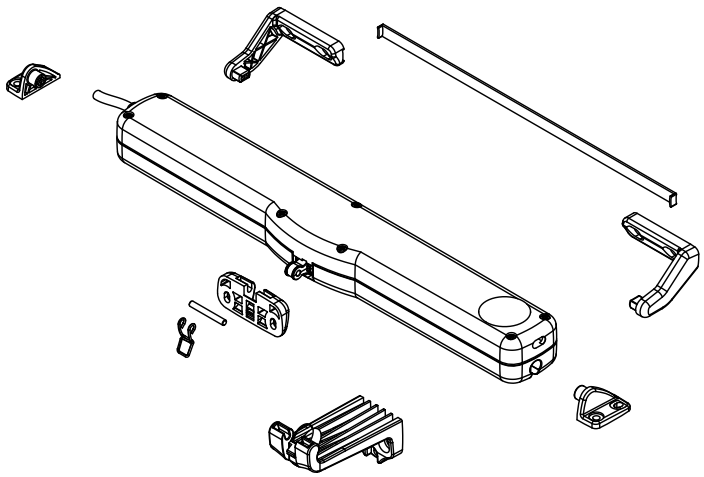
Finish

Black (590), White (560), Grey (542)

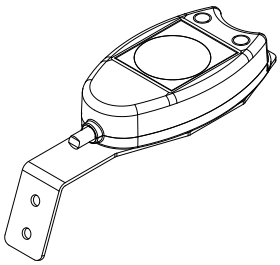


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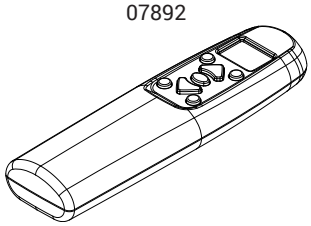
07888



07893-07894



07892



Technical data

Model	VARIA SLIM RADIO 230V
Item code	07888
Thrust and pull force	300N
Stroke (mm)	100/200/300/400
Synchronization	NO
Power supply voltage	230V~ 50Hz
Nominal load current input	0,160 A
Nominal load absorbed power	~ 28 W
Idle travel speed	12 mm/s
Duration of idle stroke	30 s
Double electrical insulation	YES
Service type	S2 3 minutes
Operating temperature	-5 °C ÷ +65 °C
Electrical devices protection rating	IP30
Soft Stop	NO
Relax function	YES
Casement connection adjustment	Position self-detection
Connection in parallel	NO
Power cable length	2 m
Opening stroke limit selection	Electronics with DIP switch adjustment
Closing limit switch	Power absorption type
Overload protection	Power absorption type
Dimensions mm	387 x 59 x 37 mm
Unit weight kg	1,17 Kg
Static holding force	1700N
Brackets supplied	Standard support brackets (frame) Support brackets for vertical fixing (frame) Bottom-hung window bracket (sash) Top hung window vertical bracket (sash)

Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07888	VARIA SLIM RADIO 230 V		X				1

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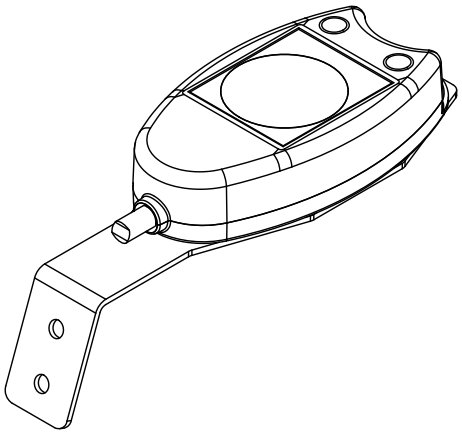
RAIN SENSORS FOR VARIA SLIM RADIO

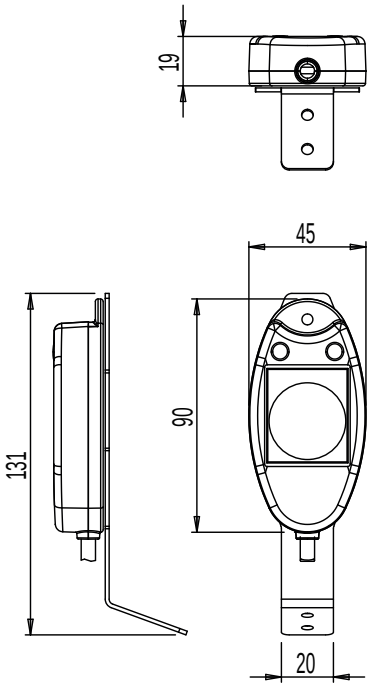
Functions
A rain sensor connected to the Varia Slim Radio actuator allows the casement to be closed automatically in the case of rain.

Technical Features
Products 07893 and 07894 are rain sensors that can be connected directly to the Varia Slim Radio chain actuator art. 07888 without requiring a control unit.
Rain sensor art. 07893 is connected wirelessly and hence does not require a physical (cable) connection with the actuator.
Rain sensor art. 07894 is connected to the actuator by means of a cable (5 m long) supplied with the product.
Both products must be connected to a power supply of between 12Vdc and 24Vdc. The sensor is not affected by the formation of dew or humidity because its heating system keeps the contact “clean” at all times, avoiding any risk of nuisance closing commands.
The rain sensors are supplied with a bracket for fixing in an outdoor location.
The external sheath of the product is made of material designed to resist weathering and UV radiation; does not promote flame propagation.

Materials
Plastic polymer outer body
Stainless steel bracket

07893-07894





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Technical data

Model	SPR radio heated rain sensor - code 07893	SPR heated rain sensor - code 07894
Power supply voltage	12Vdc ÷ 24Vdc	12Vdc ÷ 24Vdc
Maximum current absorption	20 mA	20 mA
Maximum current absorption with heater on	120 mA	120 mA
Sensor type	Capacitive	Capacitive
Heater activation	< +4°C	< +4°C
Contact type	SPDT	SPDT
Contact load capacity	0,5A/125Vac - 1A/24Vdc	0,5Aac/125Vac - 1Adc/24Vdc
Radio transmission frequency	433,92 MHz	-
Operating temperature	-20°C ÷ +65°C	-20°C ÷ +65°C
Power cable length	5 m	5 m
Power supply cable type - number of wires	PVC LiY2Y UV protected - 5 core	PVC LiY2Y UV protected - 5 core
Electrical devices protection rating	IP65	IP65
Dimensions	45x93mm; H=19mm	45x93mm; H=19mm
Weight	52g (excluding cable)	52g (excluding cable)

Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07894	HEATED RAIN SENSOR - SPR		X				1

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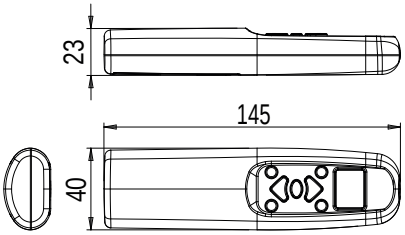


RADIO CONTROL FOR VARIA SLIM RADIO

Functions
The radio control allows remote opening and closing of the Varia Slim Radio chain actuator art. 07888.

Technical Features
The product is a transmitter for radio remote control of a VARIA SLIM RADIO chain actuator art. 07888.
It has 30 direct rolling code 433.92 MHz radio transmission channels with resolution greater than 18 billion possible combinations.
A single radio control can be used to control multiple VARIA SLIM RADIO actuators.
LCD display.
Maximum transmission range of 50 m with batteries fully charged.
Requires two 1.5 V AAA batteries.

Materials
White ABS



Technical data

Model	Radio Control code 07892
Type	Multichannel radio control with microprocessor
Number of transmission channels	30
Transmission frequency	433,92 MHz
Modulation	ASK
Power supply voltage	2 x 1.5V batteries – type AAA
Operating voltage	1,8V ÷ 3,3V
Estimated battery life	> 2 years with average usage of 1 minute/day
Screen	LCD (liquid crystal)
Information displayed	2 digits (selected channel)
Information displayed	Battery charge status
Information displayed	transmission status
Information displayed	Letters for specific functions
Screen size	18.5x13.5 mm
Coding	HCS301
Independent codes	>18 x 10^18 “combinations”
Power absorption in stand-by	< 1µa
Power absorption in transmission	< 20 mA
Keypad	Operation control (UP Arrow, DOWN Arrow, STOP)
Keypad	2 Function keys (F1, F2)
Keypad	1 Memory key (M)
Keypad	1 Channel key (CH)
Transmission range	50 m (with fully charged batteries)
Normative references	Approved in accordance with the R&TTE Directive 1999/5/EC - Directive 1999/5 / EC of the European parliament and council of 9 March 1999
Dimensions	145 x 38,5 x 22,5 mm
Weight	76 g

Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07892	REMOTE CONTROL - RC		X				1

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SLIM LOCK - 24 V

Functions

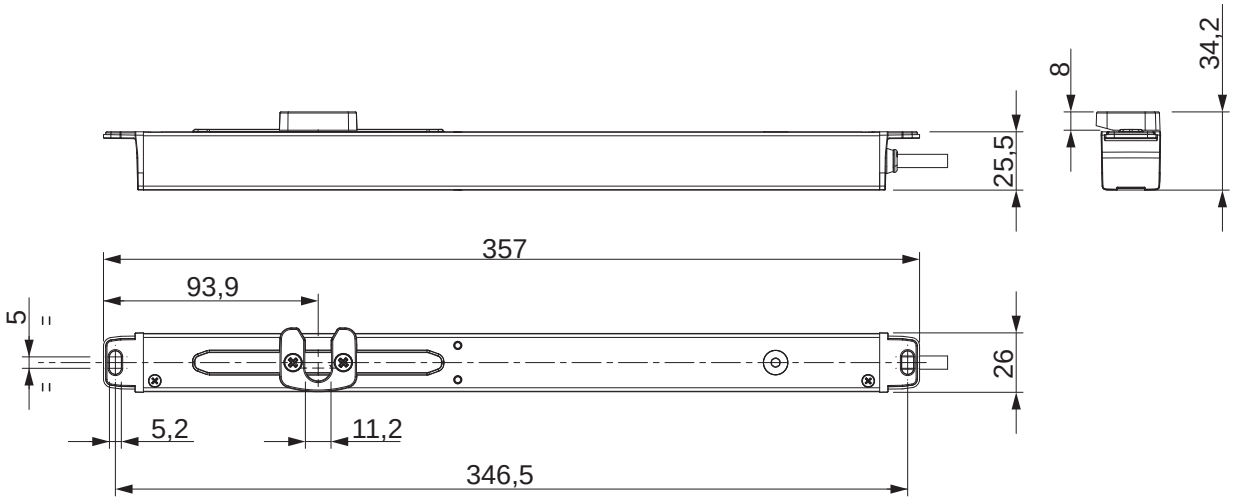
Electric locking device for the multiple locking of bottom-hung and top-hung windows, for combination with VARIA SLIM (syncro and solo) chain actuators operating at 24 V DC.

Technical Features

The SLIM LOCK – 24 V locking device can be combined with the following VARIA SLIM chain actuators:
• Varia Slim Plus RWA 24 V DC (Solo and Syncro)
• Varia Slim 24 V DC (Solo and Syncro)
• Varia Slim Small 24 V DC
(N.B.: this article cannot be combined with the Varia Slim Base 24 V DC actuator).
When the opening signal is received, the lock releases the locking points before the actuator comes into operation, and it locks the locking points as soon as the window has closed again.
The provision of locking points around the entire perimeter of the window significantly improves its tightness against air, water and wind.
Tube Lock is compact in size (25 x 26 mm) and is mounted set into the window frame, with no visual impact.
The bracket direction can be rotated if necessary.
The thrust and pull force (600 N working – 850 N starting) ensures exceptionally reliable operation, even with a large number of locking points.
Stroke selection (18 or 36 mm) using DIP switch.
Produced in compliance with Directive 2004/108 EC (EMC) and 2014/35/EU (low voltage) and tested at 10,000 cycles with full load.
Power supply voltage: 24 V DC.

Materials

Extruded aluminium body.
Fixing brackets in die-cast zamak



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Technical data

Model	SLIM-LOCK 24V
Item code	07895
Thrust and pull force	600 N – 850 N peak
Strokes	18 mm / 36 mm
Power supply voltage	24V ⎓ (20,4÷30V⎓)
Nominal load current input	0.85 A during stroke 1.2 A overload cutout rating
Nominal load absorbed power	~ 20 W
Idle stroke speed	5 mm/s
Duration of idle stroke	4 s (18 mm) – 7,2 s (36 mm)
Double electrical insulation	Device at safety extra-low voltage (SELV)
Duty rate	0,3
Service	S2 1 minute
Structure material	Extruded aluminium alloy
Operating temperature	-20°C ÷ +70°C
Electrical devices protection rating	IP 40
Opening and closing limit stop position	Electronically preset
Operation with chain actuator	Selectable
Operation without actuator	Selectable
Power cable with silicone insulation	3x0,5 mm² - 2,00 m
Open/Close stroke overload protection	Overload cutout
Dimensions (mm)	25,5x25,5x 357
Weight (kg)	0,56

Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07895	SLIM LOCK - 24 V		X				1

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VARIA SLIM BASE

Functions

Linear electromechanical actuator with chain for automation of bottom-hung and top-hung windows, pivoting windows, skylights and other window types.

Technical Features

Electromechanical linear actuator with double-row 4-link articulated chain with internal collection in a fibreglass-reinforced polyamide casing.
Thrust and pull force = 250N.
Chain stroke adjustable by means of mechanical selector with lengths of 240/360 mm.
Equipped with load-dependent closing stroke cut-off function, connectable in parallel.
The Varia Slim Base actuator is available in two versions: one for 110/230Vac 50/60 Hz power supply and one for 24Vdc power supply.
The product is equipped with the “relax” function, consisting in release of the gears once the closing position has been reached, in order to reduce mechanical stress.
The pack contains the frame fixing brackets and two sash fixing brackets: one for bottom-hung casements and one for top-hung casements.

Materials

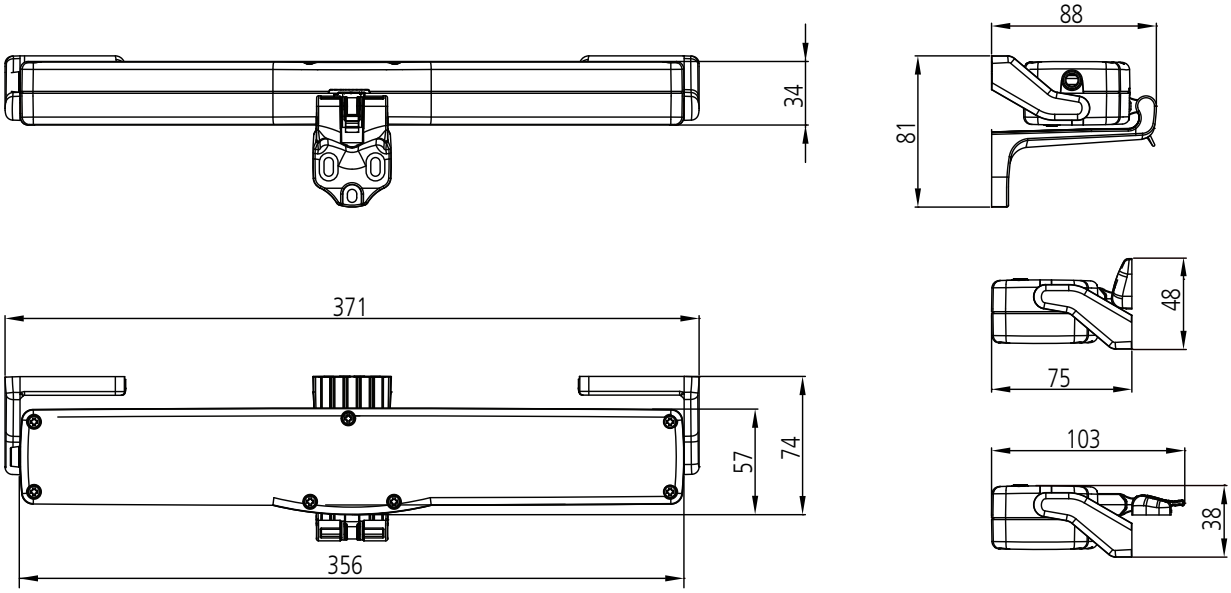
Outer guard in fibreglass-reinforced polyamide
Galvanized steel chain
Brackets in fibreglass-reinforced polyamide
Stainless steel fixing clips

Parts

One actuator
Pair of operator to frame fixing brackets
One fixing bracket (sash) for bottom-hung casements
One fixing bracket (sash) for top-hung casements
A drilling template for bottom-hung and top-hung applications
One quick-fit fixing clip (spring + pin)

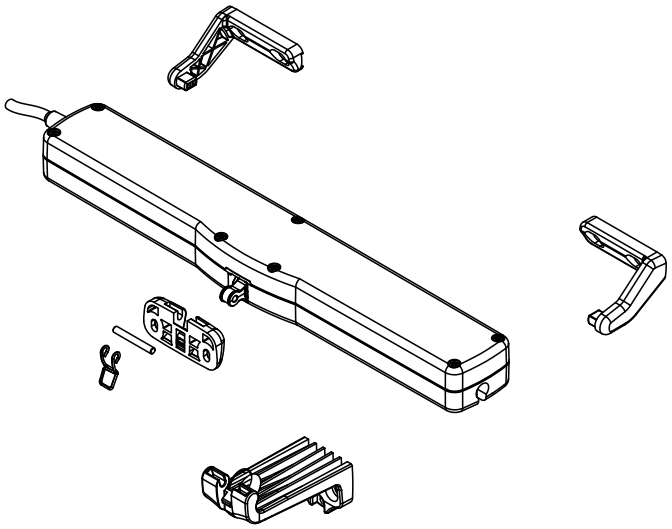
Finish

Black (590), White (560), Grey (542)



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07889 - 07890



Technical data

Model	VARIA SLIM BASE-230V	VARIA SLIM BASE-24V
Item code	07889	07890
Thrust and pull force	250N	250N
Stroke (mm)	240/360	240/360
Synchronization	NO	NO
Power supply voltage	110 ÷ 230V~ (AC) 50/60 Hz	24V= (DC)
Nominal load current input	0,180 A	0,800 A
Nominal load absorbed power	~ 30 W	~ 18 W
Idle travel speed	13,5 mm/s	12,8 mm/s
Maximum duration of idle stroke	18 s / 27 s	19 s / 28 s
Double electrical insulation	YES	Low Voltage
Service type	S2 3 minutes	S2 3 minutes
Operating temperature	-5 °C ÷ +65 °C	-5 °C ÷ +65 °C
Electrical devices protection rating	IP30	IP30
Soft Stop	NO	NO
Relax function	YES	YES
Casement connection adjustment	Position self-detection	Position self-detection
Connection in parallel	YES	YES
Power cable length	1 m	2 m
Opening stroke limit adjustment	Manual selector	Manual selector
Closing limit switch	Power absorption type	Power absorption type
Overload protection	Power absorption type	Power absorption type
Dimensions mm	356 x 57 x 34 mm	356 x 57 x 34 mm
Unit weight kg	0,84 Kg	0,82 Kg
Static holding force	1700N	1700N
Brackets supplied	Standard support brackets (frame) bottom-hung window bracket (sash) top-hung window vertical bracket (sash)	Standard support brackets (frame) bottom-hung window bracket (sash) top-hung window vertical bracket (sash)

Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07889	VARIA SLIM BASE 230 V		X				1
07890	VARIA SLIM BASE 24V		X				1

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SPARE PARTS AND SPECIAL HARDWARE FOR VARIA SLIM AND VARIA SLIM BASE ACTUATORS

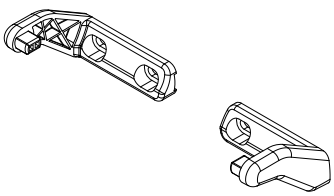
Functions

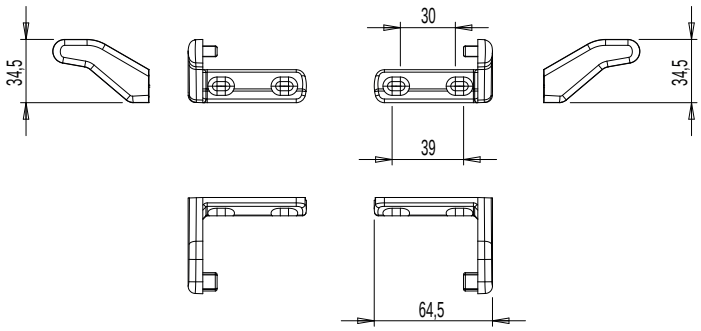
Replacement fixing brackets and additional brackets for special applications compatible with the chain actuators in the Varia Slim and Varia Slim Base range.

Materials

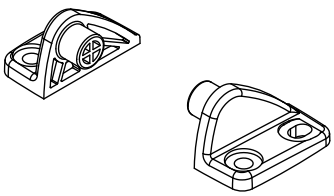
Sash and frame brackets in fibreglass-reinforced polyamide
Stainless steel quick-fit fixing clip

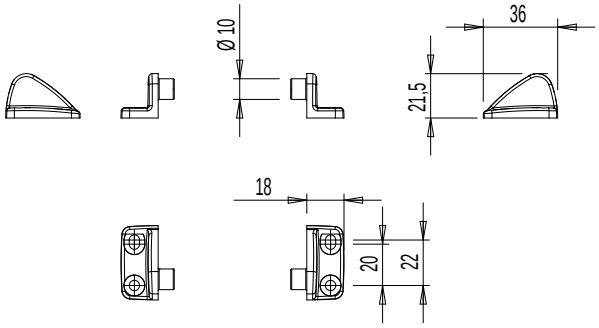
05904



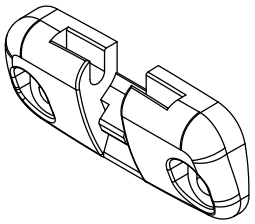


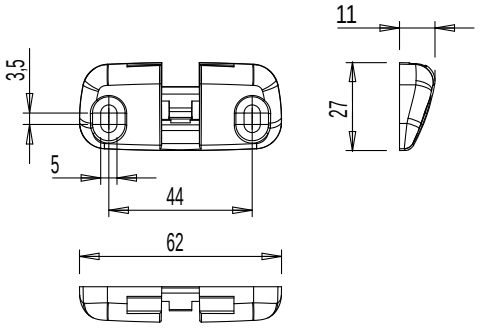
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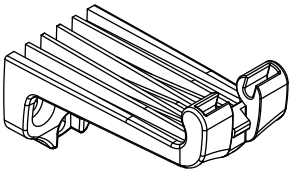
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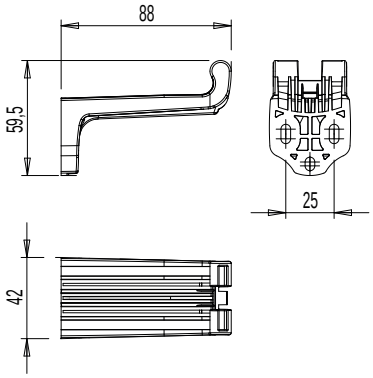




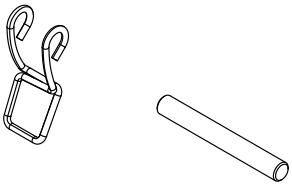
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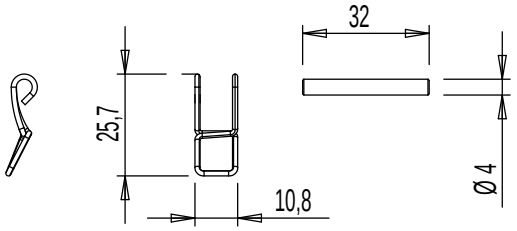
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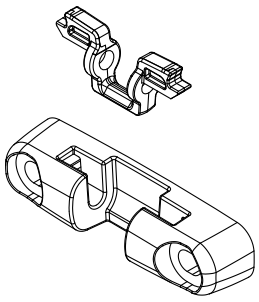


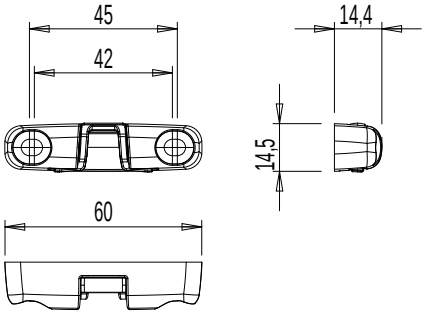
05908





05910





Item code	Description	Supplied with	Compatible with	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
05904	SUPPORT BRACKETS (FRAME)	Varia Slim Base, Varia Slim, Varia Slim Radio	Varia Slim Base, Varia Slim, Varia Slim Radio	X				10
05905	SUPPORT BRACKETS (FRAME) FOR VERTICAL FIXING	Varia Slim, Varia Slim Radio	Varia Slim, Varia Slim Radio	X				10
05906	FIXING BRACKET FOR TOP-HUNG WINDOW	Varia Slim Base, Varia Slim, Varia Slim Radio	Varia Slim Base, Varia Slim, Varia Slim Radio	X				10
05907	FIXING BRACKET FOR BOT-TOM-HUNG WINDOW	Varia Slim Base, Varia Slim, Varia Slim Radio	Varia Slim Base, Varia Slim, Varia Slim Radio	X				10
05908	QUICK-FIT FIXING CLIP	Varia Slim Base, Varia Slim, Varia Slim Radio, Varia Slim Plus	Varia Slim Base, Varia Slim, Varia Slim Radio, Varia Slim Plus	X				10
05910	FRONT FIXING BRACKET FOR TOP-HUNG WINDOW	Varia Slim Base, Varia Slim, Varia Slim Radio	Varia Slim Base, Varia Slim, Varia Slim Radio	X				10

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VARIA SLIM MULTI-LOCKING ACCESSORY KIT

Functions

Multi-locking kit which, when used in conjunction with a VARIA 24Vdc or VARIA UNI 230Vac actuator creates a multiple locking system for bottom-hung windows.

Technical Features

The main components of kit art. 01655 are: mechanism; pull pawl and a special bottom-hung window bracket.
When it is coupled to a Varia actuator (Varia 24Vdc art. 01495 or Varia UNI 230Vac art. 01654) the bracket transfers the movement from the operator chain to the rod, generating a one-way movement of the multi-lock.
The pack also contains a pawl and striker to create a locking point for Euro groove systems.
The angle drives and the other locking points are to be purchased separately.
Controlling the actuator in the opening direction, the multi-point kit first causes movement of the pin and levers inside the mechanism, with consequent movement of the rod and release of the fastening mechanisms so the window can be opened.
Controlling the actuator in the closing direction produces the opposite effect: the returning chain closes the sash and then continues its action to compress the pin and consequently secure the fastening mechanisms.
The Bottom-hung window multi-locking kit art. 01655 is directly applicable to Euro groove systems.
To apply the kit to R40 systems it must be combined with adapter art. 01664.

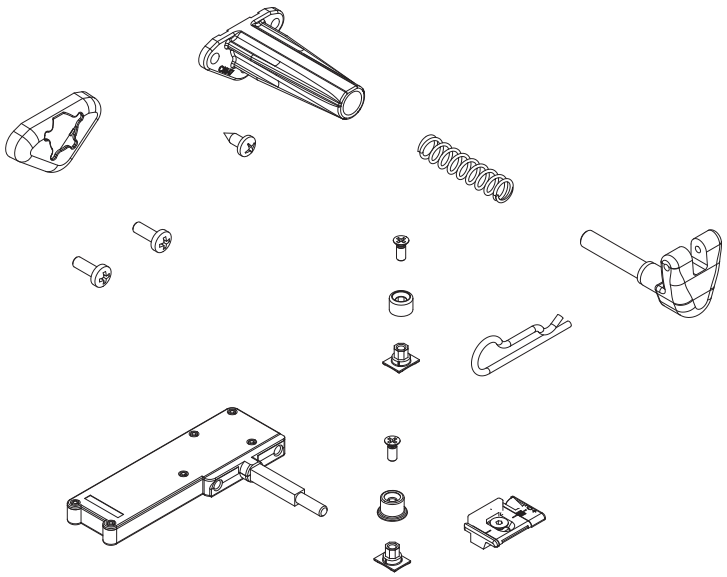
Materials

Mechanism in die-cast Zamak and polyamide
Polyamide cover
Steel drive lever
Steel thrust slider
Steel dowels
External part of the bottom-hung window bracket in polyamide
Connection device in steel and polyamide
Counter spring in harmonic steel
Pawl and striker in die-cast Zamak
Steel fixing pin
Galvanized steel bracket fixing screws

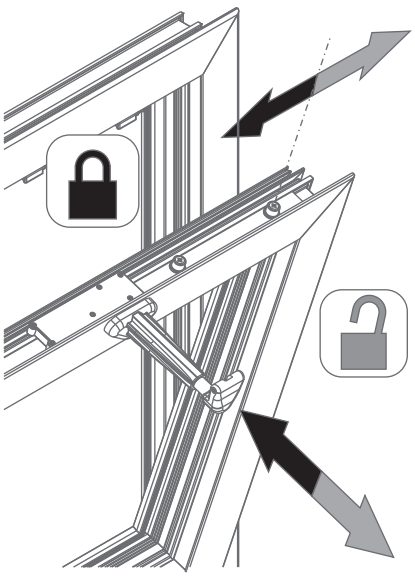
Parts

1 Internal mechanism
1 Telescopic bottom-hung window bracket
1 Fixed driving pawl
1 Fixed closing pawl (for Euro groove and R40 systems)
1 Adjustable closing striker (exclusively for Euro groove systems)
1 Pin for fixing chain to bottom-hung window bracket
2 Bottom-hung window bracket to internal mechanism fixing screws
1 Bottom-hung window bracket to profile fixing screw
1 Fixing screws guard

01648

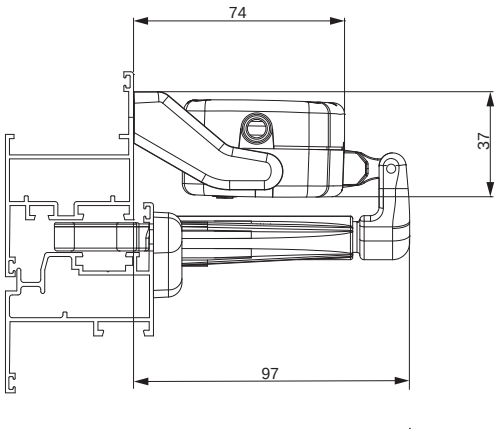


Operation of multi-locking device

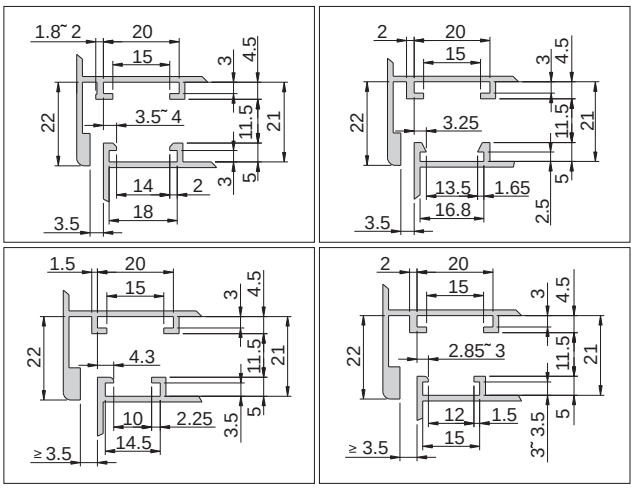


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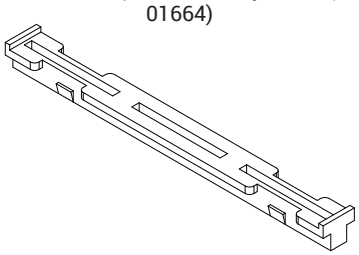
Application example of multi-locking kit with Varia chain actuator



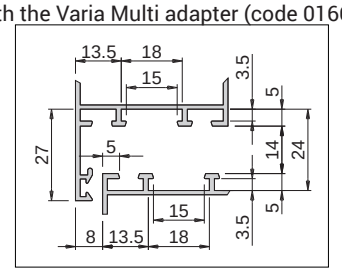
Euro groove systems compatible with art. 01648



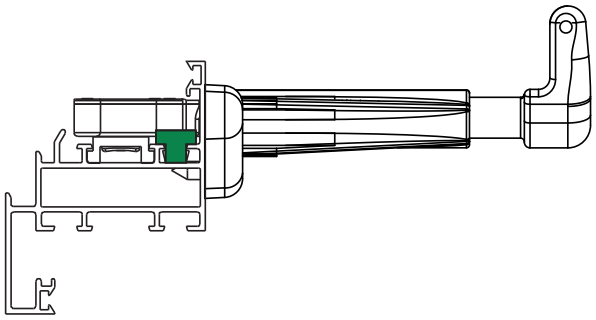
Varia Multi adapter for R40 systems (code 01664)

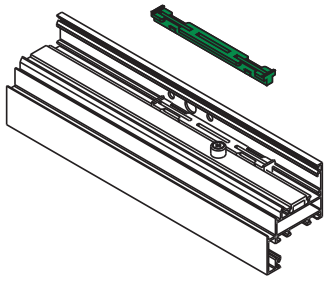


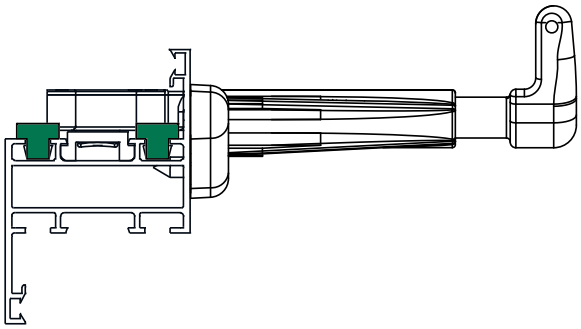
R40 system profile cross-section on which art. 01648 can be installed in conjunction with the Varia Multi adapter (code 01664)

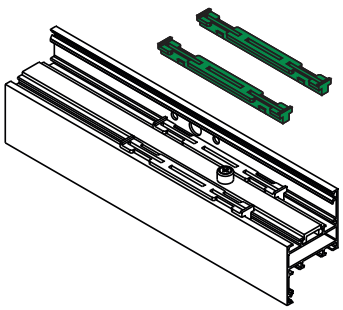


Application examples of the adapter for R40 systems (code 01664)









Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01648	VARIA SLIM MULTI-LOCKING ACCESSORY KIT		X				5

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VARIA SLIM SMALL

Functions

Linear electromechanical chain actuator for automation of bottom-hung and top-hung windows; thanks to its compact size this actuator can be easily recessed in the window.

Technical Features

Linear electrical actuator with 3-link chain contained in a suitable metal shell for handling of bottom-hung and top-hung windows.
Thanks to its compact dimensions Varia Slim Small can be concealed inside the casement.
The Varia Slim Small actuator operates with a 24Vdc power supply and it can be connected in parallel.
Thrust force and pull force of 200N.
The product is supplied complete with tilting frame fixing brackets and with a universal sash fixing bracket (fixing screws not supplied).
The chain can be adjusted by means of DIP switches to the following lengths: 70, 125, 170 and 210 mm.
The actuator is equipped with the “relax” function to ensure reduced stress on the gears and internal mechanical components because they are brought to the optimal position on completion of each closing cycle.
The product can be connected to the Slim Lock electric lock art. 07895.

Materials

Painted die-cast aluminium external guard
Galvanized steel chain
Brackets in Zamak

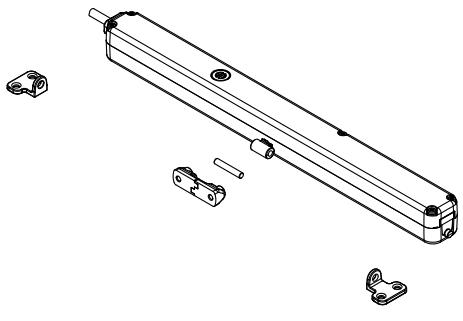
Parts

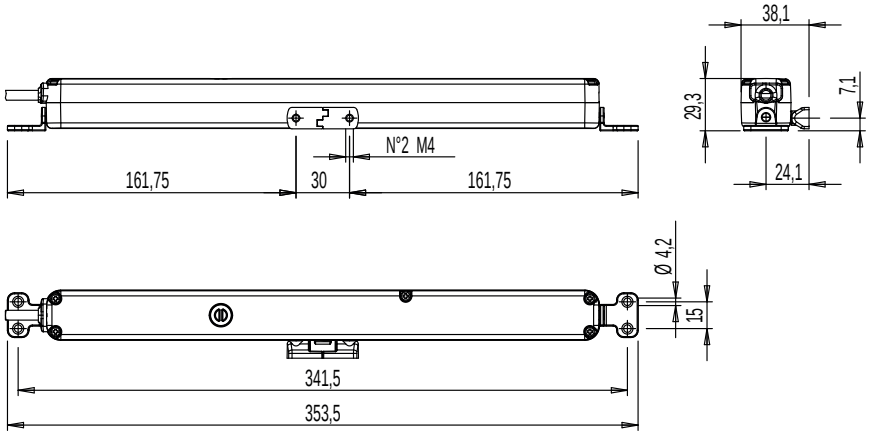
One actuator
Two operator to frame fixing brackets
One chain to sash fixing bracket (top-hung window)
One chain to sash bracket fixing pin

Finish

Grey (970) RAL 9006

07891





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Technical data

Model	VARIA SLIM SMALL-24V
Item code	07891
Pull force	200N
Thrust force	200N
Stroke (mm)	70 / 125 / 170 / 210
Synchronization	NO
Power supply voltage	24 V= (DC)
Nominal load current input	0,32 A
Nominal load absorbed power	7,5 W
Idle travel speed	6 mm/s
Maximum duration of idle stroke	27 s
Double electrical insulation	Low Voltage
Service type	S2 3 minutes
Operating temperature	-5°C ÷ +65°C
Electrical devices protection rating	IP32
Soft Stop	NO
Relax function	YES
Self-learning of window overlaps	Power absorption type
Connection in parallel	YES
Power cable length	2 m
Opening stroke limit selection	Electronics with DIP switch adjustment
Closing limit switch	Power absorption type
Overload protection	Power absorption type
Dimensions mm	28 x 28 x 310 mm
Unit weight kg	0,72 Kg
Static holding force	1000N
Brackets supplied	Standard support brackets

Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07891	VARIA SLIM SMALL 24V				X		1

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VARIA UNI 230 V AND VARIA 24 V

Functions

Electromechanical chain actuator for the automation of bottom-hung and top-hung windows, pivoting windows and skylights.

Technical Features

Electromechanical chain actuator with internal storage in a fibreglass-reinforced polyamide casing.
Thrust Force = 150N, Pull Force = 300N.
Suitable for bottom-hung and top-hung windows, stroke adjustable from 90 to 400 mm.
Equipped with limit switch.
With pull-out terminal board for practical and convenient wiring and an indicator light showing when the window is closed.
The mechanism chain is rust-proofed to resist the harshest application conditions.
Chain extension pins are available on request for wood and PVC windows (art. 04847 and art. 63993).
Varia actuators are available in a version for 230Vac 50/60 Hz power supply and a version for 24Vdc power supply and can be connected in parallel.
The fixing screws supplied are suitable for aluminium profiles.

Materials

External guard and terminal board access hatch in polyamide reinforced with fibreglass
Chain in steel with anti-rust surface treatment
Anodized extruded aluminium frame bracket
Bracket for top-hung window in Zamak
Bracket for bottom-hung window in fibreglass-reinforced polyamide
Chain to bracket fixing spring in harmonic steel
Both chain pin and chain fixing pin in galvanized steel
Polyamide locking insert
Chain stroke adjustment insert in acetyl resin
Guide cover insert in polyamide
Nickel-plated steel screws

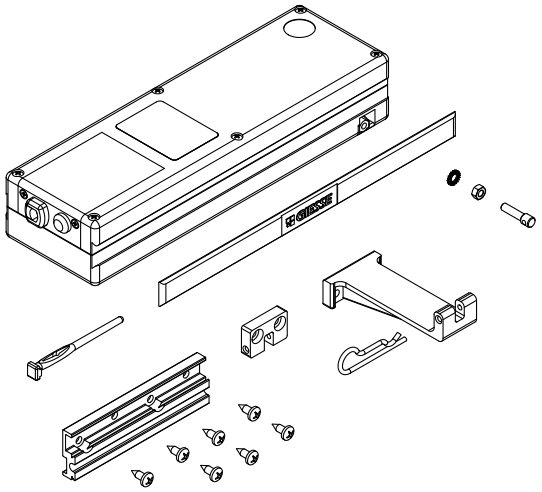
Parts

One actuator
One operator to frame fixing bracket
One chain to sash fixing bracket (top-hung window)
One chain to sash fixing bracket (bottom-hung window)
Fixing screws for sash and frame brackets
Drilling templates for bottom-hung and top-hung applications

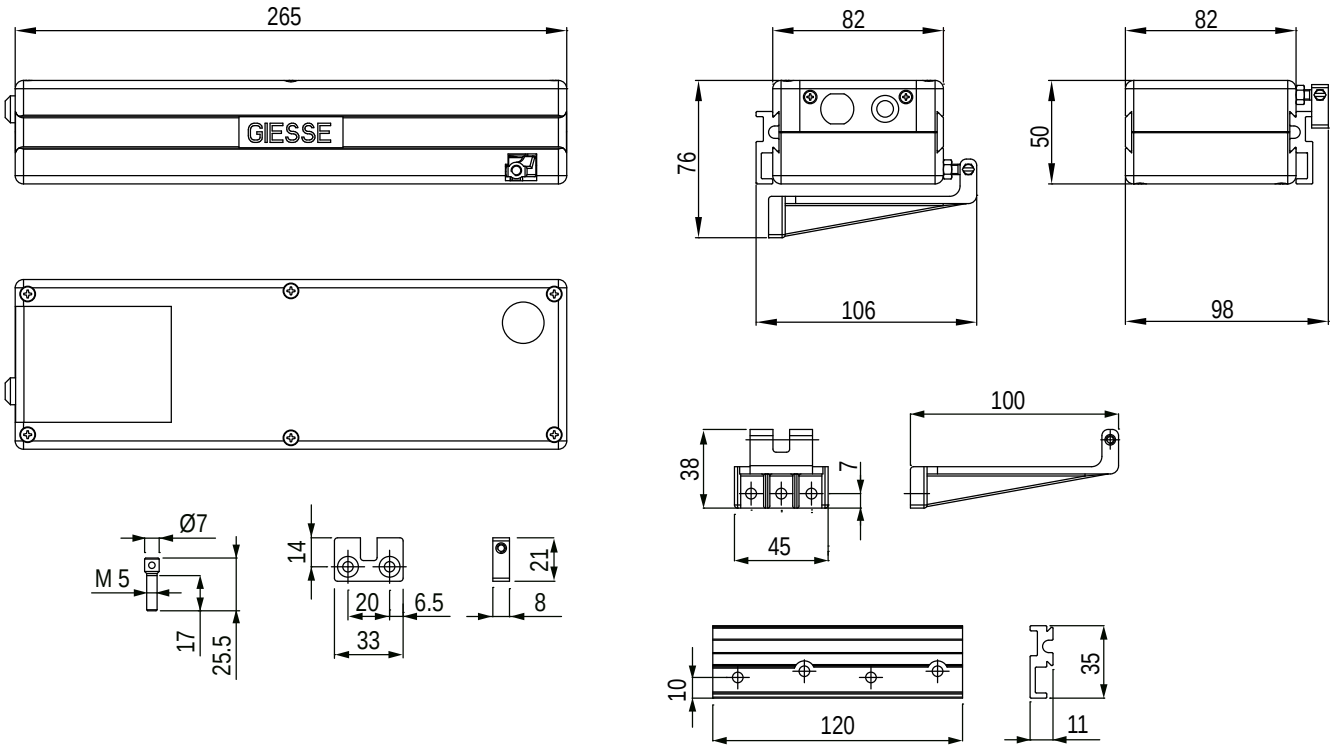
Finish

Black (010), White (560), Grey (544), Brown (593)

01495 - 01654



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Technical data

Model	VARIA UNI	VARIA 24 V
Item code	01654	01495
Power supply voltage	230Vac	24Vdc
Thrust force	150N	150N
Pull force	300N	300N
Stroke with adjustment in 12 mm intervals	from 90 to 400 mm	from 90 to 400 mm
Idle travel speed	40 mm/sec	40 mm/sec
Front adjustment	10 mm max	10 mm max
Connection in parallel	YES	YES
Consumption	170 W	40 W
Current absorption (full load)	0.8 A	1.8 A
Frequency	50/60 Hz	50/60 Hz
Overload temperature protection	120°C	120°C
Capacitor	4 µF	4 µF
Built-in relay	YES	YES
Stroke limit indicator light	YES	YES
Pull-out terminal board	YES	YES
Protection rating	IP 20	IP 20
Operating temperature	- 20°C / + 70°C	- 20°C / + 70°C

Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01495	VARIA 24V		X				1
01654	GIESSE VARIA 230V UNI		X				1

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QUICK-FIT FIXING BRACKETS KIT FOR VARIA ACTUATORS

Functions

Fixing brackets for VARIA actuators designed to allow easy and rapid installation without having to drill any fixing holes in the sash or the frame on Euro groove or R40 aluminium systems.

Technical Features

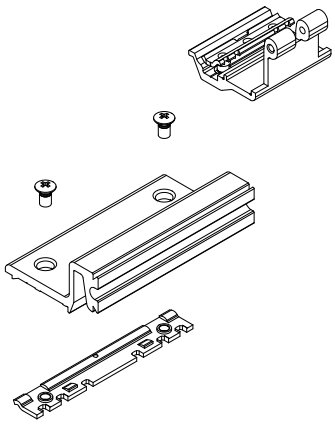
The quick-fit fixing brackets can be applied to Euro groove systems or R40 systems in order to install Varia 24Vdc and Varia UNI 230Vac actuators on bottom-hung or top-hung casements.
The brackets are mounted by means of counter-plates as in the case of a normal Giesse hinge.
There are no holes required on the profile, thus greatly reducing the product installation times.

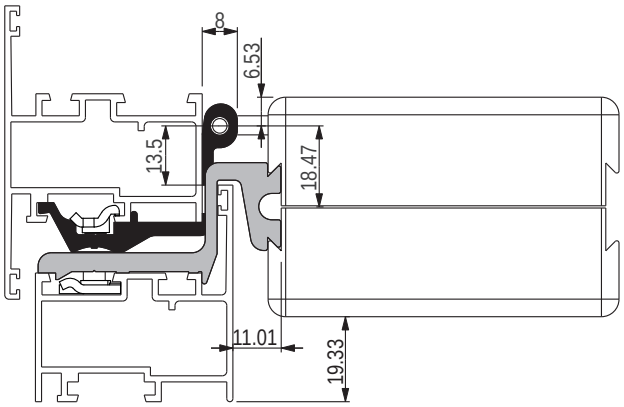
Materials

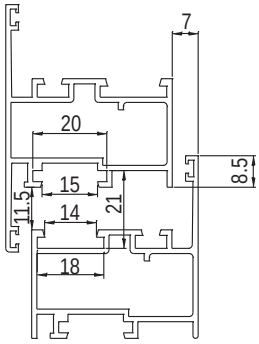
Actuator connection to the casement in extruded aluminium with black colour anodized finish
Chain support bracket: extruded aluminium with black colour anodized finish
Stainless steel counter-plates
Stainless steel fixing screws

Euro groove top-hung window kit

01563

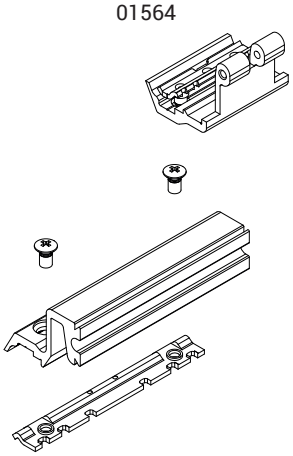


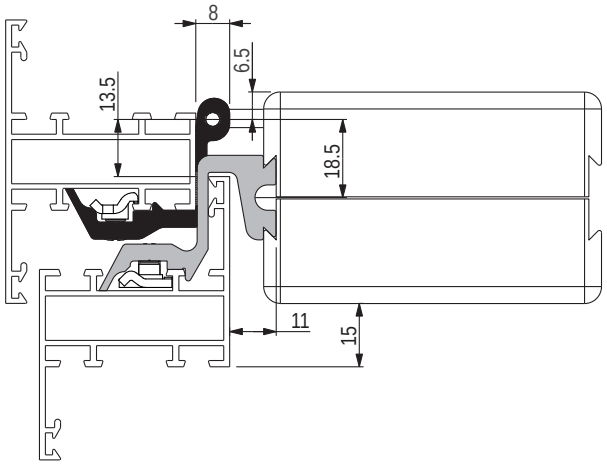


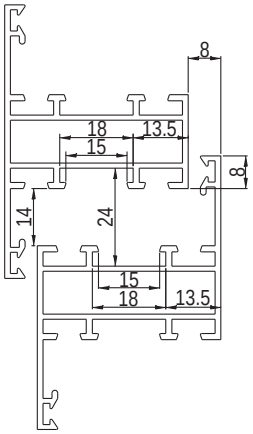


R40 - R50 - R50TT top-hung window kit

01564



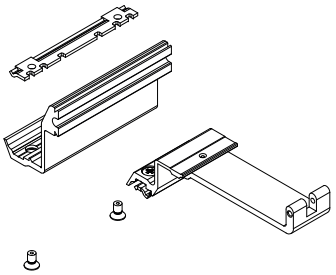


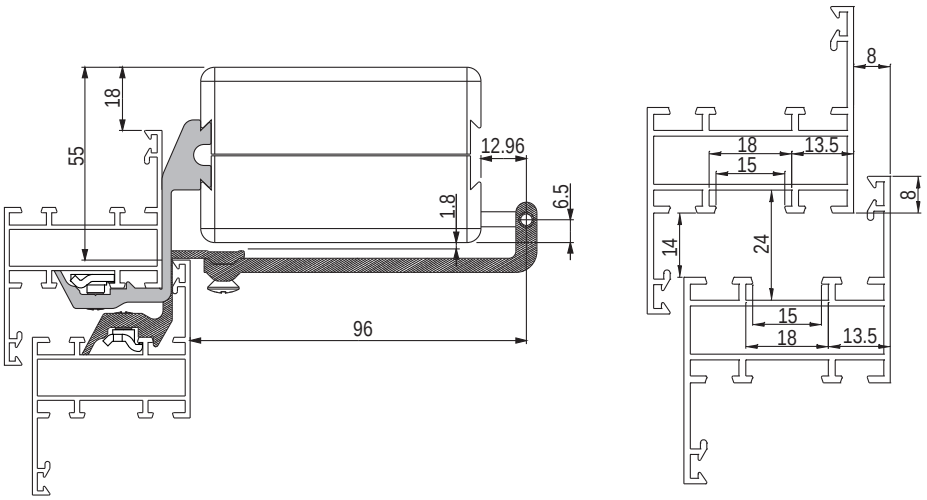


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04796

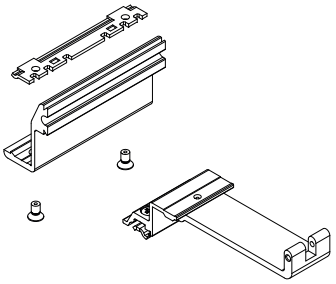
R40 - R50 - R50TT bottom-hung window kit

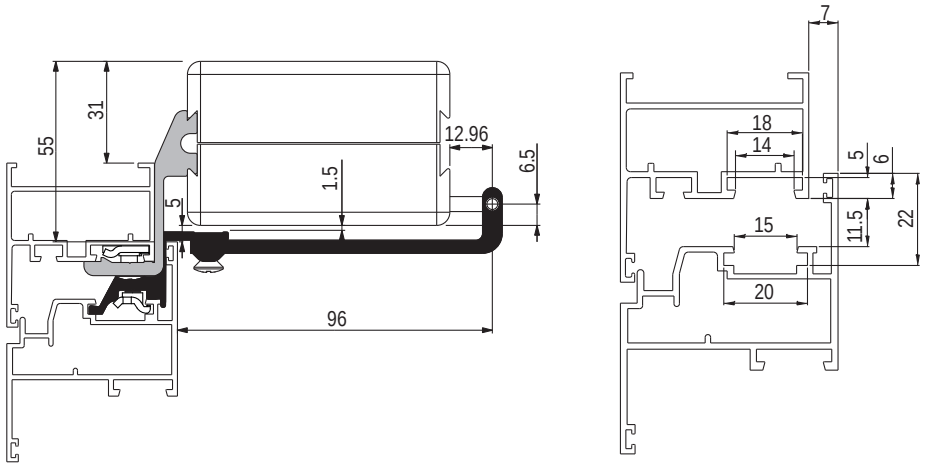




04797

Euro groove bottom-hung window kit





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04796	R40-R50-R50TT BOTTOM-HUNG WINDOW KIT			X			10
04797	EURO GROOVE AND CENTRAL GASKET BOTTOM-HUNG WINDOW KIT			X			10

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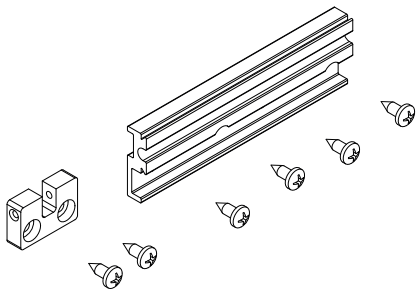
REPLACEMENT BRACKETS KIT FOR VARIA ACTUATORS

Functions
Front fixing brackets for automation of top-hung or bottom-hung casements.

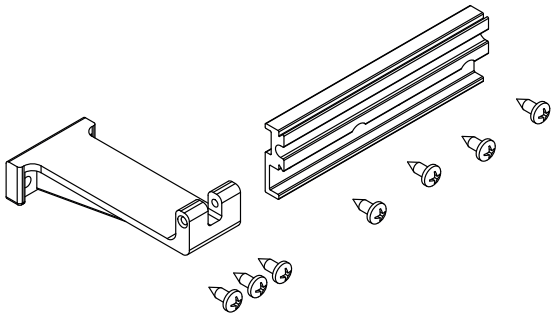
Technical Features
Kit containing the front fixing brackets and related fixing screws for automation of top-hung or bottom-hung casements.
These products are compatible with the VARIA 24Vdc art. 01495 and VARIA UNI 230Vac, art. 01654 chain actuators.
The kits are used as replacement parts since the frame and sash brackets are always supplied with VARIA actuators.
The fixing screws supplied are suitable for aluminium profiles.

Materials
Operator support bracket for frame connection in extruded aluminum with black colour anodized finish (all products)
Top-hung window bracket (sash) in Zamak (art. 04794).
Bottom-hung window bracket (sash) in black polyamide (art. 04795)
Galvanized steel screws (all products)

04794



04795



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04794	VARIA TOP-HUNG WINDOW KIT WITH SCREWS		X				10
04795	VARIA BOTTOM-HUNG WINDOW KIT WITH SCREWS		X				10

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MULTI-POINT KIT FOR BOTTOM-HUNG WINDOW AUTOMATION

Functions

Multi-locking kit which, when used in conjunction with a VARIA 24Vdc or VARIA UNI 230Vac actuator creates a multiple locking system for bottom-hung windows.

Technical Features

The main components of kit art. 01655 are: mechanism; pull pawl and a special bottom-hung window bracket.
When it is coupled to a Varia actuator (Varia 24Vdc art. 01495 or Varia UNI 230Vac art. 01654) the bracket transfers the movement from the operator chain to the rod, generating a one-way movement of the multi-lock.
The pack also contains a pawl and striker to create a locking point for Euro groove systems.
The angle drives and the other locking points are to be purchased separately.
Controlling the actuator in the opening direction, the multi-point kit first causes movement of the pin and levers inside the mechanism, with consequent movement of the rod and release of the fastening mechanisms so the window can be opened.
Controlling the actuator in the closing direction produces the opposite effect: the returning chain closes the sash and then continues its action to compress the pin and consequently secure the fastening mechanisms.
The Bottom-hung window multi-locking kit art. 01655 is directly applicable to Euro groove systems.
To apply the kit to R40 systems it must be combined with adapter art. 01664.

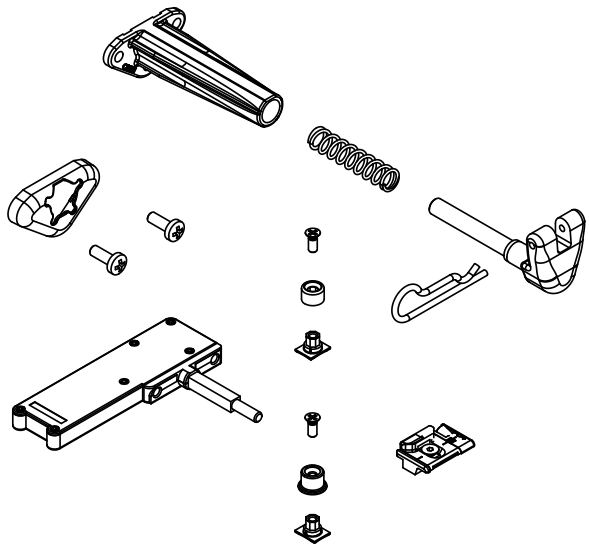
Materials

Mechanism in die-cast Zamak and polyamide
Polyamide cover
Steel drive lever
Steel thrust slider
Steel dowels
External part of the bottom-hung window bracket in polyamide
Connection device in steel and polyamide
Counter spring in harmonic steel
Pawl and striker in die-cast Zamak
Steel fixing pin
Galvanized steel bracket fixing screws

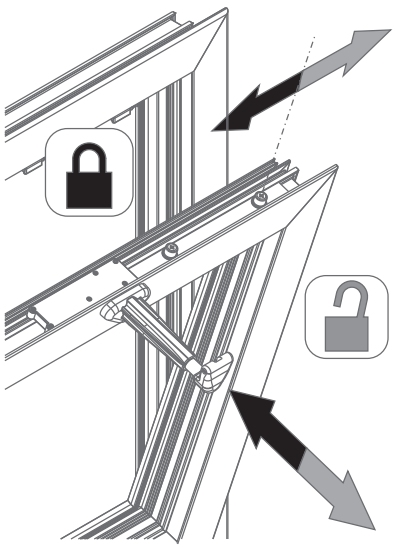
Parts

1 Internal mechanism
1 Telescopic bottom-hung window bracket
1 Fixed driving pawl
1 Fixed closing pawl (for Euro groove and R40 systems)
1 Adjustable closing striker (exclusively for Euro groove systems)
1 Pin for fixing chain to bottom-hung window bracket
2 Bottom-hung window bracket to internal mechanism fixing screws
1 Bottom-hung window bracket to profile fixing screw
1 Fixing screws guard

01655

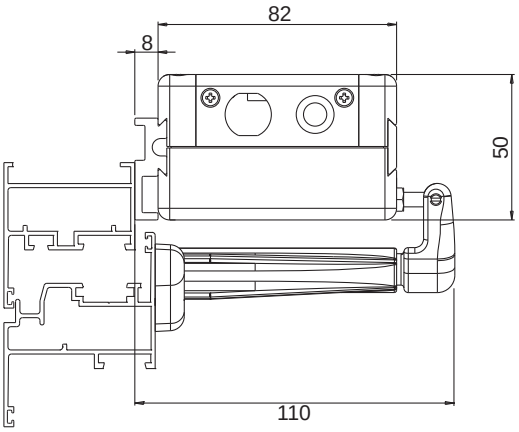


Operation of multi-locking device

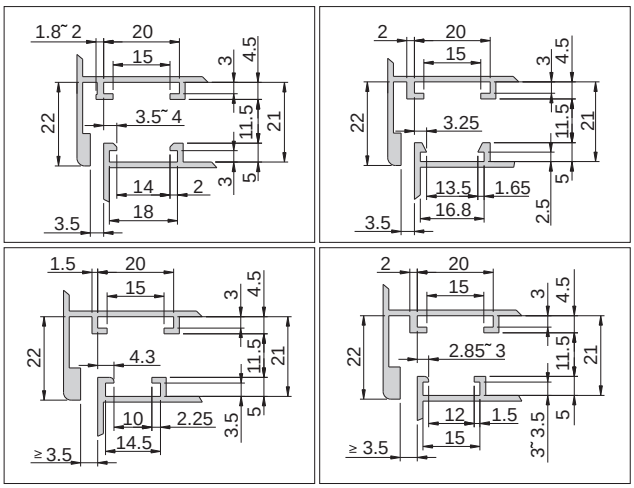


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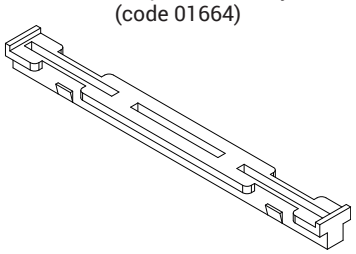
Application example of multi-locking kit with Varia chain actuator



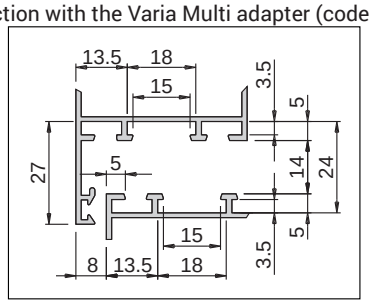
Euro groove systems compatible with art. 01655



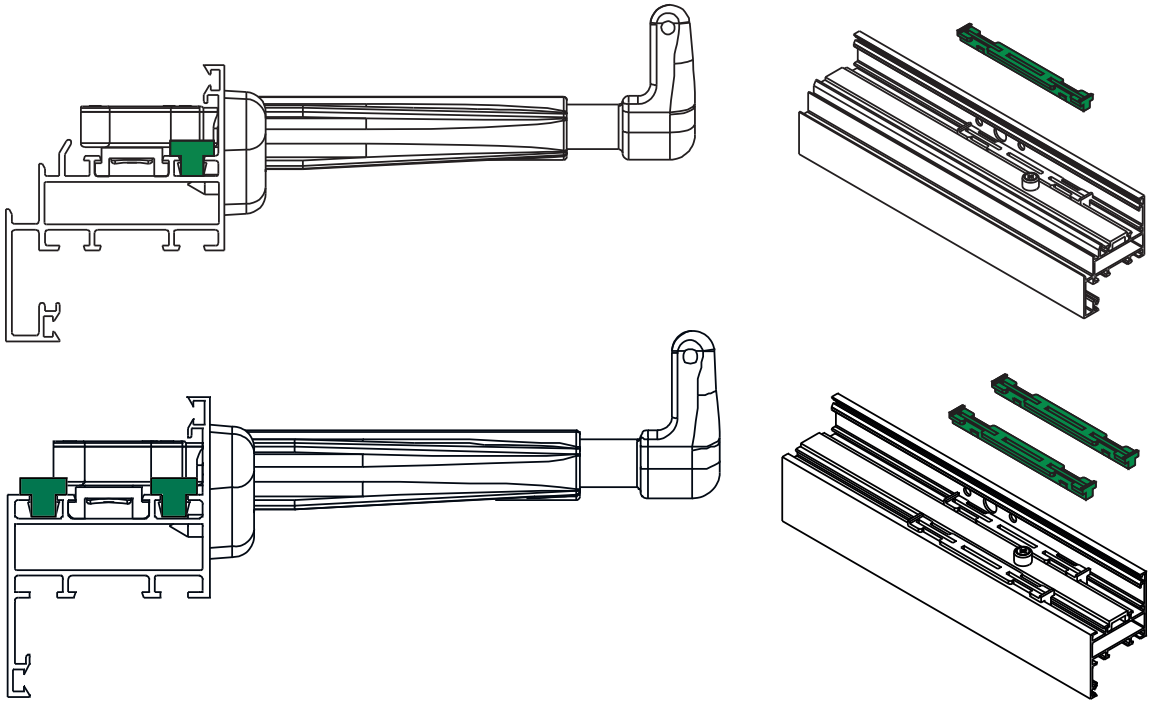
Varia Multi adapter for R40 systems (code 01664)



R40 system profile cross-section on which art. 01655 can be installed in conjunction with the Varia Multi adapter (code 01664)



Application examples of the adapter for R40 systems (code 01664)



Item code	Description	Can be combined with	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01655	Bottom-hung window multi-locking kit for Varia actuators	Varia 24 V art. 01495 Varia Uni 230 V art. 01654	X				5
01664	Adapter for R40 systems	-	X				1

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CHAIN EXTENSION PINS

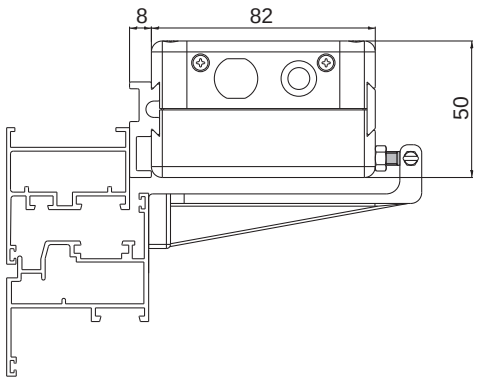


Functions
Pins to extend the chain of the VARIA 24Vdc, VARIA UNI 230Vac and VARIA LUX actuators.

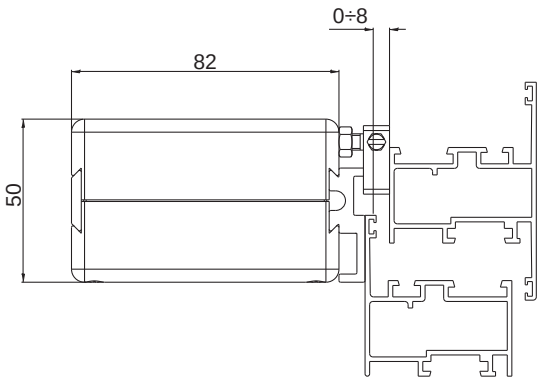
Technical Features
Eye bolts for fixing of top-hung and bottom-hung windows.
The eye bolts allow connection between the casement connection and the actuator chain also in the case of steps of between 13 and 33 mm.
The eye bolts are compatible with the following actuators:
• Varia 24Vdc (art. 01495)
• Varia UNI 230Vac (art. 01654)
• Varia LUX 230Vac (art 01618)

Materials
Galvanized steel eye bolts

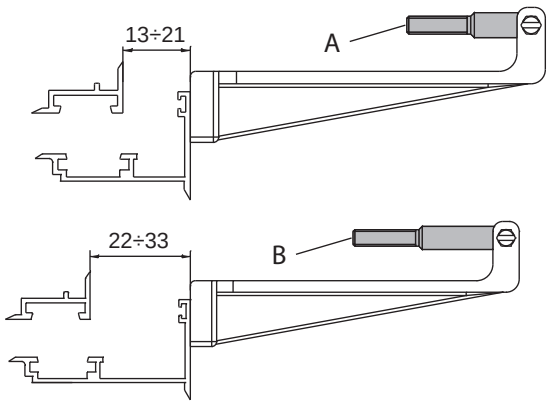
Standard bottom-hung window application



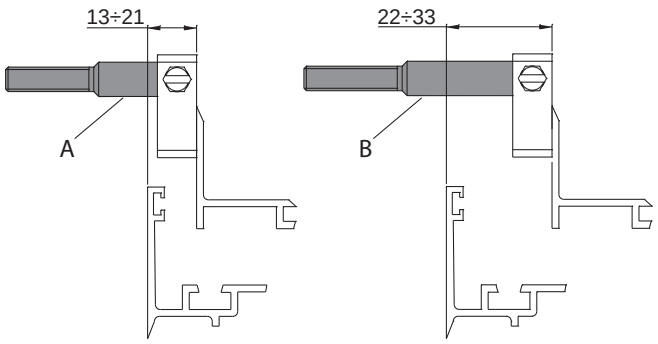
Standard top-hung window application



Bottom-hung window application with chain extension pins
(A= 04847; B= 63993)



Top-hung window application with chain extension pins
(A= 04847; B= 63993)



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04847	CHAIN EXT. PINS ZNB	mm 40	X				10
63993	CHAIN EXT. PINS ZNB	mm 50	X				10

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VARIA UNI CHAIN ADJUSTMENT PUSHBUTTON

Functions

Kit for operating test and adjustment of length of chain payout on work bench of the VARIA UNI 230Vac actuator art. 01654.

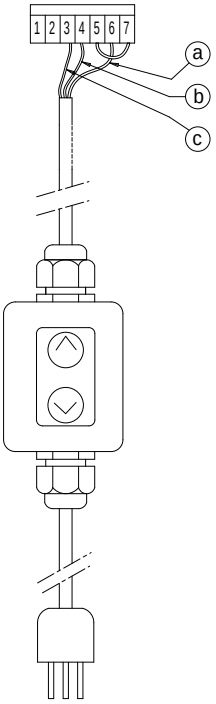
Technical Features

The kit is composed of an N.O. double pushbutton with interlock (“deadman function” type), 10A with vertical UP - DOWN arrows, housed in a plastic container, wired with a power plug and cable with terminal board having 7 numbered poles for connection to the VARIA UNI actuator art. 01654.
With the assistance of this kit, the table given in the VARIA UNI actuator fitting instructions can be used to perform fine adjustment of the chain payout on the work bench.

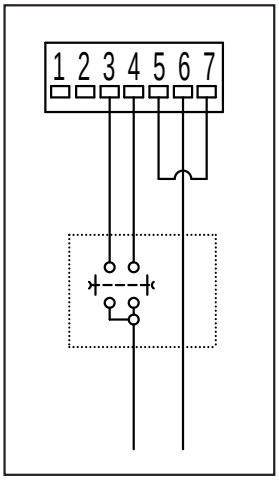
Materials

Button and container in plastic material
Cable clamp and ring nut in polyamide
Power cable with PVC insulation

a = Common (blue)
b = Open (black)
c = Close (brown)



Wiring diagram



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0479301	VARIA UNI DOUBLE PUSHBUTTON WITH INTERLOCK		X				1

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LC FIRE

Functions

Electric rack actuator for automation of top-hung windows, top-hung shed skylight windows, skylights, domes, jalousie windows, brise soleil.
Giesse LC Fire is the optimal solution for smoke and heat extraction systems (RWA).

Technical Features

Electric actuator with linear rack drive and electronic stroke limiter, protection rating IP 65, with facility for parallel connection and anti-interference filter on the electric operator.
Giesse LC FIRE is equipped with the Anti Reverse System (ARS), an anti-closing safety system in compliance with the most stringent European regulations.
In addition to being equipped with a non-reversible gearmotor, LC FIRE also ensures maintenance of the "fully open" position thanks to the ARS safety system, which acts directly on the reduction unit gears, mechanically preventing movement in the closing direction.
The ARS system operates only on reaching a temperature of around 200°C; otherwise the normal ventilation function is guaranteed.
The system can be adapted and adjusted in accordance with all types of casements thanks to the lateral guides fashioned in the rack tube profile.
LC FIRE is available in various lengths/strokes.
The thrust force for lengths 170/230/350/550 mm is 800N, while for lengths 750 and 1000 mm it is 650 N.
Since this product is designed for smoke and heat extraction systems the power supply is 24Vdc.
These products can be connected in parallel.
2 thrust points can be obtained by connecting the LC FIRE actuator to the FIRE DUO SYSTEM drive unit.
Refer to the datasheet concerning this group of products for additional technical data and for details of the products to be ordered.
The idle travel speed of LC FIRE is 8 mm/sec.
Connection to the mains supply is the same as that required for the LC 24Vdc rack actuators.

Materials

Bottom container and front cover in aluminium
Top container and rear cover in fibreglass-reinforced polyamide
EPDM seal
Tube, casement connection and fixing bracket in anodized aluminium
Galvanized steel rack
Cable clamp PG11 in polyamide
Power cable with silicone insulation
Stainless steel eye bolt
Steel screws and bolts

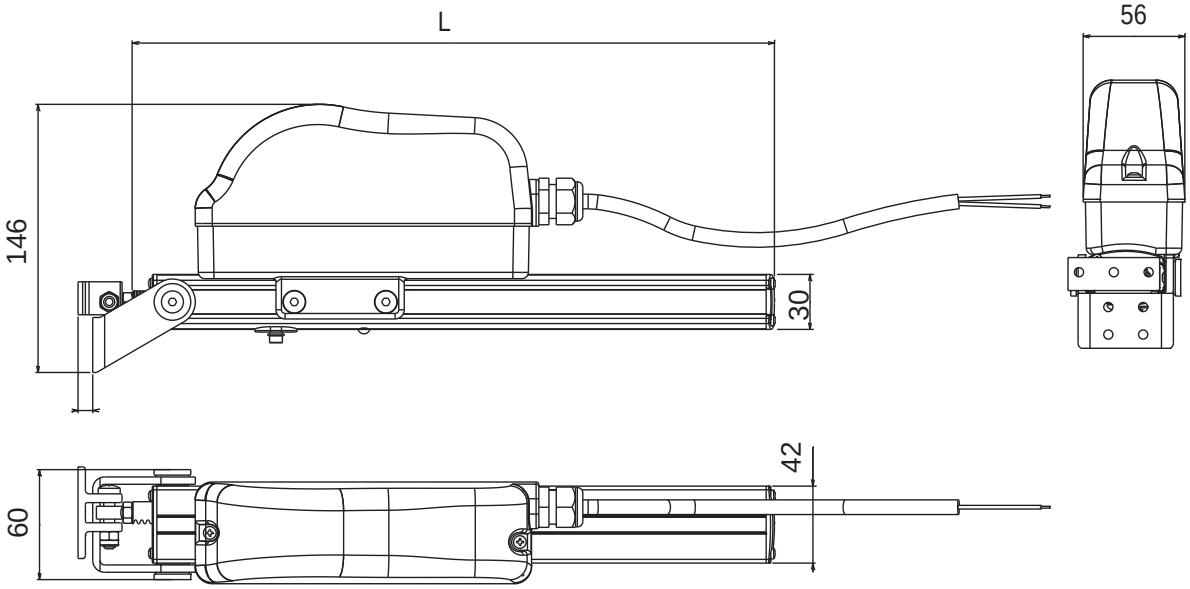
Parts

LC FIRE rack actuator
Sash bracket and frame bracket
Drilling template

Finish

Anodized silver (020)

L = Stroke + 180 mm

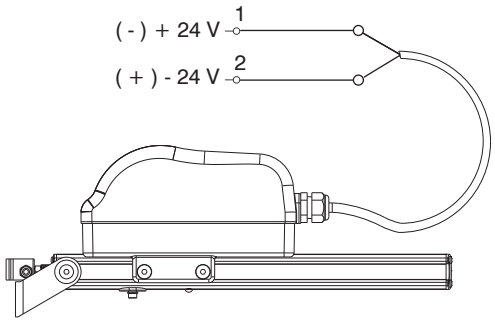


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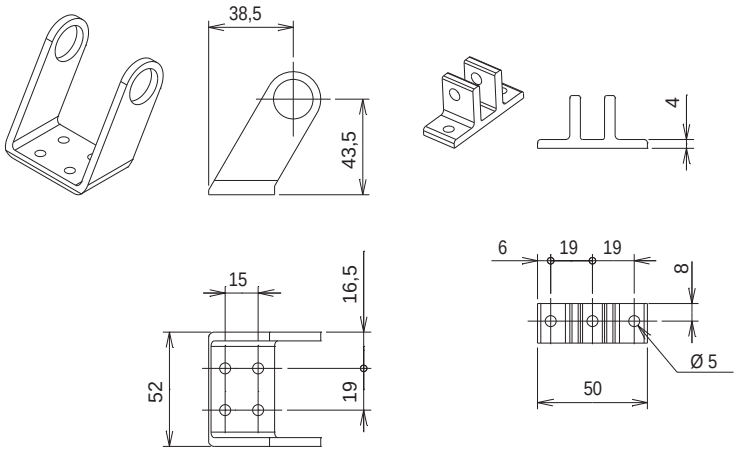
Technical data

Model	LC FIRE	Drive unit (for connection with Duo)
Voltage	24Vdc ± 15%	-
Stroke 170 mm	01527020	01584020
Stroke 230 mm	01528020	01585020
Stroke 350 mm	01529020	01586020
Stroke 550 mm	01530020	01587020
Stroke 650 mm	-	-
Stroke 750 mm	01531020	01588020
Stroke 850 mm	-	-
Stroke 1000 mm	01532020	01589020
Thrust and pull force	800N (for strokes 170/230/350/550) 650N (for strokes 750-1000)	-
Connection in parallel	YES	-
Idle travel speed	8 mm/sec	-
Travel speed at full load	6,5 mm/sec	-
Current absorption at full load	0,9 A	-
Consumption	22 W	-
Stroke limit	Electronic	-
Operating cycle	50%	-
Anti-reversal system	YES	-
Protection rating	IP 65	-
Operating temperature	- 20°C / + 70°C	-

Cable 1 = light blue (+ open, - close)
Cable 2 = brown



Fixing brackets supplied



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01527	GIESSE LC FIRE 17 24V			X			1
01528	GIESSE LC FIRE 23 24V			X			1
01529	GIESSE LC FIRE 35 24V			X			1
01530	GIESSE LC FIRE 55 24V			X			1
01531	GIESSE LC FIRE 75 24V			X			1
01532	GIESSE LC FIRE 100 24V			X			1

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LC

Functions

Electric rack actuator for automation of top-hung windows, top-hung shed skylight windows, skylights, domes, jalousie windows, brise soleil.

Technical Features

Electric actuator with linear rack drive and electronic stroke limiter, protection rating IP 65, with facility for parallel connection and anti-interference filter on the electric operator.
Actuators available in version for 24Vdc or 230Vac power supply and with parallel connection facility.
LC is available in various lengths/strokes (refer to the table).
The thrust force for lengths 170/230/350/550 mm is 800N, while for lengths 650, 750 and 1000 mm it is 650N.
The idle travel speed of “LC” is 8 mm/sec.
2 or 3 thrust points can be obtained by connecting the LC actuator to the “DUO/TRY” drive unit.

Materials

Bottom and top container and front and rear covers in fibreglass-reinforced polyamide
EPDM seal
Anodized aluminium tube
Rack and threaded fasteners in galvanized steel or stainless steel
Cable clamp PG11 in polyamide
Power cable: rubber insulation for 230Vac version; PVC insulation for 24Vdc version
Stainless steel eye bolt
Casement connection and fixing bracket in anodized aluminium

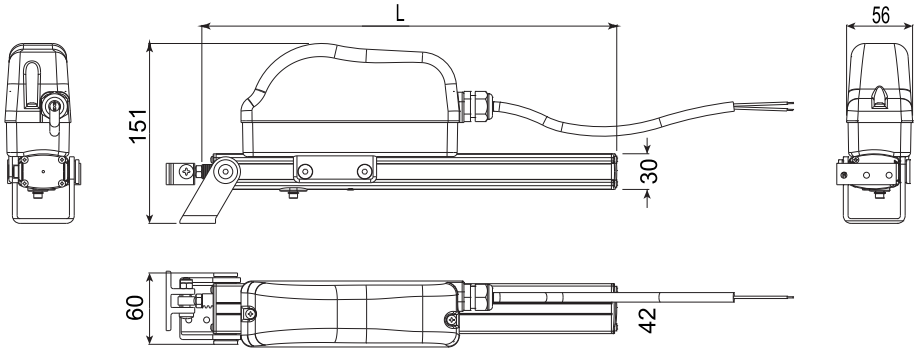
Parts

One LC rack actuator
Sash bracket and frame bracket
Drilling template

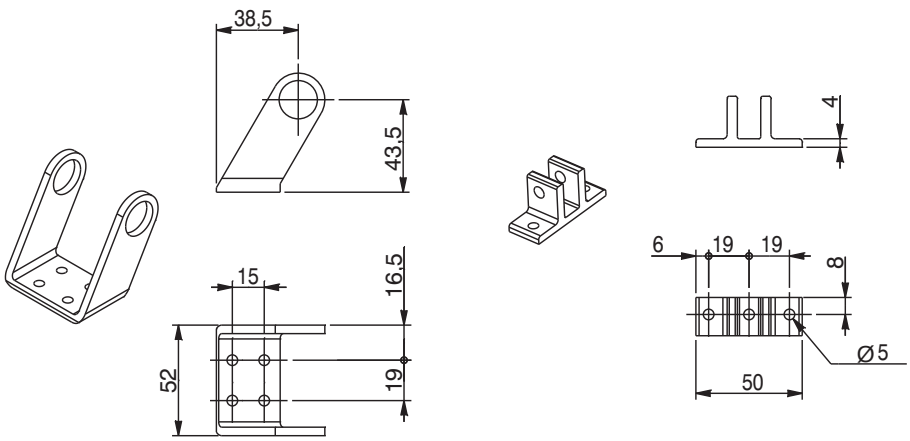
Finish

Anodized silver (020)

L= Stroke + 180 mm



Fixing brackets supplied

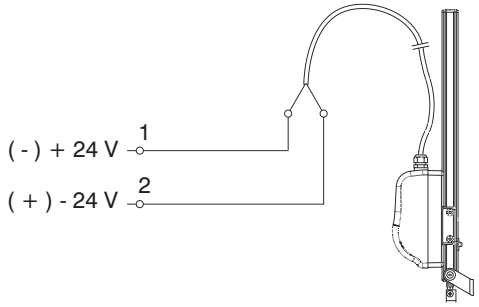


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LC technical data

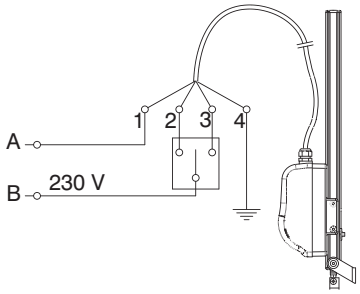
Model	LC 24V	LC 230V	Drive unit (for connection with duo/try)
Voltage	24V DC ± 15%	230V AC ± 5% 50/60 Hz	-
Stroke 170 mm	01672020	01673020	01919020
Stroke 230 mm	01674020	01657020	01920020
Stroke 350 mm	01676020	01677020	01921020
Stroke 550 mm	01678020	01679020	01922020
Stroke 650 mm	01657020	-	-
Stroke 750 mm	01680020	01681020	01923020
Stroke 850 mm	01658020	-	-
Stroke 1000 mm	01682020	01683020	01924020
Thrust and pull force	800N (for strokes 170-230-350-550) 650N (for strokes 750-1000)	800N (for strokes 170-230-350-550) 650N (for strokes 750-1000)	-
Connection in parallel	YES	YES	-
Idle travel speed	8 mm/sec	8 mm/sec	-
Travel speed at full load	6,5 mm/sec	6,5 mm/sec	-
Current absorption at full load	0,9 A	0,09 A	-
Consumption	22 W	21 W	-
Stroke limit	Electronic	Electronic	-
Operating cycle	50%	5 min	-
Anti-reversal system	NO	NO	-
Protection rating	IP 65	IP 65	-
Operating temperature	- 20°C / + 70°C	- 20°C / + 70°C	-

LC 24V electrical connection



Cable 1= Light blue (+ open, - close)
Cable 2 = Brown

LC 230V electrical connection



A= Neutral
B= Live
Cable 1= Blue - common
Cable 2= Brown - close
Cable 3= Black - open
Cable 4= Yellow/Green - earth

Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01672	GIESSE LC 17 24V			X			1
01674	GIESSE LC 23 24V			X			1
01676	GIESSE LC 35 24V			X			1
01678	GIESSE LC 55 24V			X			1
01657	GIESSE LC 65 24V			X			1
01680	GIESSE LC 75 24V			X			1
01658	GIESSE LC 85 24V			X			1
01682	GIESSE LC 100 24V			X			1
01673	GIESSE LC 17 230V			X			1
01675	GIESSE LC 23 230V			X			1
01677	GIESSE LC 35 230V			X			1
01679	GIESSE LC 55 230V			X			1
01681	GIESSE LC 75 230V			X			1
01683	GIESSE LC 100 230V			X			1

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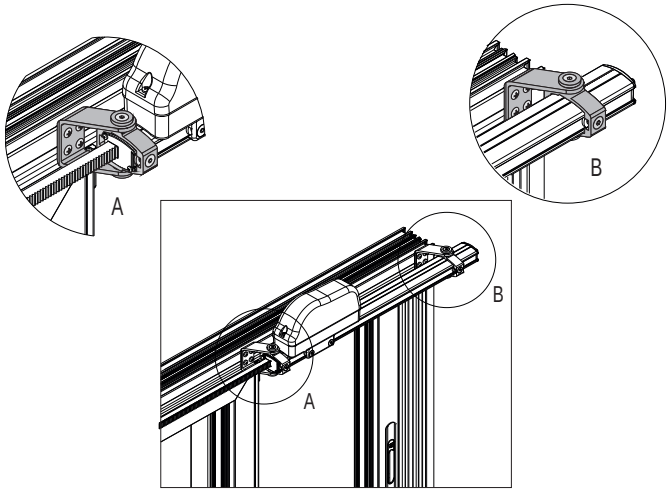
BRACKET FOR SLIDING OPENINGS

Functions
Bracket to mount the LC Speed actuator to aluminium sliding windows.

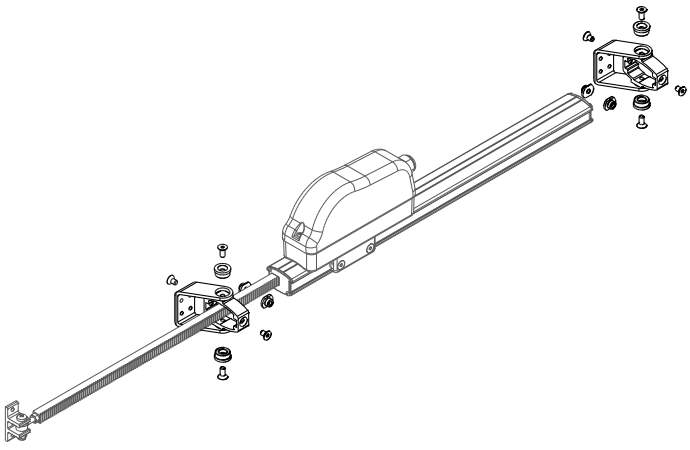
Technical Features
This product is used to secure the LC Speed rack actuator to a sliding casement in aluminium and it must be combined with the bracket supplied with the actuator.

Materials
Bracket and adapters in anodized silver extruded aluminium
Zinc plated steel screws
Sintered inserts and locking rings

Application



Brackets fixing



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01660	LC FIXING BRACKET FOR SLIDING VERSION		X				1

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DUO FIRE DRIVE UNIT



Functions

The DUO FIRE Drive Unit is combined with the LC FIRE electric rack actuator for the automation of top-hung windows, skylights, and large size domes and it constitutes a valid solution for applications that require 2 thrust points.

Technical Features

The DUO FIRE Drive Unit is an optimal solution for smoke and heat extraction systems (RWA) requiring 2 thrust points.
The following must be purchased to create the second thrust point: one DUO FIRE drive unit and one drive tube (A).
The DUO FIRE drive unit is available in 6 lengths (mm): 170, 230, 350, 550, 750 and 1000.
The length of the drive unit must be identical to the length of the LC FIRE rack actuator.
Movement of the drive unit thrust point occurs via a drive tube (A) made of anodized aluminium and available in various lengths.
Drive tube (A) creates a physical and mechanical connection between the actuator and the drive unit.
The drive tube must be selected on the basis of the distance to be obtained between the primary thrust point of the actuator and the thrust point of the drive unit.
The DUO FIRE drive unit is composed of: drive unit, bracket adapter, actuator bracket, casement connection, transmission joint.

Materials

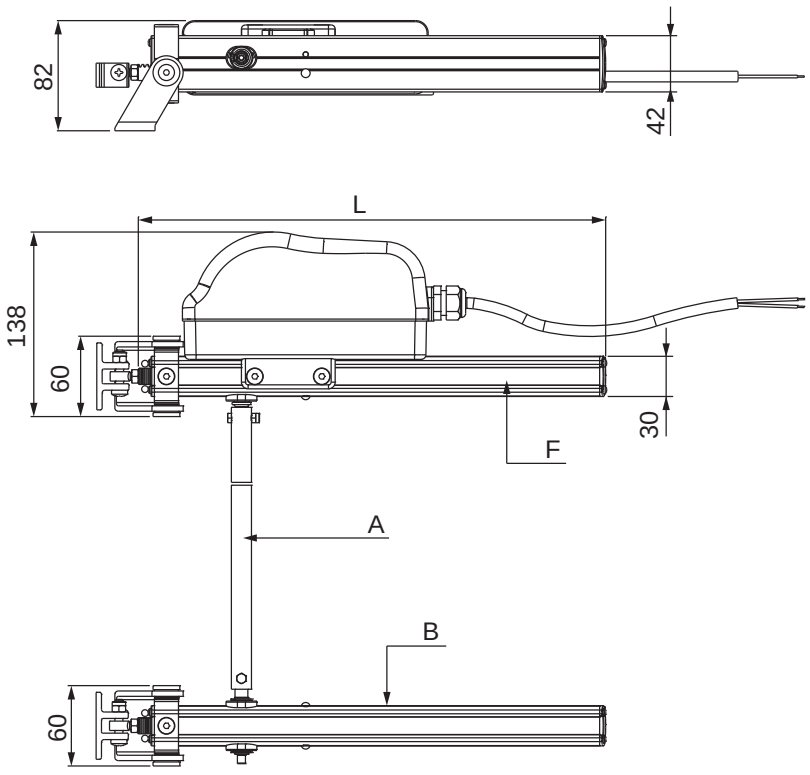
Anodized aluminium actuator tube
Galvanized steel rack
Stainless steel eye bolt
Anodized aluminium casement connection
Anodized aluminium bracket adapter
Anodized aluminium fixing bracket
Steel transmission joint
Steel screws and bolts

Parts

DUO FIRE drive unit
Sash and frame fixing bracket
Drilling template

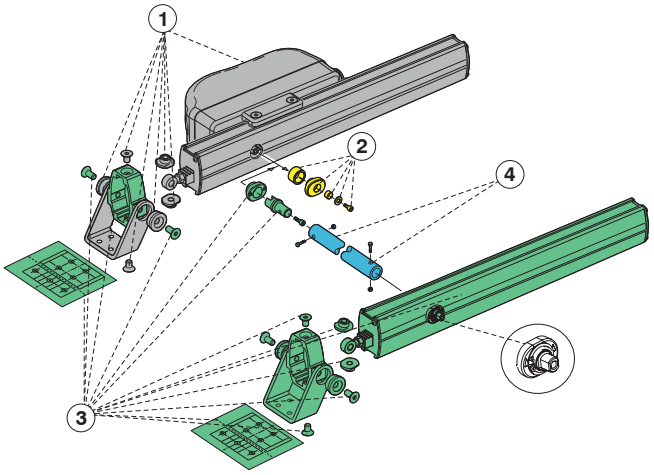
Finish

Anodized silver (020)



L= Stroke + 180 mm
A= Drive tube
B= DUO FIRE drive unit
F= LC FIRE

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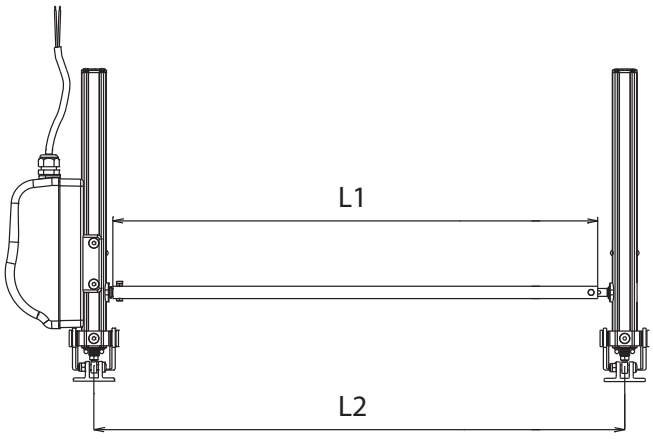
1. LC SPEED actuator
2. Components to eliminate for the DUO version
3. DUO FIRE drive unit components
4. Drive tube

Technical data

Rack actuator stroke (mm)	LC FIRE rack actuator	DUO FIRE drive unit
170	01527	01584
230	01528	01585
350	01529	01586
550	01530	01587
750	01531	01588
1000	01532	01589

Technical data: Drive tubes

Drive tubes	L1 - Tube length (mm)	L2 - Distance between thrust points (mm)
6693500000117	844	900
6693500000118	1244	1300
6693500000119	1544	1600
6693500000120	1844	1900
6693500000121	1944	2000



L1 Tube length
L2 Distance between thrust points

Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01585	DUO 23 FIRE DRIVE UNIT			X			1
01586	DUO 35 FIRE DRIVE UNIT			X			1
01587	DUO 55 FIRE DRIVE UNIT			X			1
01588	DUO 75 FIRE DRIVE UNIT			X			1
01589	DUO 100 FIRE DRIVE UNIT			X			1

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DUO/TRY AND DUO/TRY INOX DRIVE UNIT

Functions

The DUO/TRY drive unit is compatible with the LC rack actuator while the DUO/TRY INOX drive is compatible with the LC INOX rack actuator.
The drive units are used for the automation of top-hung windows, skylights and large size domes and they constitute a valid solution in applications requiring the use of 2 or 3 thrust points.

Technical Features

Depending on whether the application requires 2 or 3 thrust points in conjunction with an LC or LC INOX rack actuator, the correct drive unit must be selected, choosing between DUO/TRY and DUO/TRY INOX (refer to the table) and the correct drive tube (A).
The following must be purchased to create the second thrust point: one DUO/TRY drive unit + one drive tube (A).
To create the third thrust point you will need a second DUO/TRY drive unit and a second drive tube (A).
The DUO/TRY drive unit is available in 6 lengths (mm): 170, 230, 350, 550, 750 and 1000.
The length of the selected drive unit must be identical to the length of the LC and LC INOX rack actuator.
Movement of the drive unit thrust point occurs via a drive tube (A) made of anodized aluminium and available in various lengths.
Drive tube (A) creates a physical and mechanical connection between the actuator and the drive unit.
The drive tube must be selected on the basis of the distance to be obtained between the primary thrust point of the actuator and the distance of the second and third thrust points.

Materials

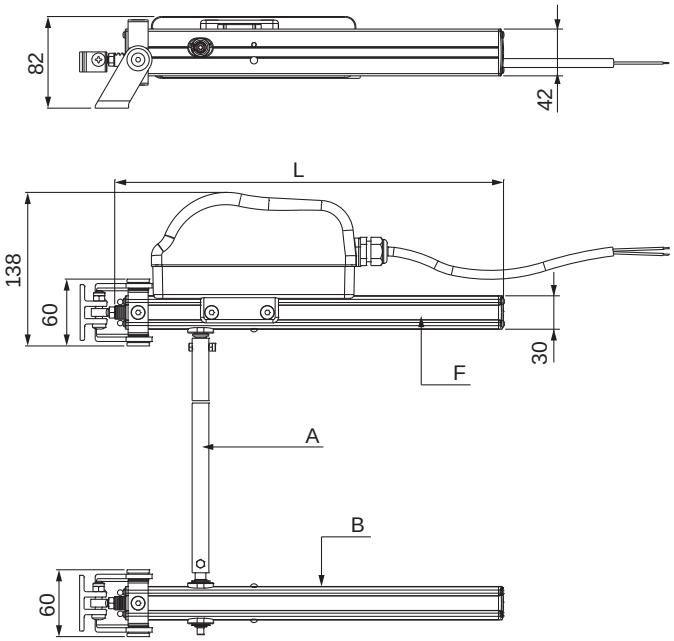
Anodized aluminium actuator tube.
Rack in galvanized steel or stainless steel for INOX version.
Stainless steel eye bolt.
Anodized aluminium casement connection.
Anodized aluminium bracket adapter.
Anodized aluminium fixing bracket.
Steel transmission joint.
Screws in steel or stainless steel for INOX version.

Parts

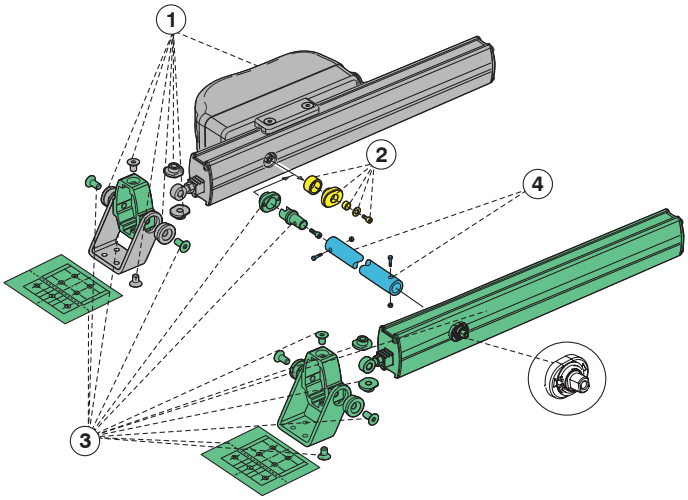
Drive unit
Sash and frame fixing brackets
Drilling template

Finish

Anodized silver (020)



L= Stroke + 180 mm
A= Drive tube
B= DUO/TRY, DUO/TRY INOX drive unit
F= LC/LC INOX



1. Actuator
2. Components to eliminate for the DUO version
3. Drive unit components
4. Drive tube

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RACK ACTUATORS
TUBES FOR DUO FIRE, DUO/TRY, DUO/TRY INOX DRIVE UNITS

Combination LC - DUO/TRY

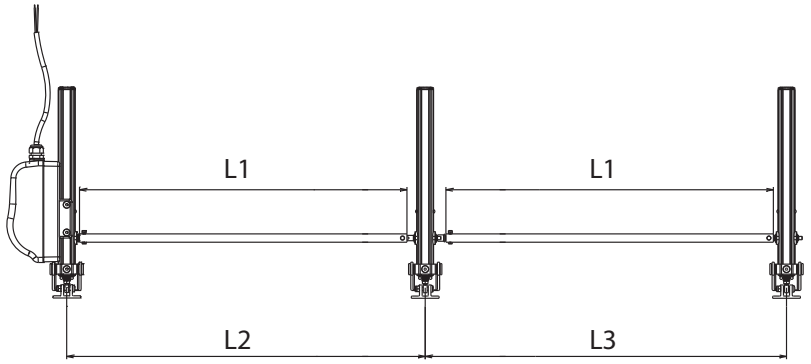
Rack actuator stroke (mm)	LC 24Vdc	LC 230Vac	Drive unit DUO/TRY
170	01672	01673	01919
230	01674	01675	01920
350	01676	01677	01921
550	01678	01679	01922
650	01657	-	-
750	01680	01681	01923
850	01658	-	-
1000	01682	01683	01924

Combination LC INOX - DUO/TRY INOX

Rack actuator stroke (mm)	LC INOX 24Vdc	LC INOX 230Vac	Drive unit DUO/TRY INOX
170	01684	01685	01925
230	01686	01687	01926
350	01688	01689	01927
550	01690	01691	01928
650	-	-	-
750	01692	01693	01929
850	-	-	-
1000	01694	01695	01930

Technical data: Drive tubes

Drive tubes	L1 - Tube length (mm)	L2 - Distance between thrust points 1 and 2 (mm)	L3 - Distance between thrust points 2 and 3 (mm)
6693500000117	844	900	905
6693500000118	1244	1300	1305
6693500000119	1544	1600	1605
6693500000120	1844	1900	1905
6693500000121	1944	2000	2005



L1 Tube length
L2 Distance between thrust points 1 and 2
L3 Distance between thrust points 2 and 3

Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01920	DUO/TRY 23 DRIVE UNIT			X			1
01921	DUO/TRY 35 DRIVE UNIT			X			1
01922	DUO/TRY 55 DRIVE UNIT			X			1
01923	DUO/TRY 75 DRIVE UNIT			X			1
01924	DUO/TRY 100 DRIVE UNIT			X			1

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TUBES FOR DUO FIRE, DUO/TRY, DUO/TRY INOX DRIVE UNITS

Functions

The drive tube (A) is the connecting component between the LC electric rack actuator (or LC SPEED, LC INOX and LC FIRE) and the drive unit (DUO FIRE, DUO/TRY, DUO/TRY INOX).

Technical Features

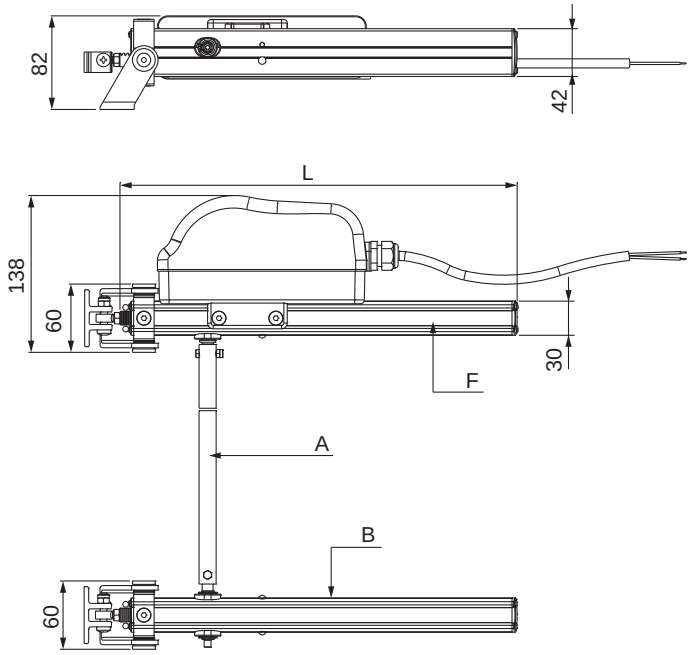
The drive tubes are made of anodized aluminium and supplied complete with fixing screws.
These products are employed to transmit drive from the rack actuator to the DUO FIRE, DUO/TRY or DUO/TRY INOX drive unit.
The length of tube (A) depends on the distance required between the actuator thrust point and the drive unit thrust point.

Materials

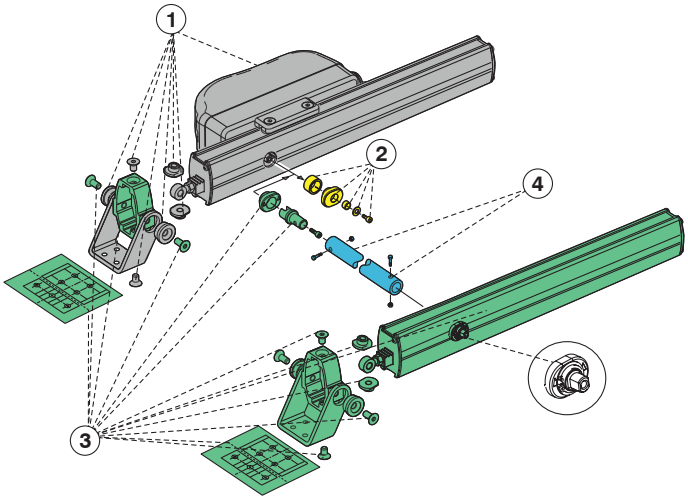
Extruded anodized aluminium tubes

Finish

Anodized silver (020)



L= Stroke + 180 mm
A= Drive tube
B= Drive unit
F= Actuator



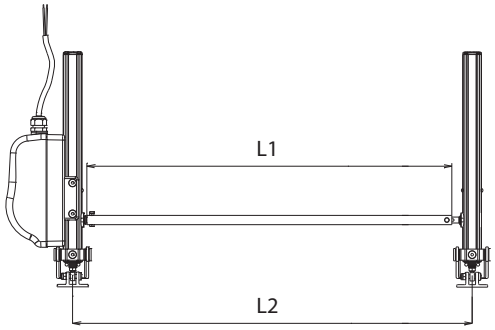
1. Actuator
2. Components to eliminate for the DUO version
3. Drive unit components
4. Drive tube

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Technical data: Drive tubes

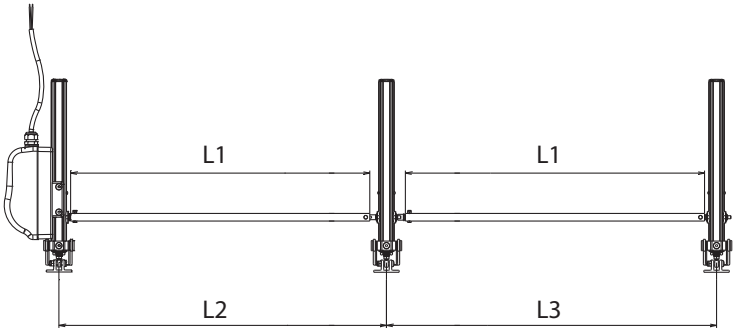
Drive tubes	L1 - Tube length (mm)	L2 - Distance between thrust points 1 and 2 (mm)	L3 - Distance between thrust points 2 and 3 (mm)
6693500000117	844	900	905
6693500000118	1244	1300	1305
6693500000119	1544	1600	1605
6693500000120	1844	1900	1905
6693500000121	1944	2000	2005

DUO application



L1 Tube length
L2 Distance between thrust points

TRY application



L1 Tube length
L2 Distance between thrust points 1 and 2
L3 Distance between thrust points 2 and 3

Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
6693500000117	DRIVE TUBE TT 90	c/c distance 844 mm	X				1
6693500000118	DRIVE TUBE TT 130	c/c distance 1244 mm	X				1

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ST450 ROD ACTUATORS

Functions

ST 450 is a rod actuator featuring high reliability and high strength at peak loads.
Ideal for the automation of top-hung shed skylight windows, top-hung windows, brise soleil and jalousie windows.

Technical Features

Actuator with linear rigid rod movement and aluminium casing.
Operation at 230Vac, equipped with limit switch and thermal protection. Can be connected in parallel by using the relay incorporated in the card.
Equipped with a power cable pre-connected inside the actuator, 1.5 m in length.
The lateral guides on the operator body reduce the difficulty and time required for installation and facilitate adjustment of the window closing position.
The compromise adopted between thrust force, travel speed and low-noise operation makes for a level of performance that meets highly exacting market demands.
The compact shape and reduced dimensions also allow easy and aesthetically pleasing installation and are of fundamental importance when available space is limited.
The product is supplied with brackets and supports for the required application.

Materials

Enclosure and rod tube, connection to casement and fixing bracket in anodized aluminium
Front and rear flanges, terminal guard for 300 mm stroke and cable clamp in polyamide
Thermoplastic rubber seal
Rubber cable clamp boot and power cable
Nickel plated steel spring plate
Nickel plated brass rod bushing
Microswitch pin in acetyl resin
Stainless steel eye bolt
Steel screws and bolts

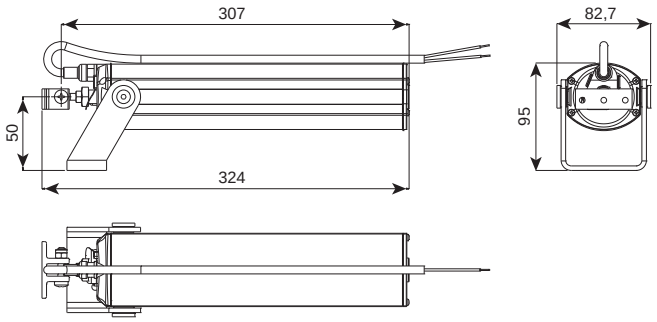
Parts

One ST450 actuator
Sash and frame fixing brackets
Drilling template

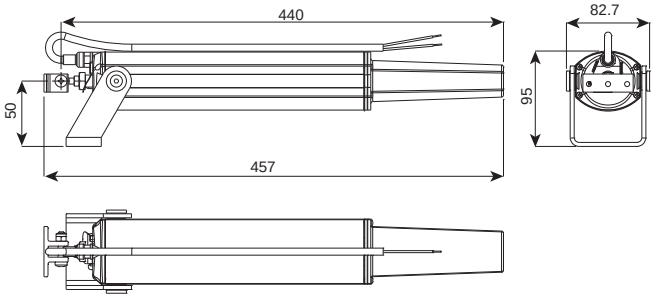
Finish

Anodized silver (020)

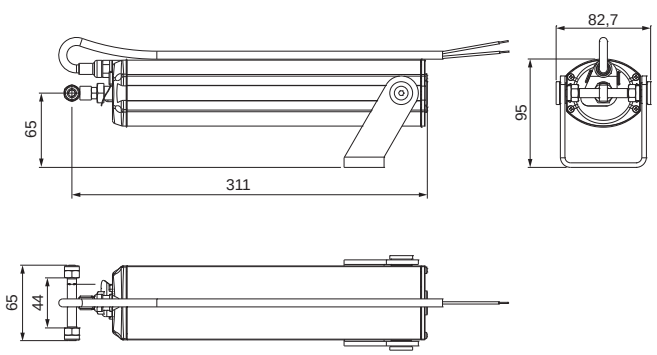
Art. 04791 - Stroke 180 mm - Top-hung window



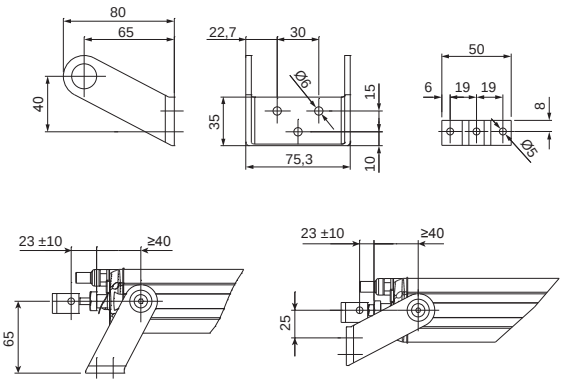
Art. 04792 - Stroke 300 mm - Top-hung window



Art. 01560 - Stroke 300 mm - Jalousie and brise soleil casements

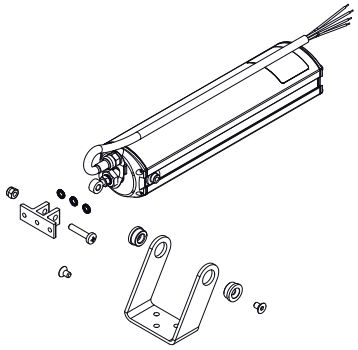


Fixing brackets supplied

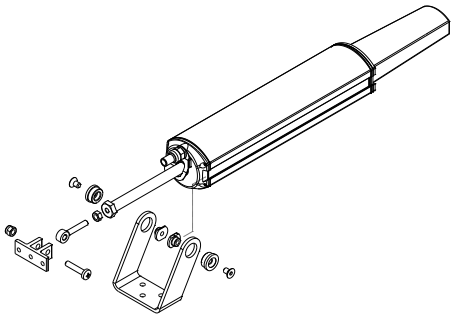


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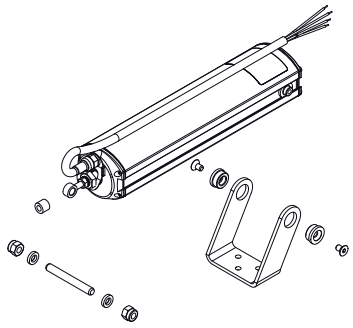
04791



04792



01560



Technical data

Model	ST450 - TOP-HUNG (180)	ST450 - TOP-HUNG (300)	ST450 - BRISE SOLEIL (180)
Item code	04791020	04792020	01560020
Stroke (mm)	180	300	180
Power supply voltage	230Vac	230Vac	230Vac
Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Thrust and pull force	450N	450N	450N
Duration of idle stroke	8 / 13 sec	8 / 13 sec	8 / 13 sec
Idle travel speed	23 mm/sec	23 mm/sec	23 mm/sec
Current	0,7 A	0,7 A	0,7 A
Consumption	150 W	150 W	150 W
Overload temperature protection	140°C	140°C	140°C
Capacitor	5 µF	5 µF	5 µF
Stroke limit	microswitch type	microswitch type	microswitch type
Built-in relay	YES	YES	YES
Prewired power cable	1500 mm	1500 mm	1500 mm
Connection in parallel	YES	YES	YES
Protection rating	IP 55	IP 55	IP 55
Operating temperature	- 20 / + 70 °C	- 20 / + 70 °C	- 20 / + 70 °C
Connection in parallel	YES	YES	YES

Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01560	ST450 230V 180/FR			X			1
04791	ST450 230V 180/SP			X			1
04792	ST450 230V 300/SP			X			1

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