

GIESSE **TILT AND TURN**

The most popular, comprehensive system
of tilt-and-turn fittings



GIESSE **TILT AND TURN FITTINGS**

The project and its requirements

Create a complete high-performance system of products that offer the possibility to accessorize tilt-and-turn fittings, of any dimension and weight, while still guaranteeing the ability to ventilate, to close safely, and to protect against the weather. Offer the opportunity of all this with easy to use, reliable accessories, which add value to the window maker's business, together with a series of decorative solutions that diversify the product and enhance the look and design.



“
Can I order a Tilt and Turn window in a non-standard size?
”

Limited options that don't satisfy the architect's and market's real needs

It's often very difficult to make tilt-and-turn fittings to a particular design other than the traditional rectangular at a reasonable price.

This makes it difficult to realize the design fully and limits the creativity of the person designing the structure.

“
I would like all the windows of my house to be tilt-and-turn, but I also want them to be as reliable as traditional windows.
”



Low quality materials and poor performance

Often, and in order to save money, the materials used to make tilt-and-turn windows are low quality. Additionally, many products don't come with a warranty or certificate which guarantees long-term performance and resistance to the elements.



“

Installing the hardware for tilt and turn windows takes too long!

”

A product that requires specialist knowledge

Of all the window maker's products, the tilt and turn window is the most technical.

This means that installation requires a certain level of experience and specialization. This could represent an obstacle which hinders the the adoption of the product.

Safety and well-being

The end-user increasingly demands safety and well-being at home.

Windows and doors obviously play an important part in this, offering solutions that provide security against attempts at burglary, but are also safe for those who use them, especially children. The health of the environment in which we live is also an increasingly important element in the construction of new houses, and later restoration (micro-ventilation).

“

I want to feel safe in my home but in particular I want my entire family to be safe.

”



GIESSE **FUTURA TILT AND TURN WINDOW**

The most popular, comprehensive system for tilt and turn fittings



GIESSE TILT AND TURN

The solution

Giesse FUTURA 3D tilt and turn hardware, the most popular, comprehensive system for tilt and turn fittings in the world

The millions of windows installed all over the world are proof of the reliability of a system that continues to expand, adding new solutions to meet the needs of window-makers, architects, and builders the world over.

The most extensive range of tilt and turn fittings

Giesse's tilt and turn mechanisms form the widest range available for aluminium windows. FUTURA is a system that can satisfy any need; the window-maker is able to offer solutions that fulfil any request. The range can be further expanded through a series of options to personalize and enhance the characteristics of the window, based on the performance requirements or the end-customer's specifications (design and safety).

Continuous innovation

Giesse continuously innovates, creating new components and solutions to expand the

range even further. Giesse's tilt and turn system is protected by numerous international patents that prove the technological quality of the product.

Excellent quality

Giesse means quality -- certified by the rigorous testing the product undergoes and the millions of installations throughout the world.

Quick and easy installation

A product that brings simplicity to each component, reducing hardware installation times by up to 75%.

Italian design

Giesse tilt and turn perfectly represent Italian style. In addition to Cremona, windows handles, and hinges, each component is designed to work together harmoniously with the surrounding environment.



GIESSE TILT AND TURN

Advantages

1

130 Kg minimum

With FUTURA 3D 130, Giesse is the only company that offers a basic tilt and turn window with a capacity of 130 Kg (or more).



2

150 Kg, when you need to exceed the limits

With its FUTURA 3D 150 HP, Giesse offers a tilt and turn system that can be used when the weight and/or dimensions of the sashes are greater than the average.



3

Invisible, when the design requires it

The tilt and turn FUTURA 3D 170 HP Invisible represents a completely new product in the Giesse product range. Thanks to this product, windows can be installed with invisible hinges, but with the highest load-bearing capacity available on the market.



4

3D adjustment with the advantages of the CE mark

All 3D FUTURA mechanisms have three-dimensional window adjustment using the hinges.

The strikers provided allow the highest degree of adjustment available on the market, in order to increase the windows performance against the weather.



Anti-burglar

An anti-burglar system can be installed with the entire line of FUTURA 3D tilt and turn fittings.



5

Maximum corrosion resistance

All FUTURA products are graded **Level 4** under the European norms which govern window accessories. This guarantees extremely high resistance and also permits their use in environments subject to severe weather and industrial conditions.



6

New modular packaging

The reduction in the number of pieces per package, and the creation of closing mechanisms in both traditional and tilt-before-turn "logica" versions (for Cremona and window handles), means the window makers need only to purchase what they need, without unnecessary storage requirements.



7

Simple, easy, and fast

Each component has been designed with the objective of making installation faster and easier. The modular design of the system makes installation intuitive and mistakes almost impossible.



8

Spazio Giesse

The Giesse FUTURA 3D tilt and turn system can be used with the Spazio Giesse system, in any of the various versions.



9

GIESSE TILT AND TURN

Quick and easy with outstanding performance

The FUTURA tilt and turn system, renowned for its simplicity and quick assembly, has become even more comprehensive and effective.

130 Kg minimum

FUTURA 3D 130 is the only tilt and turn system whose basic model supports sashes weighing up to 130 Kg. These loads can be achieved without resorting to additional screws or supplementary supports – in other words, without any additional cost.

150 Kg, when you need to exceed the limits

In the rare cases where the load-bearing

capacity of FUTURA 3D 130 isn't quite sufficient, FUTURA 3D 150 HP supports sashes weighing up to 150 Kg. (and even more, based on the dimensions of the sash).

Invisible, when the design requires it

Giesse's increasing focus on architects and all those involved in building design, led to the creation of FUTURA 3D 170 HP.

Invisible is a system that combines aesthetic requirements, through invisible hinges, with incredible performance, through a load-bearing capacity up to 170 Kg.

FUTURA 3D

130

FUTURA 3D

130 lgc

FUTURA 3D

150 HP

FUTURA 3D

150 HP lgc

FUTURA 3D

170 HP Invisible

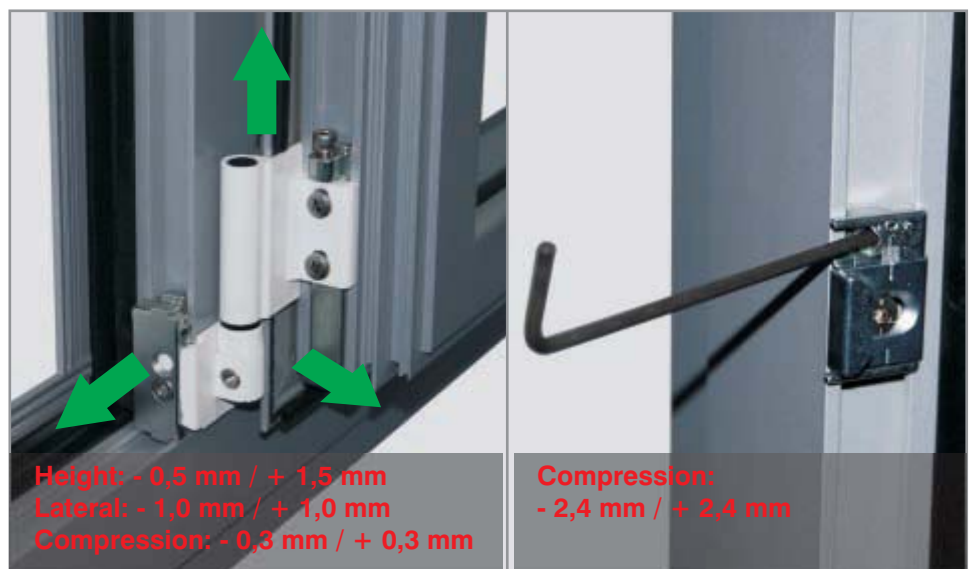
FUTURA 3D

170 HP Invisible lgc

Adjustable in 3 dimensions

With respect to the traditional FUTURA project, which permits adjustment of height, compression, or drop, FUTURA 3D tilt and turn windows add lateral adjustment, which is particularly useful after installation.

Thanks to the screw located on the neck of the lower female hinge, lateral regulation of ± 1 mm. can be carried out, using the same Allen key required to install the FUTURA hardware.



GIESSE TILT AND TURN

Multi-point closure

Multi-point closure

The FUTURA 3D tilt and turn system provides for perimeter and point closure. In fact, thanks to the creation of new items such as the corner bolt which transfers movement to the connected window's crossbeams, closure points can now be inserted in the most

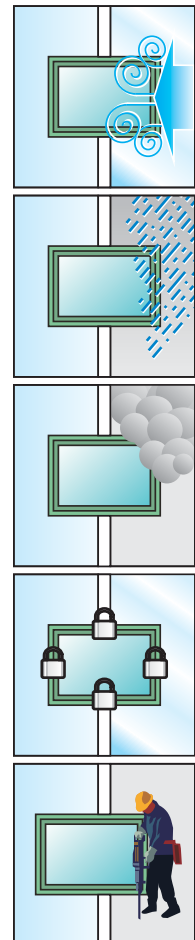
critical areas -- increasing the safety and performance of the window, essential characteristics for obtaining a **high grade of CE certification**.



Increased performance

Not only is the load-bearing capacity increased, but with FUTURA 3D 130, 150 HP, and 170 HP Invisible, tilt and turn sashes can be made with both multi-point closure (CE mark products) and anti-burglar features. Thanks to the "all-sides" closure, FUTURA 3D tilt and turn systems **increase weather protection against air, water and wind.**

- **Wind resistance**
(EN 12210; E 12211)
- **Water tightness**
(EN 12208; EN 1027)
- **Air permeability**
(EN 12207; EN 1026)
- **Anti-burglar resistance**
(EN 1627)
- **Soundproofing**
(EN 140-3; EN 717-1)



GIESSE **TILT AND TURN**

Maximum corrosion resistance and environmentally responsible

The entire FUTURA 3D series has been developed and designed with the aim of guaranteeing products with superior durability but without sacrificing **environmental sustainability**, – that is, low environmental impact.

The use of the best raw materials combined with new cutting edge treatments, such as **GS Silver Plus**, has let FUTURA 3D tilt and turn windows obtain **qualitatively superior results**.

In fact, surfaces treated with GS Silver Plus have active and **effective corrosion resistance** even after thermal shocks of 120°. The treatment was designed to respond to corrosion resistance needs and the desire to control the friction coefficient. Combined with the **painting and oxidation** treatments used by Giesse, GS Silver Plus allows FUTURA components to be used even in the most arduous locations, with extremely aggressive weather conditions.

Thanks to the use of this treatment, the FUTURA 3D tilt and turn window range has obtained a **Grade 4** rating under the European norms which govern window sash accessories. Grade 4 (**resistance of over 240 hours in saline mist**) corresponds to an extremely high level of corrosion resistance and the possibility of use even in the most severe climates.

For additional information, please ask for the specific folder, code U0192000.

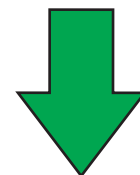
materials

**Zamak
Steel
Aluminium**



treatments

**GS Silver Plus
Oxidation
Painting**



results

**Grade 4
> 240 hours in
Saline mist**



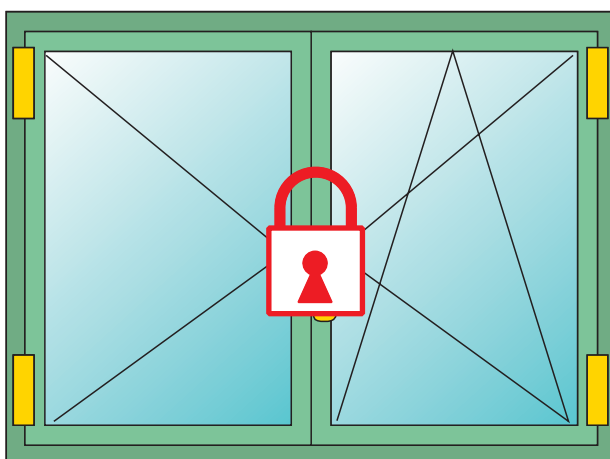
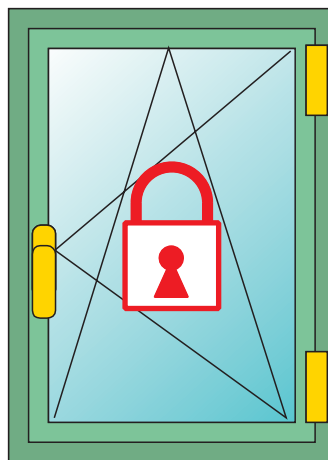
GIESSE **TILT AND TURN**

Anti-burglar system

One of the fundamental characteristics of the FUTURA 3D tilt and turn window system is the inclusion of an optional **anti-burglar system**, available for both single and double windows. In fact, thanks to the Giesse MULTIPPOINT system, closure and anti-burglar devices can be installed on all sides of the sash, both for single and double windows, making them more secure and reliable.

In addition to allowing the window maker a great degree of liberty regarding positioning and the number of devices to be installed, Giesse also proposes another configuration.

For more information, please ask for the specific folder, code U0191000.





FUTURA 3D 130 TILT AND TURN

The highest level of performance available with a basic system. 130 Kg capacity. Adjustable in 3 dimensions.

Excellent performance

FUTURA 3D 130 tilt and turn is the tilt and turn system that successfully combines all the advantages of FUTURA 3D while also adding the possibility to create sashes with greater dimensions and weights thanks to the use of next-generation materials.

This new tilt and turn hardware has a lot in common with FUTURA 3D - **its connection rod cutting layouts have not changed**, and neither have **its style nor its quick and easy assembly**, which make **installation times**, minimal whilst keeping its appearance.

Adjustable in 3 dimensions

The FUTURA 3D 130 tilt and turn mechanism can be adjusted in the following ways: height + 1,5 mm / - 0,5 mm; width +/- 1 mm; window drop + 1 mm / - 3,5 mm and compression +2,4 mm / - 2,4 mm.

GIESSE **TILT AND TURN** **FUTURA 3D 130**

FUTURA 3D
130

FUTURA 3D
130 lgc



**CORNER
DRIVE**



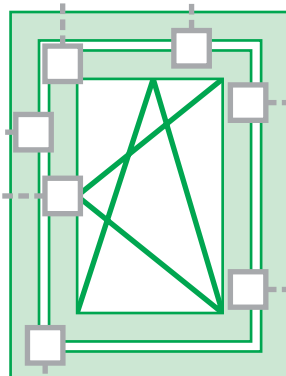
ARM



UPPER HINGE UNIT



CLOSURE STRIKER



**CREMONES OR
WINDOW HANDLES**

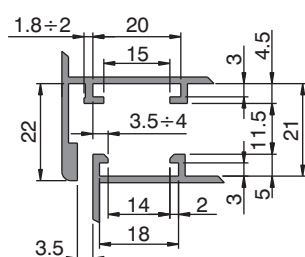


**DOUBLE STRIKER
ANTI-LIFTING**

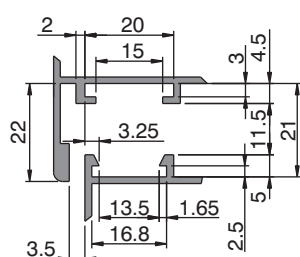


LOWER HINGE UNIT

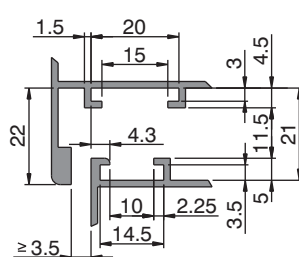
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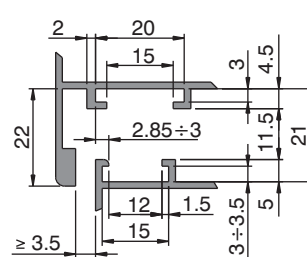
SECTION TYPE 2



SECTION TYPE 3



SECTION TYPE 4



GIESSE TILT AND TURN

FUTURA 3D 130

The FUTURA 3D 130 tilt-and-turn mechanism is **rated up to 130 Kg.**

However, it is possible to create sashes of up

to 140 Kg. For the maximum and minimum dimensions possible and for the associated glass to be used, please

refer to the load-bearing capacity diagram seen below.

2500													
2400	44	37	31	27	24	22	20	18	17	16	15	14	13
2300	46	38	33	29	25	23	21	19	18	16	15	14	13
2200	48	40	34	30	27	24	22	20	18	17	16	15	14
2100	50	42	36	31	28	25	23	21	19	18	17	16	15
2000	50	44	37	33	29	26	24	22	20	19	17	16	15
1900	50	46	39	34	31	27	25	23	21	20	18	17	16
1800	50	48	41	36	32	29	26	24	22	21	19	18	16
1700	50	50	44	38	34	31	28	25	23	22	20	18	16
1600	50	50	46	40	36	32	29	27	25	23	21	18	16
1500	50	50	49	43	38	34	31	29	26	24	21	18	16
1400	50	50	50	46	41	37	33	31	27	24	21	18	16
1300	50	50	50	49	44	39	36	32	27	24	21	18	16
1200	50	50	50	50	47	42	38	32	27	24	21	18	
1100	50	50	50	50	50	46	38	32	27	24	21		
1000	50	50	50	50	50	46	38	32	27	24			
900	50	50	50	50	50	46	38	32					
800	50	50	50	50	50	46	38	32					
700	50	50	50	50	50	46	38						
600	50	50	50	50	50	46							
390	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700

Possible glass thickness table

Some examples of possible sashes

2200 x 500 sash

Maximum glass thickness, 50 mm – equivalent to a sash with a maximum weight of 140 Kg.

1500 x 900 sash

Maximum glass thickness, 41 mm – equivalent to a sash with a maximum weight of 140 Kg.

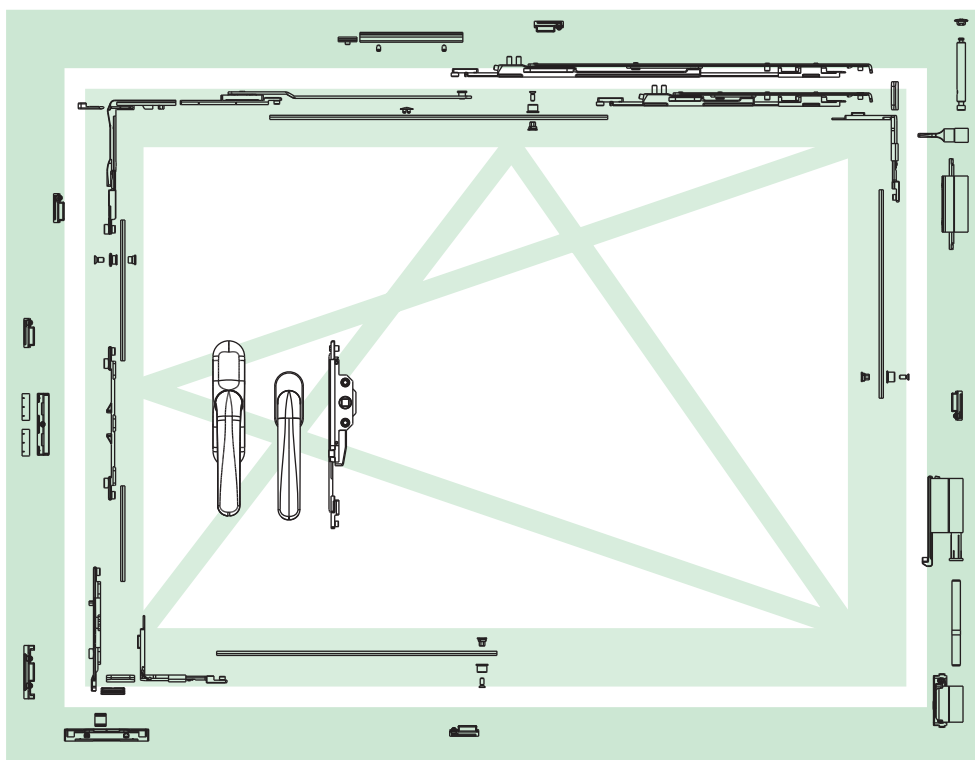
1300 x 1100 sash

Maximum glass thickness, 17 mm – equivalent to a sash with a maximum weight of 140 Kg.

2500													
2400	140	140	140	140	140	140	140	140	140	140	140	140	140
2300	140	140	140	140	140	140	140	140	140	140	140	140	140
2200	140	140	140	140	140	140	140	140	140	140	140	140	140
2100	140	140	140	140	140	140	140	140	140	140	140	140	140
2000	140	140	140	140	140	140	140	140	140	140	140	140	140
1900	140	140	140	140	140	140	140	140	140	140	140	140	139
1800	140	140	140	140	140	140	140	140	140	140	140	140	132
1700	140	140	140	140	140	140	140	140	140	140	140	133	125
1600	140	140	140	140	140	140	140	140	140	140	134	126	118
1500	140	140	140	140	140	140	140	140	140	135	126	118	111
1400	140	140	140	140	140	140	140	140	137	127	118	111	104
1300	140	140	140	140	140	140	140	138	127	118	110	104	97
1200	140	140	140	140	140	140	140	128	118	110	103	96	
1100	140	140	140	140	140	140	129	118	109	101	95		
1000	140	140	140	140	140	130	118	108	100	93			
900	140	140	140	140	131	118	108	99	91				
800	140	140	140	133	118	106	97	89					
700	140	140	135	118	105	95	86						
600	140	138	118	104	92	83							
390	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700

Maximum load-bearing capacity table

1	2	3	4	5	6	7	8	9
-	4	130	0	1	4	-	8	1300/1200



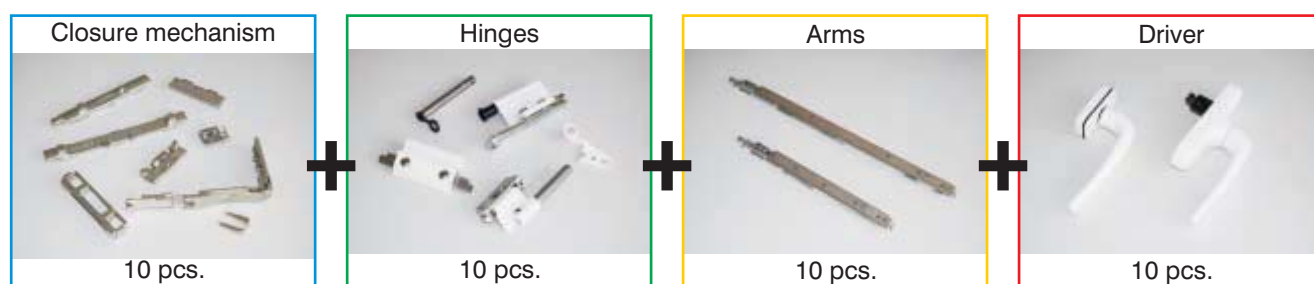
New dynamic packaging

Giesse has created new packaging for FUTURA 3D tilt and turn systems in

response to the requests made by those who create sashes with window handles or in logica versions.

Mechanism kits were created for these. In addition, by packaging hinges separately from mechanisms, delivery

times are improved for low-revolving products.



FUTURA 3D 130	Closure mechanism	Hinges	Arms	Driver
	10 pcs.	10 pcs.	10 pcs.	10 pcs.
FUTURA 3D 130 lgc	04704000 Mech.Traditional (Cremone)	04711... Hinges	04200000 Type 1 04284000 Type 1 Microventilation 04201000 Type 2 04285000 Type 2 Microventilation	01033K Prima Cremone 01039 Prima Crem. Microventilation 01090K Euro Cremone 01094 Euro Crem. Microventilation
	04705000 Mech.Traditional (window handle)	04711... Hinges	04200000 Type 1 04284000 Type 1 Microventilation 04201000 Type 2 04285000 Type 2 Microventilation	02484 Prima Window Handle 02460 Master Window Handle
FUTURA 3D 130 lgc	04706000 Mech. logica (Cremone)	04711... Hinges	04202000 Type 1 04203000 Type 2	01149K Prima Key Capture Cremone
	04707000 Mech. logica (window handle)	04711... Hinges	04202000 Type 1 04203000 Type 2	02486 Prima Key Logica Window Handle

FUTURA 3D 150 HP TILT AND TURN

The solution when you need to exceed the limits.

Capacity: 150 Kg.

Adjustable in 3 dimensions.

The solution when the limits are exceeded

FUTURA 3D 150 HP is the tilt and turn system that lets you accessorize your sashes with load-bearing capacities and dimensions that are above the norm: in fact, you can support windows with a weight of up to 150 Kg. The arm and the hinges are the distinct elements from FUTURA 3D 130. The rest of the hardware is the same – so the installation method and the simplicity of working with the FUTURA Giesse system don't change.

The arm is a new invention: designed to provide better performance levels, it's multi-functional -- for both traditional and logica versions the same item is used.

Adjustable in 3 dimensions

The FUTURA 3D 150 HP tilt and turn can be adjusted in the following ways: height + 1.5 mm / - 0.5 mm; width +/- 1 mm; window drop + 1 mm / - 3.5 mm and compression +2.4 mm / - 2.4 mm.

GIESSE **TILT AND TURN** **FUTURA 3D 150 HP**

FUTURA 3D
150 HP

FUTURA 3D
150 HP lgc



**CORNER
TRANSMISSION**



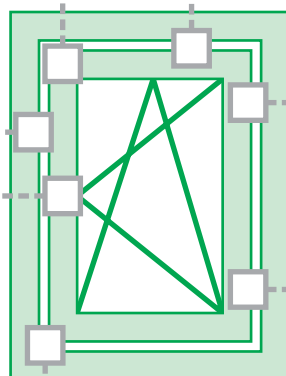
ARM



UPPER HINGE UNIT



CLOSURE STRIKER



**CREMONE BOLTS OR
WINDOW HANDLES**

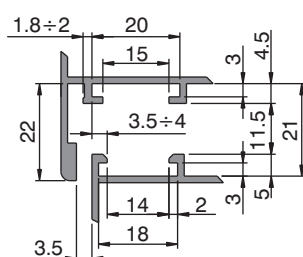


**DOUBLE ANTI-LIFTING
STRIKER**

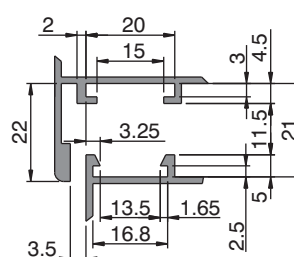


LOWER HINGE UNIT

SECTION TYPE 1



SECTION TYPE 2



The FUTURA 3D 150 tilt and turn **is certified for 150 Kg.**

For the maximum and

minimum dimensions possible and for the associated glass to be used, please refer to the

load-bearing capacity diagram seen below.

Possible glass thickness table

2500	50	41	35	31	27	25	21	20	18	17	16	15	14
2400	52	43	37	32	28	26	22	20	19	18	16	15	14
2300	54	45	38	33	30	27	23	21	20	18	17	16	15
2200	57	47	40	35	31	28	24	22	21	19	18	17	16
2100	59	49	42	37	32	29	25	23	22	20	19	18	16
2000	60	51	44	38	34	31	27	25	23	21	20	18	17
1900	60	54	46	40	36	32	28	26	24	22	21	19	18
1800	60	57	49	43	38	34	30	27	25	23	22	20	19
1700	60	60	52	45	40	36	31	29	27	25	23	21	19
1600	60	60	55	48	42	38	33	31	28	26	24	21	19
1500	60	60	58	51	45	39	36	33	30	28	24	21	19
1400	60	60	60	55	48	42	38	35	32	28	24	21	19
1300	60	60	60	59	50	45	41	38	32	28	24	21	
1200	60	60	60	60	55	49	45	38	32	28	24		
1100	60	60	60	60	59	54	45	38	32	28			
1000	60	60	60	60	60	55	45	38	32				
900	60	60	60	60	60	55	45	38					
800	60	60	60	60	60	55	45						
700	60	60	60	60	60	55							
600	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700

SEE LOAD
LIMIT IN
TABLE
BELOW

Some examples of possible fixtures

2200 x 500 fixture

Maximum glass thickness, 57 mm – equivalent to a fixture with a maximum weight of 159 Kg.

1400 x 800 fixture

Maximum glass thickness, 55 mm – equivalent to a fixture with a maximum weight of 156 Kg.

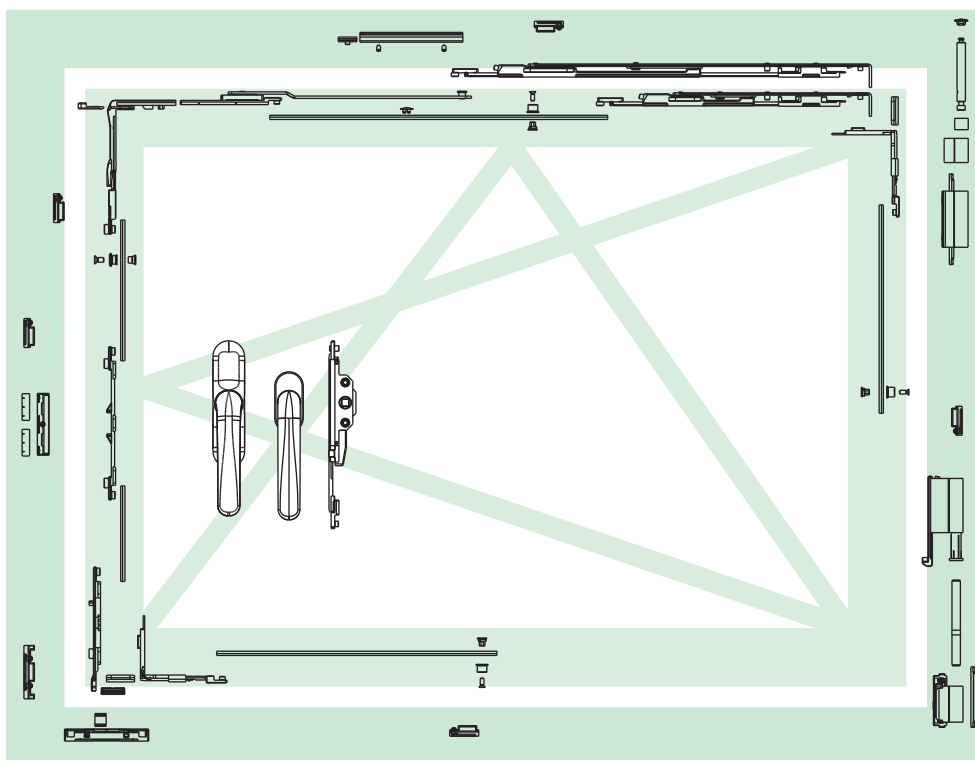
2500 x 1200 fixture

Maximum glass thickness, 20 mm – equivalent to a fixture with a maximum weight of 150 Kg.

Maximum load-bearing capacity table

2500	159	158	158	157	157	157	150	150	150	150	150	150	150
2400	159	158	158	157	157	156	150	150	150	150	150	150	150
2300	159	158	157	157	157	156	150	150	150	150	150	150	150
2200	159	158	157	157	157	156	150	150	150	150	150	150	150
2100	158	158	157	157	156	156	150	150	150	150	150	150	150
2000	158	157	157	157	156	156	150	150	150	150	150	150	150
1900	158	157	157	156	156	156	150	150	150	150	150	150	150
1800	158	157	157	156	156	156	150	150	150	150	150	150	148
1700	157	157	156	156	156	156	150	150	150	150	148	140	140
1600	157	157	156	156	156	156	150	150	150	150	149	140	131
1500	157	157	156	156	156	150	150	150	150	149	140	131	123
1400	157	156	156	156	156	150	150	150	150	140	130	122	115
1300	157	156	156	156	150	150	150	150	140	130	121	113	
1200	156	156	156	150	150	150	150	140	129	120	112		
1100	156	156	156	150	150	150	140	128	118	110			
1000	156	156	150	150	150	140	127	116	107				
900	156	150	150	150	140	126	114	105					
800	156	150	150	140	124	112	101						
700	150	150	140	122	109	98							
600	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700

1	2	3	4	5	6	7	8	9
-	4	150	0	1	4	-	8	1550/1400



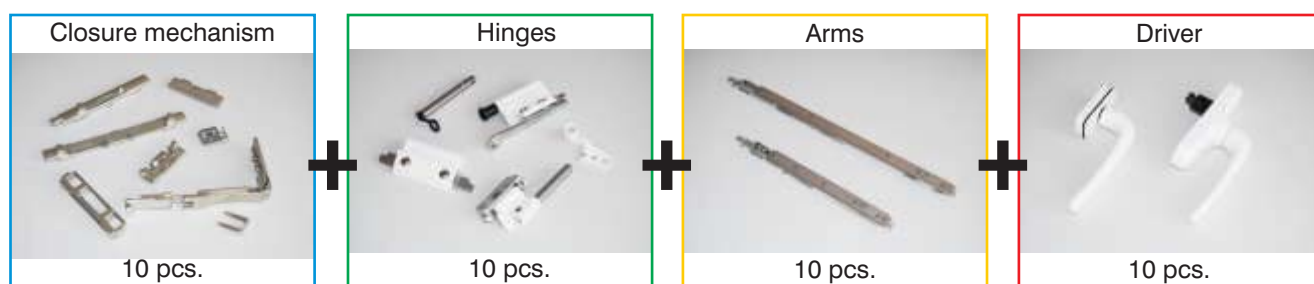
New dynamic packaging

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low-revolving products.



FUTURA 3D 150 HP	Closure mechanism	Hinges	Arms	Driver
	10 pcs.	10 pcs.	10 pcs.	10 pcs.
FUTURA 3D 150 HP _{lgc}	04704000 Mech.Traditional (Cremone)	04712... Hinges (section type 1) 04723... Hinges (section type 2)	04204000 Type 1 04205000 Type 2	01033K Cremone Prima 01090K Euro Cremone
	04705000 Mech.Traditional (window handle)	04712... Hinges (section type 1) 04723... Hinges (section type 2)	04204000 Type 1 04205000 Type 2	02484 Prima Window Handle 02460 Master Window Handle
FUTURA 3D 150 HP _{lgc}	04706000 Mech. Logica (Cremone)	04712... Hinges (section type 1) 04723... Hinges (section type 2)	04204000 Type 1 04205000 Type 2	01149K Prima Key Capture Cremone
	04707000 Mech. Logica (window handle)	04712... Hinges (section type 1) 04723... Hinges (section type 2)	04204000 Type 1 04205000 Type 2	02486 Prima Key Logica Window Handle



FUTURA 3D 170 HP TILT AND TURN

Invisible, when the design requires it.

Capacity: 170 Kg.

Adjustable in 3 dimensions.

Performance connected to design

Giesse presents a completely new product in its range of tilt and turn windows -- a system of invisible accessories appropriate for creating prestigious design works. Architects and builders of large constructions such as skyscrapers and hotels look for high level design products that let them reduce the visual impact of accessories (hinges), while still being able to support the ever-greater loads of increasingly large windows. All of this is compressed into a 100% FUTURA 3D product, guaranteeing that it's fast, simple and easy with the same time requirements necessary for the installation of a FUTURA 3D tilt and turn system. This "hidden" system is completely invisible when the window is closed. In fact, the only visible element on the window is the Cremone bolt or window handle. It's the finishing touch for those who are searching for a serious and simple design. FUTURA 3D 170 HP tilt and turn windows are created with high quality materials to provide resistance in any type of weather.

In addition, the system provides for a basic window opening of up to 90°, and if the end stop piece located on the hinge and arm is removed, it's possible to adjust the opening corner to 105°.

For Euro Groove profiles

The FUTURA 3D 170 HP tilt and turn mechanisms are specified either right or left hand. They are available for 10÷14 mm groove frames and for 14÷18 mm groove frames, in both traditional and logica versions.

GIESSE **TILT AND TURN** **FUTURA 3D 170 HP Invisible**

FUTURA 3D
170 HP Invisible

FUTURA 3D
170 HP Invisible lgc



**CORNER
TRANSMISSION**



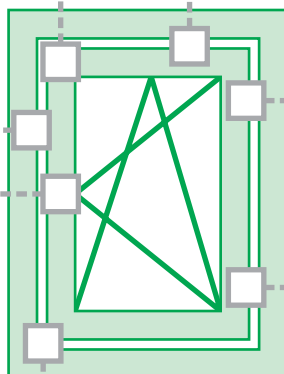
ARM



UPPER HINGE UNIT



CLOSURE STRIKER



**CREMONE BOLTS OR
WINDOW HANDLES**

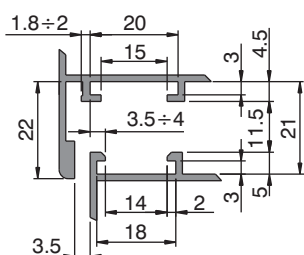


**DOUBLE ANTI-LIFTING
STRIKER**

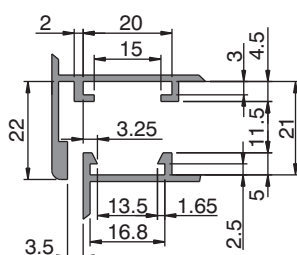


LOWER HINGE UNIT

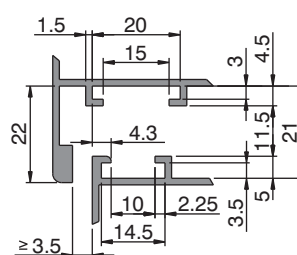
SECTION TYPE 1



SECTION TYPE 2



SECTION TYPE 3



GIESSE TILT AND TURN **FUTURA 3D 170 HP Invisible**

The FUTURA 3D 170 tilt and turn **is certified for 170 Kg.**

The standard product has a load capacity of

130 kg, to increase the capacity limits is necessary add the reinforcement set (specific for section type

profile). For the maximum and minimum dimensions possible and for the associated glass to be

used, please refer to the load-bearing capacity diagram seen below.

Possible glass thickness table

FUTURA 3D Invisible < 130 Kg															
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	430	500	550	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700

FUTURA 3D 130 Kg ÷ 170 Kg Invisible															
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	430	500	550	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700



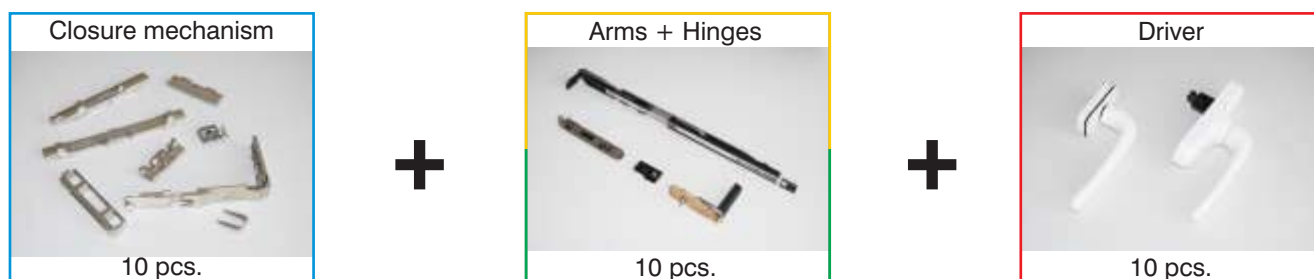
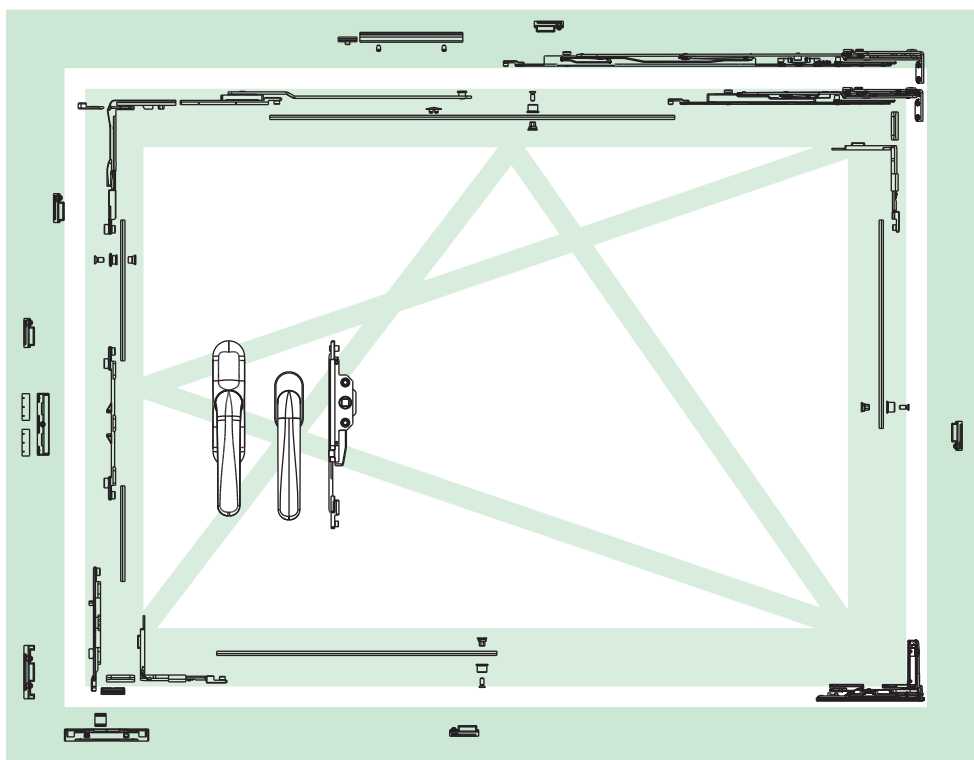
Maximum load-bearing capacity table

FUTURA 3D Invisible < 130 Kg															
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	430	500	550	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700

FUTURA 3D 130 Kg ÷ 170 Kg Invisible															
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	170	165	154
1900	130	130	170	170	170	170	170	170	170	170	170	170	170	167	146
1800	130	130	170	170	170	170	170	170	170	170	170	170	170	158	138
1700	130	130	170	170	170	170	170	170	170	170	170	170	160	149	130
1600	130	130	170	170	170	170	170	170	170	170	170	163	150	139	122
1500	130	130	170	170	170	170	170	170	170	165	152	140	130	121	114
1400	130	130	170	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	430	500	550	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700



1	2	3	4	5	6	7	8	9
-	4	170	0	1	4	-	8	1550/1400



FUTURA 3D
170 HP Invisible

04704000
Mech.Traditional
(Cremone)

042060001 T1 R Sec. type 1 - 042060002 T1 L Sec. type 1

042070001 T2 R Sec. type 1 - 042070002 T2 L Sec. type 1

044350001 T1 R Sec. type 2 - 044350002 T1 L Sec. type 2

044360001 T2 R Sec. type 2 - 044360002 T2 L Sec. type 2

042120001 T1 R Sec. type 3 - 042120002 T1 L Sec. type 3

042130001 T2 R Sec. type 3 - 042130002 T2 L Sec. type 3

01033K Prima Cremone
01090K Euro Cremone

04705000
Mech.Traditional
(window handle)

02484 Prima Window
Handle
02460 Master Window
Handle

FUTURA 3D
170 HP Invisible lgc

04706000 Mech. Logica
(Cremone)

042080001 T1 R Sec. type 1 - 042080002 T1 L Sec. type 1

042090001 T2 R Sec. type 1 - 042090002 T2 L Sec. type 1

044370001 T1 R Sec. type 2 - 044370002 T1 L Sec. type 2

044380001 T2 R Sec. type 2 - 044380002 T2 L Sec. type 2

04707000 Mech. Logica
(window handle)

042190001 T1 R Sec. type 3 - 042190002 T1 L Sec. type 3

042200001 T2 R Sec. type 3 - 042200002 T2 L Sec. type 3

01149K Prima Key
Capture Cremone

02486 Prima
Key Logica
Window Handle

GIESSE **TILT AND TURN**

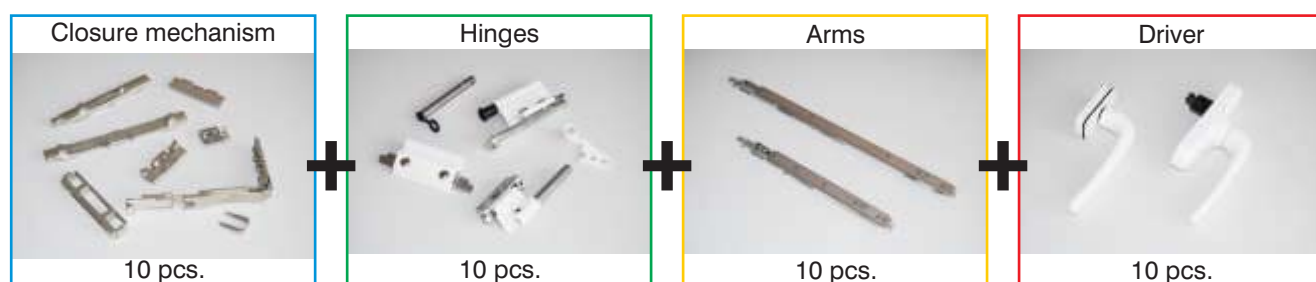
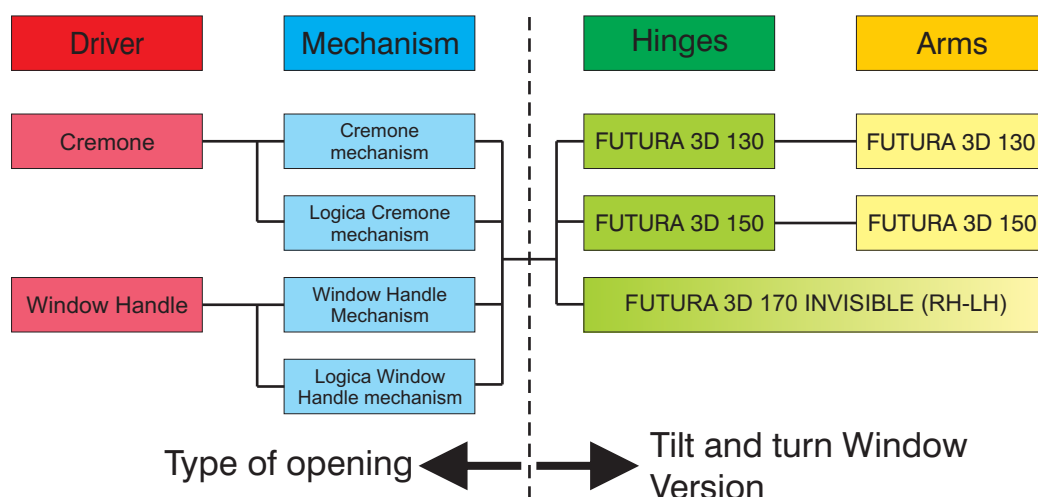
New rational and modular packaging

The entire new FUTURA 3D tilt and turn range is notable for its new, modular, rational packaging, designed specially to meet the needs of distributors and window makers. In fact, the packaging is based on **10 piece units**, the ideal number to keep warehouses free of excess product. Relative to the product itself, the new aspect consists of the division between the hardware and the hinge. To order everything necessary to create a tilt and turn window, the following are necessary: a tilt and turn mechanism, hinge kit, arm, and either a

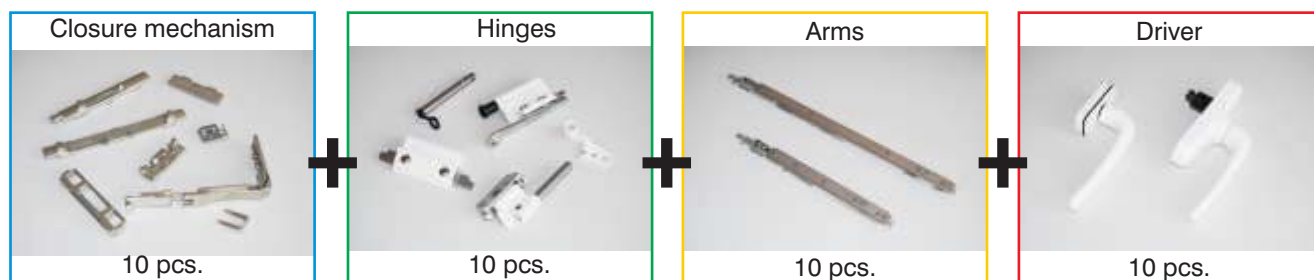
Cremone bolt or window handle. The tilt and turn mechanism is subdivided into either traditional for Cremone bolts (with with cremone driver), traditional for window handle (with movement), logica for Cremone bolts, or

logica for window handle. In this way all the various types are available, eliminating the need, in the case of window handles, to purchase the window handle device separately. Since the hinge kits (130, 150, and 170

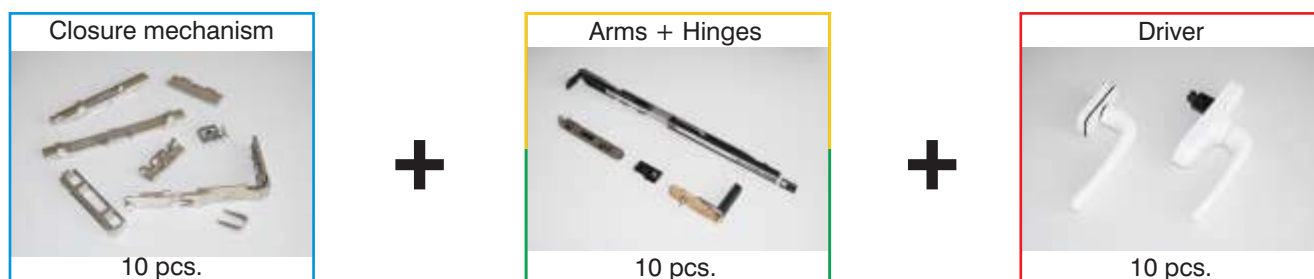
invisible) are constrained by the hardware, warehouse availability for low-rotation items is simplified and accelerated.



FUTURA 3D 130	04704000 Mech.Traditional (Cremone)	04711... Hinges	04200000 Type 1 04284000 Type 1 Microventilation 04201000 Type 2 04285000 Type 2 Microventilation	01033K Prima Cremone 01039 Prima Crem. Microventilation 01090K Euro Cremone 01094 Euro Crem. Microventilation
	04705000 Mech.Traditional (window handle)	04711... Hinges	04200000 Type 1 04284000 Type 1 Microventilation 04201000 Type 2 04285000 Type 2 Microventilation	02484 Prima Window Handle 02460 Master Window Handle
FUTURA 3D 130 _{lgc}	04706000 Mech. logica (Cremone)	04711... Hinges	04202000 Type 1 04203000 Type 2	01149K Prima Key Capture Cremone
	04707000 Mech. logica (window handle)	04711... Hinges	04202000 Type 1 04203000 Type 2	02486 Prima Key Logica Window Handle

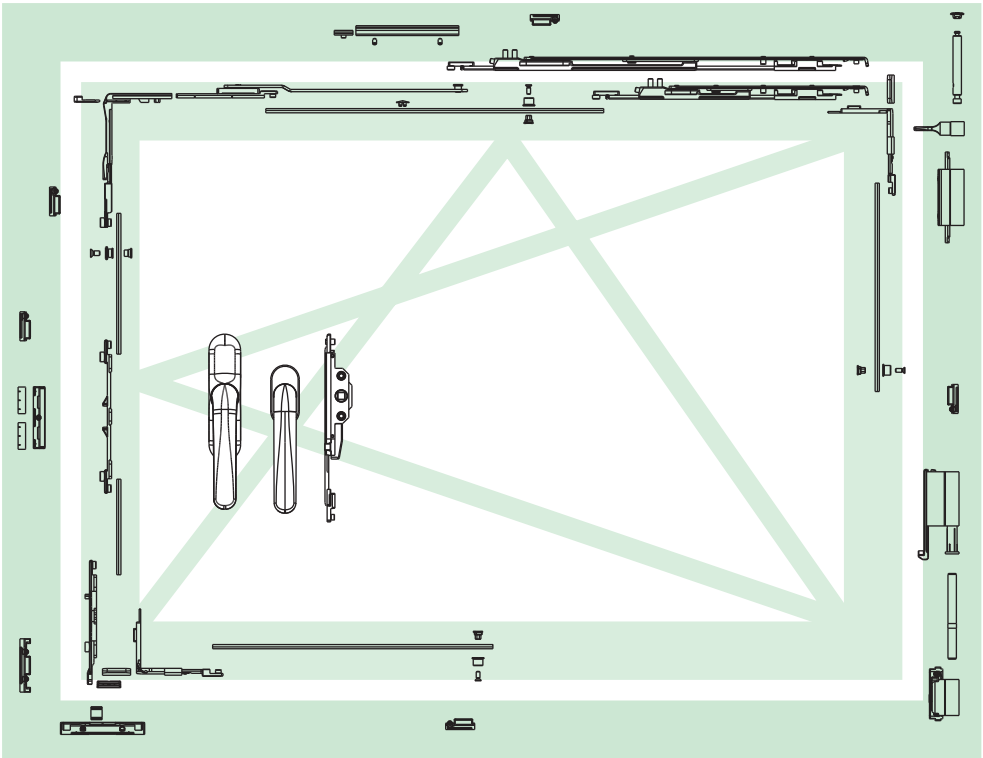


FUTURA 3D 150 HP	04704000 Mech.Traditional (Cremone)	04712... Hinges (section type 1) 04723... Hinges (section type 2)	04204000 Type 1 04205000 Type 2	01033K Cremone Prima 01090K Euro Cremone
	04705000 Mech.Traditional (window handle)	04712... Hinges (section type 1) 04723... Hinges (section type 2)	04204000 Type 1 04205000 Type 2	02484 Prima Window Handle 02460 Master Window Handle
FUTURA 3D 150 HP lgc	04706000 Mech. Logica (Cremone)	04712... Hinges (section type 1) 04723... Hinges (section type 2)	04204000 Type 1 04205000 Type 2	01149K Prima Key Capture Cremone
	04707000 Mech. Logica (window handle)	04712... Hinges (section type 1) 04723... Hinges (section type 2)	04204000 Type 1 04205000 Type 2	02486 Prima Key Logica Window Handle



FUTURA 3D 170 HP Invisible	04704000 Mech.Traditional (Cremone)	042060001 T1 R Sec. type 1 - 042060002 T1 L Sec. type 1 042070001 T2 R Sec. type 1 - 042070002 T2 L Sec. type 1 044350001 T1 R Sec. type 2 - 044350002 T1 L Sec. type 2	01033K Prima Cremone 01090K Euro Cremone
	04705000 Mech.Traditional (window handle)	044360001 T2 R Sec. type 2 - 044360002 T2 L Sec. type 2 042120001 T1 R Sec. type 3 - 042120002 T1 L Sec. type 3 042130001 T2 R Sec. type 3 - 042130002 T2 L Sec. type 3	02484 Prima Window Handle 02460 Master Window Handle
	04706000 Mech. Logica (Cremone)	042080001 T1 R Sec. type 1 - 042080002 T1 L Sec. type 1 042090001 T2 R Sec. type 1 - 042090002 T2 L Sec. type 1 044370001 T1 R Sec. type 2 - 044370002 T1 L Sec. type 2	01149K Prima Key Capture Cremone
FUTURA 3D 170 HP Invisible lgc	04707000 Mech. Logica (window handle)	044380001 T2 R Sec. type 2 - 044380002 T2 L Sec. type 2 042190001 T1 R Sec. type 3 - 042190002 T1 L Sec. type 3 042200001 T2 R Sec. type 3 - 042200002 T2 L Sec. type 3	02486 Prima Key Logica Window Handle

GIESSE TILT AND TURN FUTURA 3D 130



TILT AND TURN CLOSURE MECHANISM	04704
Functions Tilt and turn closure mechanism for Cremone bolts.	
Finish GS Silver Plus	
Package 10 kits	

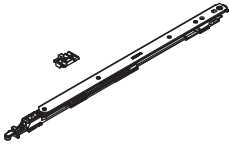
TILT AND TURN CLOSURE MECHANISM WITH M180 MOVEMENT	04705
Functions Tilt and turn closure mechanism with single-direction M180 movement for window handles.	
Finish GS Silver Plus	
Package 10 kits	

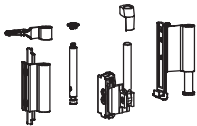
TILT AND TURN LOGICA CLOSURE MECHANISM	04706
Functions Tilt and turn closure mechanism for logica manoeuvre Cremone bolts.	
Finish GS Silver Plus	
Package 10 kits	

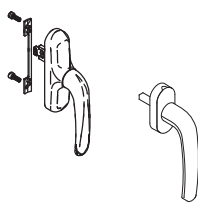
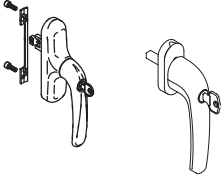
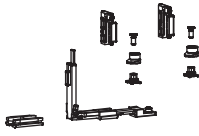
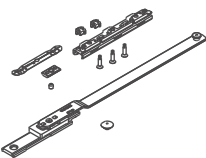
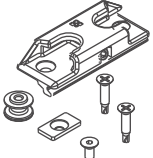
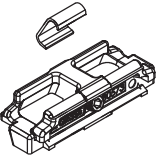
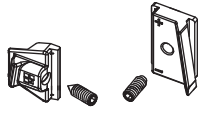
TILT AND TURN LOGICA CLOSURE MECHANISM WITH M180 MOVEMENT	04707
Functions Tilt and turn closure mechanism with single-direction M180 movement for window handles, with logica manoeuvre.	
Finish GS Silver Plus	
Package 10 kits	

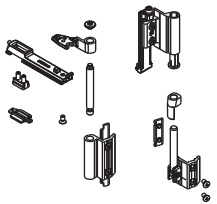
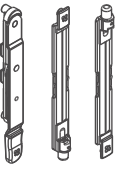
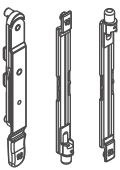
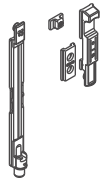
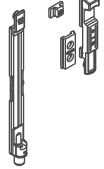
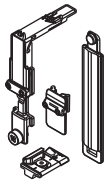
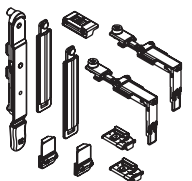
FUTURA 3D 130 ARMS		
Description	Code	
T1 AR FUTURA 3D 130 arm T2 AR FUTURA 3D 130 arm	04200 04201	
Finish GS Silver Plus	Package 10 pieces	

FUTURA 3D 130 LOGICA ARMS		
Description	Code	
T1 AR FUTURA 3D 130 Logica arm T2 AR FUTURA 3D 130 Logica arm	04202 04203	
Finish GS Silver Plus	Package 10 pieces	

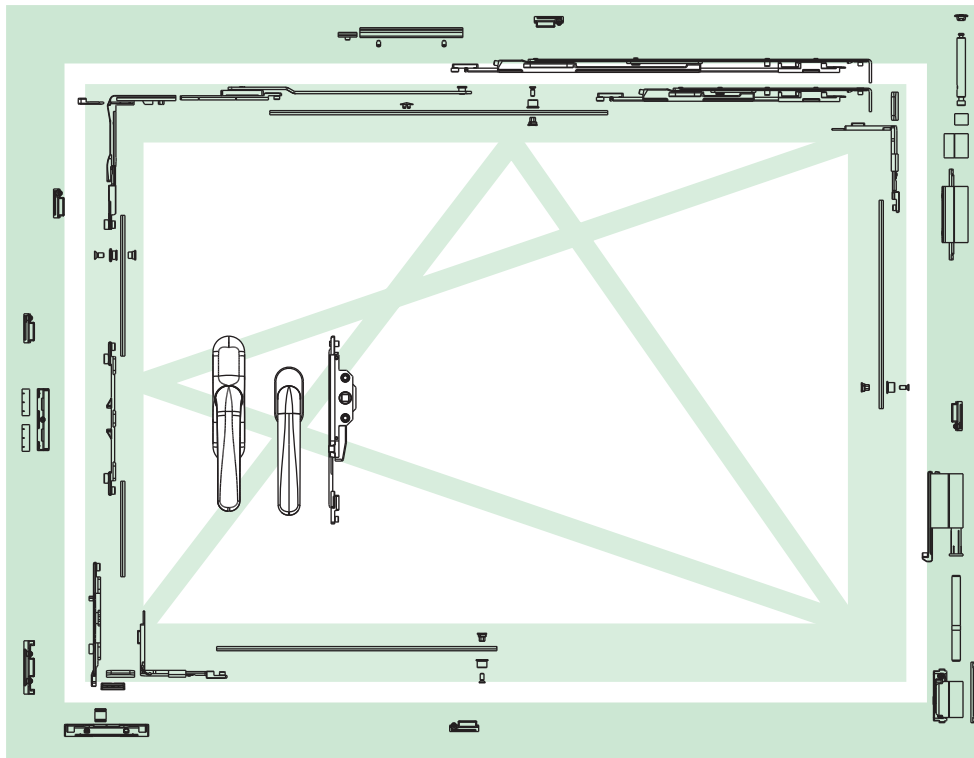
FUTURA 3D 130 MICROVENTILATION ARMS		
Description	Code	
T1 FUTURA 3D 130 Microventilation arm T2 FUTURA 3D 130 Microventilation arm	04284 04285	
Finish GS Silver Plus	Package 10 pieces	

FUTURA 3D 130 HINGES	04711	
Functions Hinges for tilt and turn systems with 130 Kg capacity and 3D adjustment.		
Finish All RAL and TREND Giesse colours		
Package 10 pieces		

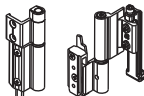
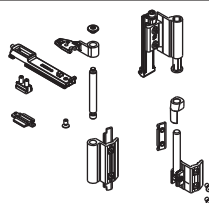
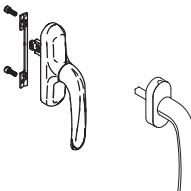
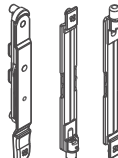
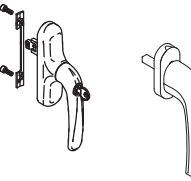
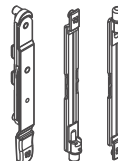
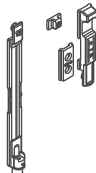
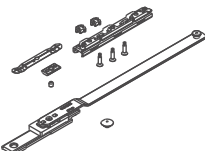
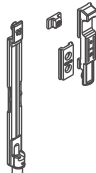
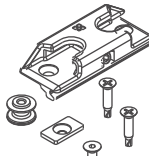
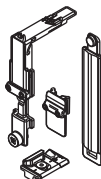
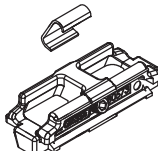
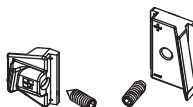
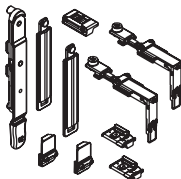
TILT AND TURN DRIVERS													
<table><tr><th>Description</th><th>Code</th></tr><tr><td>Prima 900 Cremone</td><td>01033K</td></tr><tr><td>Euro 900 Cremone</td><td>01090K</td></tr><tr><td>Prima Window handle</td><td>02484</td></tr><tr><td>Master Window handle</td><td>02460*</td></tr></table> Finish All RAL and TREND Giesse colours Package 10 pieces *5 pieces			Description	Code	Prima 900 Cremone	01033K	Euro 900 Cremone	01090K	Prima Window handle	02484	Master Window handle	02460*	
Description	Code												
Prima 900 Cremone	01033K												
Euro 900 Cremone	01090K												
Prima Window handle	02484												
Master Window handle	02460*												
TILT AND TURN MICROVENTILATION DRIVERS													
<table><tr><th>Description</th><th>Code</th></tr><tr><td>Prima Microventilation Cremone</td><td>01039</td></tr><tr><td>Euro Microventilation Cremone</td><td>01094</td></tr></table> Finish All RAL and TREND Giesse colours Package 10 pieces			Description	Code	Prima Microventilation Cremone	01039	Euro Microventilation Cremone	01094					
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Description	Code												
Prima Key brass Cremone	01119K*												
Prima Key capture Cremone	01149K												
Prima Key 900 Cremone	01152K												
Prima Key Window handle	02485*												
Prima Key Logica Window handle	02486*												
SUPPLEMENTARY CLOSURE	04770K												
Functions Kit consisting of an corner transmission and an adjustable striker to be used when a supplementary closure is fitted. Finish GS Silver Plus Package 10 kits													
SUPPLEMENTARY FUTURA ARM	04301K												
Functions Supplementary arm to be combined with type 2 arms on fixtures with widths greater than 1000 mm, which serves to distribute weight. Finish GS Silver Plus Package 5 pieces													
ANTI-BURGLAR DEVICE	04031K												
Functions Kit created for the purposes of increasing the tilt and turn fixture's resistance to burglary attempts, making it more difficult for intruders to enter through the window. Finish GS Silver Plus Package 20 pieces													
SINGLE STRIKER	01348K												
Functions An item created to be applied on the upper part of the frame on two-wing fixtures, used to receive the bolt pins. Finish GS Silver Plus Package 100 pieces													
BURGLAR BOLT	01350K												
Functions The adjustable striker guard allows for the creation of supplementary closure points on any aluminium fixture, making the fixture structure more robust. It can also be installed after the window has been installed. Finish GS Silver Plus Package 50 pieces													

FUTURA 3D 130 SECONDARY SASH HINGES	04715	
Functions Hinge with the same design and adjustments as the hinges for FUTURA 3D 130 tilt and turn windows. Finish All RAL and TREND Giesse colours Package 5 pieces		
BI-DIRECTIONAL BOLT (SECTION TYPE 1)	02191K	
Functions Bidirectional bolt characterized by a manoeuvre which allows both terminals to be closed simultaneously. Finish GS Silver Plus Package 10 pieces		
BI-DIRECTIONAL BOLT (SECTION TYPE 2)	02195K	
Functions Bidirectional bolt characterized by a manoeuvre which allows both terminals to be closed simultaneously. Specifically for Metra profiles. Finish GS Silver Plus Package 10 pieces		
ADJUSTABLE BOLT (SECTION TYPE 1)	02168K	
Functions Bolt for the second wing, characterized by zama terminals which allow compression adjustment of the secondary wing. Finish GS Silver Plus Package 10 pieces		
ADJUSTABLE BOLT (SECTION TYPE 2)	02166K	
Functions Bolt for the second wing, characterized by zama terminals which allow compression adjustment of the secondary wing. Specifically for Metra profiles. Finish GS Silver Plus Package 10 pieces		
ANGULAR BOLT (SECTION TYPE 1)	04045K	
Functions Angular bolt which allows the closure of windows on the upper and lower crossbeams of the frame. To be used with appropriate windows (central profile) with 15-20 mm. double grooves (lower groove). Finish GS Silver Plus Package 10 pieces		
BIDIRECTIONAL LEVER (SECTION TYPE 1)	02189K	
Functions The control lets bidirectional movement be transmitted to the connection rods of secondary sash bolts, with a single manoeuvre for various uses.This is particularly useful for creating bolts for very high windows in which it is difficult to manoeuvre the upper bolt. Finish GS Silver Plus Package 20 pieces		
PERIMETRIC CLOSURE FOR SECONDARY SASH (SECTION TYPE 1)	02186K	
Functions Device which allows for perimeter closure of the appropriate window on the upper and lower crossbeams of the frame. To be used with appropriate windows (central profile) with 15-20 mm. double grooves (lower groove). Finish GS Silver Plus Package 10 pieces		

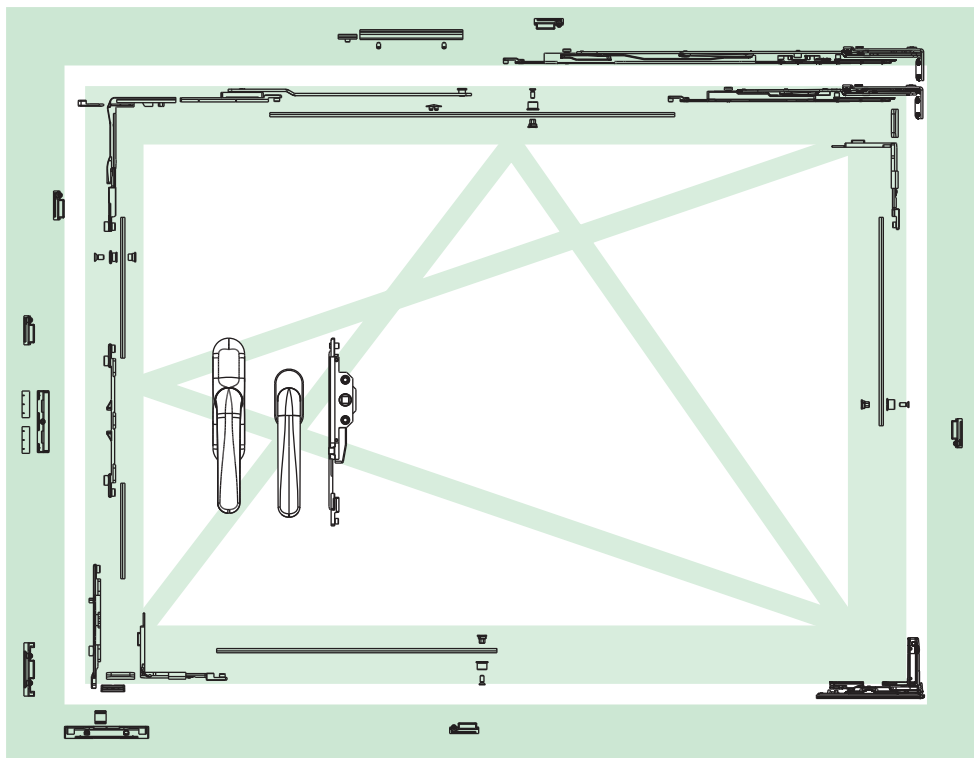
GIESSE **TILT AND TURN** **FUTURA 3D 150 HP**



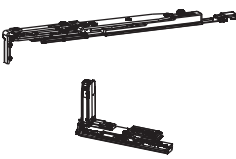
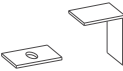
TILT AND TURN CLOSURE MECHANISM	04704	
Functions Tilt and turn closure mechanism for Cremone bolts.		
Finish GS Silver Plus		
Package 10 kits		
TILT AND TURN CLOSURE MECHANISM WITH M180 MOVEMENT	04705	
Functions Tilt and turn closure mechanism with single direction M180 movement for window handles.		
Finish GS Silver Plus		
Package 10 kits		
TILT AND TURN LOGICA CLOSURE MECHANISM	04706	
Functions Tilt and turn closure mechanism for logica manoeuvre Cremone bolts.		
Finish GS Silver Plus		
Package 10 kits		
TILT AND TURN LOGICA CLOSURE MECHANISM WITH M180 MOVEMENT	04707	
Functions Tilt and turn closure mechanism with single direction M180 movement for window handles, with logica manoeuvre.		
Finish GS Silver Plus		
Package 10 kits		
FUTURA 3D 150 HP TYPE 1 ARM	04204	
Functions Arm that allows tilt and turn opening, combined with the 150 Kg. tilt and turn closure mechanism.		
Finish GS Silver Plus		
Package 10 pieces		
FUTURA 3D 150 HP TYPE 2 ARM	04205	
Functions Arm that allows tilt and turn opening, combined with the 150 Kg. tilt and turn closure mechanism.		
Finish GS Silver Plus		
Package 10 pieces		
REINFORCE ELEMENT	04749	
Functions Reinforce element to use with the upper hinges of the FUTURA 3D 150 HP tilt and turn. It is an optional element that not increase the load capacity.		
Finish Base		
Package 10 pieces		
FUTURA 3D 150 HP TEMPLATE	03476	
Functions Template for the machinery of the upper hinges.		
Finish Base		
Package 20 pieces		

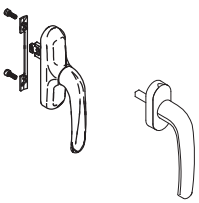
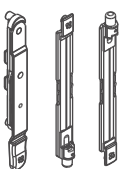
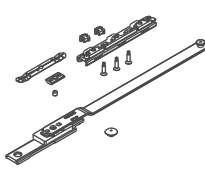
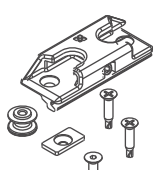
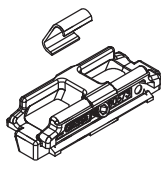
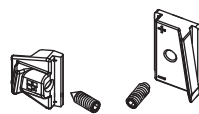
FUTURA 3D 150 HP HINGES			FUTURA 3D 150 HP SECONDARY SASH HINGES												
<table><tr><th>Description</th><th>Code</th></tr><tr><td>FUTURA 3D 150 HP hinges (Sec. Type 1)</td><td>04712</td></tr><tr><td>FUTURA 3D 150 HP hinges (Sec. Type 2)</td><td>04723</td></tr></table> Finish All RAL and TREND Giesse colours Package 10 pieces			Description	Code		FUTURA 3D 150 HP hinges (Sec. Type 1)	04712	FUTURA 3D 150 HP hinges (Sec. Type 2)	04723	<table><tr><th>Description</th><th>Code</th></tr><tr><td>FUTURA 3D 150 HP hinges (Sec. Type 1)</td><td>04716</td></tr><tr><td>FUTURA 3D 150 HP hinges (Sec. Type 2)</td><td>04726</td></tr></table> Finish All RAL and TREND Giesse colours Package 5 pieces		Description	Code	FUTURA 3D 150 HP hinges (Sec. Type 1)	04716
Description	Code														
FUTURA 3D 150 HP hinges (Sec. Type 1)	04712														
FUTURA 3D 150 HP hinges (Sec. Type 2)	04723														
Description	Code														
FUTURA 3D 150 HP hinges (Sec. Type 1)	04716														
FUTURA 3D 150 HP hinges (Sec. Type 2)	04726														
TILT AND TURN DRIVERS			BI-DIRECTIONAL BOLT (SECTION TYPE 1)		02191K										
<table><tr><th>Description</th><th>Code</th></tr><tr><td>Prima 900 Cremone</td><td>01033K</td></tr><tr><td>Euro 900 Cremone</td><td>01090K</td></tr><tr><td>Prima Window handle</td><td>02484</td></tr><tr><td>Master Window handle</td><td>02460*</td></tr></table> Finish All RAL and TREND Giesse colours Package 10 pieces *5 pieces			Description	Code	Prima 900 Cremone		01033K	Euro 900 Cremone	01090K	Prima Window handle	02484	Master Window handle	02460*	Functions Bidirectional bolt characterized by a manoeuvre which allows both terminals to be closed simultaneously. Finish GS Silver Plus Package 10 pieces	
Description	Code														
Prima 900 Cremone	01033K														
Euro 900 Cremone	01090K														
Prima Window handle	02484														
Master Window handle	02460*														
TILT AND TURN KEY DRIVERS			BI-DIRECTIONAL BOLT (SECTION TYPE 2)		02195K										
<table><tr><th>Description</th><th>Code</th></tr><tr><td>Prima Key brass Cremone</td><td>01119K*</td></tr><tr><td>Prima Key capture Cremone</td><td>01149K</td></tr><tr><td>Prima Key 900 Cremone</td><td>01152K</td></tr><tr><td>Prima Key Window handle</td><td>02485*</td></tr><tr><td>Prima Key Logica Window handle</td><td>02486*</td></tr></table> Finitura Tutti i colori RAL e TREND Giesse Package 10 pieces *5 pieces			Description	Code	Prima Key brass Cremone		01119K*	Prima Key capture Cremone	01149K	Prima Key 900 Cremone	01152K	Prima Key Window handle	02485*	Prima Key Logica Window handle	02486*
Description	Code														
Prima Key brass Cremone	01119K*														
Prima Key capture Cremone	01149K														
Prima Key 900 Cremone	01152K														
Prima Key Window handle	02485*														
Prima Key Logica Window handle	02486*														
SUPPLEMENTARY CLOSURE			ADJUSTABLE BOLT (SECTION TYPE 1)		02168K										
Functions Kit consisting of an corner transmission and an adjustable striker to be used when a supplementary closure is fitted. Finish GS Silver Plus Package 10 kits			Functions Bolt for the second wing, characterized by zama terminals which allow compression adjustment of the base of the secondary wing. Finish GS Silver Plus Package 10 pieces												
SUPPLEMENTARY FUTURA ARM			ADJUSTABLE BOLT (SECTION TYPE 2)		02166K										
Functions Supplementary arm to be combined with type 2 arms on fixtures with widths greater than 1000 mm, which serves to distribute the force used to open the window during tilt opening. Finish GS Silver Plus Package 5 pieces			Functions Bolt for the second wing, characterized by zama terminals which allow compression adjustment of the secondary wing. Specifically for Metra profiles. Finish GS Silver Plus Package 10 pieces												
ANTI-BURGLAR DEVICE			ANGULAR BOLT (SECTION TYPE 1)		04045K										
Functions Kit created for the purposes of increasing the tilt and turn fixture's resistance to burglary attempts, making it more difficult for intruders to enter through the window. Finish GS Silver Plus Package 20 pieces			Functions Angular bolt which allows the closure of windows on the upper and lower crossbeams of the frame. To be used with tilt-and-turn secondary sashes with central profile with 15-20 mm. double grooves (lower groove). Finish GS Silver Plus Package 10 pieces												
SINGLE STRIKER			BIDIRECTIONAL LEVER (SECTION TYPE 1)		02189K										
Functions An item created to be applied on the upper part of the frame on two-wing fixtures, used to receive the bolt pins. Finish GS Silver Plus Package 100 pieces			Functions The control lets bidirectional movement be transmitted to the bar of a shuttered window, with a single manoeuvre for various uses. This is particularly useful for creating bolts for very high windows in which it is difficult to manoeuvre the upper bolt. Finish GS Silver Plus Package 20 pieces												
BURGLAR BOLT			PERIMETRIC CLOSURE FOR SECONDARY SASH (SECTION TYPE 1)		02186K										
Functions The adjustable striker guard allows for the creation of supplementary closure points on any aluminium fixture, making the fixture structure more robust. It can also be installed after the window has been installed assemblato. Finish GS Silver Plus Package 50 pieces			Functions Device which allows for perimeter closure of the appropriate window on the upper and lower crossbeams of the frame. To be used with tilt-and-turn secondary sashes with central profile with 15-20 mm. double grooves (lower groove). Finish GS Silver Plus Package 10 pieces												

GIESSE **TILT AND TURN** **FUTURA 3D 170 HP Invisible**



TILT AND TURN CLOSURE MECHANISM Functions Tilt and turn closure mechanism for Cremone bolts. Finish GS Silver Plus Package 10 kits	04704	
TILT AND TURN CLOSURE MECHANISM WITH M180 MOVEMENT Functions Tilt and turn closure mechanism with single-direction M180 movement for window handles. Finish GS Silver Plus Package 10 kits	04705	
TILT AND TURN LOGICA CLOSURE MECHANISM Functions Tilt and turn closure mechanism for logica manoeuvre Cremone bolts. Finish GS Silver Plus Package 10 kits	04706	
TILT AND TURN LOGICA CLOSURE MECHANISM WITH M180 MOVEMENT Functions Tilt and turn closure mechanism with single direction M180 movement for window handles, with logica manoeuvre. Finish GS Silver Plus Package 10 kits	04707	

FUTURA 3D 170 HP INVISIBLE ARM AND HINGES																											
<table><tr><th>Description</th><th>Sec. Type</th><th>Code</th></tr><tr><td>Set with type 1 arm and R/L hinges</td><td>Sec. Type 1</td><td>04206 1/2</td></tr><tr><td>Set with type 2 arm and R/L hinges</td><td>Sec. Type 1</td><td>04207 1/2</td></tr><tr><td>Set with type 1 arm and R/L hinges</td><td>Sec. Type 3</td><td>04212 1/2</td></tr><tr><td>Set with type 2 arm and R/L hinges</td><td>Sec. Type 3</td><td>04213 1/2</td></tr><tr><td>Set with type 1 arm and R/L hinges</td><td>Sec. Type 2</td><td>04235 1/2</td></tr><tr><td>Set with type 2 arm and R/L hinges</td><td>Sec. Type 2</td><td>04236 1/2</td></tr></table>	Description	Sec. Type		Code	Set with type 1 arm and R/L hinges	Sec. Type 1	04206 1/2	Set with type 2 arm and R/L hinges	Sec. Type 1	04207 1/2	Set with type 1 arm and R/L hinges	Sec. Type 3	04212 1/2	Set with type 2 arm and R/L hinges	Sec. Type 3	04213 1/2	Set with type 1 arm and R/L hinges	Sec. Type 2	04235 1/2	Set with type 2 arm and R/L hinges	Sec. Type 2	04236 1/2	<table><tr><th>Finish</th><th>Package</th></tr><tr><td>GS Silver Plus</td><td>5 pieces</td></tr></table>	Finish	Package	GS Silver Plus	5 pieces
Description	Sec. Type	Code																									
Set with type 1 arm and R/L hinges	Sec. Type 1	04206 1/2																									
Set with type 2 arm and R/L hinges	Sec. Type 1	04207 1/2																									
Set with type 1 arm and R/L hinges	Sec. Type 3	04212 1/2																									
Set with type 2 arm and R/L hinges	Sec. Type 3	04213 1/2																									
Set with type 1 arm and R/L hinges	Sec. Type 2	04235 1/2																									
Set with type 2 arm and R/L hinges	Sec. Type 2	04236 1/2																									
Finish	Package																										
GS Silver Plus	5 pieces																										
FUTURA 3D 170 HP INVISIBLE LOGICA ARM AND HINGES																											
<table><tr><th>Description</th><th>Sec. Type</th><th>Code</th></tr><tr><td>Set with type 1 arm and R/L hinges</td><td>Sec. Type 1</td><td>04208 1/2</td></tr><tr><td>Set with type 2 arm and R/L hinges</td><td>Sec. Type 1</td><td>04209 1/2</td></tr><tr><td>Set with type 1 arm and R/L hinges</td><td>Sec. Type 3</td><td>04219 1/2</td></tr><tr><td>Set with type 2 arm and R/L hinges</td><td>Sec. Type 3</td><td>04220 1/2</td></tr><tr><td>Set with type 1 arm and R/L hinges</td><td>Sec. Type 2</td><td>04237 1/2</td></tr><tr><td>Set with type 2 arm and R/L hinges</td><td>Sec. Type 2</td><td>04238 1/2</td></tr></table>	Description	Sec. Type		Code	Set with type 1 arm and R/L hinges	Sec. Type 1	04208 1/2	Set with type 2 arm and R/L hinges	Sec. Type 1	04209 1/2	Set with type 1 arm and R/L hinges	Sec. Type 3	04219 1/2	Set with type 2 arm and R/L hinges	Sec. Type 3	04220 1/2	Set with type 1 arm and R/L hinges	Sec. Type 2	04237 1/2	Set with type 2 arm and R/L hinges	Sec. Type 2	04238 1/2	<table><tr><th>Finish</th><th>Package</th></tr><tr><td>GS Silver Plus</td><td>5 pieces</td></tr></table>	Finish	Package	GS Silver Plus	5 pieces
Description	Sec. Type	Code																									
Set with type 1 arm and R/L hinges	Sec. Type 1	04208 1/2																									
Set with type 2 arm and R/L hinges	Sec. Type 1	04209 1/2																									
Set with type 1 arm and R/L hinges	Sec. Type 3	04219 1/2																									
Set with type 2 arm and R/L hinges	Sec. Type 3	04220 1/2																									
Set with type 1 arm and R/L hinges	Sec. Type 2	04237 1/2																									
Set with type 2 arm and R/L hinges	Sec. Type 2	04238 1/2																									
Finish	Package																										
GS Silver Plus	5 pieces																										
THICKNESS KIT																											
<table><tr><th>Description</th><th>Code</th></tr><tr><td>Thickness kit 1,5 mm</td><td>04406</td></tr><tr><td>Thickness kit 2 mm</td><td>04407</td></tr></table>	Description	Code		Thickness kit 1,5 mm	04406	Thickness kit 2 mm	04407																				
Description	Code																										
Thickness kit 1,5 mm	04406																										
Thickness kit 2 mm	04407																										
130÷170 KG REINFORCE SET																											
<table><tr><th>Description</th><th>Sec. Type</th><th>Code</th></tr><tr><td>130÷170 Kg reinforce set</td><td>Sec. Type 1 - 2</td><td>04409</td></tr><tr><td>130÷170 Kg reinforce set</td><td>Sec. Type 3</td><td>04411</td></tr></table>	Description	Sec. Type		Code	130÷170 Kg reinforce set	Sec. Type 1 - 2	04409	130÷170 Kg reinforce set	Sec. Type 3	04411																	
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130÷170 KG REINFORCE SET																											
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Description	Sec. Type	Code																									
130÷170 Kg reinforce set	Sec. Type 1 - 2	04409																									
130÷170 Kg reinforce set	Sec. Type 3	04411																									

FUTURA 3D 170 HP INVISIBLE SECONDARY SASH HINGES				VERTICAL ADDITIONAL CLOSING CORNER DRIVE		04012	
Description		Sec. Type		Code	Functions Secondary corner drive to use with the arm for vertical additional closing points.		
FUTURA 3D 170 HP Invisible R/L secondary sash hinges		Sec. type 1		04400 1/2			
FUTURA 3D 170 HP Invisible R/L secondary sash hinges		Sec. type 3		04401 1/2			
FUTURA 3D 170 HP Invisible R/L secondary sash hinges		Sec. type 2	04404 1/2	Finish GS Silver Plus			
Finish		Package					
GS Silver Plus		10 pieces					
TILT AND TURN DRIVERS				BI-DIRECTIONAL BOLT (SECTION TYPE 1)		02191K	
Description		Code		Functions Bidirectional bolt characterized by a manoeuvre which allows both terminals to be closed simultaneously.			
Prima 900 Cremone		01033K					
Euro 900 Cremone		01090K					
Prima Window handle		02484	Finish GS Silver Plus				
Master Window handle		02460*					
Finish		Package					
All RAL and TREND Giesse colours		10 pieces *5 pieces	Package 10 pieces				
TILT AND TURN KEY DRIVERS							
Description		Code			Functions Bidirectional bolt characterized by a manoeuvre which allows both terminals to be closed simultaneously. Specifically for Metra profiles.		
Prima Key brass Cremone		01119K*					
Prima Key capture Cremone		01149K					
Prima Key 900 Cremone		01152K	Finish GS Silver Plus				
Prima Key Window handle		02485*					
Prima Key Logica Window handle		02486*					
Finitura		Package	Package 10 pieces				
Tutti i colori RAL e TREND Giesse		10 pieces *5 pieces					
SUPPLEMENTARY CLOSURE					04770K		
Functions			Functions Bolt for the second wing, characterized by zama terminals which allow compression adjustment of the base of the secondary wing.				
Kit consisting of an angle transmission and an adjustable striker to be used when a supplementary closure is fitted.							
Finitura							
GS Silver Plus			Package 10 pieces				
Package							
10 kit							
SUPPLEMENTARY FUTURA ARM			04301K				
Functions			Functions Bolt for the second wing, characterized by zama terminals which allow compression adjustment of the base of the secondary wing. Specifically for Metra profiles.				
Supplementary arm to be combined with type 2 arms on fixtures with widths greater than 1000 mm, which serves to distribute weight.							
Finitura							
GS Silver Plus			Package 10 pieces				
Package							
5 pieces							
ANTI-BURGLAR DEVICE			04031K				
Functions			Functions Angular bolt which allows the closure of windows on the upper and lower crosspieces of the frame. To be used with appropriate windows (capacity profile) with 15-20 mm. double grooves (lower groove).				
Kit created for the purposes of increasing the tilt-and-turn fixture's resistance to burglary attempts, making it more difficult for intruders to enter through the window.							
Finish							
GS Silver Plus			Package 10 pieces				
Package							
20 pieces							
SINGLE STRIKER			01348K				
Functions			Functions The control lets bidirectional movement be transmitted to the bar of a shuttered window, with a single manoeuvre for various uses. This is particularly useful for creating bolts for very high windows in which it is difficult to manoeuvre the upper bolt.				
An item created to be applied on the upper part of the frame on two-wing fixtures, used to receive the bolt pins.							
Finish							
GS Silver Plus			Package 20 pieces				
Package							
100 pieces							
BURGLAR BOLT			01350K				
Functions			Functions Device which allows for perimeter closure of the appropriate window on the upper and lower crosspieces of the frame. To be used with appropriate windows (capacity profile) with 15-20 mm double grooves (lower groove).				
The adjustable striker guard allows for the creation of supplementary closure points on any aluminium fixture, making the fixture structure more robust. It can also be installed after the window has been installed.							
Finish							
GS Silver Plus			Package 10 pieces				
Package							
50 pieces							

