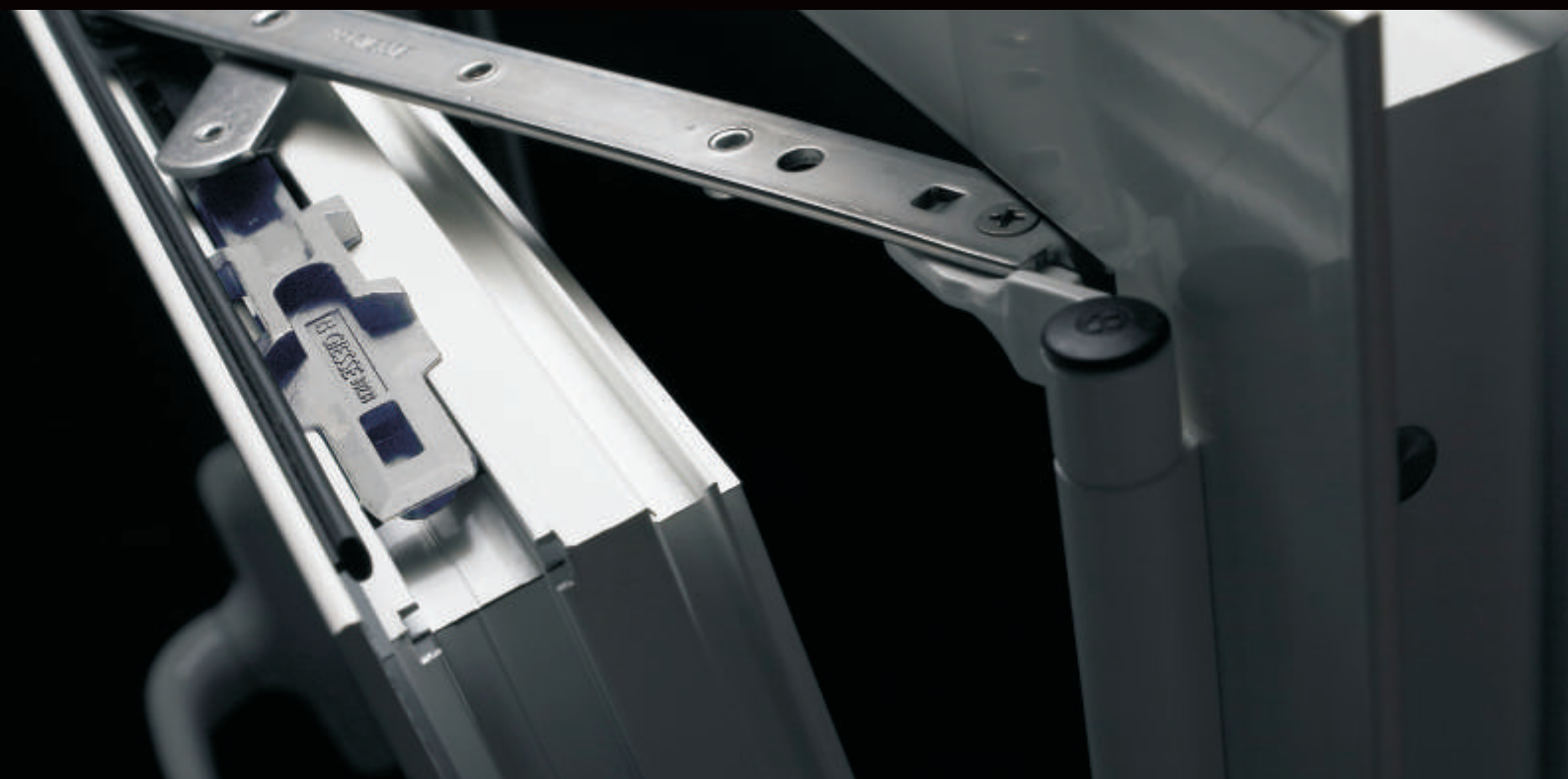


# GIESSE **TILT AND TURN**

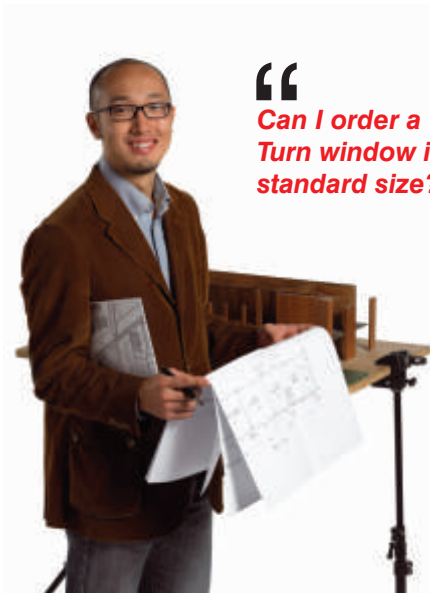
The most popular, comprehensive system of tilt-and-turn fittings



# 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**

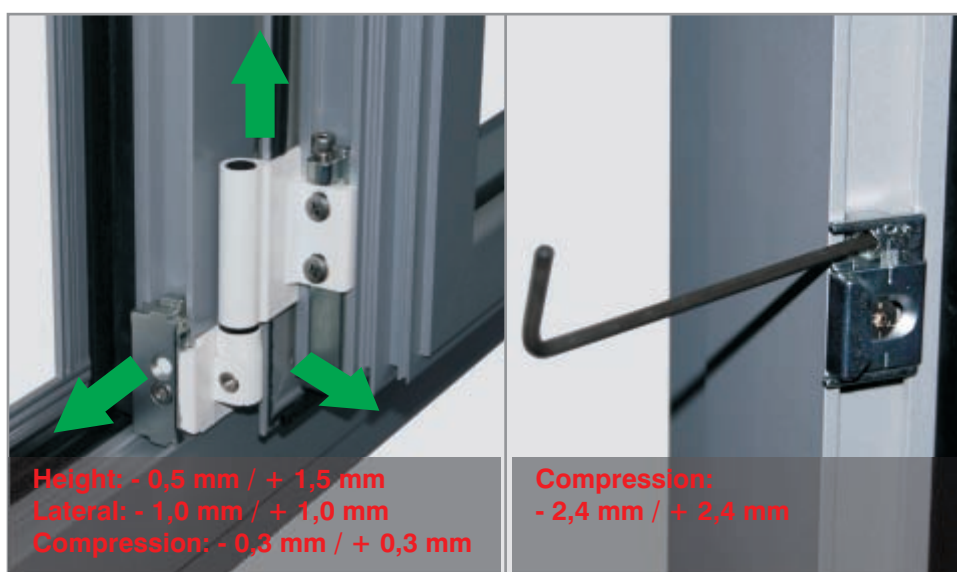
**FUTURA 3D**  
**170 HP Invisible**

**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  $\pm 1$  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

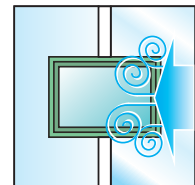
critical areas -- increasing the safety and performance of the window, essential characteristics for obtaining a **high grade of CE certification.**



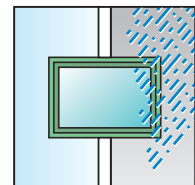
### Increased performance

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.**

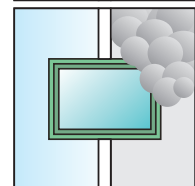
- **Wind resistance**  
(EN 12210; E 12211)



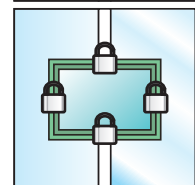
- **Water tightness**  
(EN 12208; EN 1027)



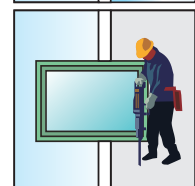
- **Air permeability**  
(EN 12207; EN 1026)



- **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.



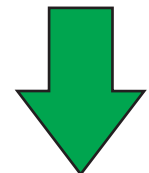
### materials

**Zamak  
Steel  
Aluminium**



### treatments

**GS Silver Plus  
Oxidation  
Painting**



### results

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



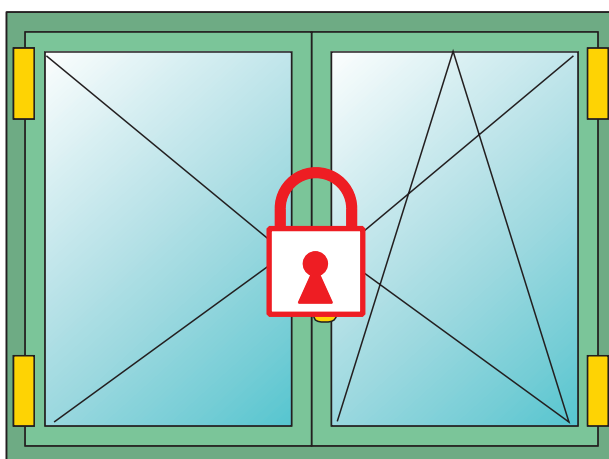
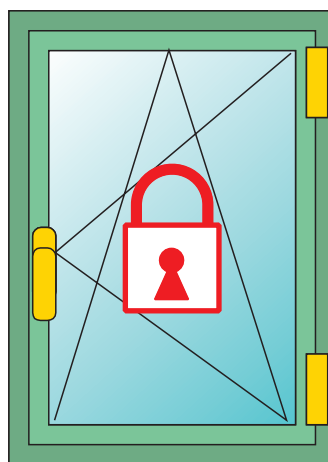
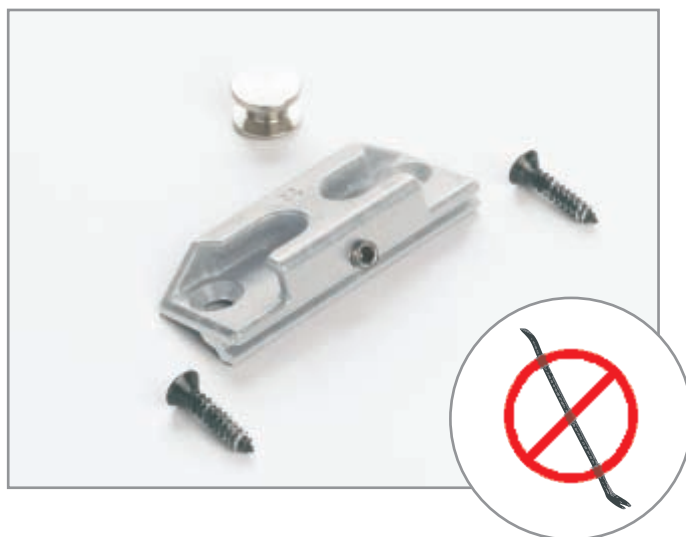
# GIESSE TILT AND TURN

## 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**



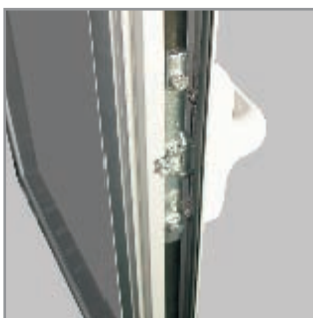
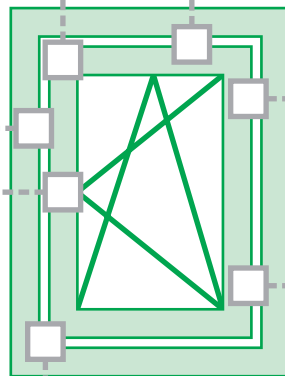
**ARM**



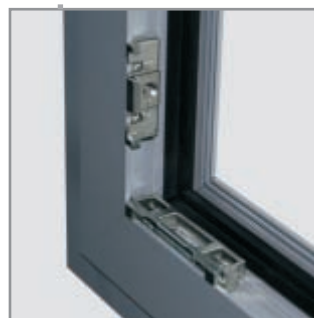
**UPPER HINGE UNIT**



**CLOSURE STRIKER**



**CREMONES OR WINDOW HANDLES**

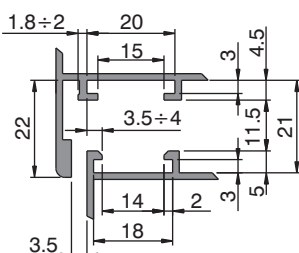


**DOUBLE STRIKER ANTI-LIFTING**

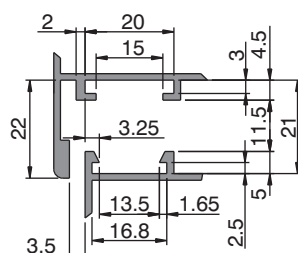


**LOWER HINGE UNIT**

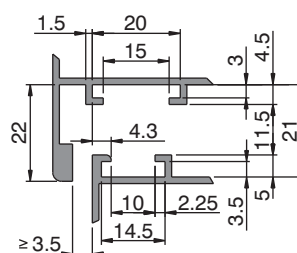
**SECTION TYPE 1**



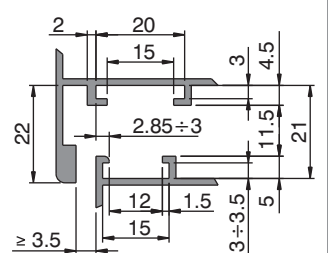
**SECTION TYPE 2**



**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	16	
1100	50	50	50	50	50	46	38	32	27	24	21	18	16	
1000	50	50	50	50	50	46	38	32	27	24	21	18	16	
900	50	50	50	50	50	46	38	32	27	24	21	18	16	
800	50	50	50	50	50	46	38	32	27	24	21	18	16	
700	50	50	50	50	50	46	38	32	27	24	21	18	16	
600	50	50	50	50	50	46	38	32	27	24	21	18	16	
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.

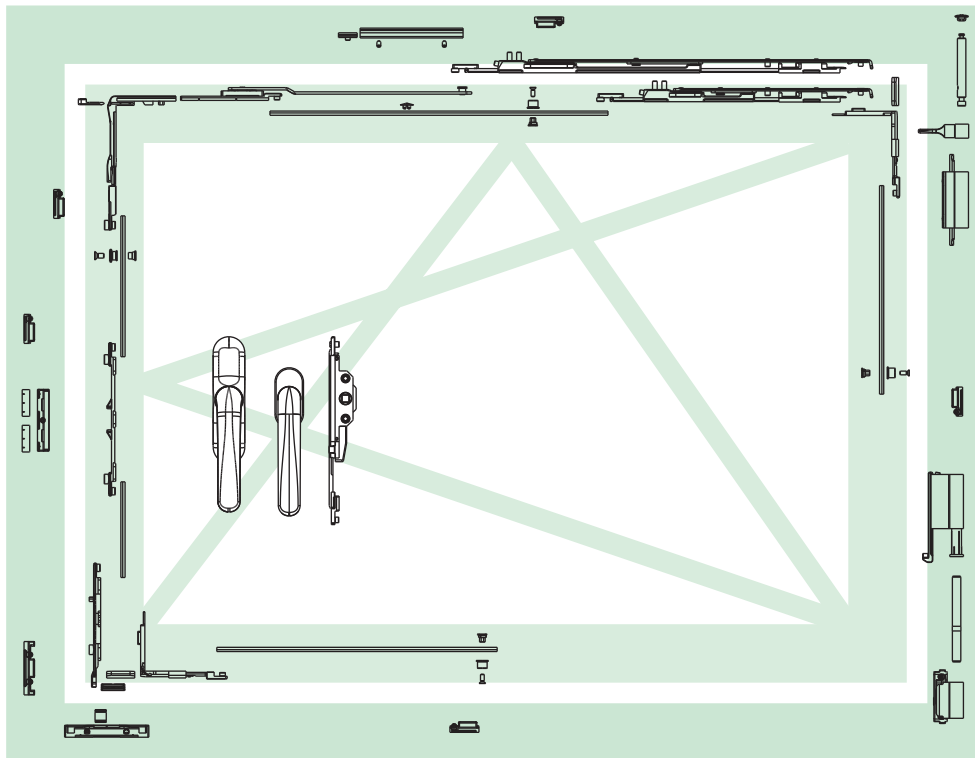
**1500 x 900 sash**  
Maximum glass thickness, 41 mm – equivalent to a sash with a maximum weight of 140 Kg.

**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	140
2300	140	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	140
2100	140	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	140
1900	140	140	140	140	140	140	140	140	140	140	140	140	139	138
1800	140	140	140	140	140	140	140	140	140	140	140	140	133	125
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	111
1500	140	140	140	140	140	140	140	140	137	127	118	111	104	104
1400	140	140	140	140	140	140	140	138	127	118	110	104	97	97
1300	140	140	140	140	140	140	128	118	110	103	96	96	96	96
1200	140	140	140	140	140	140	129	118	109	101	95	95	95	95
1100	140	140	140	140	140	130	118	108	100	93	93	93	93	93
1000	140	140	140	140	140	131	118	108	99	91	91	91	91	91
900	140	140	140	133	118	106	97	89	89	89	89	89	89	89
800	140	140	135	118	105	95	86	86	86	86	86	86	86	86
700	140	138	118	104	92	83	83	83	83	83	83	83	83	83
600	140	138	118	104	92	83	83	83	83	83	83	83	83	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



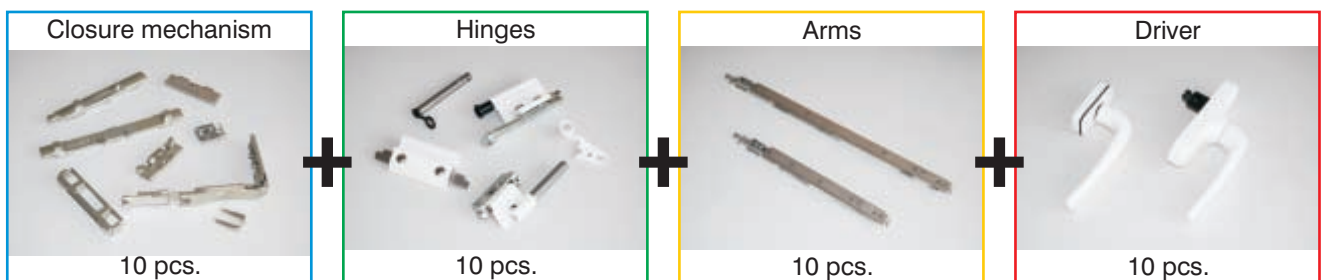
**New dynamic packaging**

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	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 <sub>lgc</sub>	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 Giese 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**

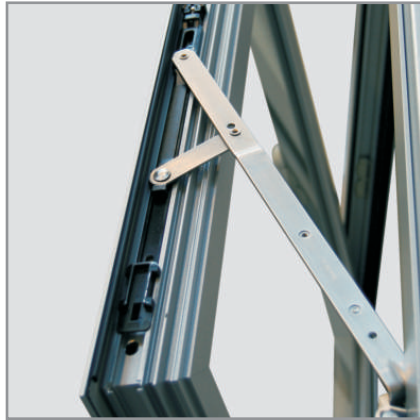
## **FUTURA 3D 150 HP**

**FUTURA 3D**  
**150 HP**

**FUTURA 3D**  
**150 HP** *lgc*



**CORNER TRANSMISSION**



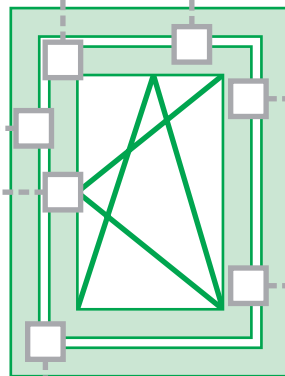
**ARM**



**UPPER HINGE UNIT**



**CLOSURE STRIKER**



**CREMONE BOLTS OR WINDOW HANDLES**

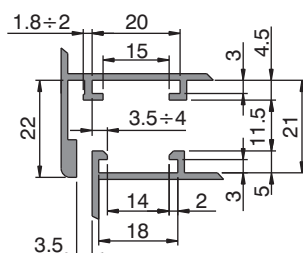


**DOUBLE ANTI-LIFTING STRIKER**

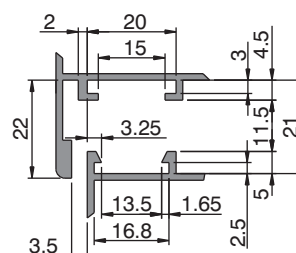


**LOWER HINGE UNIT**

**SECTION TYPE 1**



**SECTION TYPE 2**



# ANTA RIBALTA GIESSE

## FUTURA 3D 150 HP

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	55	45	38	32					
900	60	60	60	60	55	45	38						
800	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.

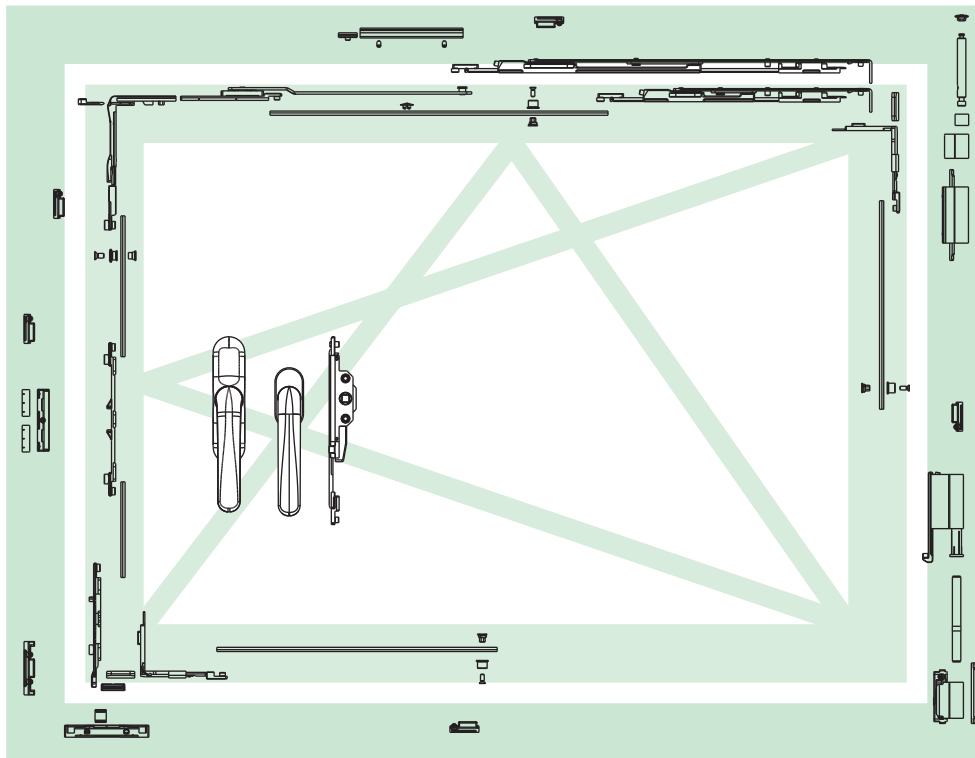
**1400 x 800 fixture**  
Maximum glass thickness, 55 mm – equivalent to a fixture with a maximum weight of 156 Kg.

**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	150	148	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



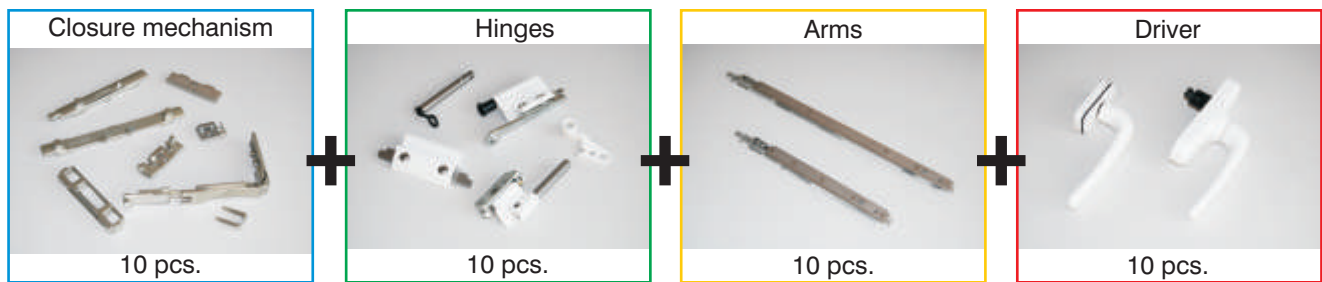
**New dynamic packaging**

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

response to the requests made by those who create fixtures with glass 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 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 <sub>lgc</sub>	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**

Giessere 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 Cremona 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**



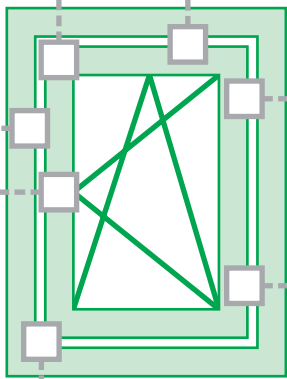
**ARM**



**UPPER HINGE UNIT**



**CLOSURE STRIKER**



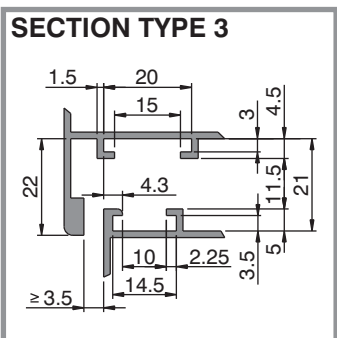
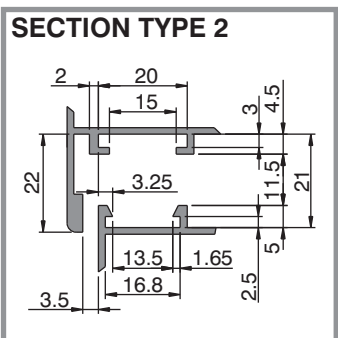
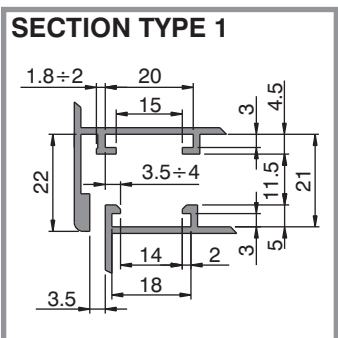
**CREMONE BOLTS OR WINDOW HANDLES**



**DOUBLE ANTI-LIFTING STRIKER**



**LOWER HINGE UNIT**



# 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**

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									
600	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									
600	430	500	550	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700



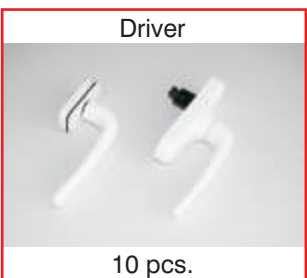
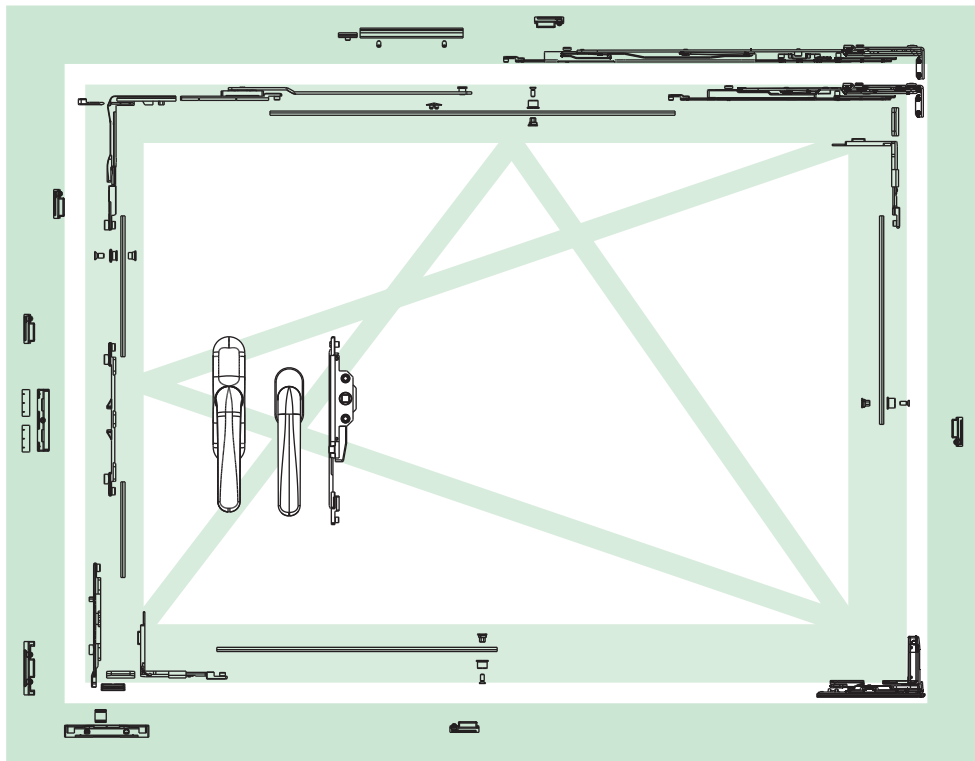
**Maximum load-bearing capacity table**

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	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

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	170	167	156	146	
1800	130	130	170	170	170	170	170	170	170	170	170	170	158	147	138	
1700	130	130	170	170	170	170	170	170	170	170	170	170	160	149	139	130
1600	130	130	170	170	170	170	170	170	170	170	170	170	163	150	139	122
1500	130	130	170	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	170	156	142	130	120	111	104		
1200	130	130	170	170	170	170	170	159	143	130	119	110	102			
1100	130	130	170	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	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

**FUTURA 3D**  
170 HP Invisible IGC

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
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

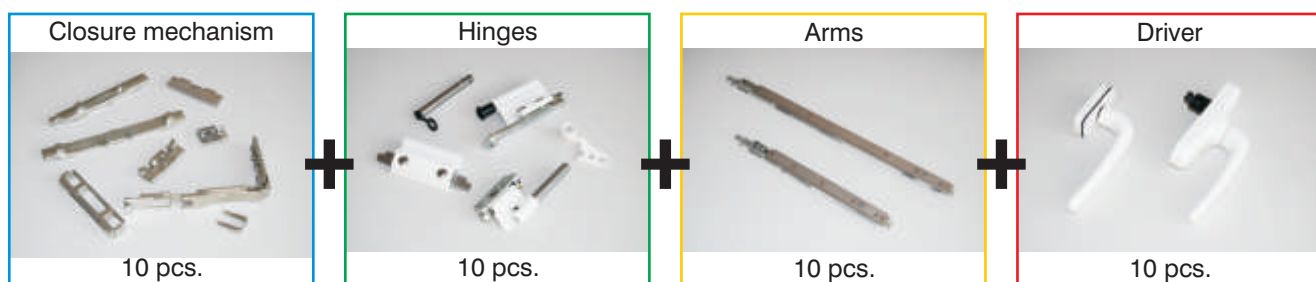
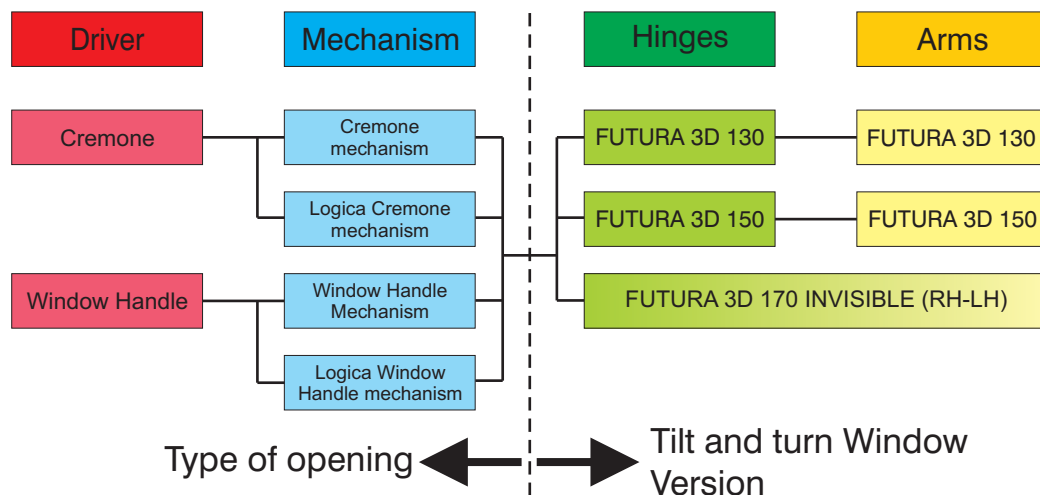
## New rational and modular packaging

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

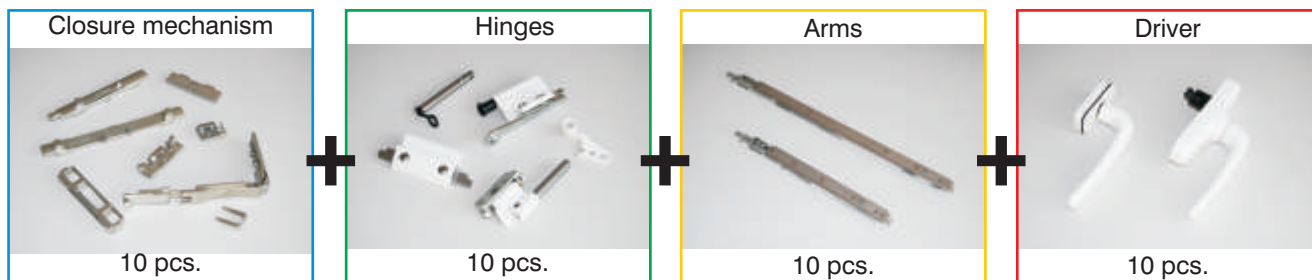
logica for window handle. In this way all the various types are available, eliminating the need, in the case of window handles, to purchase the window handle device separately. Since the hinge kits (130, 150, and 170

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



	Closure mechanism	Hinges	Arms	Driver
<b>FUTURA 3D 130</b>	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
<b>FUTURA 3D 130<sub>lgc</sub></b>	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





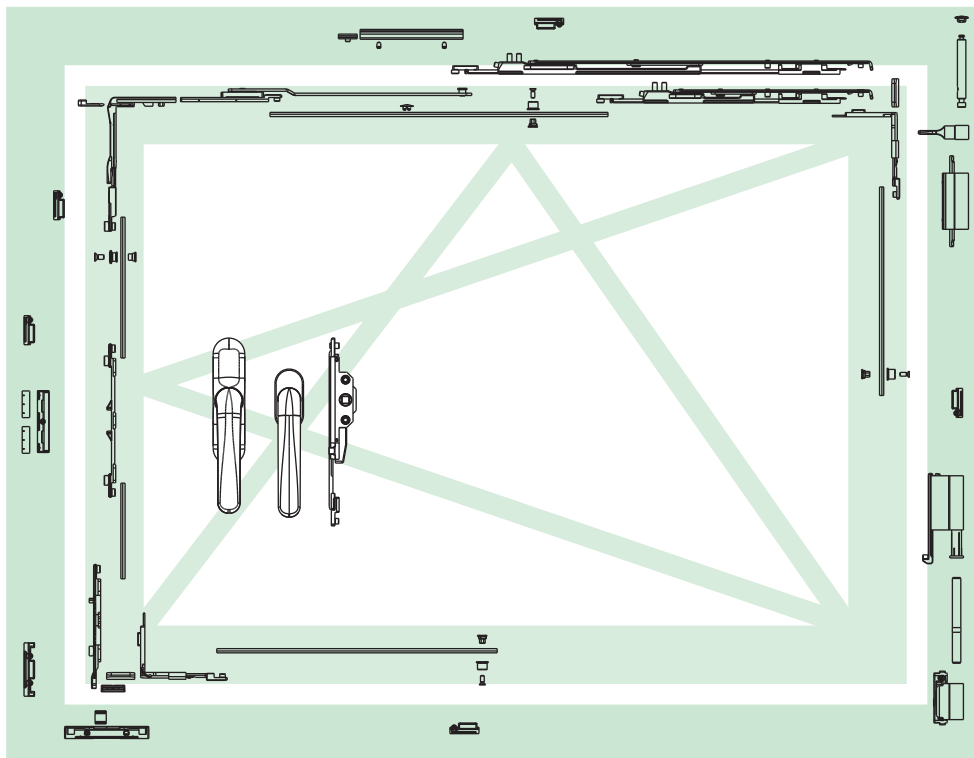
<b>FUTURA 3D</b> 150 HP	04704000 Mech.Traditional (Cremone)	04712... Hinges (section type 1) 04723... Hinges (section type 2)	04204000 Type 1 04205000 Type 2	01033K Cremone Prima 01090K Euro Cremone
	04705000 Mech.Traditional (window handle)	04712... Hinges (section type 1) 04723... Hinges (section type 2)	04204000 Type 1 04205000 Type 2	02484 Prima Window Handle 02460 Master Window Handle
<b>FUTURA 3D</b> 150 HP <sup>lgc</sup>	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



<b>FUTURA 3D</b> 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
<b>FUTURA 3D</b> 170 HP Invisible <sup>lgc</sup>	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	01149K Prima Key Capture Cremone
	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	02486 Prima Key Logica Window Handle

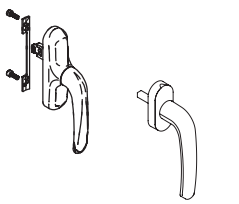
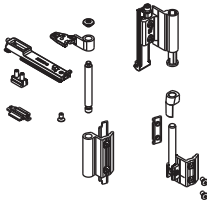
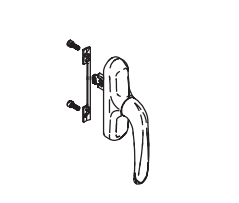
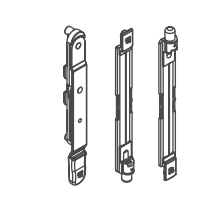
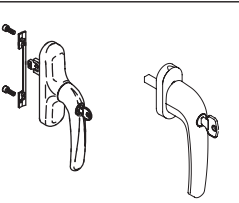
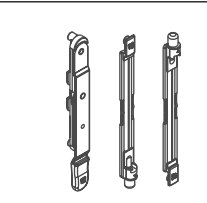
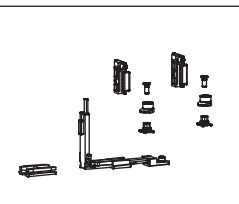
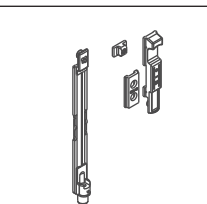
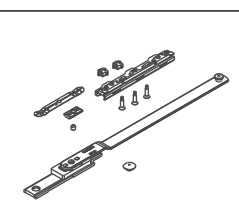
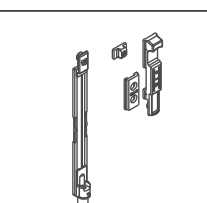
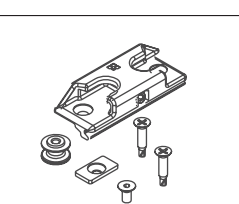
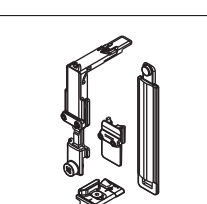
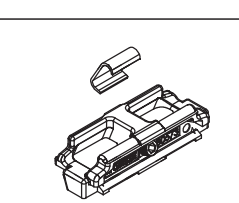
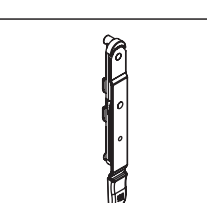
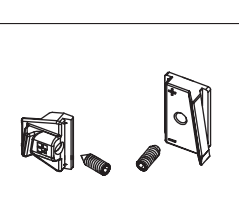
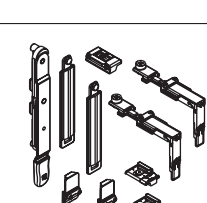
# GIESSE TILT AND TURN

## FUTURA 3D 130



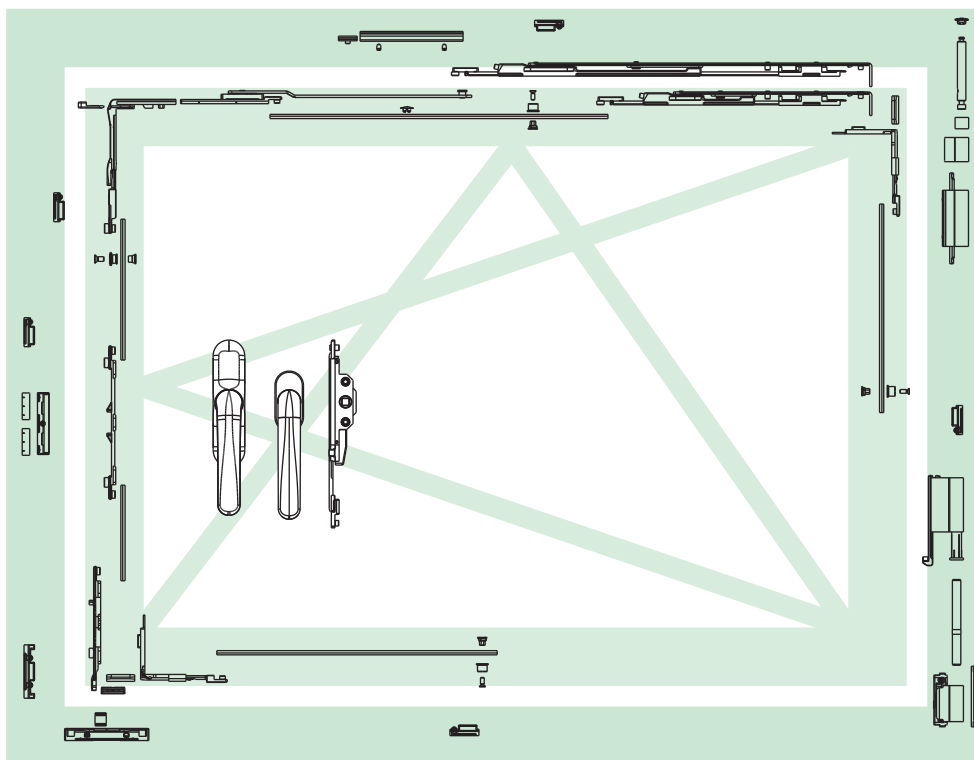
<b>TILT AND TURN CLOSURE MECHANISM</b>	<b>04704</b>	
<b>Functions</b> Tilt and turn closure mechanism for Cremona bolts.		
<b>Finish</b> GS Silver Plus		
<b>Package</b> 10 kits		
<b>TILT AND TURN CLOSURE MECHANISM WITH M180 MOVEMENT</b>	<b>04705</b>	
<b>Functions</b> Tilt and turn closure mechanism with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

<b>FUTURA 3D 130 ARMS</b>								
<table border="1"> <thead> <tr> <th>Description</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>T1 AR FUTURA 3D 130 arm</td> <td>04200</td> </tr> <tr> <td>T2 AR FUTURA 3D 130 arm</td> <td>04201</td> </tr> </tbody> </table>		Description	Code	T1 AR FUTURA 3D 130 arm	04200	T2 AR FUTURA 3D 130 arm	04201	
Description	Code							
T1 AR FUTURA 3D 130 arm	04200							
T2 AR FUTURA 3D 130 arm	04201							
<b>Finish</b> GS Silver Plus		<b>Package</b> 10 pieces						
<b>FUTURA 3D 130 LOGICA ARMS</b>								
<table border="1"> <thead> <tr> <th>Description</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>T1 AR FUTURA 3D 130 Logica arm</td> <td>04202</td> </tr> <tr> <td>T2 AR FUTURA 3D 130 Logica arm</td> <td>04203</td> </tr> </tbody> </table>		Description	Code	T1 AR FUTURA 3D 130 Logica arm	04202	T2 AR FUTURA 3D 130 Logica arm	04203	
Description	Code							
T1 AR FUTURA 3D 130 Logica arm	04202							
T2 AR FUTURA 3D 130 Logica arm	04203							
<b>Finish</b> GS Silver Plus		<b>Package</b> 10 pieces						
<b>FUTURA 3D 130 MICROVENTILATION ARMS</b>								
<table border="1"> <thead> <tr> <th>Description</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>T1 FUTURA 3D 130 Microventilation arm</td> <td>04284</td> </tr> <tr> <td>T2 FUTURA 3D 130 Microventilation arm</td> <td>04285</td> </tr> </tbody> </table>		Description	Code	T1 FUTURA 3D 130 Microventilation arm	04284	T2 FUTURA 3D 130 Microventilation arm	04285	
Description	Code							
T1 FUTURA 3D 130 Microventilation arm	04284							
T2 FUTURA 3D 130 Microventilation arm	04285							
<b>Finish</b> GS Silver Plus		<b>Package</b> 10 pieces						
<b>FUTURA 3D 130 HINGES</b>	<b>04711</b>							
<b>Functions</b> Hinges for tilt and turn systems with 130 Kg capacity and 3D adjustment.								
<b>Finish</b> All RAL and TREND Giesse colours								
<b>Package</b> 10 pieces								

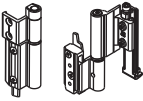
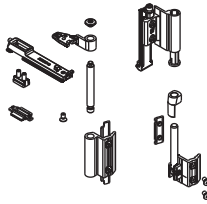
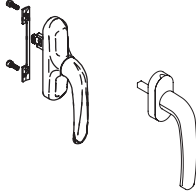
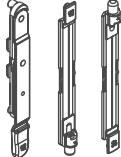
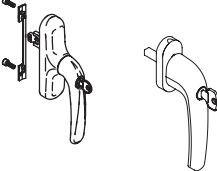
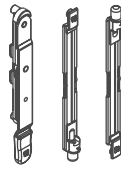
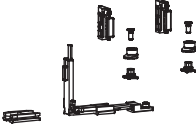
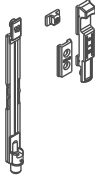
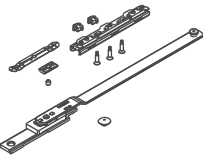
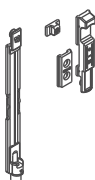
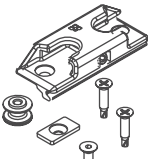
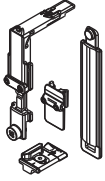
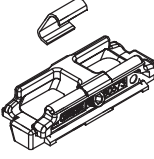

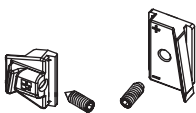
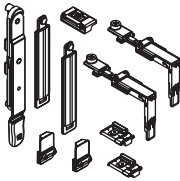
<b>TILT AND TURN DRIVERS</b>			<b>FUTURA 3D 130 SECONDARY SASH HINGES</b> <b>04715</b>												
<table border="1"> <thead> <tr> <th>Description</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Prima 900 Cremona</td> <td>01033K</td> </tr> <tr> <td>Euro 900 Cremona</td> <td>01090K</td> </tr> <tr> <td>Prima Window handle</td> <td>02484</td> </tr> <tr> <td>Master Window handle</td> <td>02460*</td> </tr> </tbody> </table> <p><b>Finish</b> All RAL and TREND Giesse colours</p> <p><b>Package</b> 10 pieces *5 pieces</p>			Description	Code		Prima 900 Cremona	01033K	Euro 900 Cremona	01090K	Prima Window handle	02484	Master Window handle	02460*	<p><b>Functions</b> Hinge with the same design and adjustments as the hinges for FUTURA 3D 130 tilt and turn windows.</p> <p><b>Finish</b> All RAL and TREND Giesse colours</p> <p><b>Package</b> 5 pieces</p>	
Description	Code														
Prima 900 Cremona	01033K														
Euro 900 Cremona	01090K														
Prima Window handle	02484														
Master Window handle	02460*														
<b>TILT AND TURN MICROVENTILATION DRIVERS</b>			<b>BI-DIRECTIONAL BOLT (SECTION TYPE 1)</b> <b>02191K</b>												
<table border="1"> <thead> <tr> <th>Description</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Prima Microventilation Cremona</td> <td>01039</td> </tr> <tr> <td>Euro Microventilation Cremona</td> <td>01094</td> </tr> </tbody> </table> <p><b>Finish</b> All RAL and TREND Giesse colours</p> <p><b>Package</b> 10 pieces</p>			Description	Code		Prima Microventilation Cremona	01039	Euro Microventilation Cremona	01094	<p><b>Functions</b> Bidirectional bolt characterized by a manoeuvre which allows both terminals to be closed simultaneously.</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 10 pieces</p>					
Description	Code														
Prima Microventilation Cremona	01039														
Euro Microventilation Cremona	01094														
<b>TILT AND TURN KEY DRIVERS</b>			<b>BI-DIRECTIONAL BOLT (SECTION TYPE 2)</b> <b>02195K</b>												
<table border="1"> <thead> <tr> <th>Description</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Prima Key brass Cremona</td> <td>01119K*</td> </tr> <tr> <td>Prima Key capture Cremona</td> <td>01149K</td> </tr> <tr> <td>Prima Key 900 Cremona</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> </tbody> </table> <p><b>Finitura</b> Tutti i colori RAL e TREND Giesse</p> <p><b>Package</b> 10 pieces *5 pieces</p>			Description	Code		Prima Key brass Cremona	01119K*	Prima Key capture Cremona	01149K	Prima Key 900 Cremona	01152K	Prima Key Window handle	02485*	Prima Key Logica Window handle	02486*
Description	Code														
Prima Key brass Cremona	01119K*														
Prima Key capture Cremona	01149K														
Prima Key 900 Cremona	01152K														
Prima Key Window handle	02485*														
Prima Key Logica Window handle	02486*														
<b>SUPPLEMENTARY CLOSURE</b> <b>04770K</b>			<b>ADJUSTABLE BOLT (SECTION TYPE 1)</b> <b>02168K</b>												
<p><b>Functions</b> Kit consisting of an corner transmission and an adjustable striker to be used when a supplementary closure is fitted.</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 10 kits</p>			<p><b>Functions</b> Bolt for the second wing, characterized by zama terminals which allow compression adjustment of the secondary wing.</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 10 pieces</p>												
<b>SUPPLEMENTARY FUTURA ARM</b> <b>04301K</b>			<b>ADJUSTABLE BOLT (SECTION TYPE 2)</b> <b>02166K</b>												
<p><b>Functions</b> Supplementary arm to be combined with type 2 arms on fixtures with widths greater than 1000 mm, which serves to distribute weight.</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 5 pieces</p>			<p><b>Functions</b> Bolt for the second wing, characterized by zama terminals which allow compression adjustment of the secondary wing. Specifically for Metra profiles.</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 10 pieces</p>												
<b>ANTI-BURGLAR DEVICE</b> <b>04031K</b>			<b>ANGULAR BOLT (SECTION TYPE 1)</b> <b>04045K</b>												
<p><b>Functions</b> 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.</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 20 pieces</p>			<p><b>Functions</b> 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).</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 10 pieces</p>												
<b>SINGLE STRIKER</b> <b>01348K</b>			<b>BIDIRECTIONAL LEVER (SECTION TYPE 1)</b> <b>02189K</b>												
<p><b>Functions</b> An item created to be applied on the upper part of the frame on two-wing fixtures, used to receive the bolt pins.</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 100 pieces</p>			<p><b>Functions</b> 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.</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 20 pieces</p>												
<b>BURGLAR BOLT</b> <b>01350K</b>			<b>PERIMETRIC CLOSURE FOR SECONDARY SASH (SECTION TYPE 1)</b> <b>02186K</b>												
<p><b>Functions</b> 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.</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 50 pieces</p>			<p><b>Functions</b> 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).</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 10 pieces</p>												

# GIESSE TILT AND TURN

## FUTURA 3D 150 HP

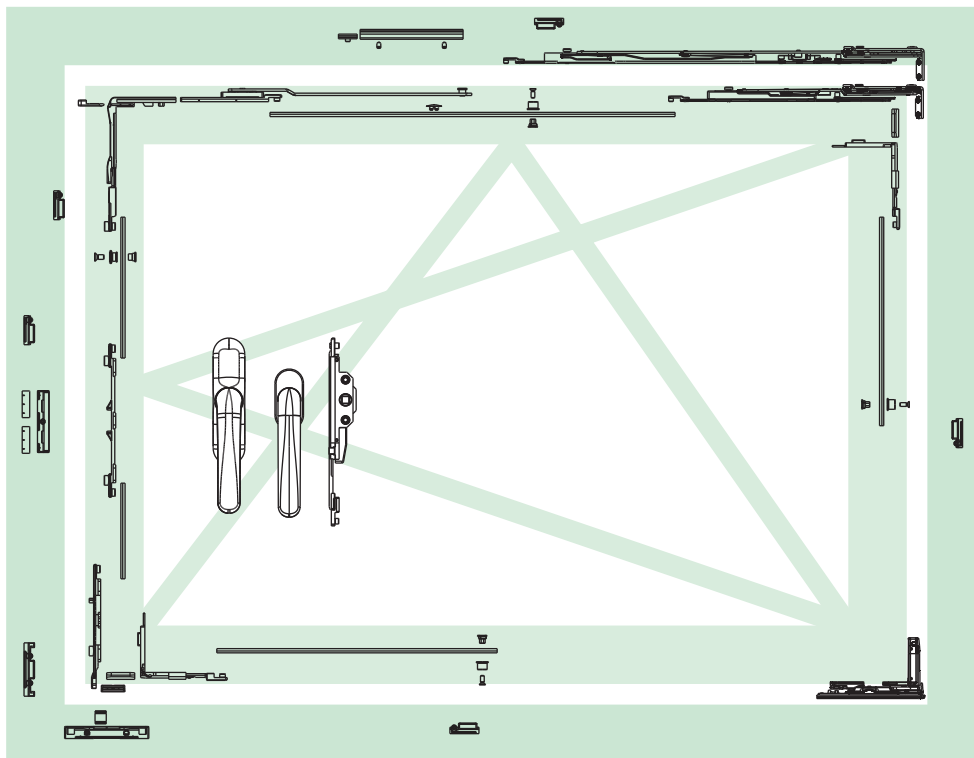


<b>TILT AND TURN CLOSURE MECHANISM</b> <b>04704</b>	
<b>Functions</b> Tilt and turn closure mechanism for Cremona bolts.	
<b>Finish</b> GS Silver Plus	
<b>Package</b> 10 kits	
<b>TILT AND TURN CLOSURE MECHANISM WITH M180 MOVEMENT</b> <b>04705</b>	
<b>Functions</b> Tilt and turn closure mechanism with single direction M180 movement for window handles.	
<b>Finish</b> GS Silver Plus	
<b>Package</b> 10 kits	
<b>TILT AND TURN LOGICA CLOSURE MECHANISM</b> <b>04706</b>	
<b>Functions</b> Tilt and turn closure mechanism for logica manoeuvre Cremona bolts.	
<b>Finish</b> GS Silver Plus	
<b>Package</b> 10 kits	
<b>TILT AND TURN LOGICA CLOSURE MECHANISM WITH M180 MOVEMENT</b> <b>04707</b>	
<b>Functions</b> Tilt and turn closure mechanism with single direction M180 movement for window handles, with logica manoeuvre.	
<b>Finish</b> GS Silver Plus	
<b>Package</b> 10 kits	
<b>FUTURA 3D 150 HP TYPE 1 ARM</b> <b>04204</b>	
<b>Functions</b> Arm that allows tilt and turn opening, combined with the 150 Kg. tilt and turn closure mechanism.	
<b>Finish</b> GS Silver Plus	
<b>Package</b> 10 pieces	
<b>FUTURA 3D 150 HP TYPE 2 ARM</b> <b>04205</b>	
<b>Functions</b> Arm that allows tilt and turn opening, combined with the 150 Kg. tilt and turn closure mechanism.	
<b>Finish</b> GS Silver Plus	
<b>Package</b> 10 pieces	
<b>REINFORCE ELEMENT</b> <b>04749</b>	
<b>Functions</b> 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.	
<b>Finish</b> Base	
<b>Package</b> 10 pieces	
<b>FUTURA 3D 150 HP TEMPLATE</b> <b>03476</b>	
<b>Functions</b> Template for the machinery of the upper hinges.	
<b>Finish</b> Base	
<b>Package</b> 20 pieces	

<b>FUTURA 3D 150 HP HINGES</b>			<b>FUTURA 3D 150 HP SECONDARY SASH HINGES</b>												
<table border="1"> <thead> <tr> <th>Description</th> <th>Code</th> </tr> </thead> <tbody> <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> </tbody> </table> <p><b>Finish</b> All RAL and TREND Giesse colours</p> <p><b>Package</b> 10 pieces</p>			Description	Code		FUTURA 3D 150 HP hinges (Sec. Type 1)	04712	FUTURA 3D 150 HP hinges (Sec. Type 2)	04723	<table border="1"> <thead> <tr> <th>Description</th> <th>Code</th> </tr> </thead> <tbody> <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> </tbody> </table> <p><b>Finish</b> All RAL and TREND Giesse colours</p> <p><b>Package</b> 5 pieces</p>		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														
<b>TILT AND TURN DRIVERS</b>			<b>BI-DIRECTIONAL BOLT (SECTION TYPE 1)</b> <b>02191K</b>												
<table border="1"> <thead> <tr> <th>Description</th> <th>Code</th> </tr> </thead> <tbody> <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> </tbody> </table> <p><b>Finish</b> All RAL and TREND Giesse colours</p> <p><b>Package</b> 10 pieces *5 pieces</p>			Description	Code		Prima 900 Cremone	01033K	Euro 900 Cremone	01090K	Prima Window handle	02484	Master Window handle	02460*	<p><b>Functions</b> Bidirectional bolt characterized by a manoeuvre which allows both terminals to be closed simultaneously.</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 10 pieces</p>	
Description	Code														
Prima 900 Cremone	01033K														
Euro 900 Cremone	01090K														
Prima Window handle	02484														
Master Window handle	02460*														
<b>TILT AND TURN KEY DRIVERS</b>			<b>BI-DIRECTIONAL BOLT (SECTION TYPE 2)</b> <b>02195K</b>												
<table border="1"> <thead> <tr> <th>Description</th> <th>Code</th> </tr> </thead> <tbody> <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> </tbody> </table> <p><b>Finitura</b> Tutti i colori RAL e TREND Giesse</p> <p><b>Package</b> 10 pieces *5 pieces</p>			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*														
<b>SUPPLEMENTARY CLOSURE</b> <b>04770K</b>			<b>ADJUSTABLE BOLT (SECTION TYPE 1)</b> <b>02168K</b>												
<p><b>Functions</b> Kit consisting of an corner transmission and an adjustable striker to be used when a supplementary closure is fitted.</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 10 kits</p>			<p><b>Functions</b> Bolt for the second wing, characterized by zama terminals which allow compression adjustment of the base of the secondary wing.</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 10 pieces</p>												
<b>SUPPLEMENTARY FUTURA ARM</b> <b>04301K</b>			<b>ADJUSTABLE BOLT (SECTION TYPE 2)</b> <b>02166K</b>												
<p><b>Functions</b> 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.</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 5 pieces</p>			<p><b>Functions</b> Bolt for the second wing, characterized by zama terminals which allow compression adjustment of the secondary wing. Specifically for Metra profiles.</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 10 pieces</p>												
<b>ANTI-BURGLAR DEVICE</b> <b>04031K</b>			<b>ANGULAR BOLT (SECTION TYPE 1)</b> <b>04045K</b>												
<p><b>Functions</b> 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.</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 20 pieces</p>			<p><b>Functions</b> 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).</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 10 pieces</p>												
<b>SINGLE STRIKER</b> <b>01348K</b>			<b>BIDIRECTIONAL LEVER (SECTION TYPE 1)</b> <b>02189K</b>												
<p><b>Functions</b> An item created to be applied on the upper part of the frame on two-wing fixtures, used to receive the bolt pins.</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 100 pieces</p>			<p><b>Functions</b> 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.</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 20 pieces</p>												
<b>BURGLAR BOLT</b> <b>01350K</b>			<b>PERIMETRIC CLOSURE FOR SECONDARY SASH (SECTION TYPE 1)</b> <b>02186K</b>												
<p><b>Functions</b> 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.</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 50 pieces</p>			<p><b>Functions</b> 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).</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 10 pieces</p>												

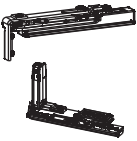

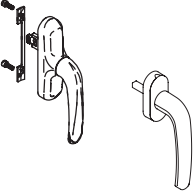
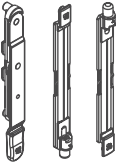
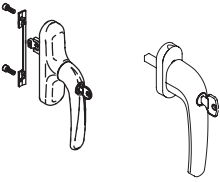
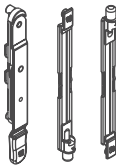
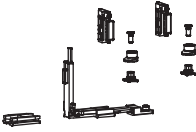
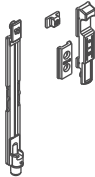
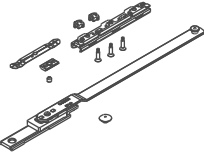
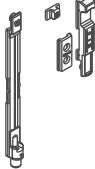
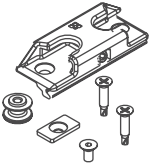
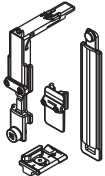
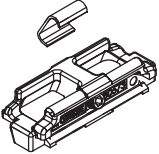

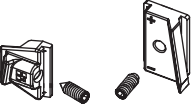
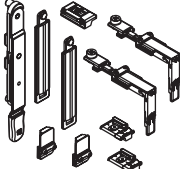
# GIESSE TILT AND TURN

## FUTURA 3D 170 HP Invisible



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

<b>FUTURA 3D 170 HP INVISIBLE ARM AND HINGES</b>			
<b>Description</b>	<b>Sec. Type</b>	<b>Code</b>	
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	
<b>Finish</b>	<b>Package</b>		
GS Silver Plus	5 pieces		
<b>FUTURA 3D 170 HP INVISIBLE LOGICA ARM AND HINGES</b>			
<b>Description</b>	<b>Sec. Type</b>	<b>Code</b>	
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 3	04237 1/2	
Set with type 2 arm and R/L hinges	Sec. Type 2	04238 1/2	
<b>Finish</b>	<b>Package</b>		
GS Silver Plus	5 pieces		
<b>THICKNESS KIT</b>			
<b>Description</b>	<b>Code</b>		
Thickness kit 1,5 mm	04406		
Thickness kit 2 mm	04407		
<b>Finish</b>	<b>Base</b>		
Base	10 pieces		
<b>130+170 KG REINFORCE SET</b>			
<b>Description</b>	<b>Sec. Type</b>	<b>Code</b>	
130+170 Kg reinforce set	Sec. Type 1 - 2	04409	
130+170 Kg reinforce set	Sec. Type 3	04411	
<b>Finish</b>	<b>Base</b>		
Base	10 pieces		

<p><b>FUTURA 3D 170 HP INVISIBLE SECONDARY SASH HINGES</b></p> <table border="1"> <thead> <tr> <th>Description</th> <th>Sec. Type</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>FUTURA 3D 170 HP Invisible R/L secondary sash hinges</td> <td>Sec. type 1</td> <td>04400 1/2</td> </tr> <tr> <td>FUTURA 3D 170 HP Invisible R/L secondary sash hinges</td> <td>Sec. type 3</td> <td>04401 1/2</td> </tr> <tr> <td>FUTURA 3D 170 HP Invisible R/L secondary sash hinges</td> <td>Sec. type 2</td> <td>04404 1/2</td> </tr> </tbody> </table> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 10 pieces</p>	Description	Sec. Type	Code	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		<p><b>VERTICAL ADDITIONAL CLOSING CORNER DRIVE</b>      <b>04012</b></p> <p><b>Functions</b> Secondary corner drive to use with the arm for vertical additional closing points.</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 10 pieces</p>	
Description	Sec. Type	Code													
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													
<p><b>TILT AND TURN DRIVERS</b></p> <table border="1"> <thead> <tr> <th>Description</th> <th>Code</th> </tr> </thead> <tbody> <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> </tbody> </table> <p><b>Finish</b> All RAL and TREND Giesse colours</p> <p><b>Package</b> 10 pieces *5 pieces</p>	Description	Code	Prima 900 Cremone	01033K	Euro 900 Cremone	01090K	Prima Window handle	02484	Master Window handle	02460*		<p><b>BI-DIRECTIONAL BOLT (SECTION TYPE 1)</b>      <b>02191K</b></p> <p><b>Functions</b> Bidirectional bolt characterized by a manoeuvre which allows both terminals to be closed simultaneously.</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 10 pieces</p>			
Description	Code														
Prima 900 Cremone	01033K														
Euro 900 Cremone	01090K														
Prima Window handle	02484														
Master Window handle	02460*														
<p><b>TILT AND TURN KEY DRIVERS</b></p> <table border="1"> <thead> <tr> <th>Description</th> <th>Code</th> </tr> </thead> <tbody> <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> </tbody> </table> <p><b>Finitura</b> Tutti i colori RAL e TREND Giesse</p> <p><b>Package</b> 10 pieces *5 pieces</p>	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*		<p><b>BI-DIRECTIONAL BOLT (SECTION TYPE 2)</b>      <b>02195K</b></p> <p><b>Functions</b> Bidirectional bolt characterized by a manoeuvre which allows both terminals to be closed simultaneously. Specifically for Metra profiles.</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 10 pieces</p>	
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*														
<p><b>SUPPLEMENTARY CLOSURE</b>      <b>04770K</b></p> <p><b>Functions</b> Kit consisting of an angle transmission and an adjustable striker to be used when a supplementary closure is fitted.</p> <p><b>Finitura</b> GS Silver Plus</p> <p><b>Package</b> 10 kit</p>		<p><b>ADJUSTABLE BOLT (SECTION TYPE 1)</b>      <b>02168K</b></p> <p><b>Functions</b> Bolt for the second wing, characterized by zama terminals which allow compression adjustment of the base of the secondary wing.</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 10 pieces</p>													
<p><b>SUPPLEMENTARY FUTURA ARM</b>      <b>04301K</b></p> <p><b>Functions</b> Supplementary arm to be combined with type 2 arms on fixtures with widths greater than 1000 mm, which serves to distribute weight.</p> <p><b>Finitura</b> GS Silver Plus</p> <p><b>Package</b> 5 pieces</p>		<p><b>ADJUSTABLE BOLT (SECTION TYPE 2)</b>      <b>02166K</b></p> <p><b>Functions</b> Bolt for the second wing, characterized by zama terminals which allow compression adjustment of the base of the secondary wing. Specifically for Metra profiles.</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 10 pieces</p>													
<p><b>ANTI-BURGLAR DEVICE</b>      <b>04031K</b></p> <p><b>Functions</b> 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.</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 20 pieces</p>		<p><b>ANGULAR BOLT (SECTION TYPE 1)</b>      <b>04045K</b></p> <p><b>Functions</b> 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).</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 10 pieces</p>													
<p><b>SINGLE STRIKER</b>      <b>01348K</b></p> <p><b>Functions</b> An item created to be applied on the upper part of the frame on two-wing fixtures, used to receive the bolt pins.</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 100 pieces</p>		<p><b>BIDIRECTIONAL LEVER (SECTION TYPE 1)</b>      <b>02189K</b></p> <p><b>Functions</b> 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.</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 20 pieces</p>													
<p><b>BURGLAR BOLT</b>      <b>01350K</b></p> <p><b>Functions</b> 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.</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 50 pieces</p>		<p><b>PERIMETRIC CLOSURE FOR SECONDARY SASH (SECTION TYPE 1)</b>      <b>02186K</b></p> <p><b>Functions</b> 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).</p> <p><b>Finish</b> GS Silver Plus</p> <p><b>Package</b> 10 pieces</p>													

[www.giesse.it](http://www.giesse.it)



U0261000/11-2010