



MOST POPULAR

HARDWARE FOR
ALUMINIUM WINDOWS
AND DOORS

MOST POPULAR: HARDWARE FOR ALUMINIUM WINDOWS AND DOORS

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PIONEERS: QUALITY, INNOVATION AND DESIGN

WE ARE PIONEERS

For more than 50 years, we have opened new frontiers and changed the way of conceiving and producing hardware for aluminium windows and doors.

We are the international division of Tyman plc, a global group with several manufacturing plants and a sales network able to serve almost every country in the world.

Our mission is to be a global partner for engineered components for the fenestration industry thanks to our full range of sealing systems and hardware solutions for doors and windows, with more than 100 registered patents.

Our goal is to work professionally in accordance with our core values of Quality, Innovation and Design. Our focus is the complete customer satisfaction through the design, manufacture and marketing of cutting-edge solutions in line with market demands, all over the world.





LIGHT LESS GIESSE

IN 2006 GIESSE
LAUNCHED THE PROJECT

GREEN GIESSE

Giesse was born with a green soul.

Green is the colour already chosen in 1965 for its brand.

ENERGY SAVING AND CO₂ REDUCTION

In 2006 Giesse launched the "GIESSE LIGHT LESS" project. It is a project for energy consumption optimisation and environmental protection which now consists of:

CO-GENERATION SYSTEM

The co-generation system consists of an engine used to convert the natural gas of the mains supply into mechanical energy and to recover the heat energy contained in the engine's exhaust gas.

Using the new system has reduced the CO₂ emissions of the plant's existing burners. In addition, the savings in mains electricity consumption contribute to the reduction in the CO₂ emissions of the electric power plants.

The primary energy savings obtained with the co-generation reduces the release of CO₂ into the atmosphere by more than 40% for the same amount of energy supplied to the users.

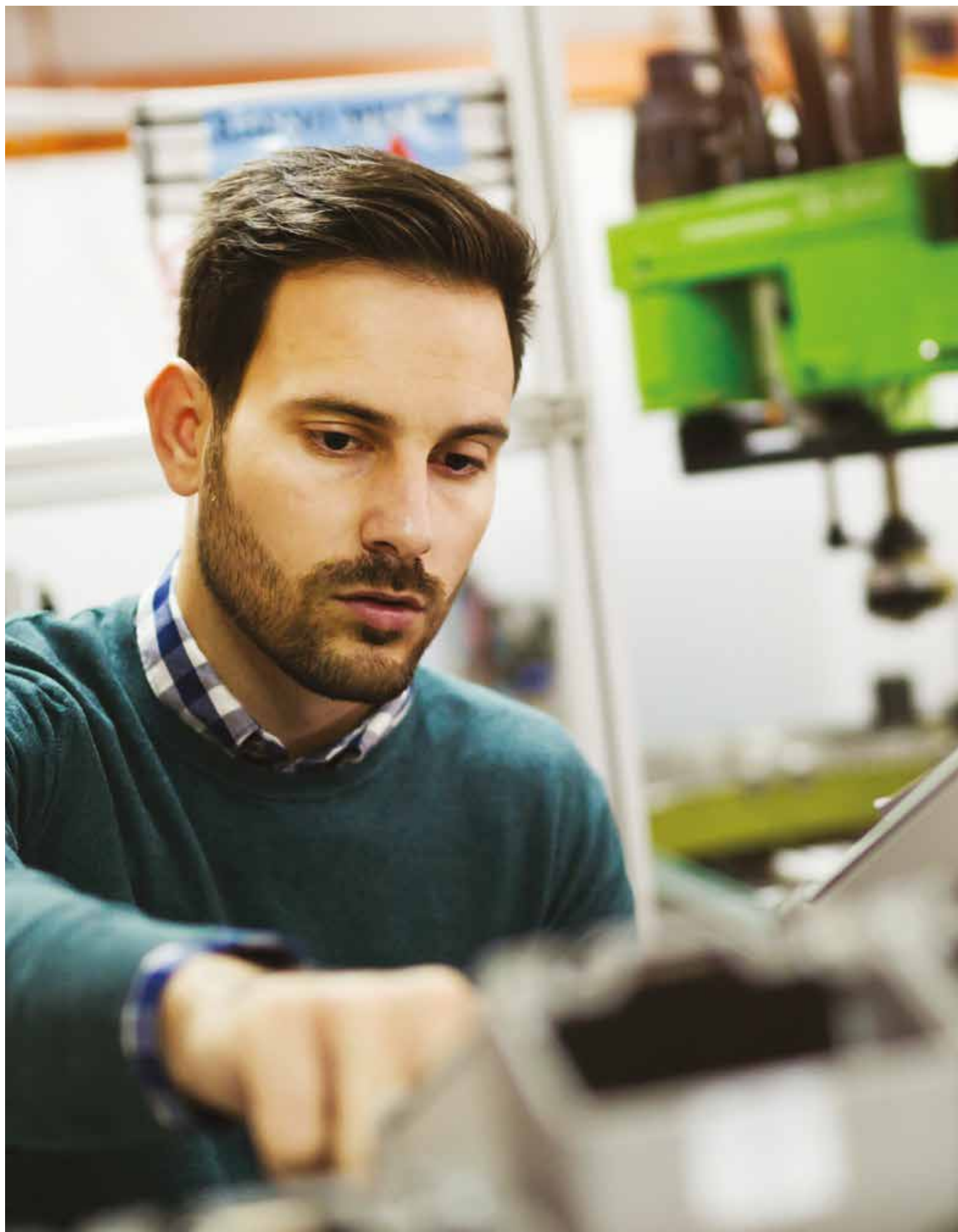
PHOTOVOLTAIC SYSTEM COVERING THE PLANT:

Thanks to the clean energy generated, GIESSE saves approximately 388 tonnes of carbon dioxide emissions with a saving of 140 TOE (tonnes of oil equivalent) per year.

RESEARCH AND DEVELOPMENT TO THE BENEFIT OF THE ENVIRONMENT

All Giesse products are processed and painted in the in-house plant using exclusively thermosetting, non-toxic powder coatings. This allows compliance with the environmental regulations and policies for the protection and safety of workers.





RESEARCH AND DESIGN AT OUR SCHLEGELGIESSE LABORATORY

SCHLEGELGIESSE LABORATORY

We proudly set up our Laboratory in 1995 with the aim of carrying out the research and design for developing new products and improving the existing ones. It supports design and development activities and is the place where samples for testing and for the development of new products are designed and realised. It is also the place where you can find detailed advice for special needs and technical support during product design and development.

At our laboratory we carry out mechanical and performance tests on hardware, doors and windows, in order to determine their level of performance. We have a dedicated test area equipped with cutting-edge machinery such as a salt spray chamber to test the salt spray corrosion resistance of the hardware solutions.

The test area is where cyclical, mechanical and functional tests are carried out to test the durability of hinges, handles, pulleys, Tilt-and-Turn mechanisms, variable geometry arms and other systems.

DOORS AND WINDOWS PERFORMANCES

The most important tests required by European Standards (UNI EN 14351-1) performed:

- Thermal calculation
- Mechanical durability test
- Air permeability test
- Water tightness test
- Resistance to wind load

HARDWARE PERFORMANCES

- Mechanical testing in accordance with industry standards
- Product development testing in accordance to our design specifications

The SchlegelGiesse Laboratory team serves our customers to simulate every single test phase, following all the rules and official procedures, in order to define the performance of the product before the official test.

This is our way of offering customers a fast and reliable service, backed up by an expert team of technicians using cutting edge technologies and machines.



SLIDING OPENING

A COMPLETE RANGE



BRIO LINE

INTERNAL SIDE



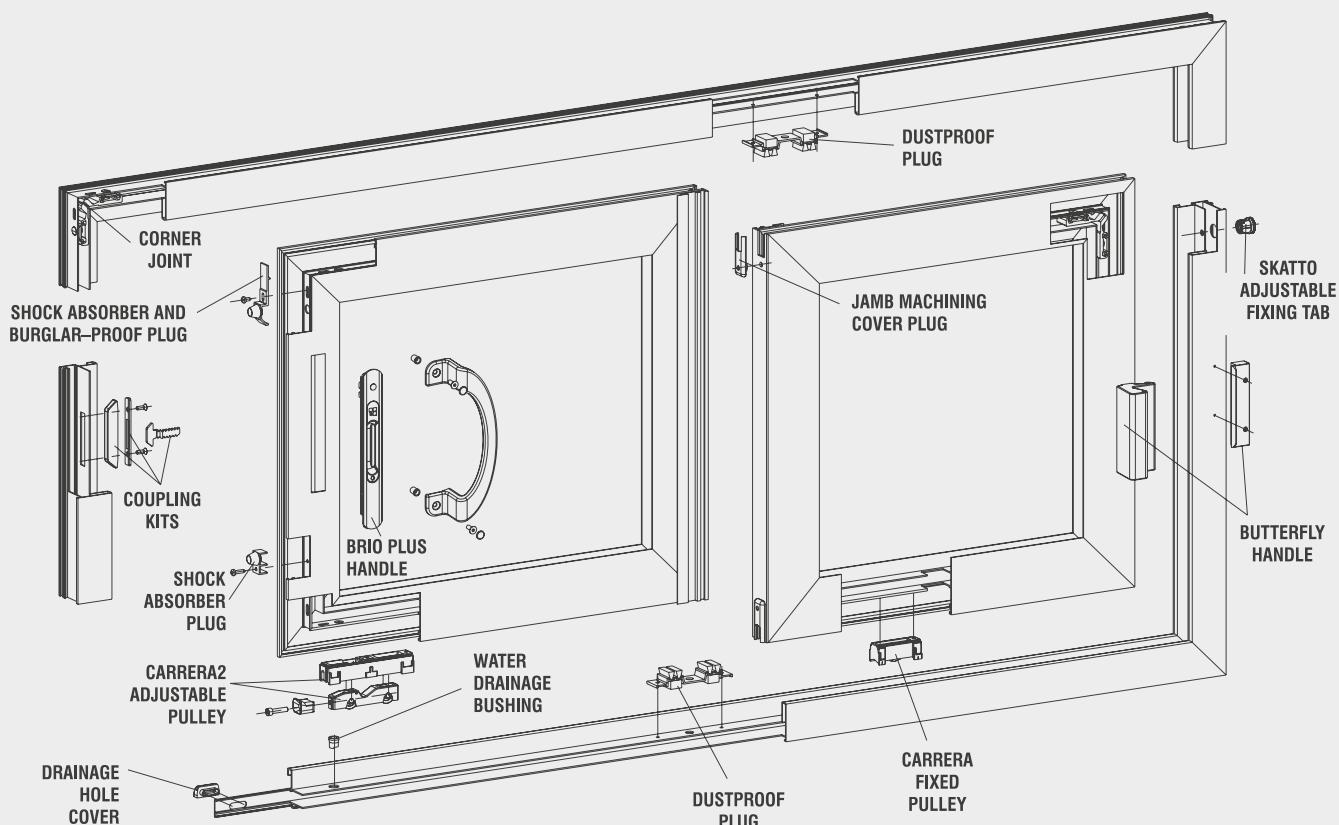
02983N 02992 00831N 03016 03360 02988N

EXTERNAL SIDE



02967V 02966N 02980

Type	Item	Description	Type of window	Note
Internal handles	02983N	Brio Plus	For windows and doors	Item 02883N version with key
	02992N	Brio		Item 02982N version with key
	00831	Brio Rapid		—
	03360	City cremone		Item 03361N version with key
	02988N	Brio Mini handle	Only for windows	
Internal pull handle	03016	Internal pull handle (for Brio Plus and Brio handle)	For windows and doors	Small version available
External handles	02966N	External pull handle	For doors	European cylinder version available
	02967N	External pull handle with key		
	02980	External embedding handle		



PULLEYS

Giesse offers a variety of pulley models: with one or two wheels, fixed or adjustable, in different materials with various load capacities to meet all requirements. With the Carrera range it is possible to achieve load capacities of up to 45 Kg per wheel, which means sash weights up to 180 Kg. The use of corrosion-proof materials gives to Giesse pulleys an excellent robustness and durability, maintaining optimal performance levels.

Aluminium pulleys



Aluminium 1 wheel fixed



Aluminium 2 wheels adjustable

Carrera pulleys



Carrera 1 wheel fixed



Carrera 1 wheel adjustable



Carrera 2 wheels adjustable





BRIO LINE

INTERNAL SIDE



03351

INTERNAL SIDE / EXTERNAL SIDE



03353



03352

Type	Item	Description	Type of window
Internal handles	03351	Pratika	For windows and doors
	03000	Nada	Only for windows
Internal pull handle	03055	Internal pull handle (for Pratika Line)	For windows and doors
Internal / external handles	03352	Pratika double handle with key	
	03353	Pratika double handle	

FRONTAL APPLICATION HANDLES



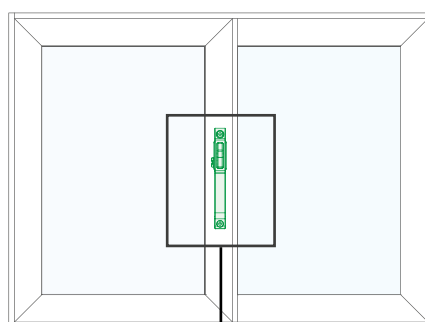
BUTTERFLY



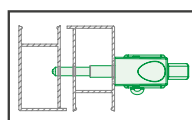
03172 Butterfly for windows
03177 Butterfly for doors



DELTA PLUS



02701



SLIDING OPENING

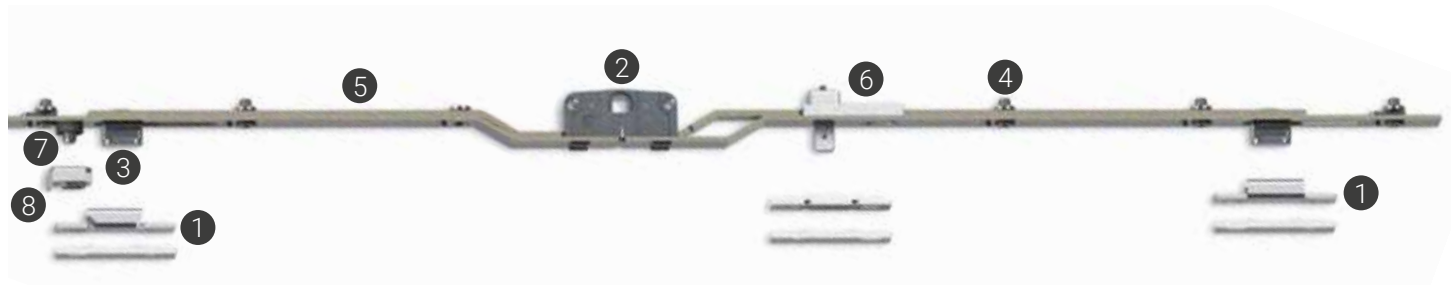
CHAMPION PLUS MULTILOCK

Champion Plus is available with 7,5 or 15 mm entry, to be chosen according to the geometry of the profile used, and in different lengths for making doors or windows.

Champion Plus is available with lock (Item 02728), ideal for balcony doors that open onto gardens or patios.



- ❶ Frame striker made of steel
- ❷ Housing and rotor made of zinc coated zamak C/C distance 43
- ❸ Mushroom-head fastening nib in zamak
- ❹ Zamak element for fixing adapters
- ❺ Zinc-coated steel rod
- ❻ Incorrect movement safety device available on request
- ❼ Anti-lifting pin in steel with rubber ring
- ❽ Anti-lifting striker



Description	Item	Rod lenght (mm)	Locking points	Incorrect movement safety device compatibility
Champion Plus backset 7.5	02720	270	1	No
	02721	600	2	Yes
	02722	1000	2	Yes
	06309	1600	3	Yes
	02723	1800	3	Yes
Champion Plus backset 15	02724	270	1	No
	02725	600	2	Yes
	02726	1000	2	Yes
	06310	1600	3	Yes
	02727	1800	3	Yes
Champion Plus - backset 15 with lock	02728	1800	3	Yes
Incorrect movement safety device	02728	For Champion Plus 2 and 3 locking points		

PRIMA, KORA & ASIA WINDOW HANDLES



Prima

Kora

Asia

- C/C distance 43 mm
- 7 mm square pin
- Swivel covering rosette in zamak
- RAL and TREND finishes

PRIMA, KORA & ASIA DOUBLE HANDLES



Prima

Kora

Asia

Double handles are the perfect handles for balcony doors in combination with the Champion Plus multipoint locking drivegear with cylinder. RAL and TREND finishes.

RECESSED WINDOW HANDLE

- C/C distance 43 mm
- 7 mm square pin
- Can be combined with the external recess handle
- RAL and TREND finishes



EXTERNAL RECESS PULL HANDLE

Can be combined with Prima, Kora or Asia window handles or with the recess window handle. Perfect for the operation of the balcony doors from the outside.



BLIND RECESS HANDLE FOR OPPOSITE SASH

Blind recess handle to be applied on the opposite sash where no hardware is present.



INCORRECT MOVEMENT SAFETY DEVICE

The device prevents the Champion Plus hardware from going into the closed position during the closing of the sash.



Item	Description	Notes
02762	Prima window handle	
02763	Prima double window handle	
00997	Kora window handle	
00998	Kora double window handle	
02415	Asia window handle	
02416	Asia double window handle	
02760	Recessed window handle	
02761	Recessed window handle	For profiles of Alu / wood or Alu > 37 mm
02764	External recess pull handle Champion Plus	In combination with window handles and recessed handles
02765	Blind internal recess pull handle	For opposite sash



TILT-AND-SLIDE OPENING **GS1000**



The GS1000 Tilt-and-Slide system responds to the need for large glazing with the functionality, performance and safety of a casement window. The sash can be opened in different positions but always keeping the space inside the room at a minimum. GS1000 offers a highly reliable hardware that allows for doors up to 2700 mm in height and 200 kg in weight, meeting the needs of ever larger, easily accessible and incredibly smooth opening elements.

The product range has been enhanced, allowing to choose between various models, depending on the size and weight of the sash and the application requirements.

Versions with an automatic catch are operated by a conventional cremone or handle, for panels of up to 160 kg, while versions with forced control are operated by special cremones with long handles, for panels of up to 200 kg.

The new, flat aesthetic of the carriage cover and the moulded line of the side plugs give the frame a compact, modern and pleasant design.

FORCED CONTROL VERSION

Semi-automatic operation via special, long-handled cremone

GS1000-HD 100

Sash weight = max 100 kg
Sash width (L) = 730 to 1300 mm
Sash height (H) = 930 to 2400 mm

GS1000-HD 160

Sash weight = max 160 kg
Sash width (L) = 730 to 2000 mm
Sash height (H) = 930 to 2700 mm

GS1000-HD 200

Sash weight = max 200 kg
Sash width (L) = 1080 to 2000 mm
Sash height (H) = 930 to 2700 mm

MANUAL CONTROL VERSION








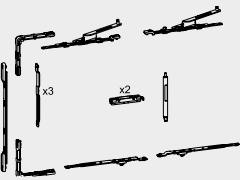
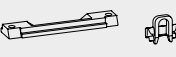










Manual operation via cremone / standard handle

GS1000-ML

Sash weight = max 100 kg
Sash width (L) = 630 to 1480 mm
Sash height (H) = 930 to 2400 mm

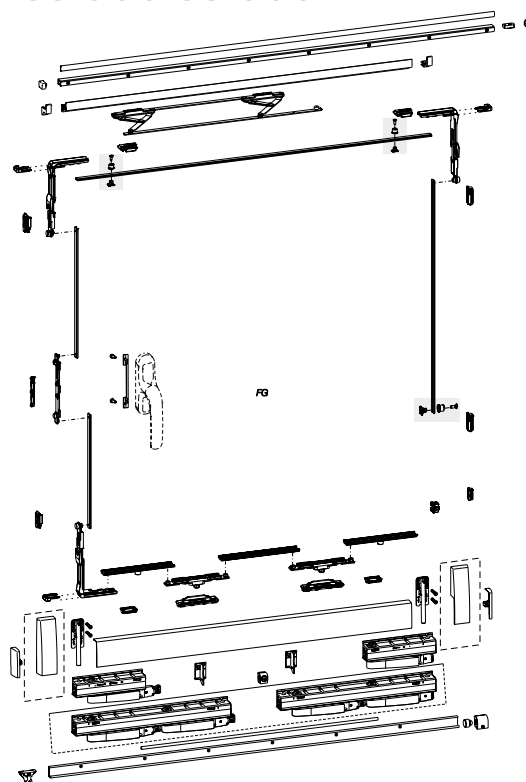
GS1000-HL

Sash weight = max 160 kg
Sash width (L) = 630 to 1680 mm
Sash height (H) = 930 to 2400 mm

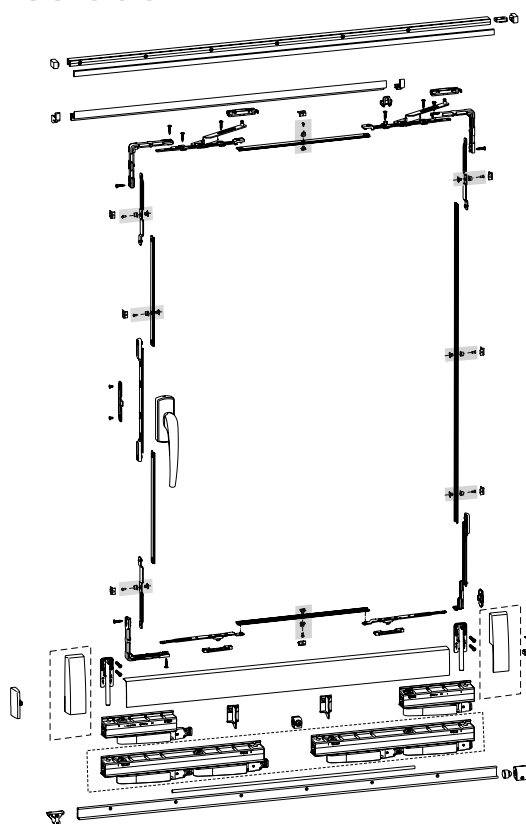
Component image	Item	Description
	09761	670-880 GS100 profile set
	09762	881-1080 GS1000 profile set
	09763	1081-1280 GS1000 profile set
	09764	1281-1480 GS1000 profile set
	09765	1481-1680 GS1000 profile set
	09766	1681-2000 GS1000-HD profile set
	09774	GS1000 accessories set
	09775	GS1000 accessories set with reinforcements
	09776	GS1000 RH single carriage set
	09777	GS1000 LH single carriage set
	09778	RH double carriage set
	09779	LH double carriage set
	09723	630-930 mm width scissor arm
	09724	931-1280 mm width scissor arm
	09725	1281-1680 mm width scissor arm
	09780	C.E GS1000 ML-HL base fitting set
	09781	GS1000-HD LH fitting set
	09782	GS1000-HD RH fitting set
	09785	C.E. striker set 10-14 GS1000-HD
	09786	C.E. striker set 12-15 GS1000-HD
	09787	C.E. striker set 13,5-16,8 GS1000-HD
	09788	C.E. striker set 14-18 GS1000-HD
	09791	C.E.14/18 GS1000-HD LH incorrect movement safety device set
	09792	C.E.14/18 GS1000-HD RH incorrect movement safety device set
	09793	C.E.GS1000-HD LH Incorrect Movement Safety Device Set
	09794	C.E.GS1000-HD RH incorrect movement safety device set
	09736N	GS1000-HD RH cremone
	09737N	GS1000-HD LH cremone
	09738N	GS1000-HD RH cremone with key
	09739N	GS1000-HD LH cremone with key
	09789	GS1000 support block
	09790	GS1000 mobile striker
	09804	Hole alignment template
	09805	Track fixing template
	09806	Side-Hung window striker template
	09801	GS1000 carriage drilling template
	09741N	GS1000-HD cremone drilling template
	09803	GS1000-HD arms and corner cleat drilling template

European double-pane fitting for handle, fitting set for R40 series and cremone cover fitting set also available.

GS1000 GS1000-HL



GS1000-HD



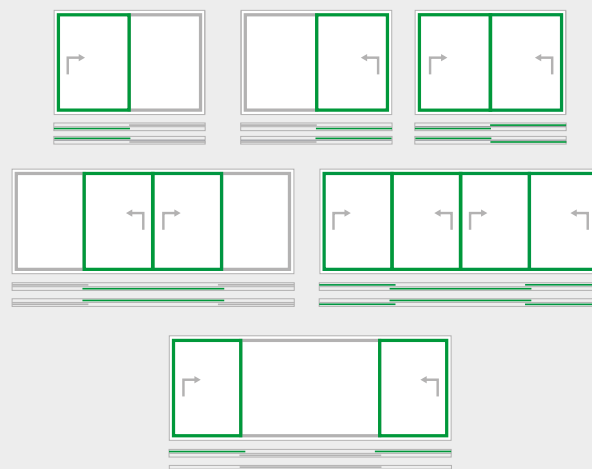
LIFT-AND-SLIDE OPENING GS3000



The GS3000 Lift-and-Slide system is available in two versions, one for sashes up to 150 kg in weight and one **for sashes up to 400 kg**. The complete range of hardware available makes it possible to create sashes of up to 3750 mm in height with three different handle styles and a wide range of finishes.

Opening and closing movements are perfectly smooth and silent. The system is equipped with a safety device to dampen the handle return movement.

The possibility of micro-ventilating the room, thanks to a special locking point, completes the many pluses of the GS3000 Lift-and-Slide system.



- Reliability and durability
- Designer handles with stylish finishes
- Smooth and silent movement
- Ideal for eliminating architectural barriers in compliance with DIN 18025
- Maximum sash height of 3750 mm

- 400 kg maximum load capacity
- Controlled ventilation with fixture closed (micro-ventilation)
- Safe operation for children
- Compatible with the most common profile series, thanks to the range of locking points and spacers



Standard 13 ÷ 16 mm



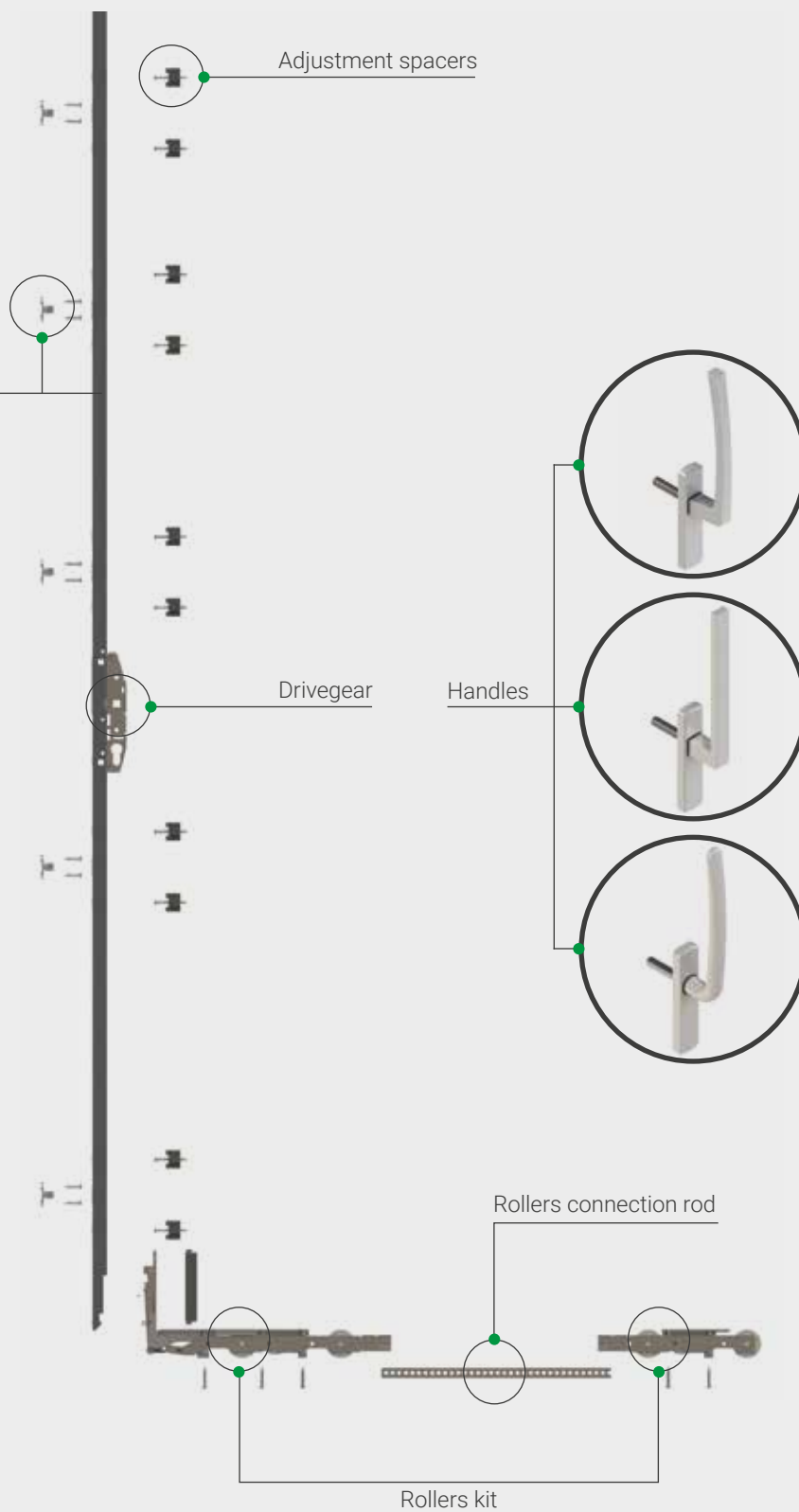
Adjustable 13 ÷ 25 mm



With microventilation



For opposite sashes



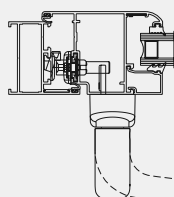
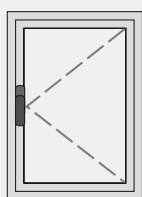
OUTWARD OPENING MULTI-POINT LOCKING SYSTEM FOR SIDE-HUNG

Giesse has developed different fastening systems for Side-Hung outward opening casement windows.

- 1) Fastening systems operated with a cremone;
- 2) Fastening systems operated with a window handle and internal mechanism.

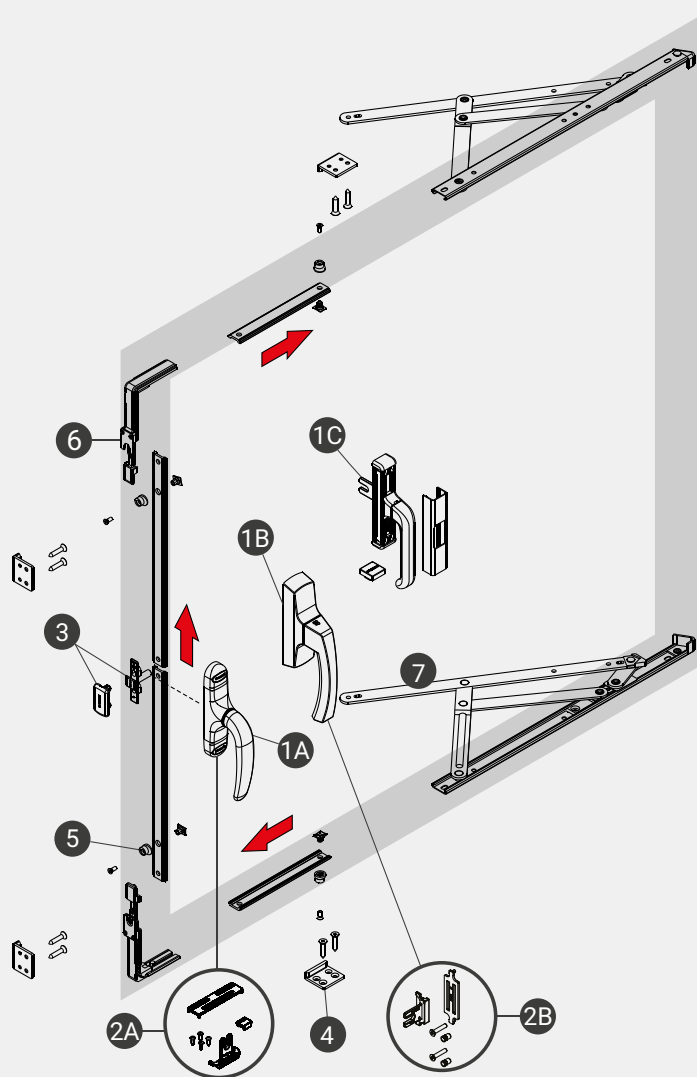
In both cases Giesse allows to make Side-Hung windows with locking points on 3 sides of the window to maximize its air-water-wind tightness.

SIDE-HUNG WINDOW ONE-WAY WITH CREMONE

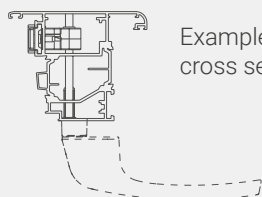
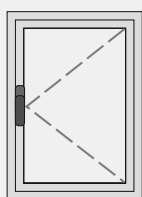


Example of profile cross section

1A	Unica cremone		01150N
	Unica key cremone		01151N
	Asia cremone outward 0-180		01063
2A	Unica kit	20 mm	02407
		35 mm	02408
		45 mm	02409
		55 mm	02410
1B	Asia cremone outward 0-90		01077
2B	Asia kit	20 mm	02495
		28 mm	02496
		35 mm	02497
		45 mm	02498
		55 mm	02499
1C	Nova cremone fork		01114
	Nova cremone fork with block		01116
	Rod drive device	pin 9,5 mm	04098
		pin 18,5 mm	04099
		pin 40 mm	04091
4	Curtain wall striker		01266K
			01267K
5	Adjustable fastening pawl		04030
6	Corner drive		04019K
			04020K
7	Giesse Side-Hung arms		See pag. 22-24

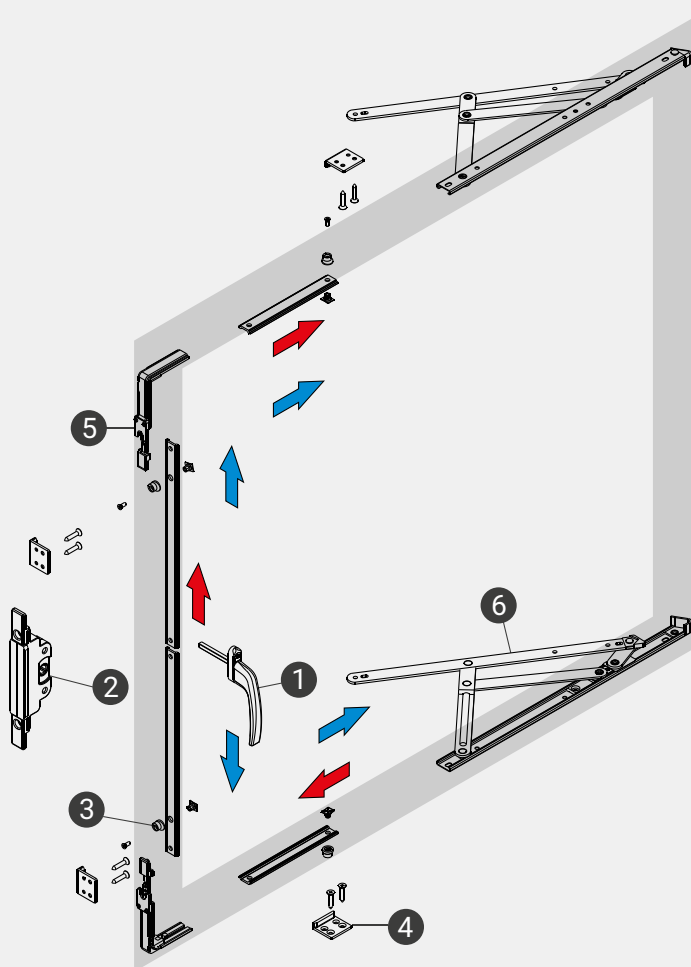


SIDE-HUNG WINDOW TWO-WAYS WITH HANDLE



Example of profile cross section (2A+2B)

1	Bas window handle	02491	
2	Mechanism GHIBO OUT	BS 23	04094
		BS 25	04093
		BS 23	04082
		BS 28	04083
		BS 32	04084
3	Adjustable fastening pawl	04030	
4	Curtain wall striker	01266K	
		01267K	
5	Corner drive	04019K	
		04020K	
6	Side-Hung arms type C, A, M	See pag. 22-24	



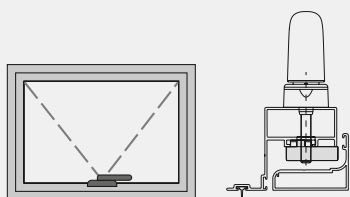
OUTWARD OPENING MULTI-POINT LOCKING SYSTEM FOR TOP-HUNG

Giesse has developed different fastening systems for Top-Hung outward opening casement windows.

- 1) Fastening systems operated with a cremone;
- 2) Fastening systems operated with a window handle and internal mechanism.

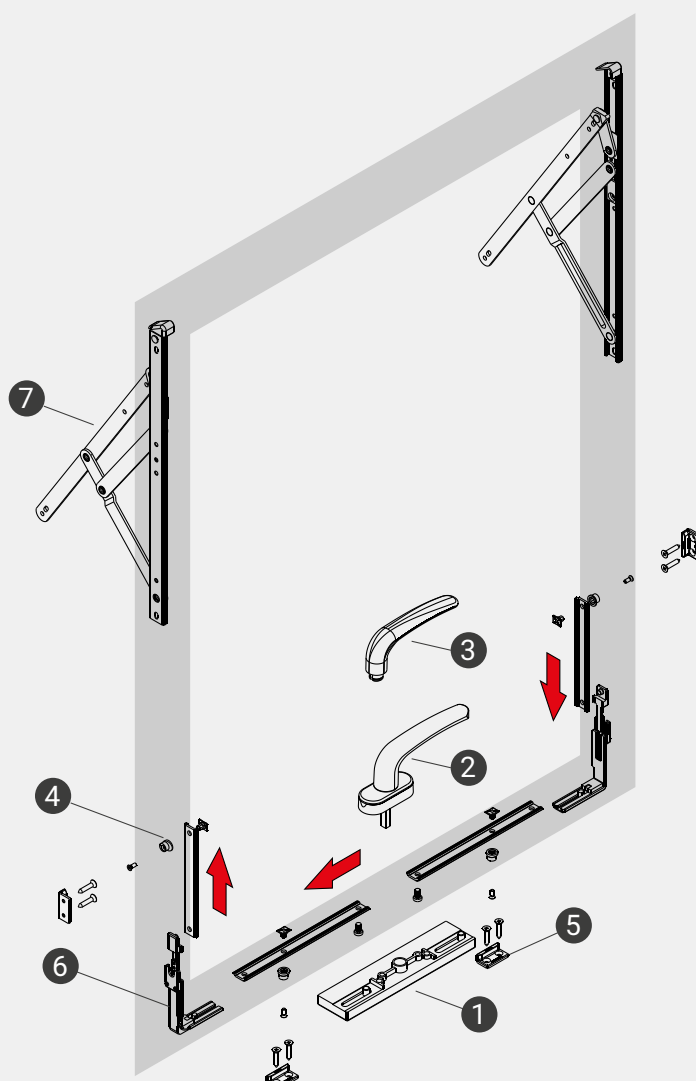
In both cases Giesse allows to make Top-Hung windows with locking points on 3 sides of the window to maximize its air-water-wind tightness.

TOP-HUNG WINDOW ONE-WAY WITH HANDLE

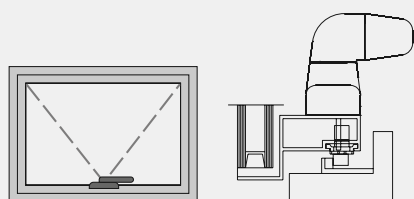


Example of profile cross section (1+2)

1	Mech. GHIBO CW1 stroke = 26 mm	02013
2	Prima window handle	02484
3	Removable pull handle	02016500
4	Adjustable fastening pawl	04030
5	Curtain wall striker	01266K 01267K
6	Corner drive	04019K 04020K
7	Giesse Top-Hung arms	See pag. 22-24

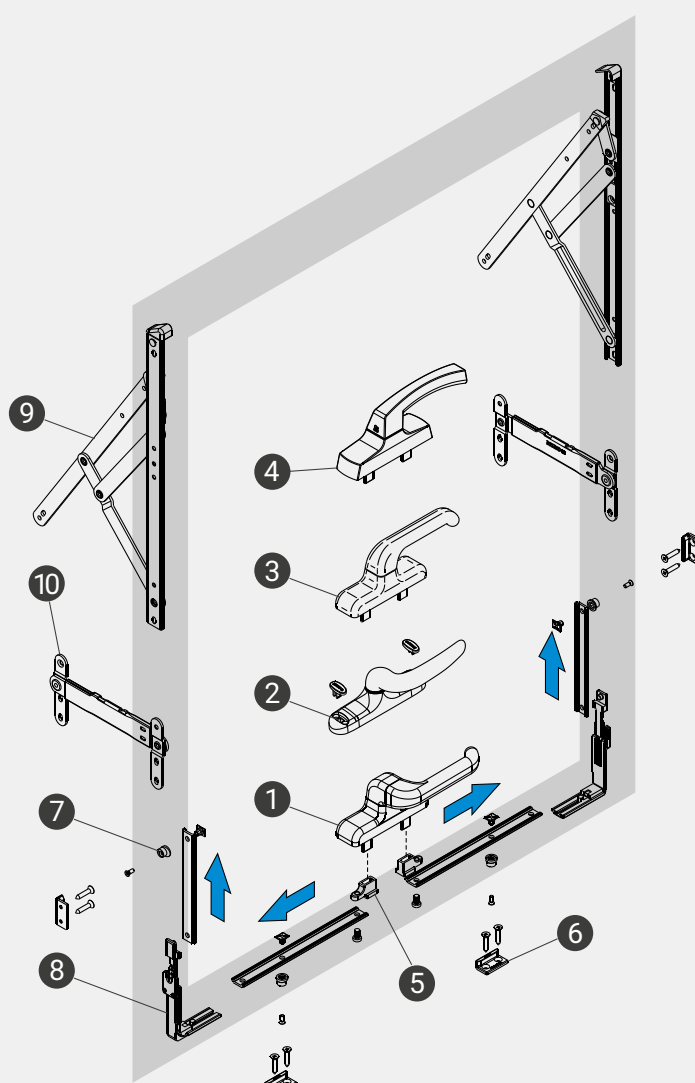


TOP-HUNG WINDOW TWO-WAYS WITH CREMONE



Example of profile
cross section

1	Euro offset cremone CW2	05007
	Euro key offset cremone CW2	05008
2	Unica offset cremone CW2	011691/2
3	Euro cremone	01000U
4	Asia cremone	01076
	Asia key cremone	01065
5	Connection block	02236
6	Curtain wall striker	01266K
		01267K
7	Adjustable fastening pawl	04030
8	Corner drive	04019K
		04020K
9	Giesse Top-Hung arms	See pag. 22-24
10	Giesse limiter arms:	
	laser arm 2 stop	01951
	telescopic laser unit	01954



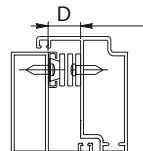
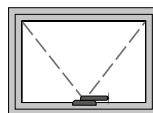
OUTWARD OPENING ARMS

GS HD TYPE P

GS HD type P arms are ideal for Top-Hung windows of medium-large size with medium-heavy load capacities. GS HD Type P arms are particularly suitable for Top-Hung windows in structural or semistructural curtain walls. The arms are sold in pairs. Each box holds six pairs.



Tested up to
30,000 cycles



Sash dimensions Top-Hung

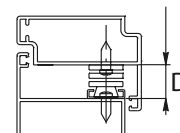
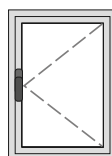
Description	Item	Type of opening	Arm base width (mm)	Sash frame distance (mm)	Arm length (mm)	Max opening angle	Max height achievable (mm)	Max width achievable (mm)	Max weight achievable (kg)
GS HD – 10" type P	08534N	Top	23	16,5 +0,5	261	35°	700	1200	50
GS HD – 12" type P	08535N	Top	23	16,5 +0,5	317	30°/35°	800	1200	60
GS HD – 14" type P	08536N	Top	23	16,5 +0,5	353	30°/35°	1000	1300	69
GS HD – 16" type P	08537N	Top	23	16,5 +0,5	414	30°/35°	1200	1400	88
GS HD – 18" type P	08538N	Top	23	16,5 +0,5	458	25°/30°	1400	1500	102
GS HD – 20" type P	08539N	Top	23	16,5 +0,5	511	25°/30°	1600	1500	135
GS HD – 22" type P	08540N	Top	23	16,5 +0,5	556	20°/25°	1700	1500	137
GS HD – 24" type P	08541N	Top	23	16,5 +0,5	602	20°/25°	1800	1500	139
GS HD – 28" type P	08542N	Top	23	16,5 +0,5	707	10°/15°/20°	2000	1500	155
GS HD – 26" 180 type P	08348	Top	23	16,5 +0,5	690	20°	2000	1500	155
						7°	2500	1700	180

GS HD TYPE C

GS HD type C arms are extremely versatile articles, suitable for Side-Hung windows with medium and high load capacities, and they are particularly suitable for medium sized windows.



Tested up to
30,000 cycles



Sash dimensions Side-Hung

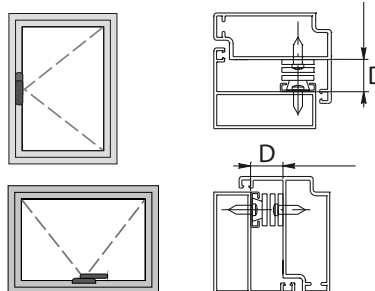
Description	Item	Type of opening	Arm base width (mm)	Sash frame distance (mm)	Arm length (mm)	Max opening angle	Max height (mm)	Max width (mm)	Max weight (kg)
GS HD – 10" type C	08147N	Side	23	15,5 +0,5	263	82°	1200	550	36
GS HD – 12" type C	08148N	Side	23	16,5 +0,5	313	85°	1200	600	38
GS HD – 14" type C	08149N	Side	23	16,5 +0,5	365	87°	1200	650	40
GS HD – 16" type C	08151N	Side	23	16,5 +0,5	414	87°	1200	700	42
GS HD – 18" type C	08152N	Side	23	16,5 +0,5	463	87°	1200	750	45
GS HD – 16" type C	08344	Side	23	16,5 +0,5	412	30°/50°/90°	1600	760	42
GS HD – 16" type C	08345	Side	23	16,5 +0,5	412	30°/50°/90°	1600	760	42
GS HD – 16" type C	08346	Side	23	16,5 +0,5	412	30°/50°/90°	1600	760	42

GS HD TYPE M

GS HD type M Arms are suitable for both Top and Side-Hung windows of medium-small size and with medium / low load capacities. They are particularly suitable for small sash windows. The arms are sold in pairs. Each box holds six pairs.



Tested up to
30,000 cycles



MAX
35 KG

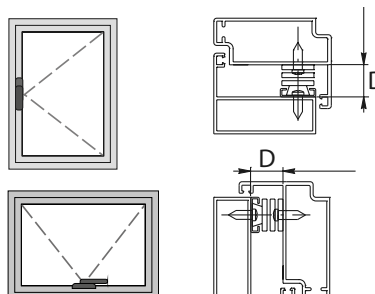
Description	Item	Type of opening	Arm base width (mm)	Sash frame distance D (mm)	Arm length (mm)	Max opening angle	Sash dimensions Top-Hung			Sash dimensions Side-Hung		
							Max height (mm)	Max width (mm)	Max weight (kg)	Max height (mm)	Max width (mm)	Max weight (kg)
GS HD – 8" type M	08201	Top	18	13,5 +0,5	214	70°	350	1200	12	-	-	-
GS HD – 10" type M	08202	Top - Side	18	13,5 +0,5	270	87°	400	1200	16	1200	550	15
GS HD – 12" type M	08195	Top - Side	18	13,5 +0,5	310	87°	550	1200	20	1200	600	16
GS HD – 14" type M	08196	Top - Side	18	13,5 +0,5	358	87°	650	1200	22	1200	600	17
GS HD – 16" type M	08197	Top - Side	18	13,5 +0,5	412	87°	750	1200	24	1200	650	20
GS HD – 18" type M	08198	Top - Side	18	13,5 +0,5	459	87°	850	1200	26	1200	650	21
GS HD – 20" type M	08193	Top	18	13,5 +0,5	512	40°	1000	1200	28	-	-	-
GS HD – 24" type M	08194	Top	18	13,5 +0,5	615	40°	1100	1200	35	-	-	-

GS HD TYPE A

GS HD type A arms are extremely versatile articles, suitable for both Top and Side-Hung windows with medium / low load capacities. They are particularly suitable for small windows or ventilation skylights. The arms are sold in pairs (comprising two identical, or symmetrical arms) in boxes of 6 pairs.



Tested up to
30,000 cycles



MAX
35 KG

Description	Item	Type of opening	Arm base width (mm)	Sash frame distance D (mm)	Arm length (mm)	Max opening angle	Sash dimensions Top-Hung			Sash dimensions Side-Hung		
							Max height (mm)	Max width (mm)	Max weight (kg)	Max height (mm)	Max width (mm)	Max weight (kg)
GS HD – 10" type A	08127N	Top - Side	18	15,5 +0,5	261	84°	400	1200	16	1200	550	14
GS HD – 12" type A	08128N	Top - Side	18	15,5 +0,5	305	85°	550	1200	18	1200	600	16
GS HD – 14" type A	08129N	Top - Side	18	15,5 +0,5	351	87°	650	1200	20	1200	600	18
GS HD – 16" type A	08130N	Top - Side	18	15,5 +0,5	407	87°	750	1200	21	1200	600	20
GS HD – 18" type A	08831N	Top - Side	18	15,5 +0,5	457	87°	850	1200	24	1200	650	22
GS HD – 20" type A	08132N	Top - Side	18	15,5 +0,5	513	42°	1000	1200	27	-	-	-
GS HD – 22" type A	08133N	Top	18	15,5 +0,5	563	40°	1100	1200	30	-	-	-
GS HD – 24" type A	08134N	Top	18	15,5 +0,5	614	40°	1200	1200	32	-	-	-



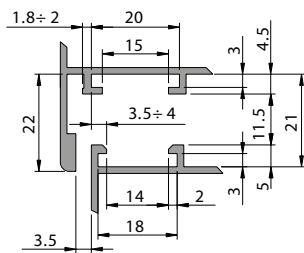
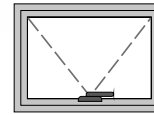
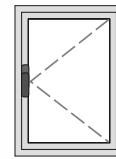
OUTWARD OPENING ARMS

GS HD EURO GROOVE

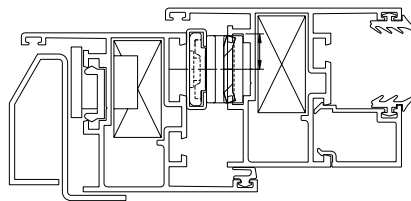
TS-type GS HD arms can be applied on European groove systems (Euro groove central gasket). Type-TS GS HD arms are suitable for medium size / weight outward opening Side-Hung or Top-Hung windows (see table). Since the upper part of the arm is asymmetrical, within the pair of arms we will have a right and a left; this asymmetrical geometry of the arm improves the return and closing of the sash. The window opening can also be frictioned by turning the grub screw on the slider.



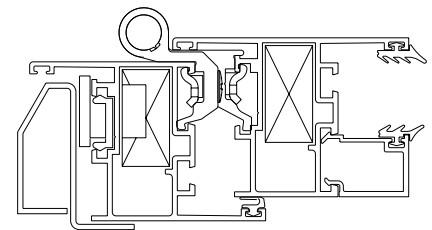
Tested up to
30,000 cycles



Specific dimensions Euro groove system



Euro groove profile with arm installed



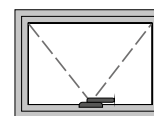
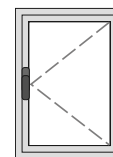
Euro groove profile with flash base hinge installed

Description	Item	Arm length (mm)	Sash dimensions Top-Hung				Sash dimensions Top-Hung			
			Max opening angle	Max height (mm)	Max width (mm)	Max weight (kg)	Max opening angle	Max height (mm)	Max width (mm)	Max weight (kg)
GS HD – top / Side-Hung 10" Euro groove	08349	259	50°	650	1500	50	50° 84° (*)	1500	650	35
GS HD – top / Side-Hung 16" Euro groove	08350	412	30° 50°	800	1500	100 55	30° 50°/90° (*)	1600	700	60 42
GS HD – top / Side-Hung 22" Euro groove	08351	567	20° 45°	1500	1700	100 80	-	-	-	-
GS HD – top / Side-Hung 28" Euro groove	08352	711	15°	2000	1700	100	-	-	-	-

(*) for window cleaning only.

GS HD TYPE TS

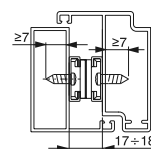
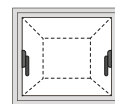
Tested up to
30,000 cycles



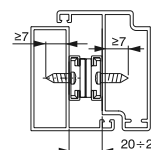
Description	Item	Arm length (mm)	Sash frame distance (mm)	Loose rivet	Sash dimensions Top-Hung				Sash dimensions Side-Hung			
					Max opening angle	Max height (mm)	Max width (mm)	Max weight (kg)	Max opening angle	Max height (mm)	Max width (mm)	Max weight (kg)
GS HD – 10" type TS	08340	259	16,5	No	50°	650	1500	50	50°/84°	1500	660	35
GS HD – 10" type TS – L/R	08341	259	16,5	Yes	50°	650	1500	50	50°/84°	1500	660	35
GS HD – 16" type TS	08342	259	16,5	No	30° 50°	800	1500	100 55	50°/90° 30°	1600	760 700	42 60
GS HD – 16" type TS – L/R	08343	259	16,5	Yes	30° 50°	800	1500	100 55	30°/50° 90°/30°	1600	760 700	42 60

PARALLEL ARMS





They are available in single and double cross versions for the heavier casements of considerable dimensions. It is possible to combine single-cross arms with double-cross arms when the arm thickness is the same. For sashes weighing > 60 kg or sized > 1250 x 1250 mm automation is required.



Single and double parallel arm 16,9 mm



Single and double parallel arm 20 mm

Description		Item	Sash-frame distance (mm)	Arm length (mm)	Max opening (mm)	Max height (mm)	Max width (mm)	Max weight (kg)
Parallel arm 16,9		0199001	16,9 +1/-0	470	180	1000	1000	100
Double parallel arm 16,9		0199101		940	180	2000	2000	200
Parallel arm 20		0199201	20 +1/-0	470	180	1000	1000	100
Double parallel arm 20		0199301		940	180	2000	2000	200

MECHANISMS FOR PARALLEL OPENING: CW BAR WITH CREMONES



Item	Description	Quantity
04100V	Cremone mechanism	2 pcs
04135	Cremone cover	2 pcs
04159	Handles	1 pc (pair)
07843		
07844	Bar (950 / 1150 / 1450 mm)	1 pc
07845		

MECHANISMS FOR PARALLEL OPENING: CW BAR WITH WINDOW HANDLES



Item	Description	Quantity
04126	Window handle mechanism	2 pcs
04142	Window handle cover	2 pcs
04159	Handles	1 pc (pair)
07843		
07844	Bar (950 / 1150 / 1450 mm)	1 pc
07845		



OUTWARD OPENING

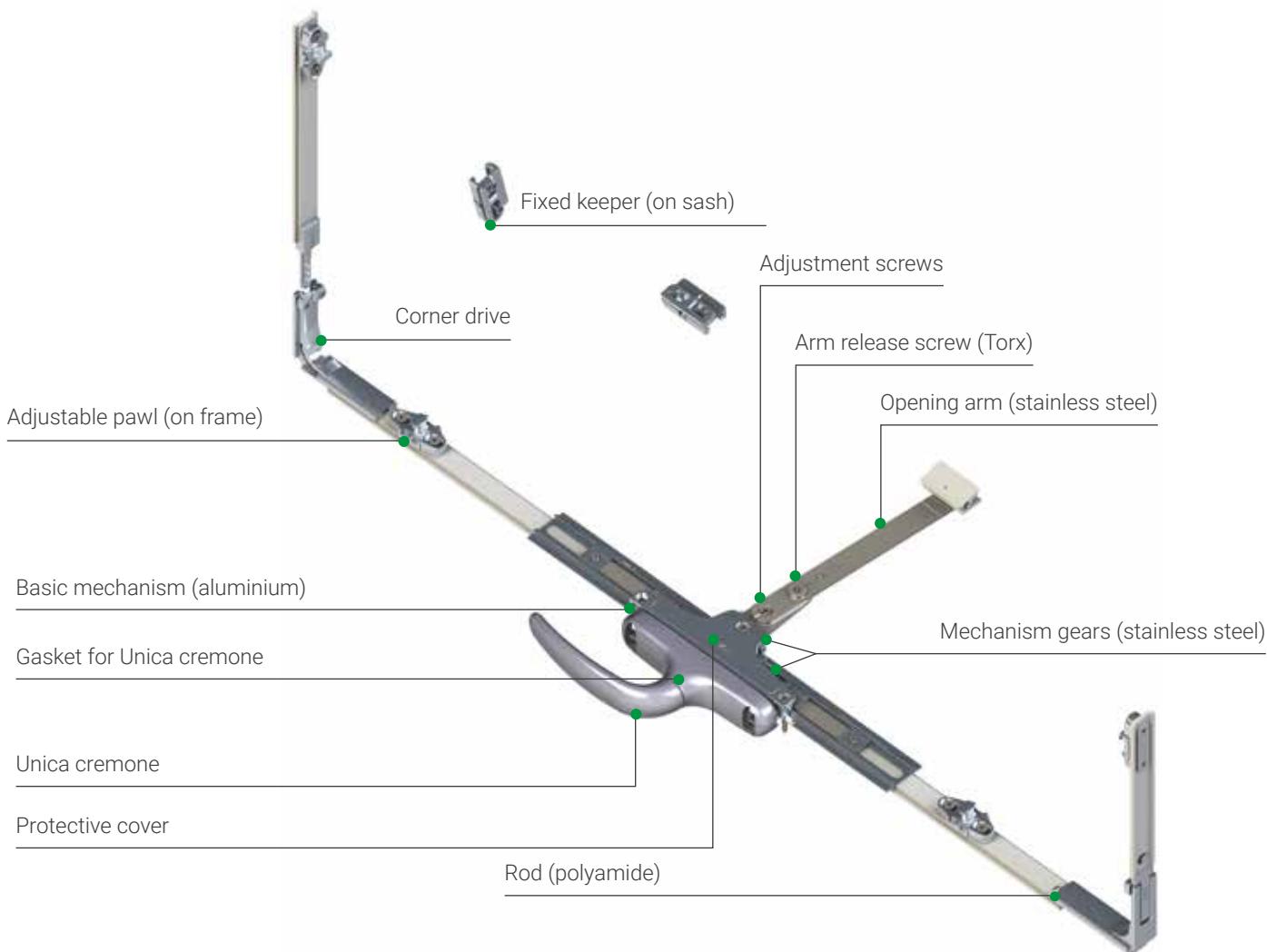
OS OPERATOR 2.0

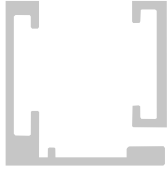
PATENTED IN 2009

OS Operator is the revolutionary outward opening mechanism that combines extreme functionality, renewed styling and high levels of performance. OS Operator combines all these features with its applicability even to small windows, to meet the needs of different markets

The cremone, the arm and the locking points are purchased separately, to deliver customizable solutions according to need. OS Operator can be fitted with rotation either to the right or to the left. It can be fitted on both Side and Top-Hung windows.

OS Operator is the only operator that, thanks to the positioning of the cremone on the frame, enables fitting internal and integral mosquito netting panels. OS Operator 2.0 is the mechanism that features multilocking as standard. With a simple 180° movement of the cremone you can open and close the sash, disengaging multiple locking points simultaneously. OS Operator is the perfect solution for both Top-Hung and Side-Hung windows. With OS Operator three functions are combined in a single fastening solution: by simply turning the handle of the cremone you open and close the sash, even with multiple locking points, with opening limited to the length of the arm of the OS mechanism.





SYSTEM DESIGN FOR THE OS OPERATOR

OS Operator was designed simultaneously with the window profile housing it, in order to be able to get the best performance and functionality from the set of the hardware plus profile. OS Operator requires a specific type of profile cross-section.

Information and assistance about possible applications at Giesse Technical Assistance.

DIMENSIONS

The size limit of the windows to be able to install OS Operator depends on many factors, such as the type of arms used, the type of glass, the specific wind resistance requirements.

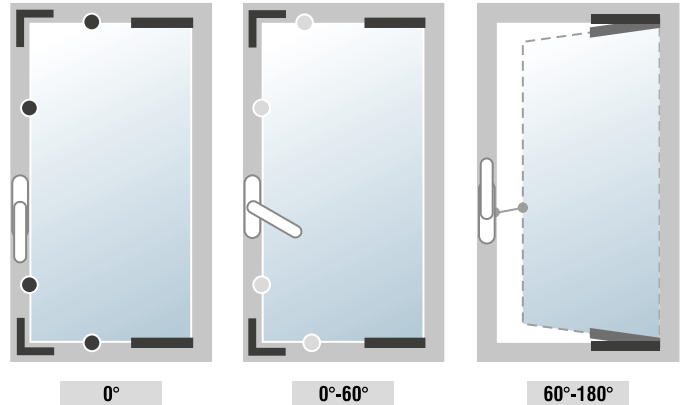
The minimum size is related to the number and location of the locking points.

MECHANISMS

OS Operator is combined with a specific cremone, available with different handle lengths, optionally with key and with removable handle.

TEST RESULTS

OS Operator has successfully passed **15,000 cycles** with both the Top-Hung and Side-Hung type, to AAMA test specifications.



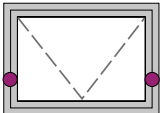
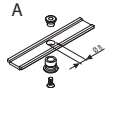
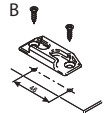
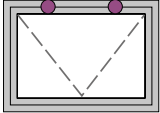
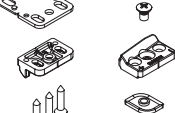
At 0° of cremone rotation the window is closed and the locking points are engaged. On turning the cremone to 60°, the locking points are released and during the next 120° of movement the mechanism pushes the sash to maximum opening (according to the length of the OS arm).

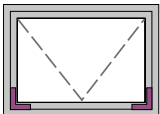



OUTWARD OPENING **LOCKING ACCESSORIES**



MULTIPOINT LOCKING ITEMS

Description		Item	Note	Sash-frame distance (mm)	Adjustment (mm)	
	 	Anti-burglar / anti-typhoon	04041K	-	Profile crossection 16,5 ±0,5	-
		Fastening element	01374K	-	Profile crossection 16,5 +3	±5

Description		Item	Note	Applicable on	Adjustment (mm)	
		Corner drive	04019K	Fixing with clips	15/20 channel	40
			04020K	Fixing with grub screws	15/20 channel	40

MULTIPOINT COMPONENTS WITH SINGLE LOCKING POINT

Description	Item	Design	Step	Finish
 Bravo flat handle	Bravo 1 flat handle	01650N	Euro line	6,5-7-8
		01651N	Euro line	4-5
		01652N	Euro line	0 mm – internal flush
	Bravo 2 flat handle	01640N	Prima line	6,5-7-8
		01641N	Prima line	4-5
		01642N	Prima line	0 mm – internal flush



MULTIPOINT COMPONENTS WITH SINGLE LOCKING POINT

	Item	Arm length (mm)	Maximum opening (mm)	Finish
 OMBU arm	Short Ombu arm	00889N	150	172
	Long Ombu arm	00890N	224	300



AUTOMATIONS



CHAIN ACTUATORS

The range of chain actuators Varia is the perfect answer to the needs of automated applications in Bottom-Hung, Top-Hung, pivoting and skylights windows. The unique design makes it ideal for both residential and industrial applications. Varia Slim Plus RWA is the optimal solution for the smoke and heat evacuation systems. Varia Slim is also available in "Syncro" version, which allows to have 2 or more thrust points in a single window.



Varia
230 V AC
24 V DC



Varia Slim Base
230 V AC
24 V DC



Varia Slim
230 V AC
24 V DC



Varia Slim Plus
230 V AC
24 V DC RWA



Varia Slim Small
24 V DC RWA



Varia Tube
230 V AC
24 V DC RWA



Five
230 V AC



ST 450
230 V AC

ROD OPERATORS

The rod operators are particularly suitable for the automation of windows that require high reliability and resistance to high loads. They are ideal to sheds, skylights, Top-Hung and vertical sunblinds. They are characterized by speed, low noise and extreme versatility in applications.

RACK OPERATORS

LC rack operators are ideal for moving Top-Hung, sheds, skylights, domes, vertical sunblinds and sliding doors (speed version). LC is available with different strokes with thrust force up to 800 N (lengths up to 550 mm) and with the possibility to realize a second thrust point. The LC FIRE version is the optimal solution for smoke and heat evacuation systems.



LC
230 V AC
24 V DC



LC Inox
230 V AC
24 V DC



LC Fire
24 V DC RWA



LC Speed
230 V AC
24 V DC



C.H.I.C. TILT-AND-TURN CONCEALED HINGE SYSTEM



CHIC 100



Item	Description	Range (mm)	Version	A (mm)
043550001	C.H.I.C. 100 - Tilt-and-Turn kit + T1 arm - RX	L = 470 - 700	Micro	-
043550002	C.H.I.C. 100- Tilt-and-Turn kit + T1 arm - LX		Micro	-
043560001	C.H.I.C. 100- Tilt-and-Turn kit + T2 arm - RX	L = 600 - 1500	Micro	148÷178
043560002	C.H.I.C. 100- Tilt-and-Turn kit + T2 arm - LX		Micro	148÷178
043590001	C.H.I.C. 100- Tilt-and-Turn kit + T1 arm - RX (without micro)	L 445 ÷ 470	-	-
043590002	C.H.I.C. 100- Tilt-and-Turn kit + T1 arm - LX (without micro)		-	-

CHIC 130

Item	Description	Range (mm)	Version	A (mm)
044250001	C.H.I.C. 130 - Tilt-and-Turn kit + T1 arm - RX	L = 470 - 700	Micro	-
044250002	C.H.I.C. 130- Tilt-and-Turn kit + T1 arm - LX		Micro	-
044260001	C.H.I.C. 130- Tilt-and-Turn kit + T2 arm - RX	L = 600 - 1500	Micro	148÷178
044260002	C.H.I.C. 130 - Tilt-and-Turn kit + T2 arm - LX		Micro	148÷178

C.H.I.C. SIDE-HUNG CONCEALED HINGE SYSTEM

CHIC 100

Item	Description
043540001	C.H.I.C. 100 Side-Hung hinges – RX
043540002	C.H.I.C. 100 Side-Hung hinges – LX

CHIC 130

Item	Description
044240001	C.H.I.C. 130 Side-Hung hinges – RX
044240002	C.H.I.C. 130 Side-Hung hinges – LX

TABLE OF MAXIMUM GLASS THICKNESS [MM]

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

TABLE OF MAXIMUM LOAD CAPACITY [KG]

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

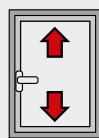
TABLE OF MAXIMUM GLASS THICKNESS [MM]

2800	35	29	25	22	19	17	16	14	13	12	12
2700	37	31	26	23	20	18	17	15	14	13	12
2600	39	32	28	24	21	19	18	16	15	14	13
2500	43	35	30	27	24	21	19	18	16	15	14
2400	43	35	30	27	24	21	19	18	16	15	14
2300	44	37	32	28	25	22	20	18	17	16	15
2200	46	39	33	29	26	23	21	19	18	17	15
2100	49	40	35	30	27	24	22	20	19	17	16
2000	51	43	36	32	28	26	23	21	20	18	17
1900	54	45	38	34	30	27	24	22	21	19	18
1800	57	47	40	35	31	28	26	24	22	20	19
1700	60	50	43	38	33	30	27	25	23	21	20
1600	60	53	46	40	35	32	29	27	25	23	21
1500	60	57	49	43	38	34	31	28	26	24	21
1400	60	60	52	46	40	36	33	30	28	24	21
1300	60	60	56	49	44	39	36	33	28	24	21
1200	60	60	60	53	47	43	39	33	28	24	21
1100	60	60	60	58	52	46	39	33	28	24	
1000	60	60	60	60	5	47	39	33	28		
900	60	60	60	60	58	47	39	33			
800	60	60	60	60	58	47	39				
700	60	60	60	60	58	47					

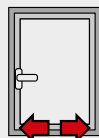
TABLE OF MAXIMUM LOAD CAPACITY [KG]

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

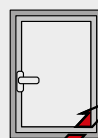
C.H.I.C. TILT-AND-TURN ADJUSTMENTS [MM]



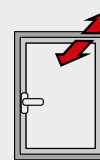
Height: +2.5 / -1



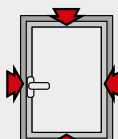
Side: ±1.5



Bottom hinge compression:
+1.4 / -0.6



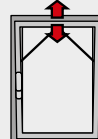
Top hinge compression:
±1.5



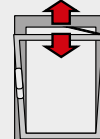
Striker compression: ±1.8



Sash fall: +3.5 / -1.5



Micro-ventilation:
+3.6 / -1.8



T2 arm opening:
148 ÷ 178



INWARD OPENING TILT-AND-TURN HARDWARE

TECHNICAL FEATURES

Giesse Tilt-and-Turn hardware is available in different versions by type and weight:

CLASSIC 3D 80

FUTURA 3D R

FUTURA 3D 130

FUTURA 3D 170 HP INVISIBLE

FUTURA 3D ARCO AND FSQ

ADJUSTMENTS

3D adjustment system allowing height, lateral and compression adjustment, even after installation on site.

MICRO-VENTILATION

Simply turning the handle to 135° opens the sash by only a few millimeters, allowing air to flow from the inside to outside and viceversa, to minimize condensation inside the building.

LOGICA TILT-FIRST

Logica is a solution particularly well suited to public buildings and all situations where the sash must be prevented from opening to the full extent. Without the key, it is only possible to open the sash as a Bottom-Hung window for ventilation purposes.

CERTIFICATION

FUTURA 3D is certified to the RAL 607/3 programme (classification test to EN13126-8:2006 plus periodic monitoring of the production process).

RANGE

CLASSIC 3D 80 micro	FUTURA 3D R	FUTURA 3D 130 micro	FUTURA 3D 170 HP Invisible	FUTURA 3D ARCO
CLASSIC 3D 80 lgc	FUTURA 3D R lgc	FUTURA 3D 130 lgc	FUTURA 3D 170 HP Invisible lgc	FUTURA 3D FSQ

FUTURA 3D TILT-AND-TURN WINDOW VERSIONS:

TYPE AND WEIGHT

Description	3D adjustments	Micro-ventilation	Logica Tilt-First	Max load capacity
Classic 3D 80	Yes	Yes	Yes	90 Kg
Futura 3D R	Yes	No	Yes	110 Kg
Futura 3D 130	Yes	Yes	Yes	140 Kg
Futura 3D 170 HP Invisible	Yes	Yes	Yes	170 Kg
Futura 3D Arco and Fsq	Yes	No	No	80 Kg



INWARD OPENING TILT-AND-TURN HARDWARE

RANGE



Tilt-and-Turn hardware with load capacity of up to 130 kg. Available in micro standard and Logica Tilt-First versions.

TECHNICAL FEATURES

Tilt-and-Turn hardware is composed by:

- Hinge kit
- Set of fastening mechanisms for cremones and window handles
- Arms, available in three versions (standard, microventilation and Logica Tilt-First)
- Cremone or window handle

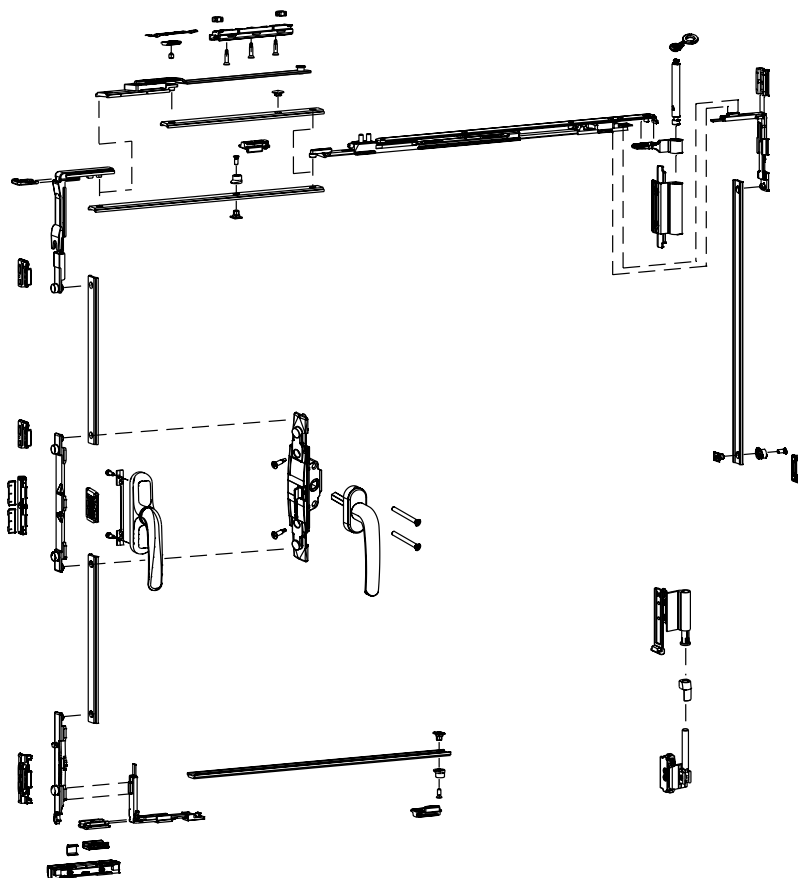
ADJUSTMENTS

The adjustments are micrometric and independent.

Direction	Adjustment
Height	- 0,5 / + 1,5 mm
Side	± 1 mm
Compression	± 2,4 mm
Falling sash	- 3,5 / + 1,5 mm

TABLE OF MAXIMUM GLASS THICKNESS

3000	35	28	24	21	19	17	15	14	13	12	11	11	10	
2900	35	29	25	22	20	18	16	15	14	13	12	11	10	10
2800	36	30	26	23	20	18	17	15	14	13	12	11	11	10
2700	38	31	27	24	21	19	18	16	15	13	13	12	11	10
2600	39	33	28	25	22	20	18	16	15	14	13	12	12	11
2500	44	37	31	27	24	22	20	18	17	16	15	14	13	11
2400	46	38	33	29	25	23	21	19	18	16	15	14	13	12
2300	48	40	34	30	27	24	22	20	18	17	16	15	14	12
2200	50	42	36	31	28	25	23	21	19	18	17	16	15	13
2100	50	44	37	33	29	26	24	22	20	19	17	16	15	13
2000	50	46	39	34	31	27	25	23	21	20	18	17	16	14
1900	50	48	41	36	32	29	26	24	22	21	19	19	16	14
1800	50	50	44	38	34	31	28	25	23	22	20	18	16	14
1700	50	50	46	40	36	32	29	27	25	23	21	18	16	14
1600	50	50	49	43	38	34	31	29	26	24	21	18	16	14
1500	50	50	50	46	41	37	33	31	27	24	21	18	16	14
1400	50	50	50	49	44	39	36	32	27	24	21	18	16	
1300	50	50	50	50	47	42	38	32	27	24	21	18		
1200	50	50	50	50	50	46	38	32	27	24	21			
1100	50	50	50	50	50	46	38	32	27	24				
1000	50	50	50	50	50	46	38	32	27					
900	50	50	50	50	50	46	38	32						
800	50	50	50	50	50	46	38							
700	50	50	50	50	50	46								
600	50	50	50	50	50	46								
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800



CERTIFICATION

FUTURA 3D 130 is certified to the RAL 607/3 programme (classification test to EN13126- 8:2006 plus periodic monitoring of the production process).

TABLE OF MAXIMUM LOAD CAPACITY

3000														
2900	130	130	130	130	130	130	130	130	130	130	130	130	130	130
2800	130	130	130	130	130	130	130	130	130	130	130	130	130	130
2700	130	130	130	130	130	130	130	130	130	130	130	130	130	130
2600	130	130	130	130	130	130	130	130	130	130	130	130	130	130
2500	140	140	140	140	140	140	140	140	140	140	140	140	140	130
2400	140	140	140	140	140	140	140	140	140	140	140	140	140	130
2300	140	140	140	140	140	140	140	140	140	140	140	140	140	130
2200	140	140	140	140	140	140	140	140	140	140	140	140	140	130
2100	140	140	140	140	140	140	140	140	140	140	140	140	140	130
2000	140	140	140	140	140	140	140	140	140	140	140	140	139	125
1900	140	140	140	140	140	140	140	140	140	140	140	140	132	118
1800	140	140	140	140	140	140	140	140	140	140	140	133	125	112
1700	140	140	140	140	140	140	140	140	140	140	134	126	118	118
1600	140	140	140	140	140	140	140	140	140	135	126	118	111	105
1500	140	140	140	140	140	140	140	140	137	127	118	111	104	99
1400	140	140	140	140	140	140	140	138	127	118	110	104	97	
1300	140	140	140	140	140	140	140	128	118	110	103	96		
1200	140	140	140	140	140	140	129	118	109	101	95			
1100	140	140	140	140	140	130	118	108	100	93				
1000	140	140	140	140	131	118	108	99	91					
900	140	140	140	133	118	106	97	89						
800	140	140	135	118	105	95	86							
700	140	138	118	104	92	83								
600	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800



INWARD OPENING TILT-AND-TURN HARDWARE

RANGE



Tilt-and-Turn hardware with load capacity of up to 170 kg. Available in micro standard and Logica Tilt-First versions.

TECHNICAL FEATURES

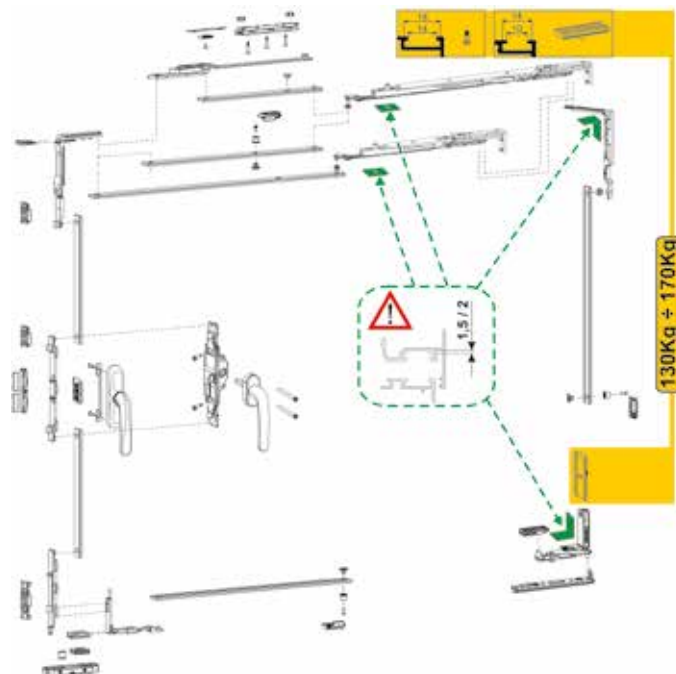
Tilt-and-Turn hardware is composed by:

- Hinges and arms kit
- Set of fastening mechanisms for cremones and window handles
- Cremone or window handle (different models to be chosen from the specific catalogue section)

ADJUSTMENTS

The adjustments are micrometric and independent.

Direction	Adjustment
Height	- 0,5 / + 1,5 mm
Side	± 1,2 mm
Compression	± 2,4 mm
Falling sash	- 3,5 / + 1,5 mm



CERTIFICATION

FUTURA 3D 170 HP Invisible is certified to the RAL 607/3 programme (classification test to EN13126-8:2006 plus periodic monitoring of the production process).



TABLE OF MAXIMUM GLASS THICKNESS

(WEIGHT LESS THAN 130 KG)

2500	43	39	36	31	27	24	22	20	18	17	15	14	14	13
2400	45	51	38	32	28	25	23	21	19	17	16	15	14	
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	50	50	50	50	50	50	50							
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800

TABLE OF MAXIMUM GLASS THICKNESS

(WEIGHT LESS THAN 170 KG)

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	29	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	22	
1100	50	50	50	50	50	50	50	47	39	33	29	25		
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	39					
700	50	50	50	50	50	50	50							
600	50	50	50	50	50	50	50							

TABLE OF MAXIMUM LOAD CAPACITY

(WEIGHT LESS THAN 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	130
1500	130	130	130	130	130	130	130	130	130	130	130	130	130	122
1400	130	130	130	130	130	130	130	130	130	130	130	130	121	114
1300	130	130	130	130	130	130	130	130	130	130	120	111	104	106
1200	130	130	130	130	130	130	130	130	130	130	119	110	102	
1100	130	130	130	130	130	130	130	130	118	118	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	97							
600	130	130	130	130										

TABLE OF MAXIMUM LOAD CAPACITY

(WEIGHT LESS THAN 170 KG)

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



INWARD OPENING TILT-AND-TURN HARDWARE

RANGE



Complete system for the construction of Tilt-and-Turn windows with load capacity of up to 90 kg. Available in the micro standard and Logica Tilt-First versions.

TECHNICAL FEATURES

Making a Classic 3D 80 Tilt-and-Turn window mechanism requires:

- Hinge kit
- Set of fastening mechanisms for cremones and window handles
- Arms, available in two versions (standard and Logica Tilt-First).
- Cremone or window handle (different models to be chosen from the specific catalogue section)

ADJUSTMENTS

The adjustments are micrometric and independent.

Direction	Adjustment
Height	- 0,5 / + 1,5 mm
Side	± 1 mm
Compression	± 2,4 mm
Falling sash	- 3,5 / + 1,5 mm

TABLE OF MAXIMUM GLASS THICKNESS

2500	28	24	20	18	16	14	13	12	11	10	9	9	8
2400	29	25	21	19	17	15	14	13	12	11	10	10	9
2300	31	26	22	19	17	15	14	13	12	11	10	10	9
2200	32	27	23	20	18	16	15	13	12	11	11	10	9
2100	34	28	24	21	19	17	15	14	13	12	11	11	10
2000	35	29	25	22	20	18	16	15	14	13	12	11	10
1900	37	31	27	23	21	19	17	15	14	13	12	12	11
1800	39	33	28	25	22	21	19	16	15	14	13	12	11
1700	42	35	30	26	23	21	19	18	16	15	14	13	11
1600	42	37	32	28	25	22	20	18	17	16	14	13	11
1500	42	39	34	29	26	24	21	20	18	16	14	13	11
1400	42	42	36	32	28	25	23	21	19	16	14	13	11
1300	42	42	39	34	30	32	25	22	19	16	14	13	
1200	42	42	42	37	33	29	32	22	19	16	14		
1100	42	42	42	40	36	32	32	22	19	16			
1000	42	42	42	42	39	32	32	22	19				
900	42	42	42	42	40	32	32	22					
800	42	42	42	42	40	32	32						
700	42	42	42	42	40	32							
600	42	42	42	42	40	32							
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700

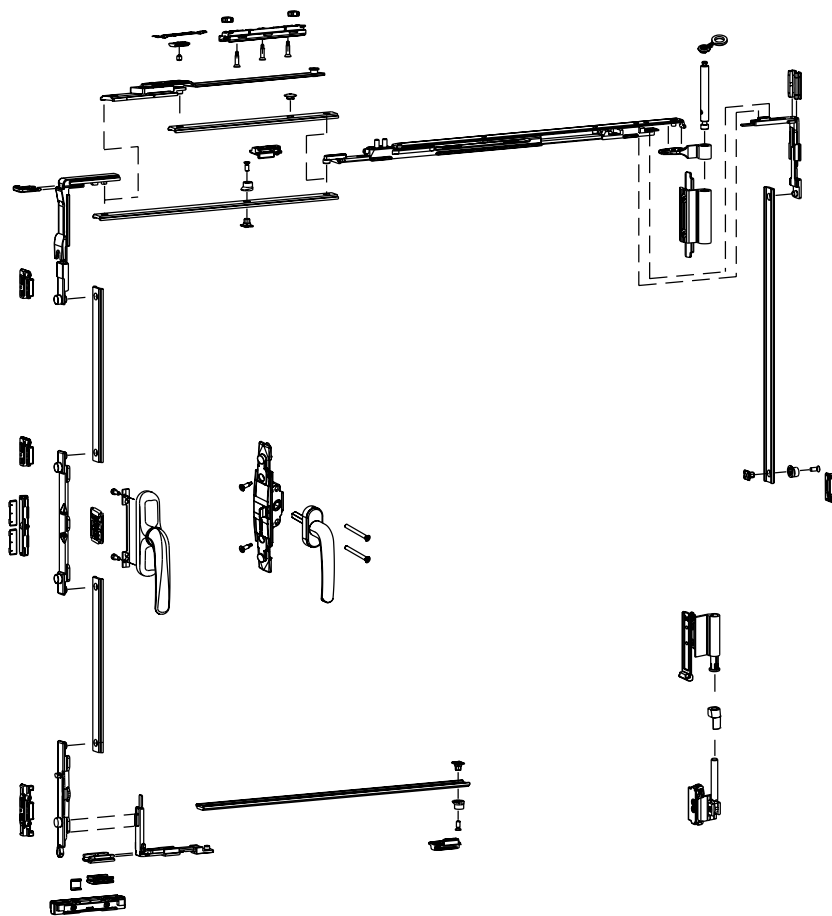


TABLE OF MAXIMUM LOAD CAPACITY

2500	90	90	90	90	90	90	90	90	90	90	90	90	90
2400	90	90	90	90	90	90	90	90	90	90	90	90	90
2300	90	90	90	90	90	90	90	90	90	90	90	90	90
2200	90	90	90	90	90	90	90	90	90	90	90	90	90
2100	90	90	90	90	90	90	90	90	90	90	90	90	90
2000	90	90	90	90	90	90	90	90	90	90	90	90	90
1900	90	90	90	90	90	90	90	90	90	90	90	90	90
1800	90	90	90	90	90	90	90	90	90	90	90	90	90
1700	90	90	90	90	90	90	90	90	90	90	90	90	90
1600	90	90	90	90	90	90	90	90	90	90	90	90	90
1500	90	90	90	90	90	90	90	90	90	90	90	90	90
1400	90	90	90	90	90	90	90	90	90	90	90	90	90
1300	90	90	90	90	90	90	90	90	90	90	90	90	90
1200	90	90	90	90	90	90	90	90	90	90	90	90	90
1100	90	90	90	90	90	90	90	90	90	90	90	90	90
1000	90	90	90	90	90	90	90	90	90	90	90	90	90
900	90	90	90	90	90	90	90	90	90	90	90	90	90
800	90	90	90	90	90	90	90	90	90	90	90	90	90
700	90	90	90	90	90	90	90	90	90	90	90	90	90
600	90	90	90	90	90	90	90	90	90	90	90	90	90
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700



INWARD OPENING TILT-AND-TURN HARDWARE

FUTURA 3D ARCHED AND ANGLED

Complete system for the construction of Tilt-and-Turn windows that is specific for arched and sloping window types.

Making a FUTURA 3D Arched and Angled Tilt-and-Turn window mechanism requires:

- Fastening mechanism kit including hinges, arm and hardware
- Cremone or window handle

The adjustments are micrometric and independent.

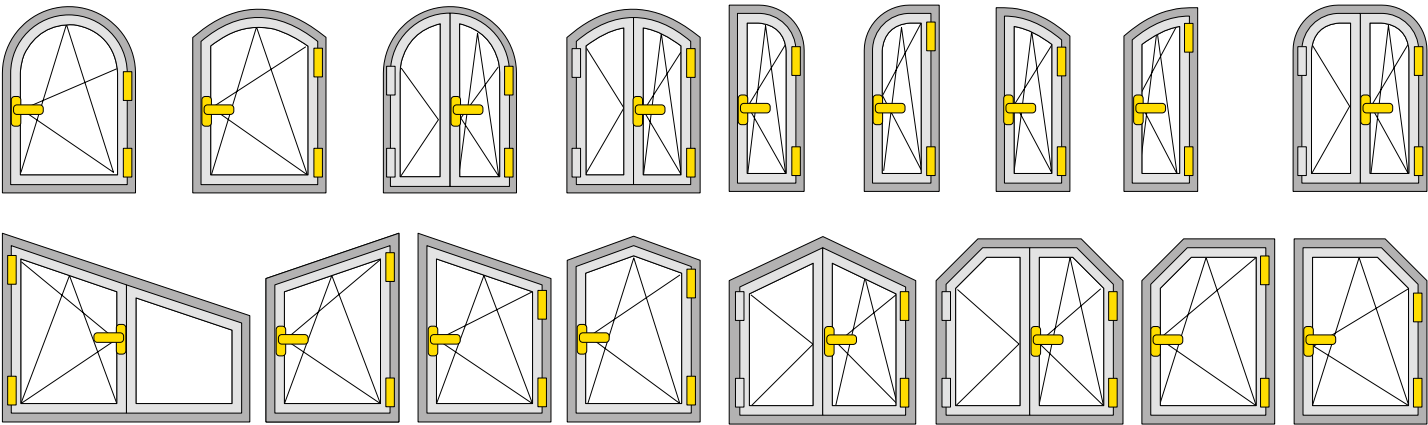
The convenience of Tilt-and-Turn on non-standard versions.



FUTURA ARCO



FUTURA FSQ



FUTURA 3D TILT-AND-TURN WINDOW VERSIONS: TYPE AND WEIGHT

Item	Description	Items per pack
04671K	Futura T/T mechanism for arched and angled windows	5
04023K	Variable corner cleat	10
04301K	Futura T/T supplementary arm	5



INWARD OPENING TECH PIVOT

Pivoted hinges with friction-controlled opening up to 30°; gripping force selectable by turning a screw.

The sash opens up to 30°; to open further for cleaning, press the release button located on one of the two hinges. When the lever is released, the mechanism opens to 180° and will lock the sash automatically in this position to avoid unauthorized closures.

To close the sash, operate the release button again. Each pair of Tech pivot hinges requires a set of fixing plates specific to the selected profile, each set of plates includes 2 sash plates and 2 frame plates.

Horizontal pivot-hinged sash

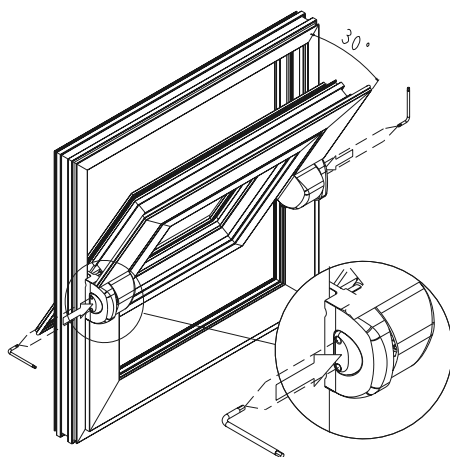
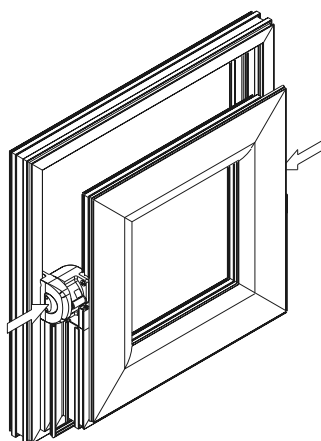
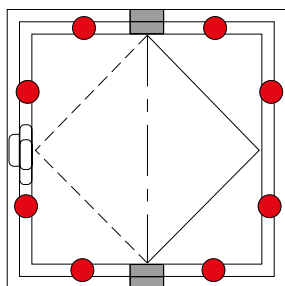
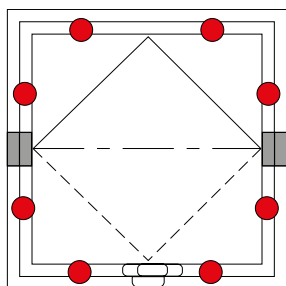
Max weight of sash (aluminium + glass): 120 Kg

Max sash dimensions: height 2200 mm - width 1600 mm

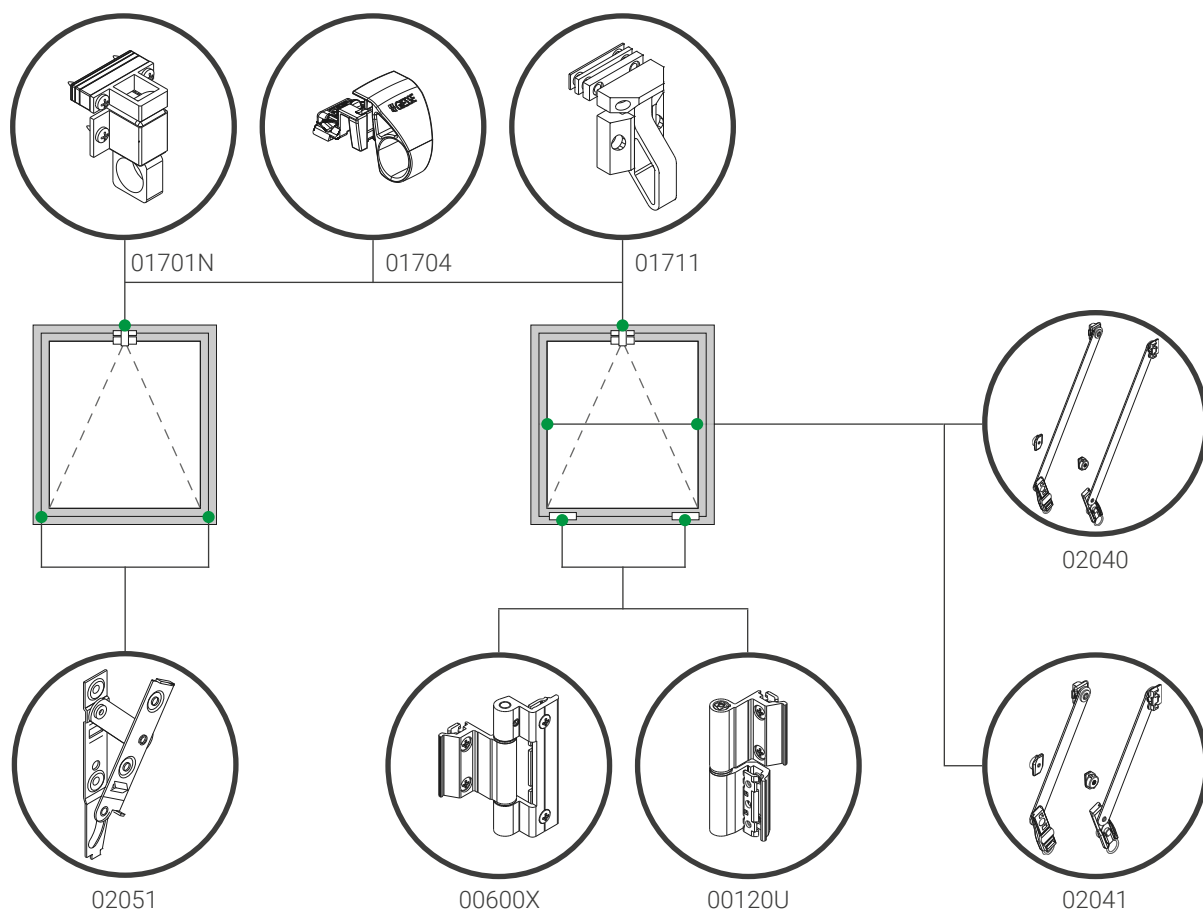
Vertical pivot-hinged sash

Max weight of sash (aluminium + glass): 100 Kg

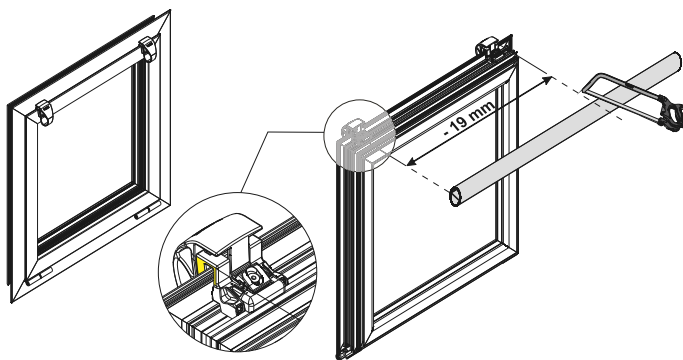
Max sash dimensions: height 2200 mm – width 1600 mm



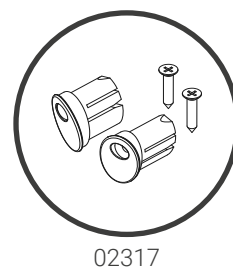
INWARD OPENING BOTTOM-HUNG WINDOW



APPLICATION ON TWIN CATCH



PLUGS IN POLYCARBONATE AND ABS



Item	Description
00120U	Flash base hinge
00600N	Bridge 2 hinge
01701N	Grisbi finger catch
01704	Twin catch
01711	Rivo catch

Item	Description
02040K	Long arm rallenty mm 250
02041K	Short arm rallenty mm 150
02051	Hinge for Bottom-Hung window
02317	Twin bar closing plugs

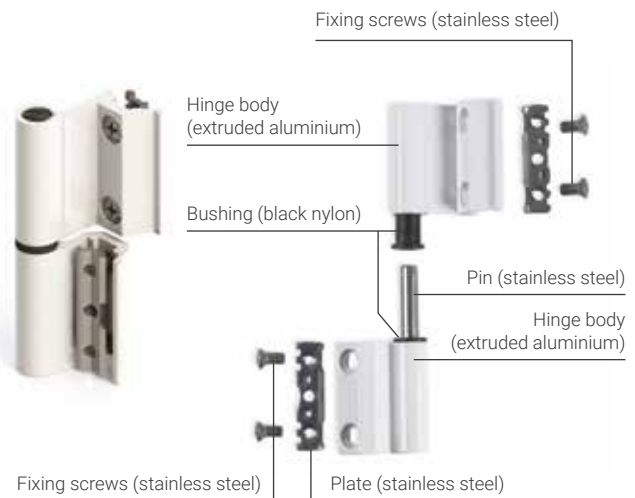
WINDOW CLAMP HINGES

FLASH BASE HINGE

Pre-assembled, self-positioning and two-handed with stainless steel pin.

The Flash Base hinge features the GIESSE-RAPID (patented) fixing system that allows it to be fitted quickly and securely to the window profiles. The special shape of the hinge and the fixing plate allows fast installation – even on windows that are already assembled – plus perfect positioning on the profile. Available in the full range of RAL and TREND colours. Flash Base hinge can be used for load capacities of up to 75 kg.

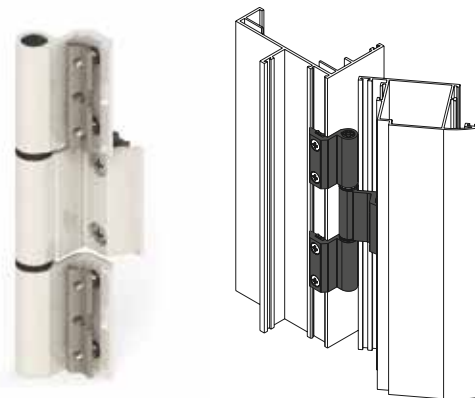
MAX
75 KG



FLASH BASE 3 WINGS HINGE

Flash Base 3 wings has the same features of Flash Base hinge, but can be used for load capacities up to 100 kg.

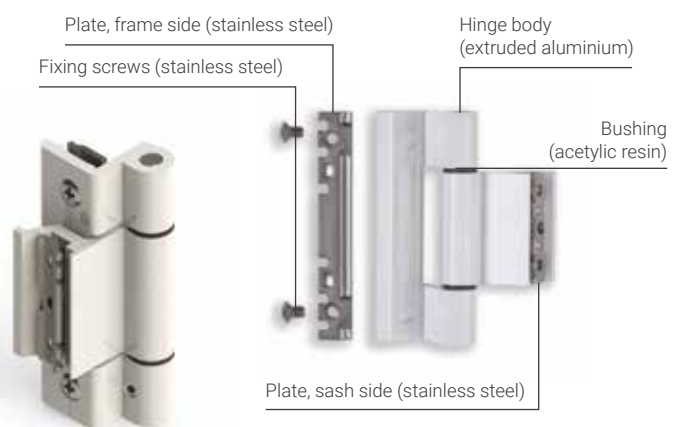
MAX
100 KG



BRIDGE 2 HINGE

Resistant and quick to assemble, it has a wide range of different versions for all the main profiles. Bridge 2 is the hinge for lightweight doors and windows made using window profiles. It is recommended for use in applications that involve particular cross stress on the pin axis, for example in the case of wide sashes in inward or outward opening windows. Bridge 2 can be used for load capacities up to 100 kg. If used in Bottom-Hung openings, Bridge 2 has load capacity up to 250 kg.

MAX
100 KG



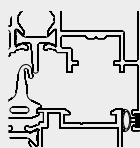
DOOR CLAMP HINGES

FLASH XL HINGE

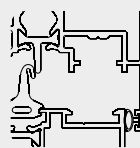
Flash XL is the hinge designed for doors using profiles with channel, quick and easy to install (no need for drilling screws holes).

For sashes up to 100 kg with two hinges and 120 kg with three hinges as tested in compliance with EN1935.

Flash XL can be easily adjusted on side ± 1 mm and in height $-2/+4$ mm even after the door is already installed.



Euro Groove



Alu 16 Groove

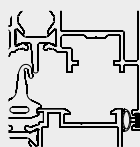


LINEA 3D HINGE

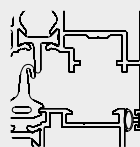
Linea 3D features perfect concentricity of hinge bodies even after adjustment, avoiding unpleasant misalignment. Linea 3D is for sashes up to 120 kg with two hinges and 150 kg with three hinges, as tested in compliance with EN1935. Linea 3D is tested to 1 million cycles in compliance with EN1191.

The cover system allows the customization and the protection of the hinge: the cover can be applied after the installation, in order to prevent damage to the hinge while the door is being transported and installed.

Side adjustment ± 2 mm, compression adjustment of $\pm 0,5$ mm, height adjustment $-2/+4$ mm



Euro Groove



Alu 16 Groove



Linea 3D side adjustment



FLASH XXL HINGE

No type of machining is necessary for the assembly of Flash XXL, which requires only traditional fit in fixing plates. The use of a bearing placed between the hinge on the sash side and the hinge on the frame side, guaranteeing optimal sliding, also on the doors at the limit of load capacity. Flash XXL is easy to adjust laterally (± 1 mm) and in height ($-2/+4$ mm). All adjustments can be made even when the door is already installed.

Flash XXL can be used for load capacities of up to 180 kg.



DOOR PANIC BAR

GS AP001

GS AP001 is the panic device for push bar applications which combines easy assembly, a long working lifetime, compatibility with most profiles, attention to design and highly certified performance, all in one. The vast range enables panic exits to be created for every situation.

Reliability of the devices is guaranteed by the high quality and resistance of the materials selected. The mechanism is made of galvanised steel, the bar of extruded aluminium and the supplementary locking points (latches) of stainless steel. Bolt guards are made of galvanised steel. The GS AP001 panic device is also available (with different codes) in a fire door version (GS AP001 F).

GS AP001

EN 1125: 2008

3	7	7	0	1	4	2	2	A	A
---	---	---	---	---	---	---	---	---	---

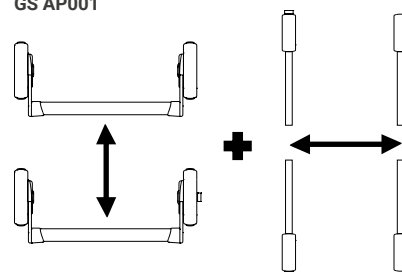
GS AP001 F

EN 1125: 2008

3	7	7	B	1	4	2	2	A	A
---	---	---	---	---	---	---	---	---	---



GS AP001



GS AP002

GS AP002 is the panic device for touch bar applications which combines easy assembly, a long working lifetime, compatibility with most profiles, attention to design and highly certified performance, all in one. The vast range enables panic exits to be created for every situation. The GS AP002 is both right-hand and left-hand, so mounting on doors opening to the right or the left involves no operations on the device.

Reliability of the devices is guaranteed by the high quality and resistance of the selected materials. The mechanism is made of galvanised steel, the bar of extruded aluminium and the supplementary locking points (latches) of stainless steel. Bar cover guards and bolt guards are made of galvanised steel. The GS AP002 panic device is also available (with different codes) in a fire door version (GS AP002 F).

GS AP002

EN 1125: 2008

3	7	7	0	1	4	2	2	A	A
---	---	---	---	---	---	---	---	---	---

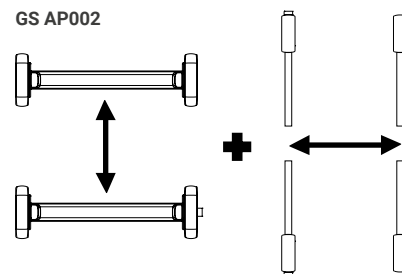
GS AP002 F

EN 1125: 2008

3	7	7	B	1	4	2	2	A	A
---	---	---	---	---	---	---	---	---	---



GS AP002



GS AP100

The AP100 security insertion panic exit device fitted with a single or multipoint lock, provides extra security against intrusion. The insertion device is made using the following elements:

- the mechanism
- the operation bar
- the lock (single or multipoint version)
- the single striker for the central lock or the striker kit for multipoint locks (with 3 locking points)
- the cylinder (available in various widths and types).

The entire range of locks is reversible and compatible with European profile cylinders. The face plate is in stainless steel and the components of the lock in galvanized steel.

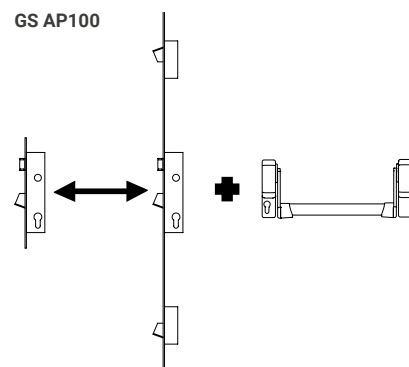
GS AP100

EN 1125: 2008

3	7	6	0	1	4	2	1	A	B
---	---	---	---	---	---	---	---	---	---



GS AP100



COMPONENTS FOR AP001 AND AP002

Supplementary latches

The GS AP001 and GS AP002 panic exit device application models are available with supplementary locking points (latches) which make the door more secure.

The supplementary latches are available in two versions:

- with vertical top / bottom locking
- with lateral top / bottom locking

Strikers for latches

The strikers of the GS AP001 and GS AP002 application panic exit devices are available in three versions:

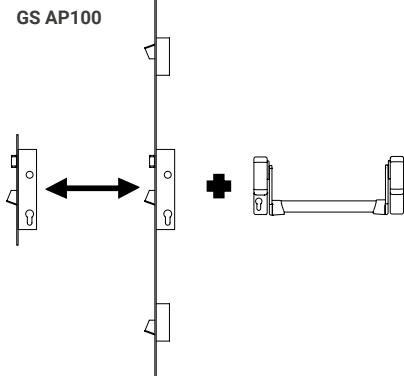
- bolt strikers (standard and fire door version)
- latches
- floor striker

External control

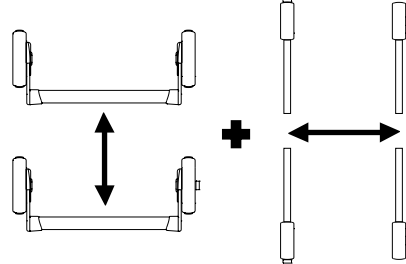
The external control common to all GS AP001 panic exit devices enables operation of the bar to be impeded, thus preventing opening from the outside.

It can be combined with all the configurations indicated.

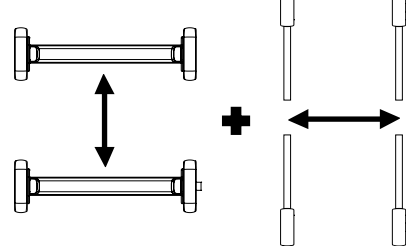
GS AP100



GS AP001



GS AP002



DOOR

FRONTAL APPLICATION HINGES

DOMINA HP

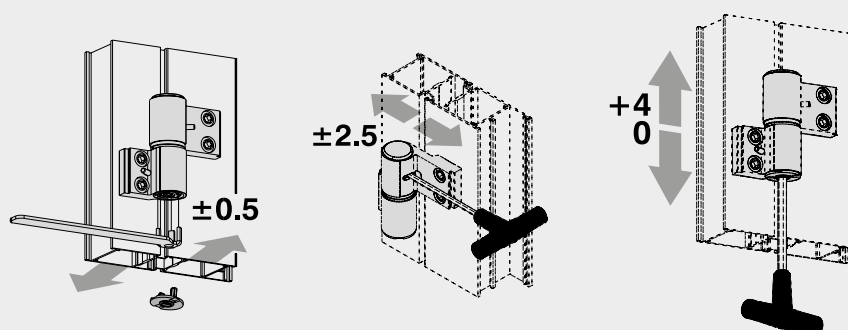
Domina HP is the hinge with excellent performance and reliability for use with aluminium doors made with door profiles.

DOMINA HP is the ideal solution for the assembly of doors of large dimensions, heavy weight and intensive use, for instance for use on doors in public buildings and schools.

The technical solutions used for Domina HP guarantee the hinge reliability, even under the most intense use conditions.

Sashes with Domina HP can reach performances of up to 180 kg with two winged hinges and up to 200 kg with three winged hinges, according to the size and the number of hinges, the fixing system and the profile thickness.

Domina HP ensures great reliability over time, even in the most demanding conditions. Its longevity is ensured by numerous cycle tests carried out in accordance with standard EN1935.



Classification in accordance with EN 1935:2002

DOMINA HP – DOMINA HP COVER

4	7	5÷4	1	1	4	1	12÷14
↑	↑	↑	↑	↑	↑	↑	↑
1	2	3	4	5	6	7	8

1. Usage grade (1=light, 2=medium, 3=heavy, 4=severe)
2. Durability (3=10,000 cycles, 4=25,000, 7=200,000 cycles)
3. Mass of test door assembly (0-7, e.g. 7=160 Kg)
4. Fire / smoke resistance (0=not suitable, 1=suitable)
5. Safety in use (1=safe use)
6. Corrosion resistance (0-4, e.g. 4=very high resistance)
7. Burglar-resistance (0=not suitable, 1=suitable)
8. Class (1-14, e.g. 14=best overall specifications)



Domina HP and Domina HP Cover hinges have achieved the SKG marking with the classification two and three stars, in conformity with reference BRL 3104, which certifies the anti-burglar resistance of the accessories installed on a door.



DOMINA HP COVER

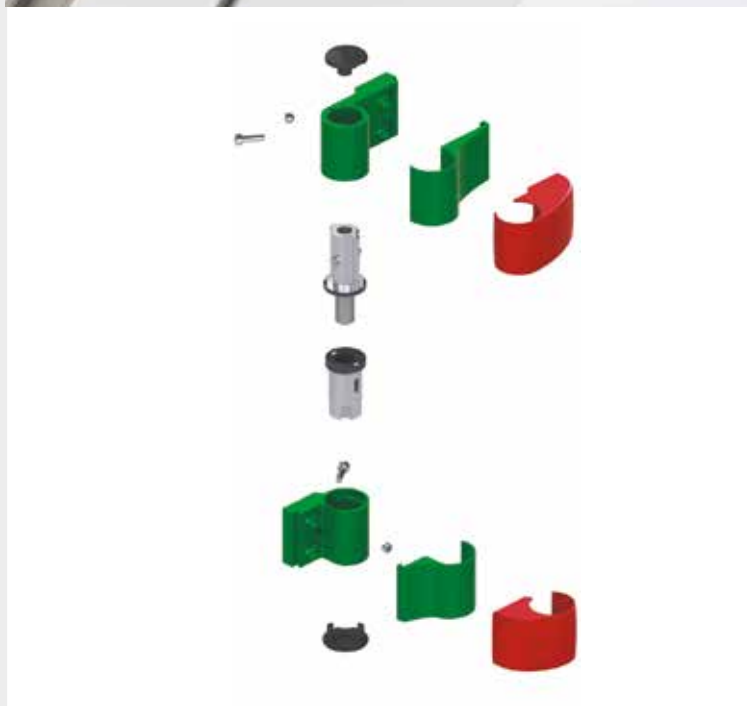
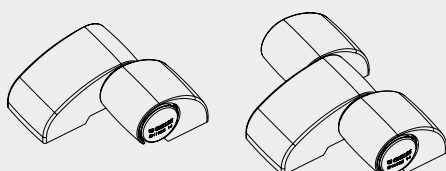
Domina HP range includes also the special Domina HP Cover version, which allows the creation of doors with a new and incomparable design.

The combination of the hinge with the relative cover, painted in the desired colour, will allow to make doors with a charming different design.

The cover set is sold separately from the hinge.

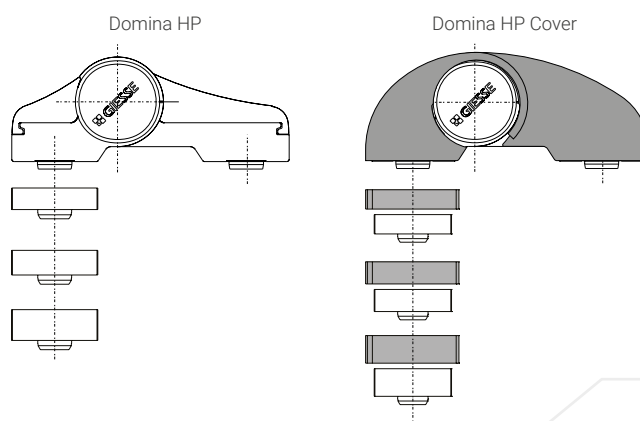
Domina HP Cover has the same technical features as Domina HP.

Sashes with Domina HP Cover can reach performances of up to 180 kg with two-winged hinges and up to 200 kg with three-winged hinges, according to the size and the number of hinges, the fixing system and the profile thickness.



COMPLETE SELECTION

The extruded aluminium shims in 7, 8, 9 or 10 mm, available for the Domina HP and Domina HP Cover versions, when combined with their respective hinges in the flush version allow the application of various step profiles available on the market. The possibility of combining the hinge and the shim in order to obtain a stepversion allows optimization of warehoused articles usage. Like the hinge, the shim also includes a steel centering bushing which increases profile grip.

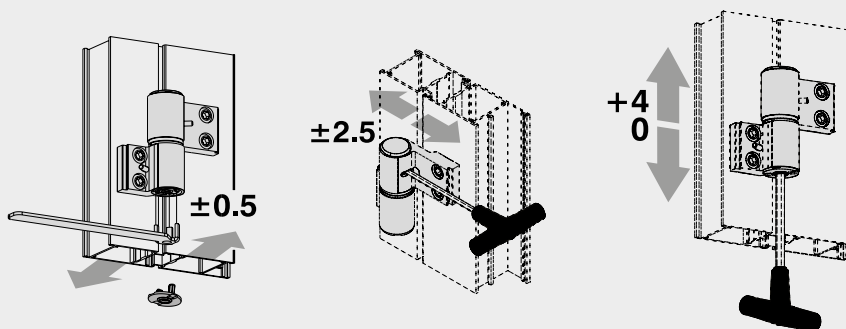


DOOR

FRONTAL APPLICATION HINGES

DOMINA CLASSIC

High performances and reliability, for use with aluminium doors with door profiles subject to intensive use. For sashes up to 140 kg with two hinges and 180 kg with three hinges, as tested in compliance with EN1935, according to the size and the number of hinges, the fixing system and the profile thickness. Side adjustment ± 2.5 mm, height adjustment 0/+4 mm, compression adjustment ± 0.5 mm, even with door installed.

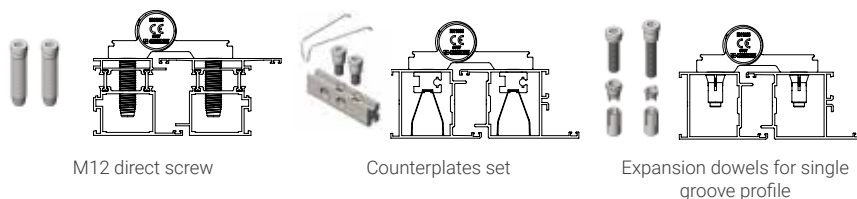


MAX
180 KG

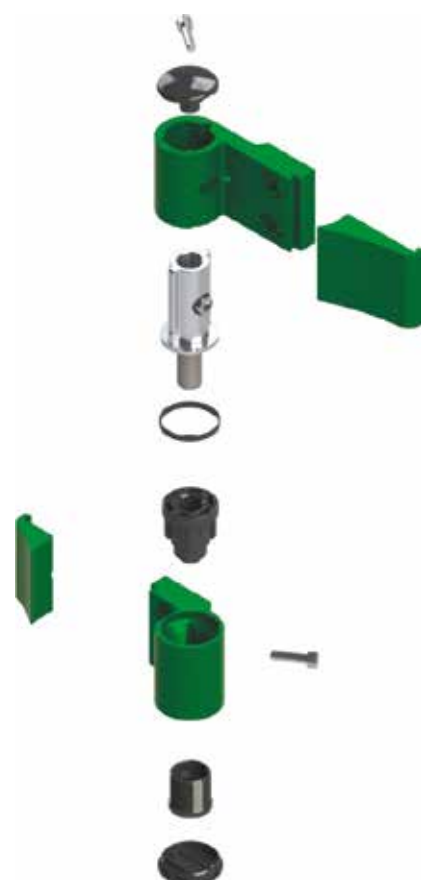
FIXING SYSTEMS

FOR DOMINA HP, HP COVER AND CLASSIC

Domina HP, HP Cover and Domina Classic can be combined with various fixing systems, which must be chosen according to the type of application. Machining operations on the profile are always the same: $\varnothing 11$ mm hole.



	M12 direct screw	Counterplates set	Expansion dowels for single groove profile
Flush hinge	✓	✓	✓
Hinge with step with bushing		✓	✓
Hinge with step without bushing	✓		

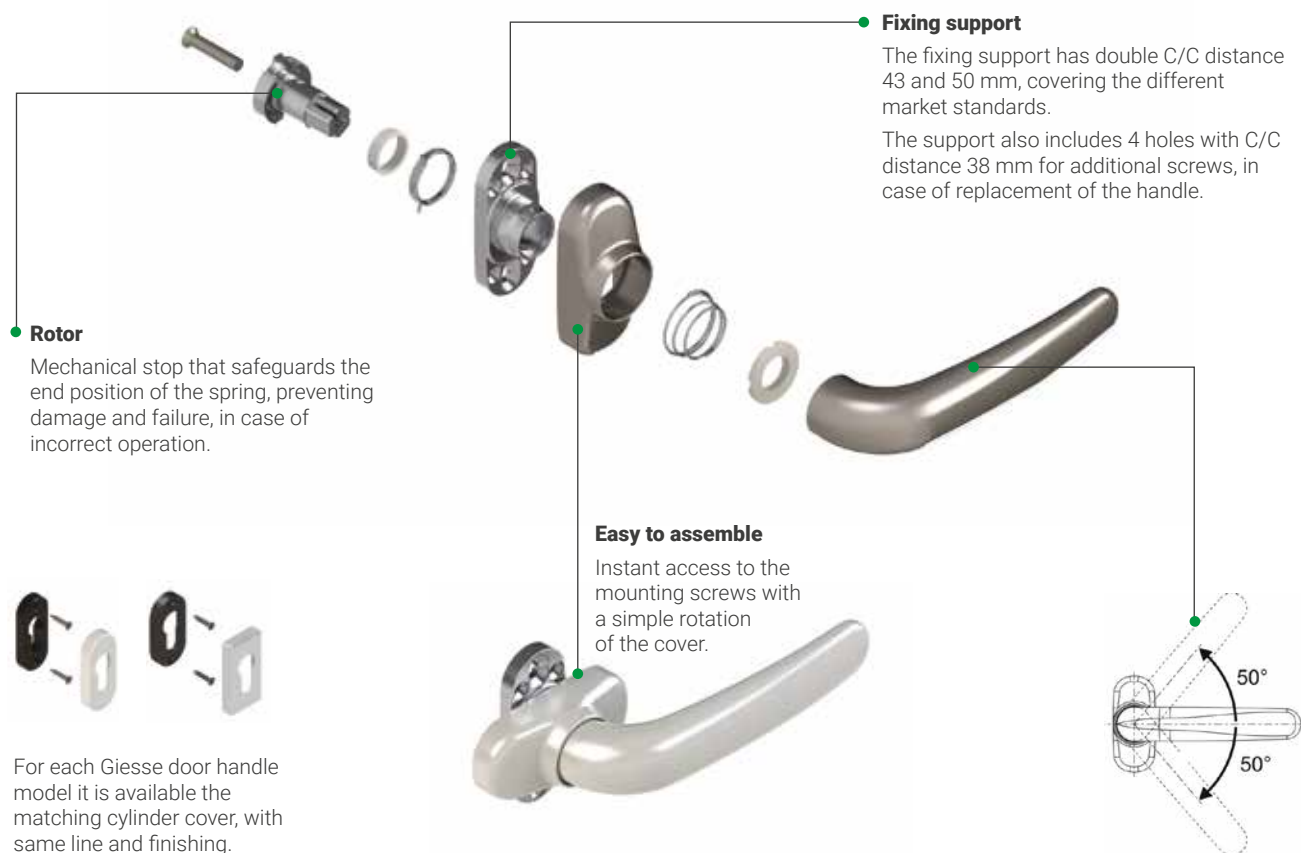


DOOR HANDLES

Giese door handles meet the market's growing need for a reliable, competitive and aesthetically modern product.

The internal handle mechanism, designed to last a long time, permits reaching excellent levels of reliability and resistance, ensuring full functionality of the handle even under severe conditions, for example when used in public buildings and hospitals.

Giese door handles brilliantly passed the cyclical testing with 200,000 cycles in accordance with EN1906 standard which defines the requirements and test methods for door handles and knobs.



Prima Plus



Asia



Kora

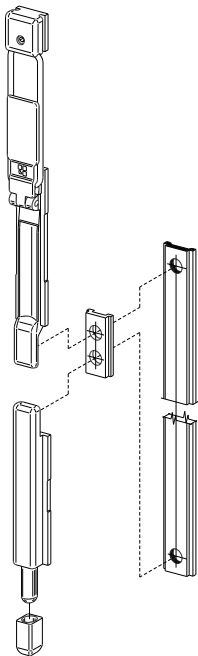


Master Plus

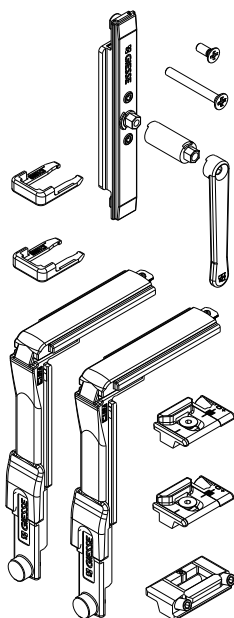




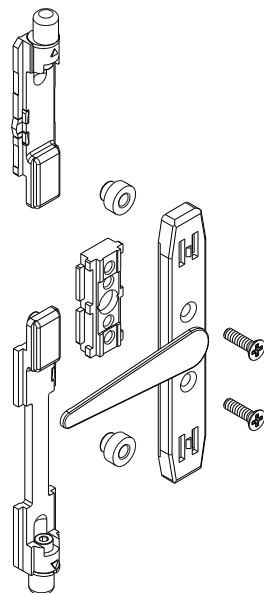
DOOR BOLTS



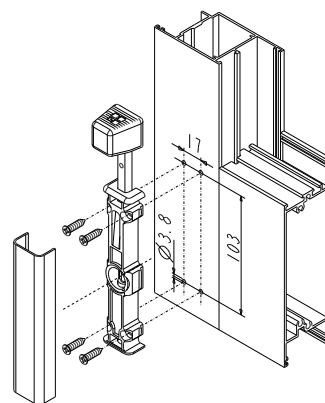
TOTEM
BOLT



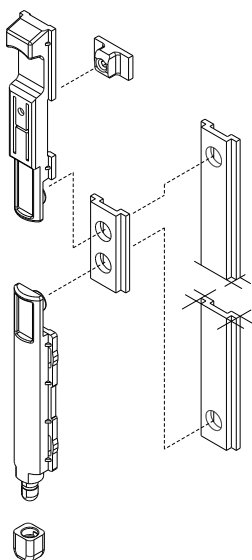
PERIMETRAL
CLOSING



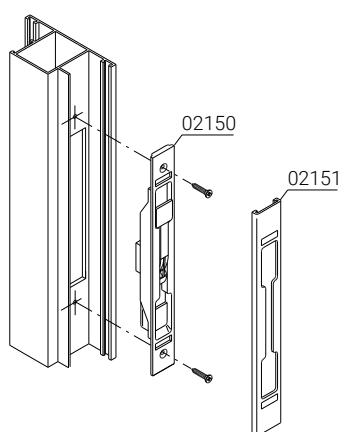
TWO-WAYS
BOLT



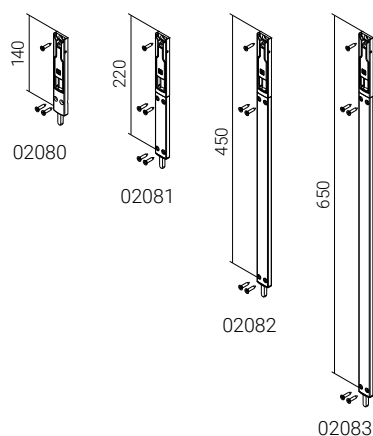
BULL
BOLT



GIAP BOLT



PESOS BOLT



MAYA BOLTS

Available finish

410 (Pure white 9010)

372 (Metallic silver)

500 (Black RAL 9005)



DOOR LOCKS

DOOR SINGLE LOCK

WITH SPRING LATCH AND PIVOTING BOLT

Lock compatible with European profile cylinders, has a burglarproof pivoting bolt and a reversible spring latch (RH or LH).

- Bolts operated with the cylinder
- Spring latch operated with the cylinder and with the 8 mm handle spindle
- Cylinder handle C/C distance 85 mm
- Bolt with thickness of 10 mm and min protrusion of 24 mm
- Spring latch with 10 mm protrusion



DOOR TOP-BOTTOM LOCK

WITH SPRING LATCH AND PIVOTING BOLT

Lock compatible with European profile cylinders, has a burglar-proof tilting bolt and a reversible spring latch (RH or LH), adjustable from 10 to 15 mm.

- Bolts operated with the cylinder
- Spring latch operated with the cylinder and with the 8 mm handle spindle
- Cylinder handle C/C distance 85 mm
- Bolt with thickness of 10 mm and min protrusion of 24 mm
- Spring latch with 10 to 15 mm protrusion
- The pair of two-way adapters supplied with the lock, for connecting to the polyamide rod, enables making top bottom locking at several points
- Stroke 15.5 mm
- The adapters for connecting to the rod have connecting pins size 8 mm



DOOR SINGLE LOCK

WITH ADJUSTABLE ROLLER AND PIVOTING BOLT

Lock compatible with European profile cylinders, has a burglarproof pivoting bolt and a protrusion adjustable roller.

- Bolts operated with the cylinder
- Bolt with thickness of 10 mm and min protrusion of 24 mm
- Roller protrusion adjustable from 4 mm to 13 mm



DOOR SINGLE LOCK

WITH ROTATING LATCH AND SHIFTING BOLT

- Cylinder handle C/C distance 85 mm
- Shifting bolt 15 mm with thickness of 10 mm
- Spring latch with 9 to 13 mm protrusion



DOOR MULTIPOINT LOCK

WITH FLAT FRONT

Lock compatible with European profile cylinders, has burglarproof pivoting bolts and a reversible spring latch (RH or LH).

- Bolts operated with the cylinder
- Spring latch operated with the cylinder and with the 8 mm handle spindle
- Cylinder handle C/C distance 85 mm
- Bolts with thickness of 10 mm and min protrusion of 24 mm
- Spring latch with 10 mm protrusion



DOOR MULTIPOINT LOCK

WITH U-SHAPED FRONT

Lock compatible with European profile cylinders, has burglarproof pivoting bolts and a reversible spring latch (RH or LH).

- Bolts operated with the cylinder
- Spring latch operated with the cylinder and with the 8 mm handle spindle
- Cylinder handle C/C distance 85 mm
- Bolts with thickness of 10 mm and min protrusion of 24 mm
- Spring latch with 10 mm protrusion



The Giese locks combine with Giese door counterplates and door cylinders. For a complete view of the range see the General Technical Catalogue Giese, also online at www.schlegelgiesse.it.

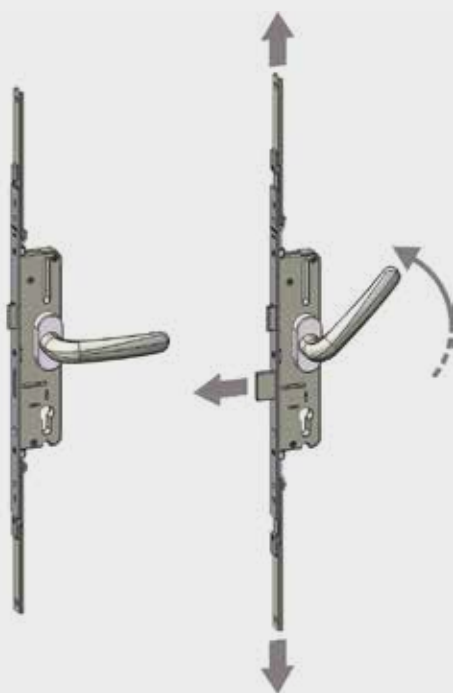
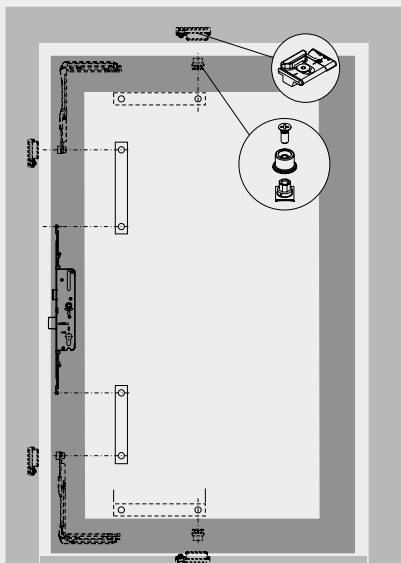


DOOR

LOCK WITH PERIMETRICAL CLOSING

Lock compatible with European profile cylinders, available in version with or without bolt. Coupled with the polyamide rod, via the specific connection adapters, the lock enables making multipoint locking by suitably choosing the number and the position of the lock points on the various sides of the door.

- Operation of the spring latch, bolt (on the version fitted with them) and adapters using the 8 mm handle spindle.
- Locking and unlocking the handle using the key
- Cylinder handle C/C distance 85 mm and 92 mm
- Bolt with thickness of 6 mm and stroke of 20 mm
- Reversible spring latch (left / right) with 10 mm protrusion
- Stroke is 18 mm
- The adapters for connecting to the rod have connecting pins size 8 mm



When the handle is turned upwards, the lock provides multipoint locking by simultaneously moving:

- 1 The upper rod upwards
- 2 The bolt forwards
- 3 The lower rod downwards

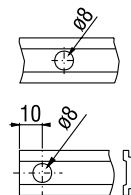
When the cylinder is operated with the key, movement of the handle is inhibited and the door is prevented from opening.

The function of the key is only to lock / unlock the rotation of the handle.

PRODUCTION SYSTEMS

SPAZIO GIESSE

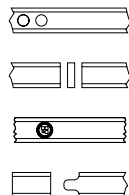
MF00



Item 581010 + 5840520000
Manual punching machine
for polyamide rod



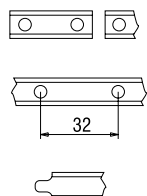
PA009



Item 5810340000
Semi automatic punching machine
control with manual polyamide rod insertion



GS009



Item 5810330000
Automatic punching machine
with automatic polyamide
rod insertion



FMR01



Item 5810510000
Perforating machine for Domina HP.
All Domina HP hinges C/C distances are possible

PS019



Item 5810190000
Punching machine for slots and
holes C/C distance 104 mm

PFA02



Item 5810420000
Automatic milling machine for Brio line



Item 5840010001
GS Multi Bench



Item 5840020001
GS Multi Pronto Kit Work



Item 5840040000
GS Multi 3D Bench



Item 5840030000
GS Multiglass Assembly



Item 5840080000
4000 Bar Trolley



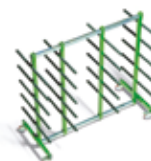
Item 5840090000
P10 trolley



Item 5840100000
V10-60 trolley



Item 5840110000
T10-130 Trolley



Item 5840070000
2000 Bar Trolley



PRIMA LINE

			
NP SUPRA HANDLE	WINDOW HANDLE	WINDOW HANDLE WITH KEY	DOOR HANDLE
			
CREMONE	CREMONE WITH KEY	TILT-AND-SLIDE HANDLE	CW CREMONE
			
LIFT-AND-SLIDE HANDLES			

KORA LINE



WINDOW HANDLE



TILT-AND-SIDE HANDLE



DOOR HANDLE



LIFT-AND-SLIDE HANDLES



ASIA LINE





NP SUPRA
HANDLE



WINDOW HANDLE



CREMONE



CREMONE WITH KEY



DOOR HANDLE

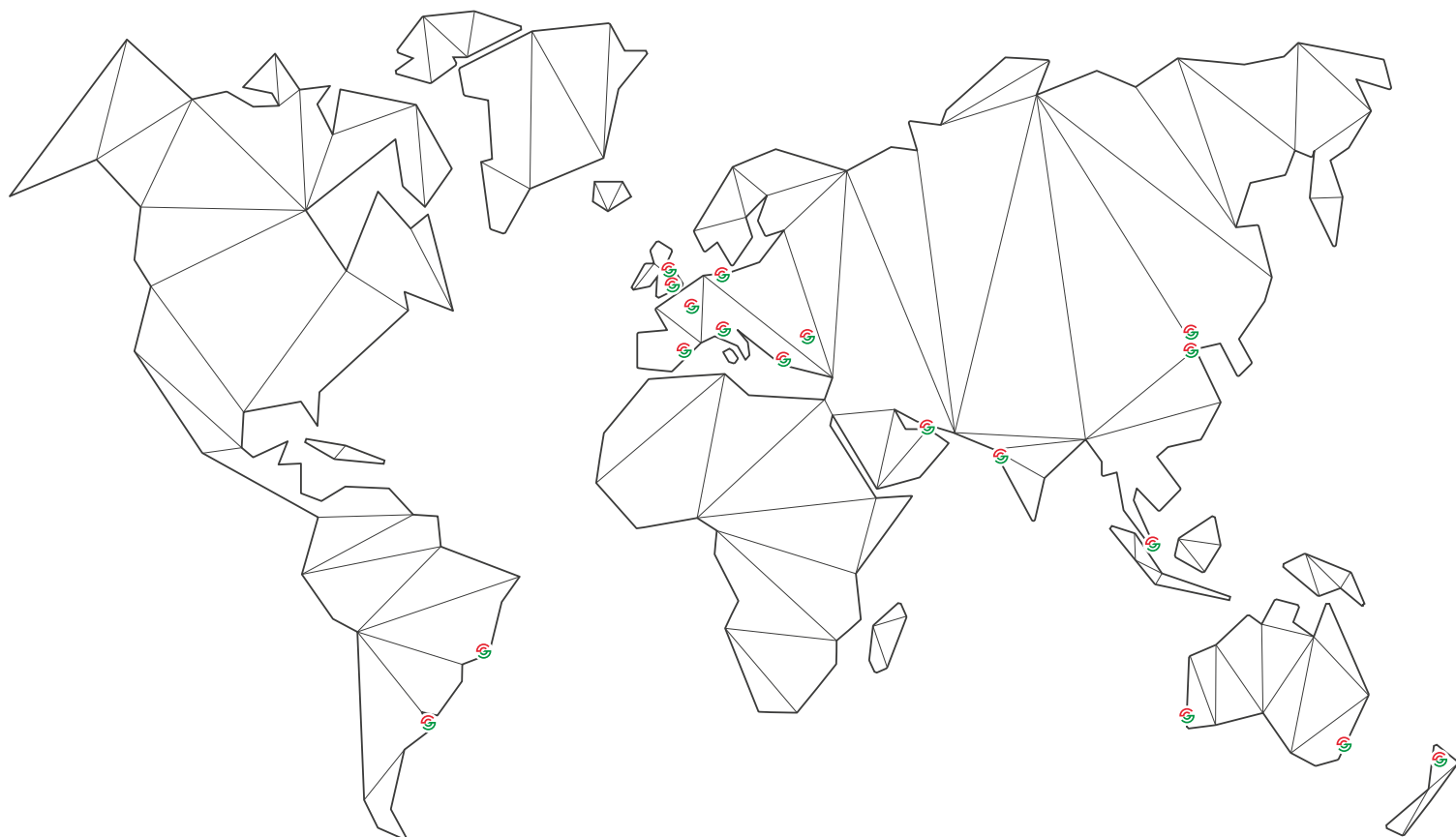


TILT-AND-SLIDE HANDLE



LIFT-AND-SLIDE HANDLES

A GLOBAL PARTNER



SCHLEGELGIESSE
MADE FOR THE FUTURE

GIESSE S.p.A.

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