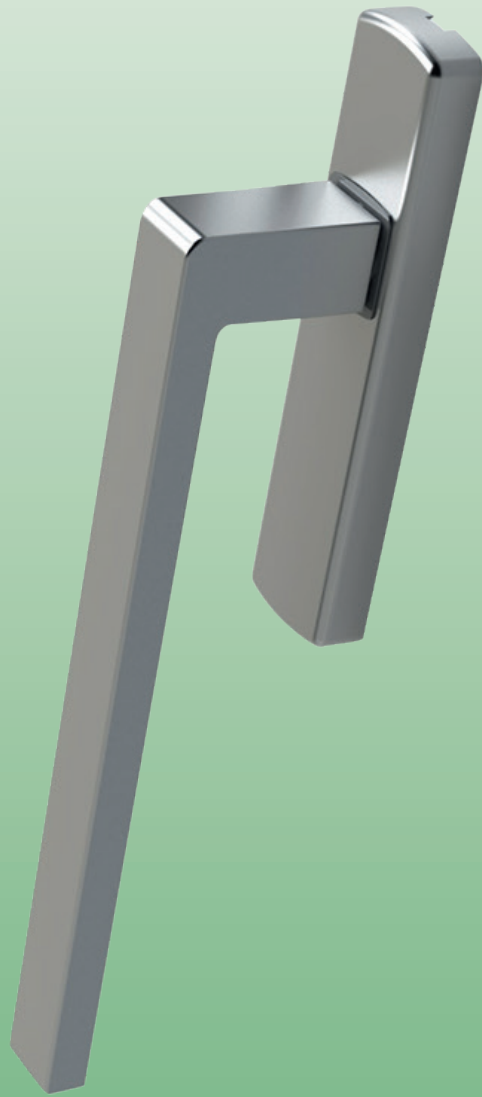


SPECIAL OPENINGS

CATALOGUE



SPECIAL OPENINGS

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Treatments and finishes

Base/Neutral

Neutral finish (code 000) means all products without a finish that cannot be subsequently painted/oxidized.

Base finishes (codes 005-006) are surface treatments that Giesse applies to products that will subsequently be painted or anodised. Base Painting (code 005) is a passivation treatment free from Chromium VI which permits retaining the surface characteristics suited for subsequent painting.

Base Painting is ideal for both powder and liquid painting. It is compatible with all pre-treatments that include an acid-etching cleaning phase.

Base Oxidation (code 006) is instead a barrelling treatment suitable for subsequent anodic oxidation.

Resins

Plastic polymers are all the products made of polyamide.

Anodised Elox

Anodised/Elox means all the products with an oxidized and/or electro-colour finish.

Oxidation is achievable solely on products made of extruded aluminium.

Painted

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

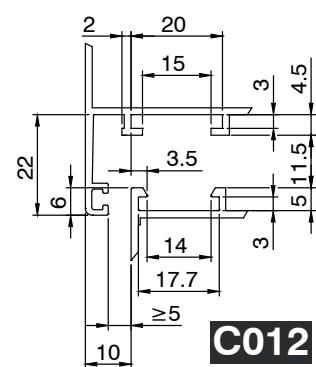
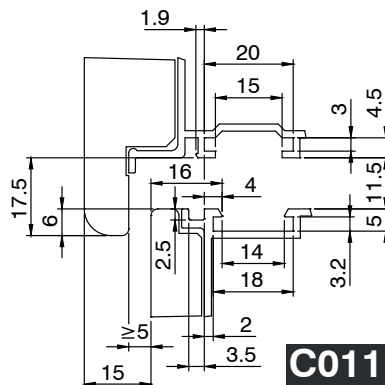
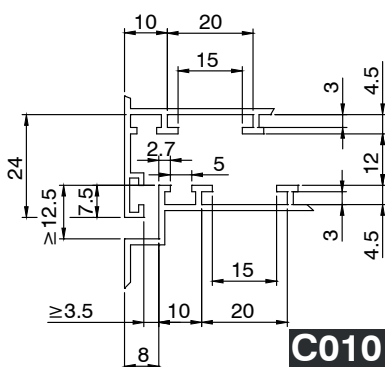
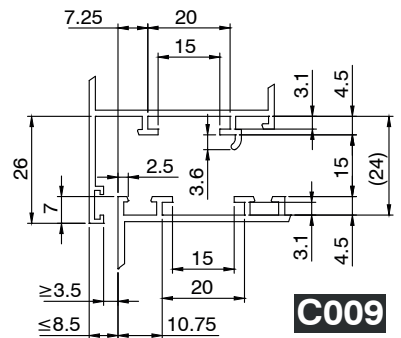
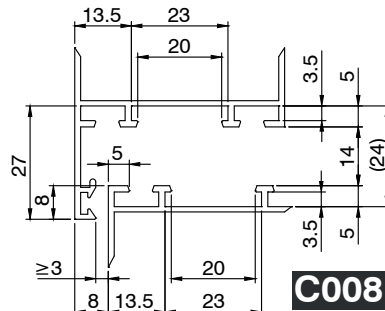
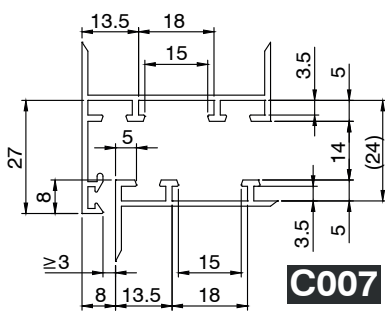
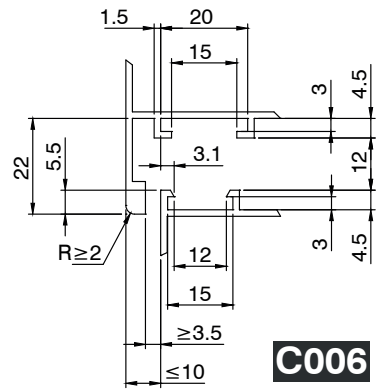
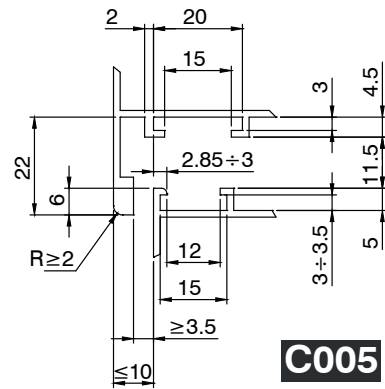
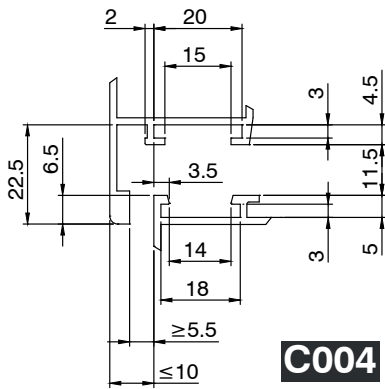
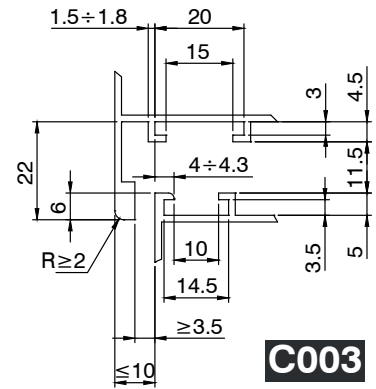
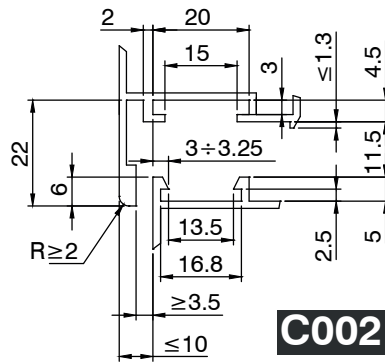
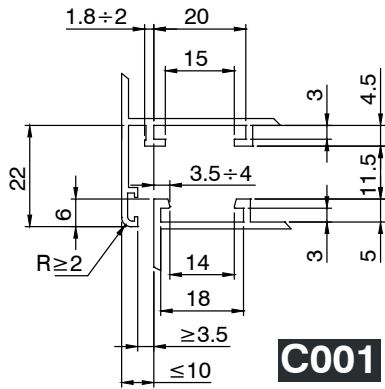
Trend/Gold/Brass

This group of finishes comprises Trend (prestige finishes for modern, stylish casements), gold oxidized, liquid painted or brass products.

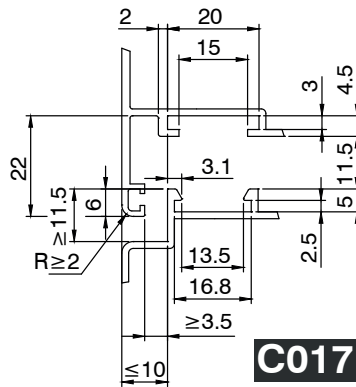
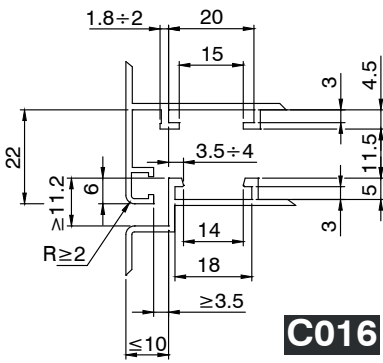
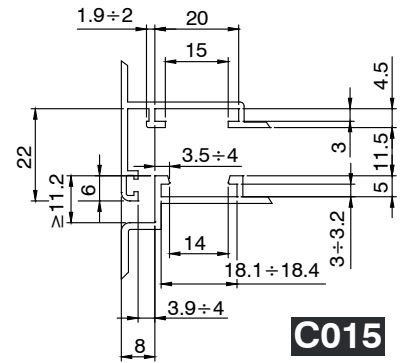
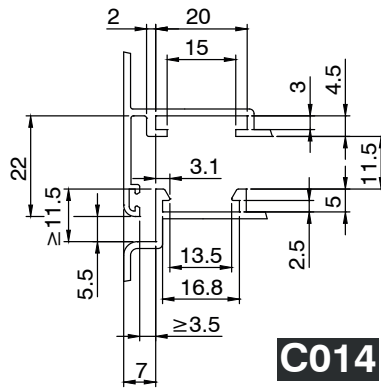
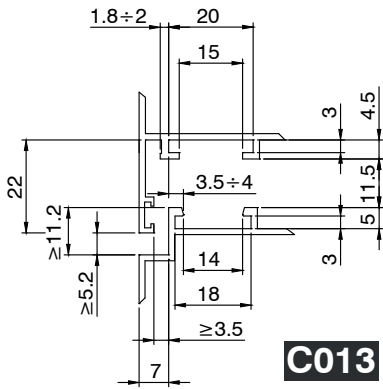
Oxidation is achievable solely on products made of extruded aluminium.

BASE/NEUTRAL	ANODISED/ELOX	PAINTED	TREND/GOLD/BRASS
000 raw/stainless steel/nylon 005 base primer 006 base oxidation 010 black nylon 501 matt black	020 silver 060 bronze 190 elettrogiesse 9	362 F1 Silver 376 Giesse silver 380 euro bronze 382 Giesse dark bronze 385 bronze Giesse 390 Euro Electro 5 410 pure white 9010 411 ~ Ral 9010 white, 25% Gloss 414 ~ Ral 1015 clear ivory 415 ~ Ral 9003 bright white 420 ~ Ral 9001 cream white 430 ~ Ral 1013 pearl white 443 glossy gray ~ Ral 7016 461 ~ Ral 3000 red 470 ~ Ral 9016 white 480 ~ Ral 6005 musk green 490 ~ Ral 8017 chocolate brown 500 ~ Ral 9005 black 510 mat green SFX 530 mat gray SFX 610 French white 9010 611 ~ Ral 9010 white 640 ~ Ral 8019 mat brown 641 ~ Ral 8019 mat brown 650 moss brown Grinz 660 moss green Grinz 670 mat brown SFX 680 ~ Ral 9002 white 700 ~ Ral 6029 Giesse Green 790 nickel white 960 ~ Ral 1247 dark brown 970 ~ Ral 9006 silver	040 gold 310 trend gold 325 trend nichelsat 350 trend cromosat 375 antique silver 383 antique bronze
PLASTIC POLYMERS			
542 pale grey 544 grey 560 white 590 black 591 black Ral 9005 - RE30			

SIDE-HUNG TYPE PROFILE CROSS-SECTIONS C



SIDE-HUNG TYPE PROFILE CROSS-SECTIONS C



For an exact series/code match, see the on-line catalogue.

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

C001

A.SER - MODENA
A.SER - CLASSICA
ABYAT - C100
ADOPEN - AD 55
ADOPEN - AD 55T
AKFA GROUP - AKI65
ALCAR - AE0943
ALCAS - AW 50
ALCEMAR - MONACO
ALDOM - TB65LT
ALEXIA - 54-72 HT
ALEXIA - 65 ATLAS
ALEXIA - 74 ELEGANCE
ALEXIA - 74 MAGNUM
ALEXIA - 65 ATLAS
ALEXIA - 74 MAGNUM
ELEGANCE
ALEXIA - 65 ATLAS PORTE
ALEXIA - 74 MAGNUM PORTE
ALLCO - EXPORT 50
ALLCO - EXPORT 50TT
ALLCO - EXPORT 45
ALLCO - K40 SORMONTO
ALLCO - ALLCO.TEC 72
ALLCO - ALLCO.TEC 72
MINIMAL
ALLCO - EXPORT 56TT
ALLCO - ALLCO HT 80
ALLCO - WS 75 FL
ALPROF - T72
ALSISTEM - PLANET 62 TT
ALSISTEM - PLANET 50 TT
ALSISTEM - PLANET 72 HT
ALSISTEM - PLANET 45
ALSISTEM - PLANET 72 PLUS
ALSISTEM - PLANET 62 PLUS
ALSISTEM - PLANET 50 PLUS
ALSISTEM - ECOSLIM 50 TT
ALSISTEM - ECOSLIM 62 TT
ALSISTEM - ECOSLIM 62 UP
ALSISTEM - PLANET 62 UP
ALSISTEM - PLANET NEO 62 UP
ALSISTEM - PLANET NEO 72 PLUS
ALSISTEM - PLANET 72 TT UP
ALUAR - ALTEZZA
ALUBIN - AD 45
ALUCANSA - AL 67 RPT
ALUGOM - ALG 55 ESTANDAR
ALUGOM - ALG 65 OPTIMA
ALUGOM - ALG 65 OPTIMA HS
ALUGOM - ALG 75 MAXIMA HS
ALUGOM - ALG 75 MAXIMA
ALUK - VENTA
ALUK - TRITON
ALUMAFEL - UNNO
ALUMAFEL - UNNO-THERMIC
ALUMARTE - 34000 RT
ALUMEC - SYNTHESIS-57
ALUMEC - SYNTHESIS 45
ALUMEC - SYNTHESIS 52
ALUMIL - M9400
ALUMIL - M11500
ALUMIL - S60
ALUMIL - S77
ALUMIL - M15000
ALUMIL - M9660
ALUMIL - S67
ALUMIL - M940
ALUMIL - M9650
ALUMIL - M20650
ALUMINCO - W 450
ALUMINCO - W 540
ALUMINCO - W 4750
ALUMINCO - W 4900
ALUPROF - MB-70 HI
ALUPROF - MB-104
ASISTAL ALUMINIUM - TH 55
BALEXCO - BL45
BURAK ALLUMINIUM - BM 72
CAPPELLO GROUP SPA - EK79TH
CAPPELLO GROUP SPA - EK53TH
CAPPELLO GROUP SPA - EK58TH

CAPPELLO GROUP SPA - EK61TH
CAPPELLO GROUP SPA - EK68TH
CAPPELLO GROUP SPA - EK69TH
CAPPELLO GROUP SPA - EK80TH
CAPPELLO GROUP SPA - EK95TH
CENTRO ALUM - RENOVA OCULTEC
CLL - TECNO CE 65 TT
CLL - TECNO CE 85 TT
CORTIZO - COR 70 IND
CORTIZO - COR 3500
CORTIZO - COR 60 HO
CORTIZO - COR 70 HO
CORTIZO - COR 70
CORTIZO - COR 2000
CUHADAROGLU - ST 70
CUHADAROGLU - ST 80
CUHADAROGLU - DE 60
DFV - SINERGY - LINEA 65 CE
DFV - SINERGY - LINEA 75 CE
DFV - SINERGY - SINERGY LINEA
DFV - SINERGY - ECOWIN TH72
DOMAL HYDRO BUILDING SYSTEM IT - STOPPER PG
DOMAL HYDRO BUILDING SYSTEM IT - DOMALBRIGHT PA70S
DOMAL HYDRO BUILDING SYSTEM IT - DOMAL EXTRATHERMIC 62
DOMAL HYDRO BUILDING SYSTEM IT - TOP TB 65
DOMAL HYDRO BUILDING SYSTEM IT - PERFORMANCE 70
DOMAL HYDRO BUILDING SYSTEM IT - TOP TB 75
DOMAL HYDRO BUILDING SYSTEM IT - AVANTIS 70
DOMAL HYDRO BUILDING SYSTEM IT - TOP TB65
MINIMALE
ENDER ALUMINIUM - EIN 55
ENDER ALUMINIUM - EIN 64
ENDER ALUMINIUM - EIN 74
ETA - START 470 TT
ETA - START 560 TT
ETA - START 410
ETA - START 640 TT
ETA - START 510
ETEM - E 45
ETEM - E 75
ETNALL - ET 45
EVEREST - 70000
EXTRUGAL - P45
EXTRUGASA - V-8000-50 RPT
EXTRUGASA - V-8000-58 RPT
FEAL - TERMO 85
FEAL - TERMO 65
FEAL - TERMO 65 PLUS
GASTALDELLO - EL65LL-PAS
GASTALDELLO - EL 76 LL
GASTALDELLO - EUROLINE 50N
GASTALDELLO - EUROLINE 65LL
GASTALDELLO - EUROLINE EL 90 IT
GEAL - HP 600
GEAL - HP 700
GEAL - HP SYSTEM SLIM
GEAL - HP 600 ANTA STYLE
GEAL - HP 820
GENERICO - ELIOS 50C - CASEMENT
GENERICO - ELIOS 50C - BALCONY

GENERICO - ELIOS 50C - DOOR
GIESSE - MASTER C001
GOS-C - GOS-C T70 PACK 4
GOS-C - GOS-C T66 HS
GOS-C - GOS-C T70 HS
GULF EXTRUSION - TB-600 SERIES
HEROAL - W 77
HILAL ALUMINIUM - H 55
HYDRO-SAPA ARGENTINA - HA 62 RPT
INDINVEST - GOLD 400
INDINVEST - GOLD 500
INDINVEST - GOLD 600
INDINVEST - GOLD 450TT
INDINVEST - GOLD 450
INDINVEST - DOGMA
INDINVEST - DOGMA LIGHT
INDINVEST - DOGMA SLIM
INDINVEST - DOGMA PRO
INDINVEST - GOLD 502
INESPAL - A54 RPT
INSTALLUX - ECLIPSE 70TH OC
ITESAL - IT-45 RPT
ITESAL - IT-61 RPT
ITESAL - IT-75 RPT
KAWNEER - ALCOA BRASIL - NG7
KRISTALL - KEEPER 61/68
KURTOGLU - 70 TH
KURTOGLU - 84 TH
MERIDIONALE ALLUMINIO - MA 72 HP
MEXALL - MX70
MUSKITA ALUMINIUM - MU 2075
MV ABITHAL - ABITHAL-GREEN
NAPCO - N 45
ORIGINAL SYSTEM HYDRO BUILDING - R 72CE
PONZIO - WS 45
PONZIO - WS 45 TT
PONZIO - WS 55 TT
PONZIO - WS 75 AS
PONZIO - WS 65 TH
PONZIO - WS 75 TH
PROFILATI - ECU 53
PROFILATI - ECU 64TT
PROFILATI - ECU 72TT
PROFILATI - ECU 53TT
PROFILATI - ECU 40
PROFILATI - ECU 66TT
PROFILATI - ECU 78TT
PROFILATI - ECU PERFEKTION
PROFILATI - ECU 52TT
PROFILATI - ECU PERFEKTION HPS
PROFILATI - ECU 66TT HPS
Q SYSTEM - Q57
QALEX - POLAR 47
QALEX - PANDA 47
QALEX - T-PANDA 47
RESCARA INTERNATIONAL - RWT 64
RESCARA INTERNATIONAL - RWT 75
SYSTEM ALUMINIUM - W55
SERIES W1
TECHNAL - UNNO THERMIC
TECNO FURNITURE - PR50
TECNO FURNITURE - PR50 TT
TECNO FURNITURE - PR65 TT
TECNO FURNITURE - PR75 TT
TGP SISTEMI - TGP 45
TGP SISTEMI - TGP TH 52
TGP SISTEMI - TGP TH 60
TGP SISTEMI - TGP TH 68
THERMECO - EC65TB
TOMA - ATLANTIS 45
TOMA - ATLANTIS 68TT
TOMA - ATLANTIS 55TT
TOMA - ATLANTIS 80TT
TOMA - TIERRE 590 TH
TOMA - TIERRE 640TH
TOMA - NGS MINIMAL
TOMA - TIERRE 600TH
TP PROFILATI - EKOS - 50 TH
TP PROFILATI - EKOS - 85 TH

TP PROFILATI - EKOS - 75 TH
TPR - TW74
TWIN SYSTEMS - CX 600
TWIN SYSTEMS - CX 700
TWIN SYSTEMS - CX 650
TWIN SYSTEMS - CX 700 ASE
TWIN SYSTEMS - MX 603
TWIN SYSTEMS - CX 700 AS
TWIN SYSTEMS - CX 700 HP
TWIN SYSTEMS - CX 850 PH
TWIN SYSTEMS - MX 753
ULUSAN - AWT 64
ULUSAN - AWT 58
ULUSAN - AW 50

C002

GIESSE - MASTER C002
GIUGNI - GIUGNI TT
METRA - NC 50I
METRA - NC 55I
METRA - NC 65 STH
METRA - NC 72 STH
METRA - NC 50 STH
METRA - NC 65 STH HES
METRA - NC 75 STH HES-WS

C003

ALUK - REVA 54
GUTMANN - S70
HEROAL - 110 ES
HEROAL - W 72
HEROAL - W 65
HEROAL - W 50
INSTALLUX - ESPACE 50TH
INSTALLUX - ESPACE 50
INSTALLUX - ESPACE 40
RESCARA INTERNATIONAL - P69
REYNAERS - XS50
REYNAERS - CS 45 PA
REYNAERS - XS68

C004

INDINVEST - PLATHINA 69
INDINVEST - PLATHINA 75

C005

ALUMAFEL - FORMA-THERMIC
ALUMAFEL - FORMA

C006

GULF EXTRUSION - 45-E
TECHNAL - FC

C007

CLL - TECNO 45
CLL - TECNO 50 TT
CLL - TECNO 60-68 TT
CLL - TECNO 76 TT
COLMA - MAR3HTI
ETA - ER 750 TT
ETA - ER 670
ETA - ER 730
ETNALL - TT 50
GASTALDELLO - NT 50
GASTALDELLO - NT 52
GASTALDELLO - NT 60
GASTALDELLO - NT 68
GASTALDELLO - NT 65 TT
GASTALDELLO - NT 65
ORIGINAL SYSTEM HYDRO BUILDING - R 40
ORIGINAL SYSTEM HYDRO BUILDING - R 62TT
ORIGINAL SYSTEM HYDRO BUILDING - R 72TT
ORIGINAL SYSTEM HYDRO BUILDING - R 50TT (NEW)
ORIGINAL SYSTEM HYDRO BUILDING - R 85TT
ORIGINAL SYSTEM HYDRO BUILDING - R 72TT 1.3 HP
ORIGINAL SYSTEM HYDRO BUILDING - R 85TT 1.0
PONZIO - NT 50
PONZIO - NT 52
PONZIO - NT 60
PONZIO - NT 68

PONZIO - NEWTEC 50
PERSIANE
PONZIO - NT 65 TT
PONZIO - NT 75 TT HI
TECNO FURNITURE - PR66 TT
TECNO FURNITURE - PR58
TECNO FURNITURE - TF 75 TT
TOMA - RS 67TT
TWIN SYSTEMS - RX 600
TWIN SYSTEMS - RX 700
TWIN SYSTEMS - RX 450
TWIN SYSTEMS - RX 700 HP
TWIN SYSTEMS - RX 700 HP +

C008

ORIGINAL SYSTEM HYDRO BUILDING - R 50
ORIGINAL SYSTEM HYDRO BUILDING - R 60TT

C009

ALLCO - ALLCO5S
ALLCO - ALLCO5STT
ALLCO - NEW-AGE

C010

ETNALL - ET 40
ETNALL - ET 43
METRA - NUOVO NC40S
MV ABITHAL - ABITHAL POINT
PROFILATI - PE 40 SISTEMA1
PROFILATI - PE 50 SISTEMA1
PROFILATI - PE 58TT
SORMONTO

C011

PROFILATI - THERMOLEGNO

C012

DOMAL HYDRO BUILDING SYSTEM IT - AVANTIS 55

C013

ALUAR - A30NEW-PORTE
DOMAL HYDRO BUILDING SYSTEM IT - STOPPER PG
DOMAL HYDRO BUILDING SYSTEM IT - DOMALBRIGHT PA70S
DOMAL HYDRO BUILDING SYSTEM IT - DOMAL EXTRATHERMIC 62
ETNALL - ET 45

C015

INDINVEST - GOLD 400
INDINVEST - GOLD 500
INDINVEST - GOLD 450TT
INDINVEST - GOLD 450
PROFILATI - ECU 53TT
PROFILATI - ECU 60TT
PROFILATI - ECU 80TT
TOMA - ATLANTIS 68TT
TOMA - ATLANTIS 45
COMPLANARE
TOMA - ATLANTIS 55TT

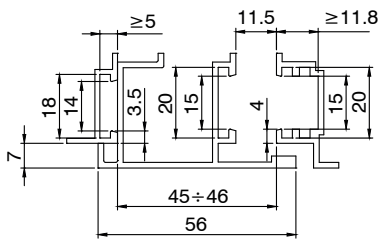
C016

ALLCO - EXPORT 51TT
DOMAL HYDRO BUILDING SYSTEM IT - TOP TB 65
ETA - START 470 TT
ETA - START 410
ETA - START 510

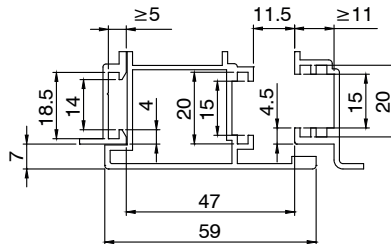
C017

METRA - NC 50I
METRA - NC 65 STH
METRA - NC 72 STH
METRA - NC 50 STH

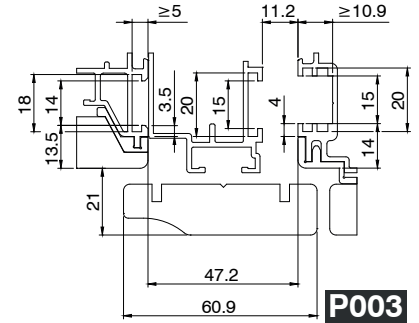
PIVOTING WINDOW TYPE PROFILE CROSS-SECTIONS P



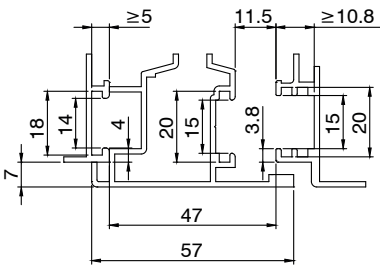
P001



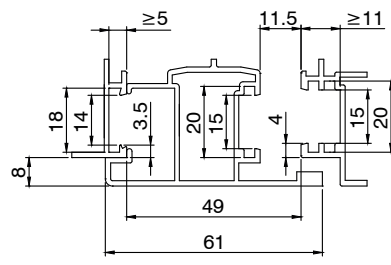
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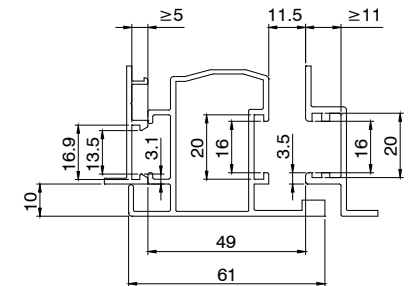
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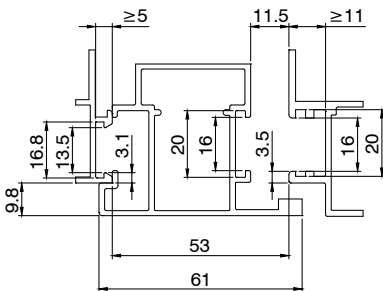
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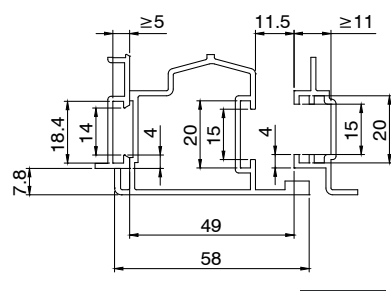
P005



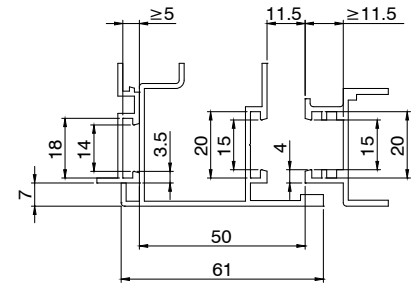
P006



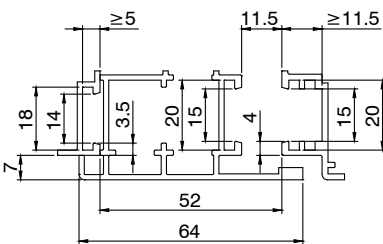
P007



P008



P009



P010



For an exact series/code match, see the on-line catalogue.

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

P001

DOMAL HYDRO BUILDING SYSTEM IT - STOPPER PG
DOMAL HYDRO BUILDING SYSTEM IT - DOMALBREAKPA52
DOMAL HYDRO BUILDING SYSTEM IT - DOMAL EXTRATHERMIC 62

P002

ALLCO - EXPORT 50
ALLCO - EXPORT 50TT
ALLCO - EXPORT 45
MERIDIONALE ALLUMINIO - MA 72 HP
PONZIO - WS 55 TT

P004

MV ABITHAL - ABITHAL-GREEN
MV ABITHAL - EURO KEEPER 45

P005

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

P006

ALUMIL - M11500
METRA - NC 50I
METRA - NC 50 STH

P007

METRA - NC 65 STH

P008

PROFILATI - EKU 53
PROFILATI - EKU 64TT
PROFILATI - EKU 53TT
PROFILATI - EKU WOOD 72TT

P009

ALEXIA - 74 MAGNUM
ALEXIA - 65 ATLAS
DOMAL HYDRO BUILDING SYSTEM IT - DOMALBREAKPA63
DOMAL HYDRO BUILDING SYSTEM IT - DOMALBREAKPA70S

P010

DOMAL HYDRO BUILDING SYSTEM IT - DOMALBRIGHT PA70S

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CODE / PROFILE CROSS-SECTIONS TYPE

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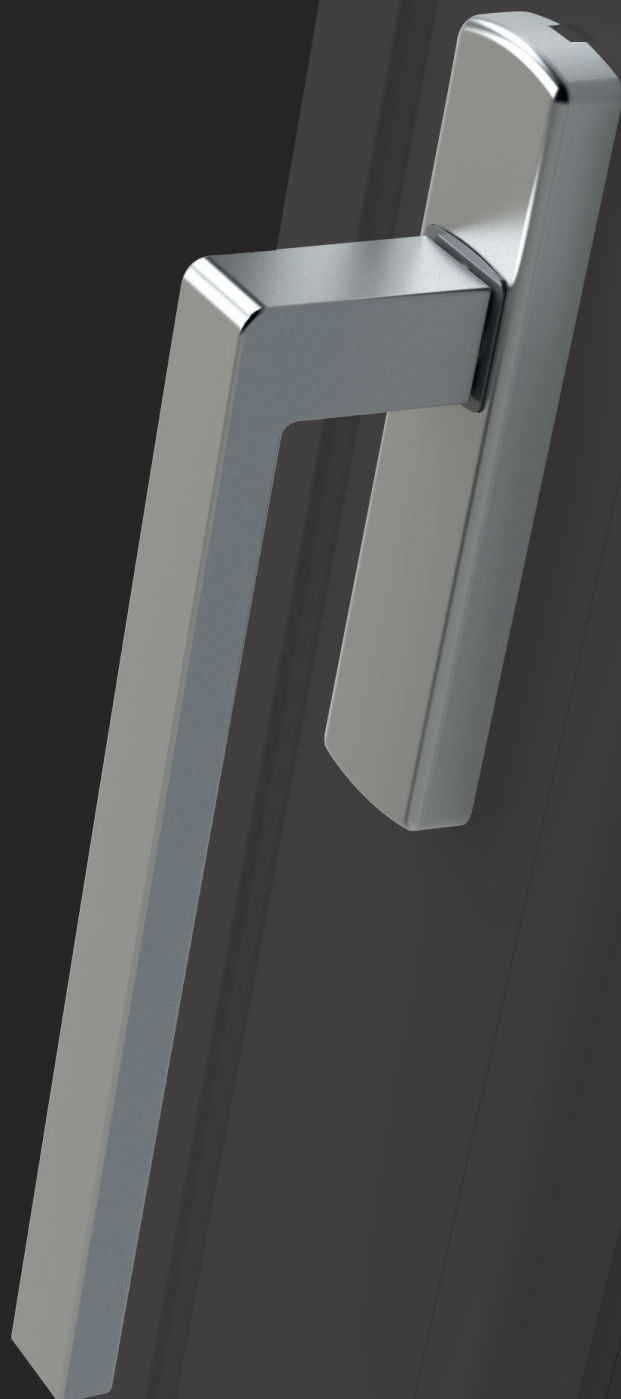
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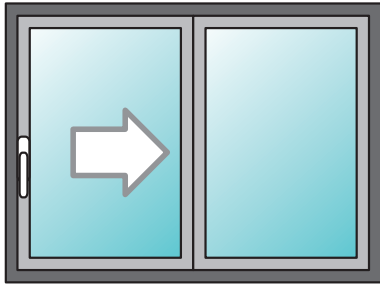
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 **GIESSE**

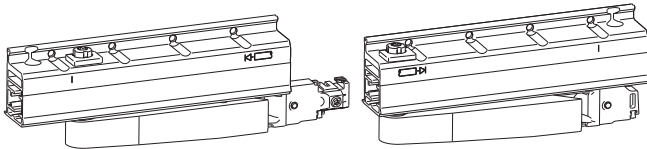
**SPECIAL
OPENINGS**



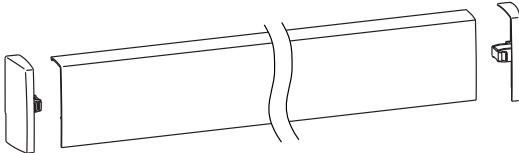
GS1000-ML



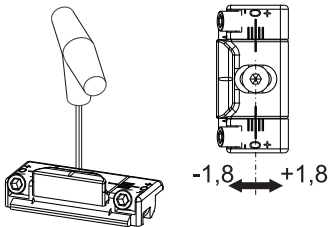
Single pulleys



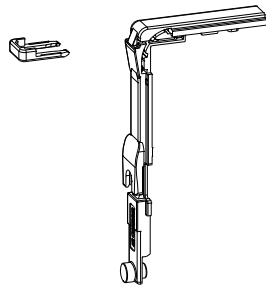
Hardware set without reinforcements



Adjustable strikers



Futura corner drive



GS1000-ML TILT AND SLIDE

Functions

Tilt and slide system with manual operation using standard cremone or window handle.

For applications with sashes weighing up to 100 kg.

Available for Euro groove and R40 profiles.

Technical Features

GS1000-ML is ideal for windowsill applications.

Enables making sashes of reduced dimensions and weights up to 100 kg.

Uses single pulleys without flat side plugs and reinforcements.

GS1000-ML can be made in these configurations:

- for Euro groove with cremone/window handle
 - for R40 with cremone/window handle
- depending on the specific hardware set that you choose.

GS1000-ML uses the Giesse Futura tilt-and-turn fastening mechanism with the Giesse polyamide rod.

The hardware components are pre-assembled and are attached to the profile by interlocking or with contrast grubscrews, without any specific machining.

The Euro groove hardware set uses adjustable strikers (± 1.8 mm), while the R40 hardware set has adjustable pawls (± 1.2 mm), to optimize the perimeter pressure of the sash.

It is possible to add up to four additional locking points, depending on the size of the sash, to improve the air/water seal.

On both versions it is possible to add burglar-proof devices along the perimeter of the sash (except for R40 configurations).

Automatic catch

GS1000-ML features the automatic catch system (*) installed at the bottom of the sash.

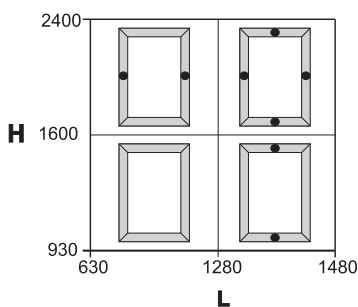
This device facilitates closing the sash that, when put in the closed position, automatically locks in the tilt position.

Turning the cremone from 180° (sliding position) to 90° (tilt position) and putting the sash into the closed position engages the sash in the tilt position.

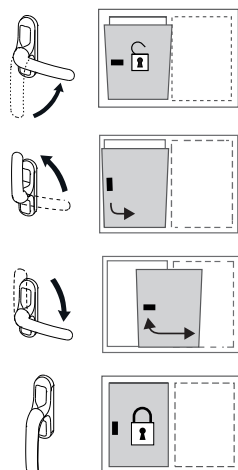
To close the sash simply move it against the frame and turn the cremone down a further 90° to 0° (closed).

(*) not available in the configuration for R40

GS1000 ML Additional locking points



Operating scheme



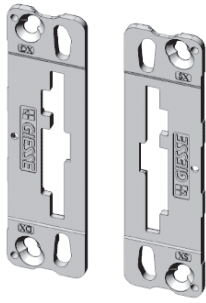
"LOGICA" opening mechanism

GS1000-ML uses the LOGICA opening system (**) whereby operating the cremone produces first tilt opening and then slide opening. Taking the cremone to 90° operates tilt opening and turning it to 180° operates slide opening.

To engage the automatic catch, the cremone must be turned back to 90° and the sash closed against the frame.

(**) excluding the version for R40 in which there is first sliding opening then tilt-and-turn opening

Incorrect movement safety device plates



Incorrect movement safety device

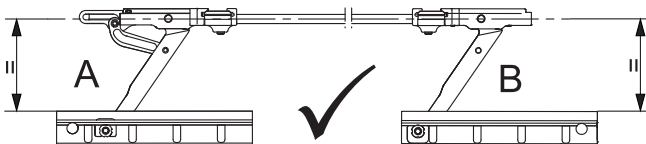
The "incorrect movement safety device" prevents incorrect cremone operation when opening and closing the sash, avoiding malfunctioning or damage to the casement.

In the cremone configuration, the incorrect movement safety feature is obtained by replacing the plate supplied with the standard cremone with one of the two plates (left/right) included in the cremone hardware set.

In this way the cremone can turn from 180° to 90° to allow automatic engagement, but it cannot turn from 90° to 0° if the sash is not tilted close, so as to prevent accidental impact of the strikers and pawls.

In the window handle configuration, the mechanism itself (available in right- and left-hand versions) is fitted with an incorrect movement safety device that prevents operating the cremone from 90° to 0° with the sash sliding open.

Sash-frame parallelism

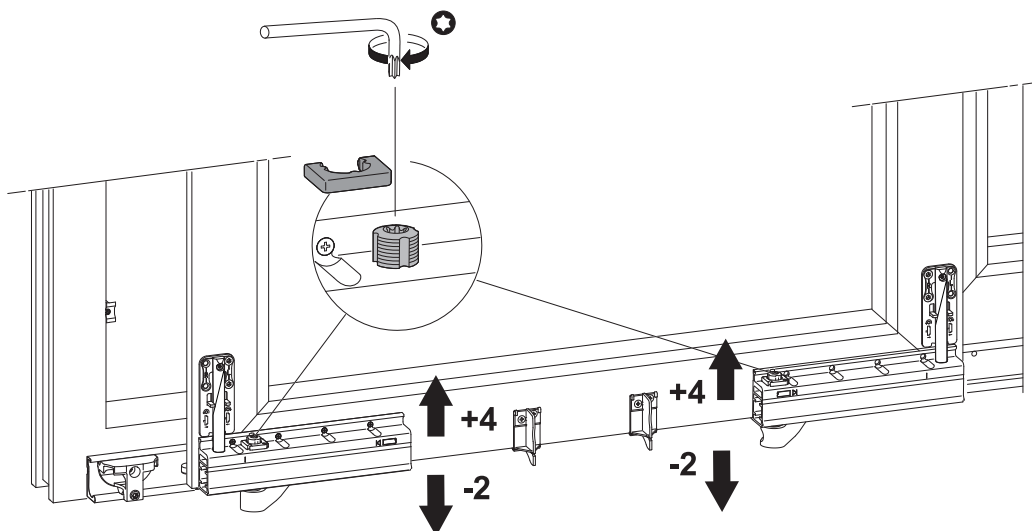


Correct positioning of the sash

To improve the overall alignment of the sash with the frame, there are several adjustments:

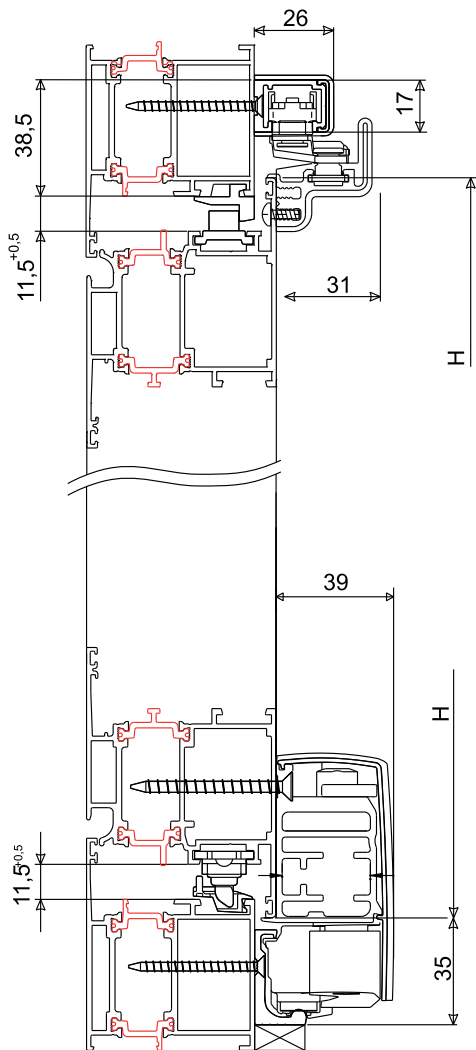
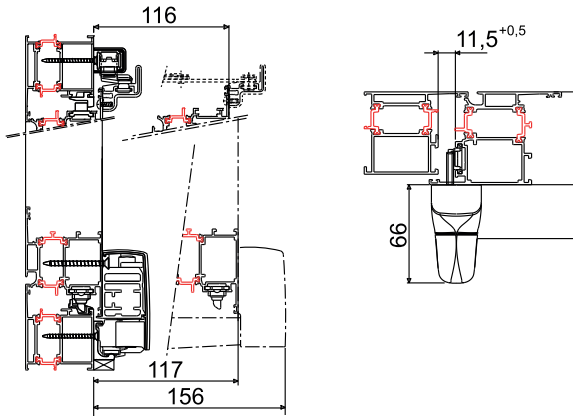
- height adjustment of the sash via the pulleys (-2/+4 mm)
- side adjustment via the command striker
- adjustment of the sash-frame parallelism

Height adjustment



GS1000-ML TILT AND SLIDE

Application section



GS1000-ML range of use

Applications on aluminium doors and windows

Sash weight (kg) = max 100 kg

Sash width (W) = 630 to 1480 mm

Sash height (H) = 930 to 2400 mm

Minimum required dimensions

Bottom rail = 35 mm

Top rail = 38.5 mm

Bottom rail depth = 17 mm

Step ≥ 7 mm

Sash depth D:

≤ 87 mm check not required

> 87 mm do only after technical verification (return trajectory and sash centre of gravity)

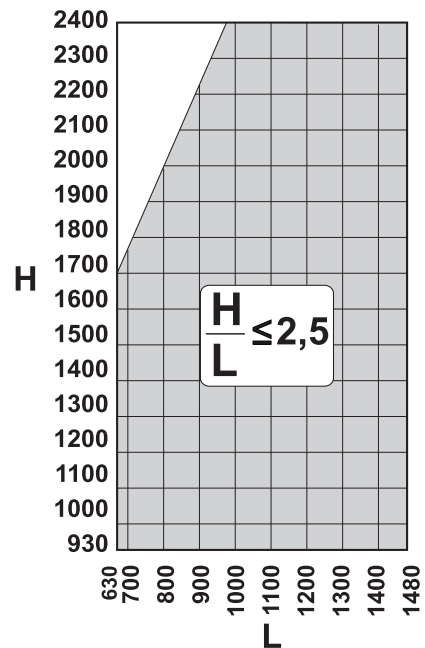
Important note

The H/L ratio ≤ 2.5 given in the scheme is binding and must not be exceeded.

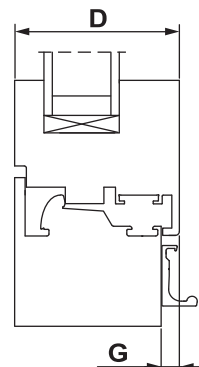
In all cases, refer to the profile manufacturer's instructions and comply with the requirements.

Take the due precautions to avoid straining the mechanism in specific sites such as hotels, schools, kindergartens, etc.

Range of use



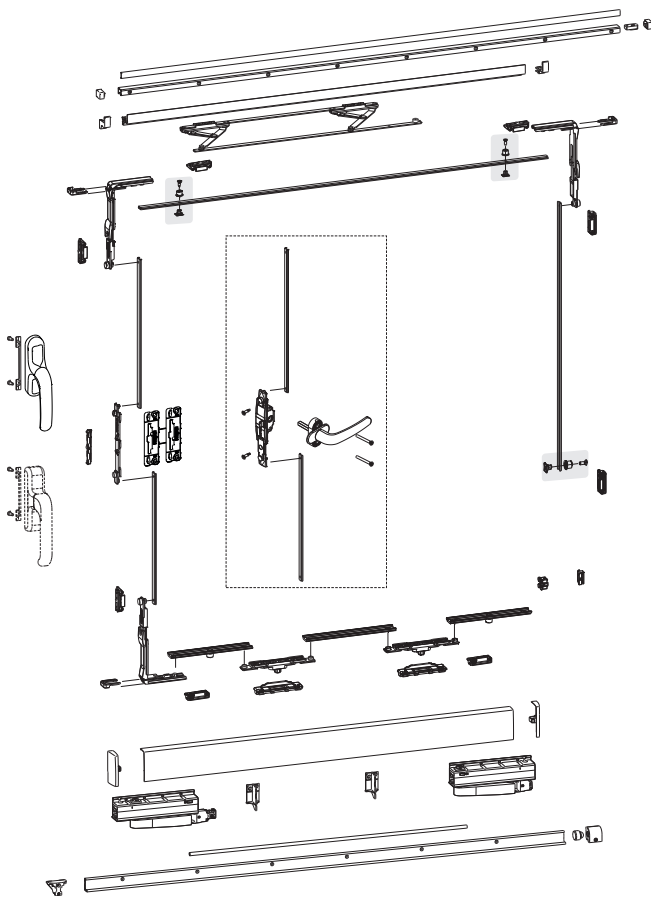
G = step
D = sash depth



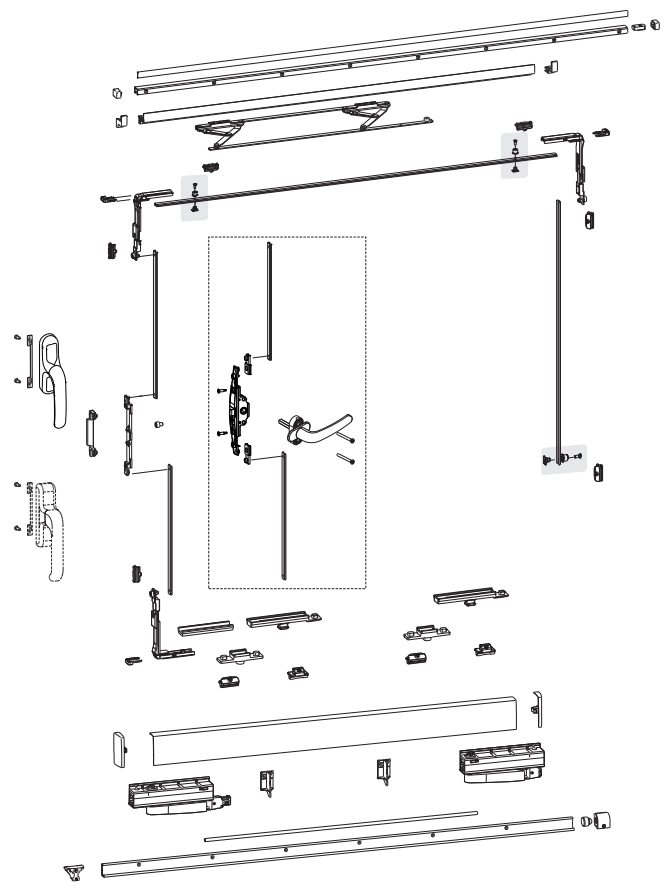
A typical GS1000-ML configuration consists of:

- single pulley set
- hardware set available in the Euro groove version for cremones, in the Euro groove version for window handles and in the R40 version for cremones and window handles
- stay arm
- profile set
- accessories set without side reinforcements
- cremone/window handle
- mobile control (in the case of an opening secondary sash)

Scheme for GS1000-ML Euro groove profile with cremone/window handle

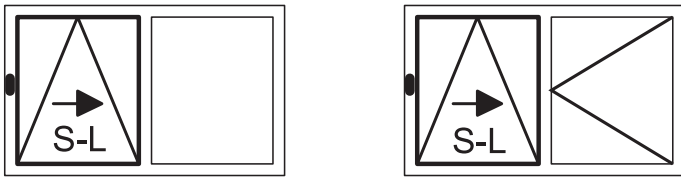


Scheme for GS1000-ML R40 profile with cremone/window handle

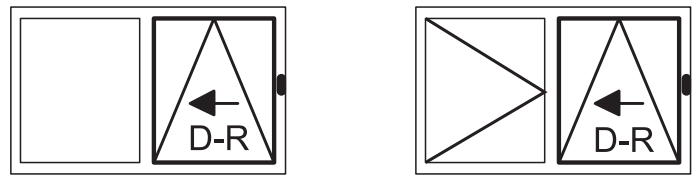


OPENING SCHEMES

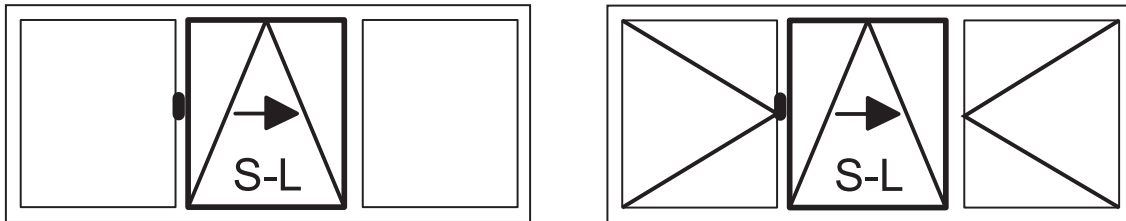
A1 - Two sashes
Left-sliding sash and fixed/opening secondary sash



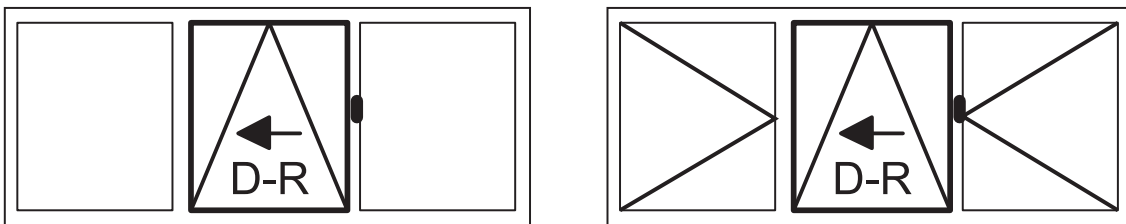
A2 - Two sashes
Right-sliding sash and fixed/opening secondary sash



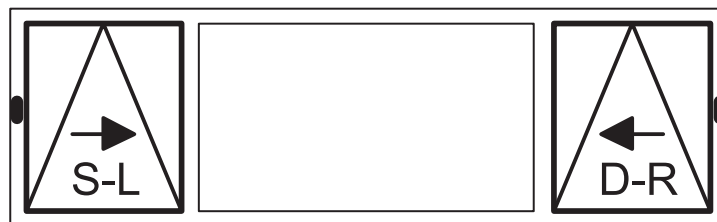
G1 - Three sashes
Left-sliding centre sash and fixed/opening secondary sashes



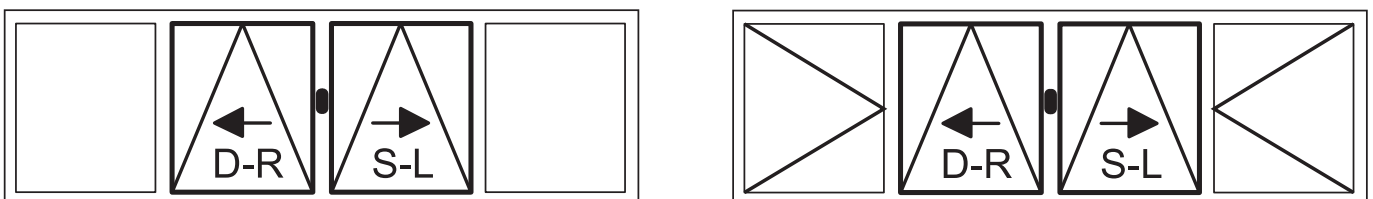
G2 - Three sashes
Right-sliding centre sash and fixed/opening secondary sashes



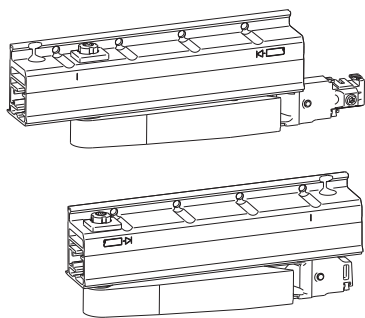
K - Three sashes
Fixed centre sash and sliding side sashes



C - Four sashes
Sliding centre sashes and fixed secondary sashes (with/without central upright)



SINGLE PULLEYS



Functions

Single pulleys for GS1000 tilt and slide system.

Online data sheet



Technical features

Single pulleys to be used for making windows with the following tilt and slide versions:

- GS1000-ML
- GS1000-HL
- GS1000-HD 100
- GS1000-HD 160

The set of single pulleys consists of a primary pulley, which controls sash return and a secondary pulley, available in right-hand and left-hand versions. The opening of the arm of the pulleys allows the sash to come out from the frame by 117 mm.

Applicable on profiles with a step greater than or equal to 7 mm.

Both pulleys are designed for use with side reinforcements that improve the seal of the profile (sold separately in the hardware set).

Using the pulleys it is possible to adjust the height of the sash (-2/+4 mm) and the parallelism between the sash and frame.

The machining on the profile for installing pulleys can be done with a specific drilling template.

Fixing to the profile is done with self-threading screws.

The pulleys are supplied with 2 supports for the bottom guard and the screws and bolts for fixing the pulleys and the set of rails.

Materials

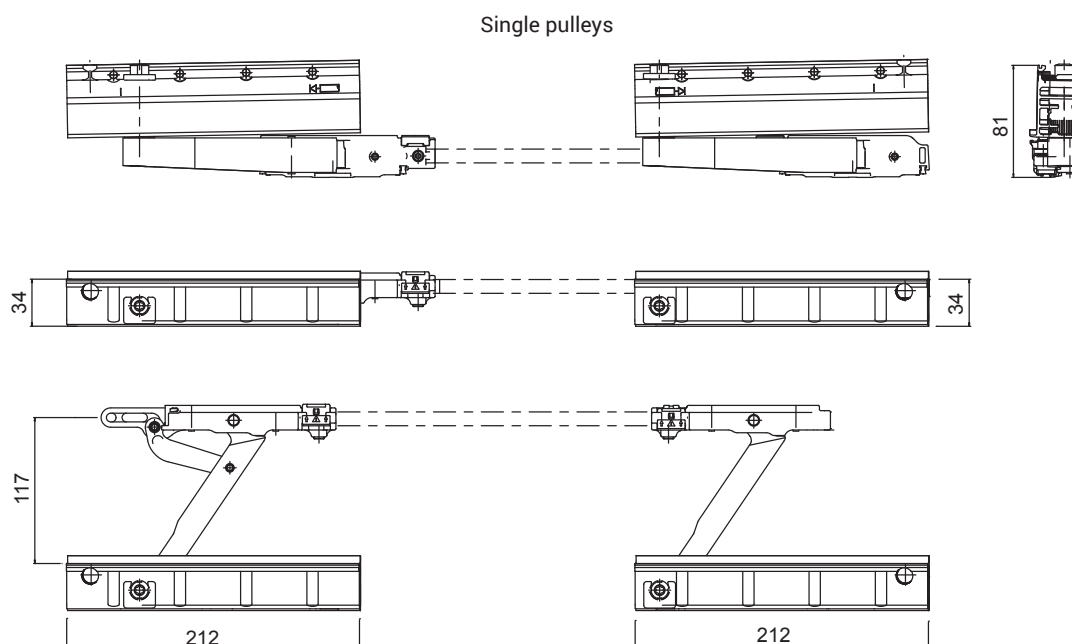
Body and opening levers of aluminium

Wheel support of zamak

Polyamide wheels

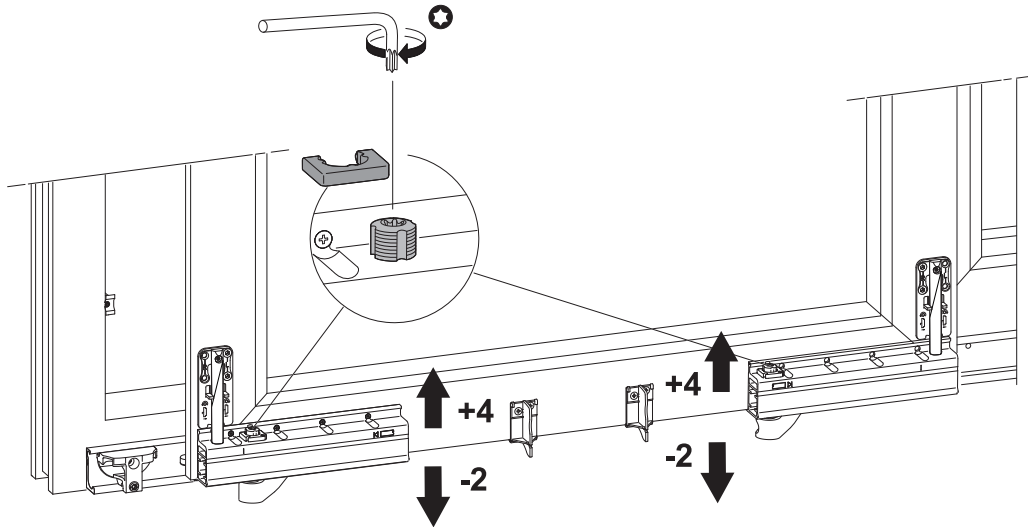
Bottom guard supports of polyamide

Screws and pins of stainless steel

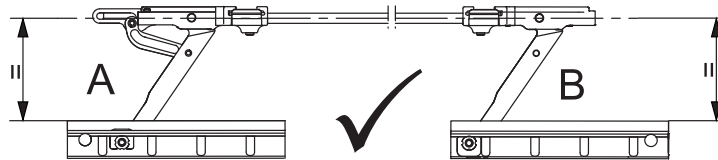


GS1000-ML TILT AND SLIDE

Height adjustment

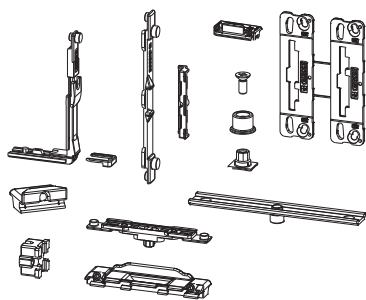


Sash-frame parallelism



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09776	SET OF RH SINGLE PULLEYS	-	-	X	X	X	X	-	X				1
09777	SET OF LH SINGLE PULLEYS	-	-	X	X	X	X	-	X				1

GS1000-ML AND GS1000-HL HARDWARE



Functions

Complete fastener system for making GS1000 tilt and slide type windows with manual control.
Available in versions for Euro groove for cremone and window handle and the version for R40.

Online data sheet



Technical features

The fastening system uses the Futura tilt-and-turn fastening mechanism with a polyamide rod and LOGICA opening (*) with which operating the cremone produces first tilt opening, then slide opening.

The Euro groove hardware set uses fixed pawls and adjustable strikers (± 1.8 mm) with which you can optimize the perimeter pressure of the sash.

The R40 hardware set instead has fixed strikers and adjustable pawls (± 1.2 mm).

The hardware components are pre-assembled and are attached to the profile with contrast grubscrews, without any specific machining.

It is possible to add up to four additional locking points, depending on the size of the sash.

The hardware set consists of:

- no. 3 corner drives to transmit the motion between the uprights and cross-beams, to be secured to the profile with interlocking clips
- no. 1 cremone drive rod + no.1 incorrect movement safety striker (not included in the window handle hardware set)
- no. 8 locking points (pawls + strikers)
- no. 2 spring latches + strikers for the automatic locking system (not available in the version for R40)
- no. 2 connection rods with fastening mechanism pawl
- no. 1 lift-proof system (block + striker)
- no. 2 incorrect movement safety plates for cremones (1 right + 1 left) to replace the one supplied with the standard cremone
- no. 1 sticker for correct system operation

(*) excluding the configuration for R40

Materials

Drives, drive rod, strikers and pawls of zamak

Automatic catch strikers of zamak

Brass spring latches

Lift-proof striker + block of zamak

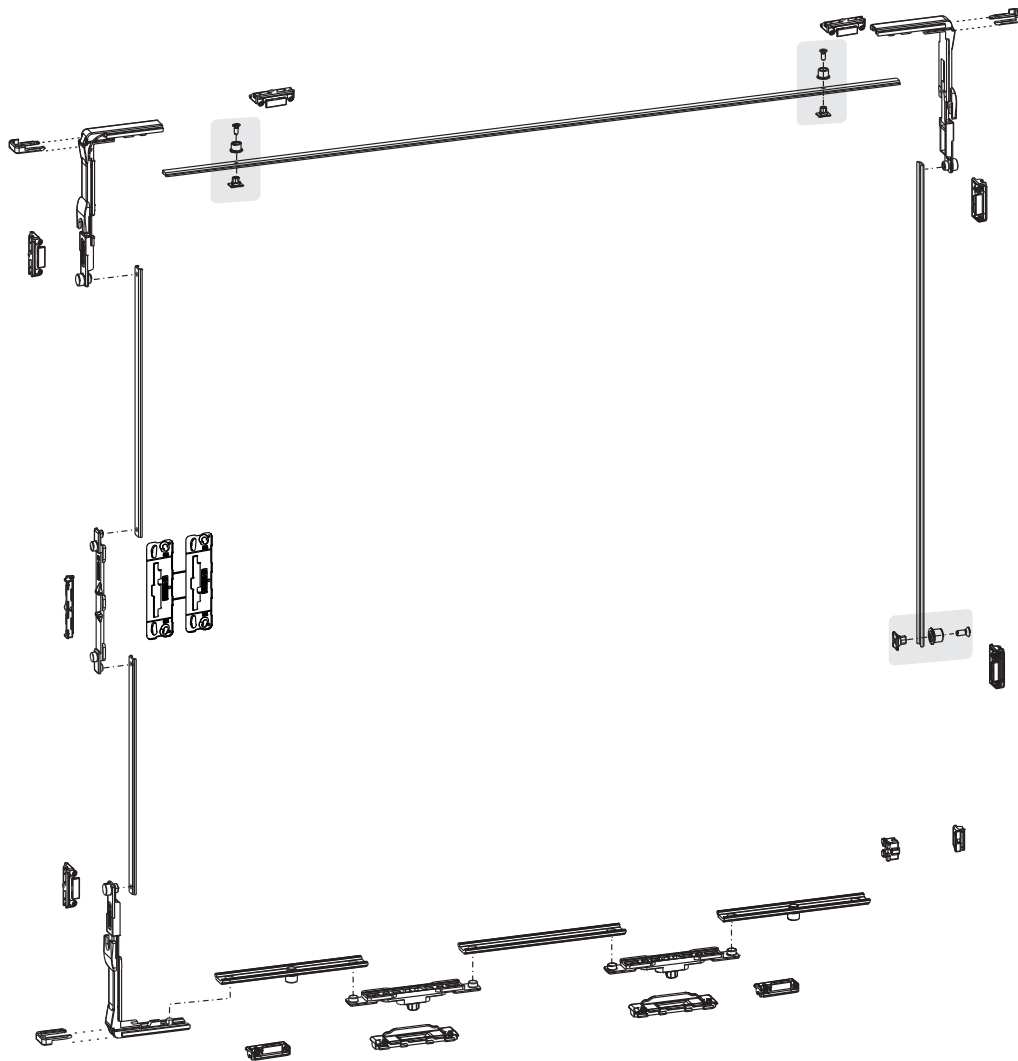
Polyamide connection rods

Polyamide incorrect movement safety device plates

Stainless steel mounting grubscrews

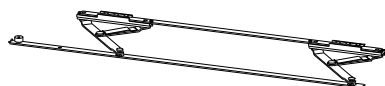
GS1000-ML TILT AND SLIDE

GS1000ML-HL hardware set



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09780	GS1000-ML/HL HARDWARE SET	-	C001-C002-C003-C005	X	X	-	-	-	X				1
09783	GS1000-ML/HL WINDOW HANDLE HARDWARE SET	-	C001	X	X	-	-	-	X				1
09758	GS1000 R40 HARDWARE SET	-	C007	X	X	-	-	-	X				1

GS1000-ML/GS1000-HL ARMS



Functions

Stay arms for GS1000-ML and GS1000-HL tilt-and-slide system.

Online data sheet



Technical features

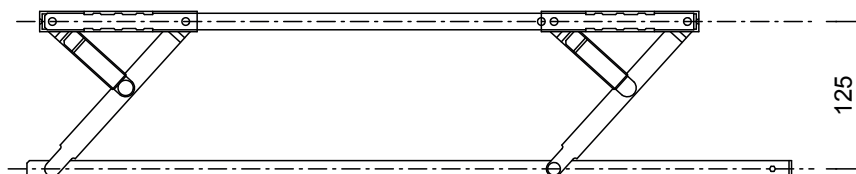
The arms allow tilt-and-turn opening of the sash in conjunction with the fastening mechanisms.

They are available in three sizes to choose from according to the width of the sliding sash:

- for sashes of width 630-980 mm
- for sashes of width 981-1280 mm
- for sashes of width 1281-1680 mm

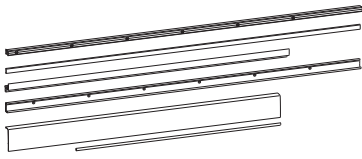
Materials

Steel arms
Sliders of nylon



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09723	630-930 WIDTH STAY ARM	630÷930	-	X	X	X	-	-	X				1
09724	931-1280 WIDTH STAY ARM	931÷1280	-	X	X	X	-	-	X				1
09725	1281-1680 WIDTH STAY ARM	1281÷1680	-	X	X	X	-	-	X				1

PROFILES SET



Functions

Profiles with the function of supporting and guiding in the phase of operating the sliding sash and with the function of a stylish cover for the GS1000 tilt and slide system.

Online data sheet



Technical features

Each set of profiles consists of:

- top guards and track
- bottom guards and track
- screw protection plug
- pulley connection rod

The profiles set is available in various sizes, depending on the width of the sash to be constructed.

The bottom rail always has an anodised, silver or black finish.

The fixing of the profiles is by means of self-threading screws (supplied with the set of pulleys).

There are specific templates for the installation of the various profiles.

Materials

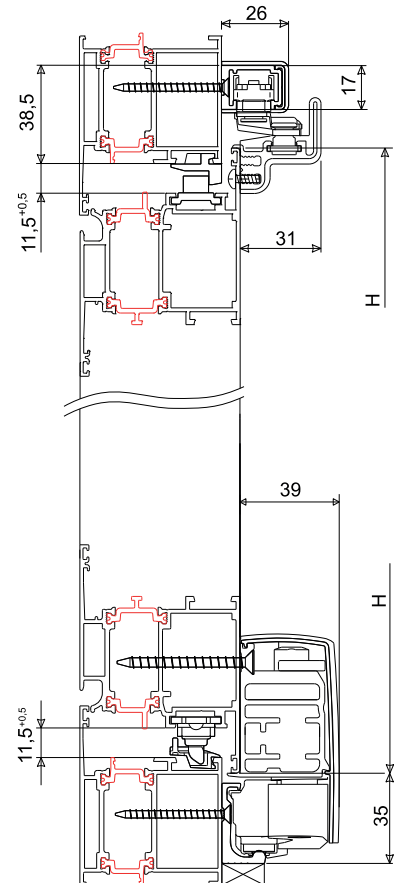
Rails and covers made of extruded aluminium

PVC screw cover rod (*)

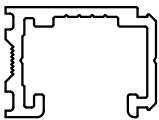
Steel connection rod

(*) Available in the basic finishes of white, black and grey, combined with the various profile set finishes.

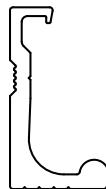
Application section



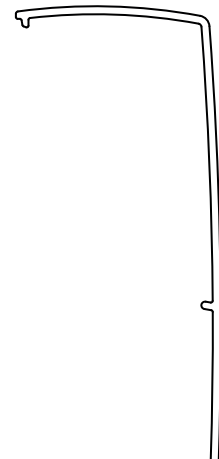
09768
(single profile)



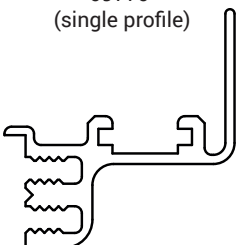
09769
(single profile)



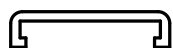
09771
(single profile)



09770
(single profile)



09772
(single profile)



09773
(single profile)



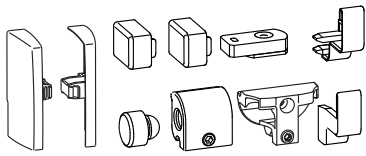
GS1000-ML TILT AND SLIDE

Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09761	630-880 PROFILES SET	630÷880	-	X	X	X	X	-	X	X	X		1
09762	881-1080 PROFILES SET	881÷1080	-	X	X	X	X	-	X	X	X		1
09763	1081-1280 PROFILES SET	1081÷1280	-	X	X	X	X	X	X	X	X		1
09764	1281-1480 PROFILES SET	1281÷1480	-	X	X	X	X	X	X	X	X		1

SINGLE PROFILES

Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09768	TOP RAIL L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09769	BOTTOM RAIL L=6000 mm	-	-	X	X	X	X	X	X	X			1
09770	TOP GUARD L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09771	BOTTOM GUARD L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09772	PVC SCREW COVER L=6000 mm	-	-	X	X	X	X	X	X				1
09773	PULLEY CONNECTION ROD L=4000 mm	-	-	X	X	X	X	X	X				1

ACCESSORIES SET WITHOUT SIDE REINFORCEMENTS



Functions

Components for covering and completing the GS1000 tilt and slide system.

Online data sheet



Technical features

Accessories set without side reinforcements consists of:

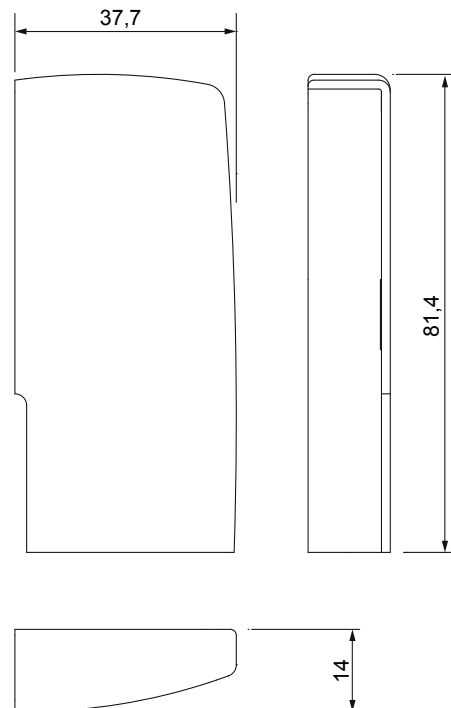
- flat side protective caps that can be painted as needed
- protective caps for guards
- top and bottom stops
- command striker

To be combined with the GS1000-ML and GS1000-HD 100 versions for sashes weighing up to 100 kg.

Materials

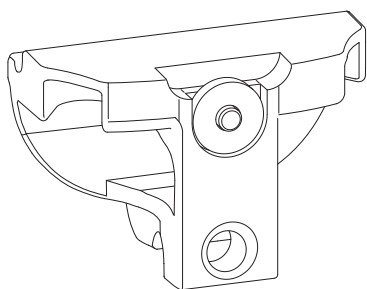
Paintable plastic plugs
 Command striker of zamak
 Bottom limit stop striker of zamak and rubber
 Top limit stop striker of steel and rubber
 Stainless steel screws and bolts

Plugs art. 09774



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09774	ACCESSORIES SET WITHOUT SIDE REINFORCEMENTS	-	-	X	-	X	-	-	X		X		1

MOBILE STRIKER



Functions

Component for positioning the mobile sash for GS1000 tilt and slide systems.

Online data sheet



Technical features

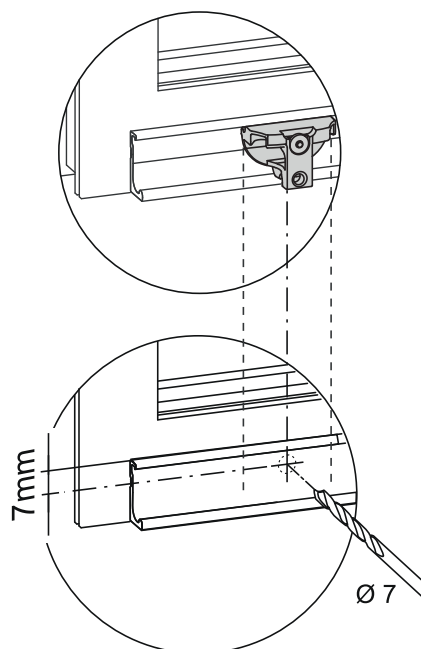
The mobile striker enables run-by of the sliding sash, for opening the secondary sash.

In configurations with an opening secondary sash, this striker replaces the fixed command striker supplied with the hardware set.

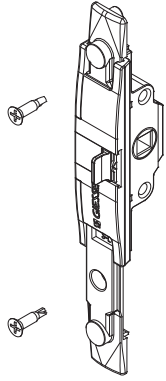
The pin with a spring keeps the striker in position and allows it to move in order to allow opening the secondary sash.

Materials

Zamak striker
Spring and pin of steel



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0979001	MOBILE STRIKER	-	-	X	X	X	X	X	X				1



WINDOW HANDLE MECHANISM

Functions

Specific one-way mechanism for GS1000-ML and GS1000-HL tilt and slide versions with window handle.

Online data sheet

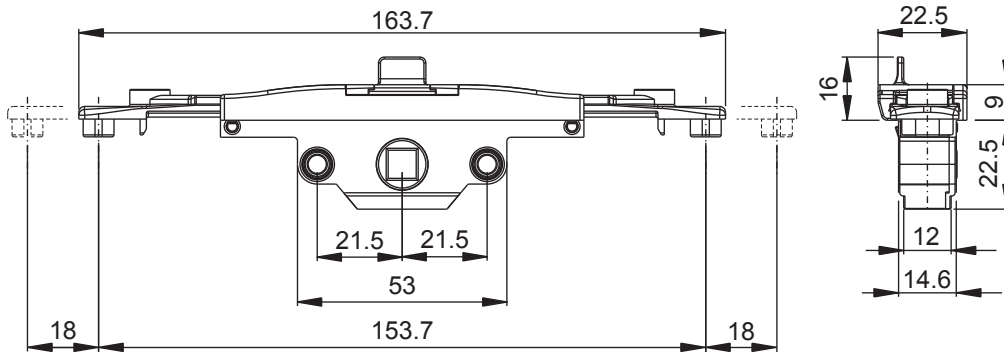


Technical features

Available in right and left versions, the mechanism must match the specific hardware set for the window handle (art. 09783).
 The mechanism can be combined with all the window handles made by GIESSE, both of aluminium and brass (with 7 mm square pin).
 The shim supplied, to be positioned inside the profile, between the mechanism and the window handle, enables perfect alignment of the parts.
 The mechanism has an incorrect movement safety device integral with the mechanism and fixed pawls, already prepared for any additional locking points.

Materials

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



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09751	MECH. LH WINDOW HANDLE GS1000-ML/HL CE	-	-	X	X	-	-	-	X				1
09752	MECH. RH WINDOW HANDLE GS1000-ML/HL CE	-	-	X	X	-	-	-	X				1



KORA WINDOW HANDLE

Functions

Window handle for manually operated GS1000 tilt-and-slide system.

[Online data sheet](#)



Technical features

Long window handle for manually operated tilt-and-slide system, ML and HL version.

10/7 mm square pin.

Fixing C/C distance 43 mm.

Operation with notches at 0°-90°-180°.

Can be combined with the tilt-and-slide mechanisms.

Materials

Aluminium handle and cover

Zamak case

Rotor made of zinc-plated steel

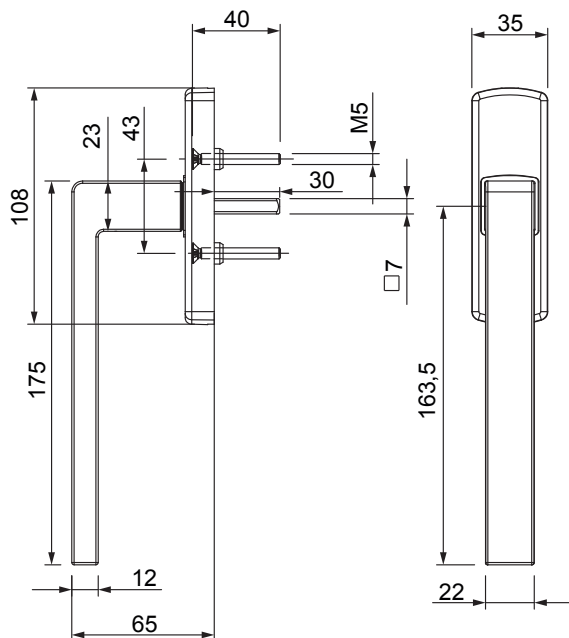
Trim ring made of acetal resin

Square pin 10/7 mm made of zinc-plated steel

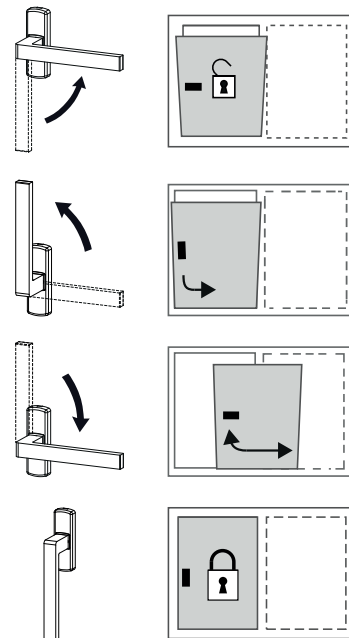
Self-forming screw for fixing to the rotor made of zinc-plated steel

Fixing screws, zinc-coated steel

Overall dimensions



Operating scheme



Item code	Description	C/C distance (I)	Handle length (L)	Compatible with mechanisms	GS1000-ML	GS1000-HL	GS1000-HD100	GS1000-HD160	GS1000-HD200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0246601	WINDOW HANDLE KORA L175 GS1000	43 mm	175 mm	09751-09752-01062	X	X	-	-	-	X	X	X	X	5



PRIMA WINDOW HANDLE

Functions

Window handle for manually operated GS1000 tilt-and-slide system.

[Online data sheet](#)



Technical features

Long window handle for manually operated tilt-and-slide system, ML and HL version.

10/7 mm square pin.

Fixing C/C distance 43 mm.

Operation with notches at 0°-90°-180°.

Can be combined with the tilt-and-slide mechanisms.

Materials

Aluminium handle and cover

Zamak case

Rotor made of zinc-plated steel

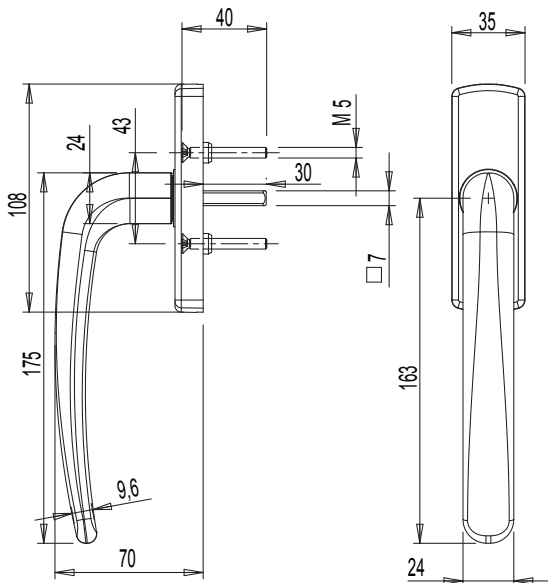
Trim ring made of acetal resin

Square pin 10/7 mm made of zinc-plated steel

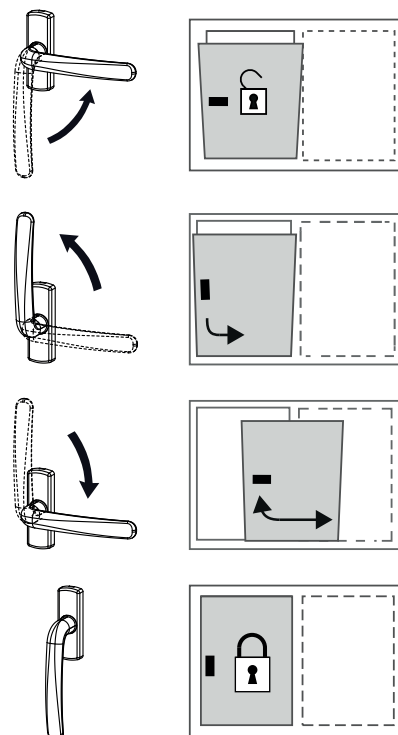
Self-forming screw for fixing to the rotor made of zinc-plated steel

Fixing screws, zinc-coated steel

Overall dimensions



Operating scheme



Item code	Description	C/C distance (l)	Handle length (L)	Compatible with mechanisms	GS1000-ML	GS1000-HL	GS1000-HD100	GS1000-HD160	GS1000-HD200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0243501	PRIMA WINDOW HANDLE L175 GS1000	43 mm	175 mm	09751-09752-01062	X	X	-	-	-	X	X	X	X	5



ASIA WINDOW HANDLE

Functions

Window handle for manually operated GS1000 tilt-and-slide system.

[Online data sheet](#)



Technical features

Long window handle for manually operated tilt-and-slide system, ML and HL version.

10/7 mm square pin.

Fixing C/C distance 43 mm.

Operation with notches at 0°-90°-180°.

Can be combined with the tilt-and-slide mechanisms.

Materials

Aluminium handle and cover

Zamak case

Rotor made of zinc-plated steel

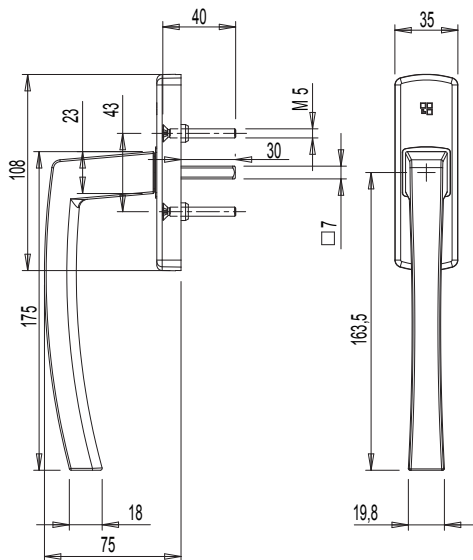
Trim ring made of acetal resin

Square pin 10/7 mm made of zinc-plated steel

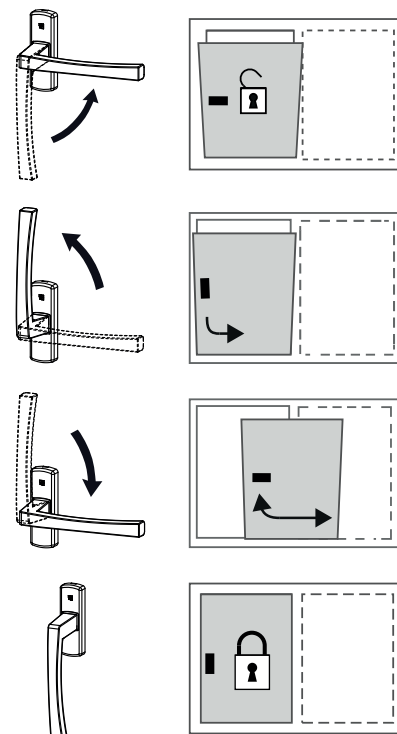
Self-forming screw for fixing to the rotor made of zinc-plated steel

Fixing screws, zinc-coated steel

Overall dimensions

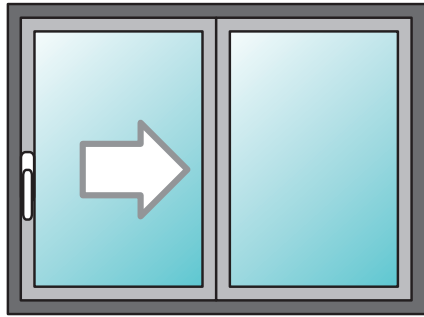


Operating scheme

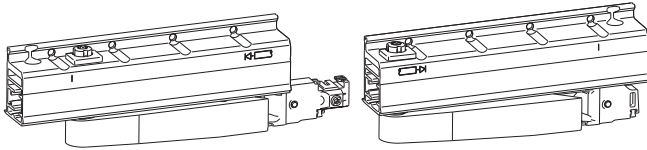


Item code	Description	C/C distance (I)	Handle length (L)	Compatible with mechanisms	GS1000-ML	GS1000-HL	GS1000-HD100	GS1000-HD160	GS1000-HD200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0244301	ASIA WINDOW HANDLE L175 GS1000	43 mm	175 mm	09751-09752-01062	X	X	-	-	-	X	X	X	X	5

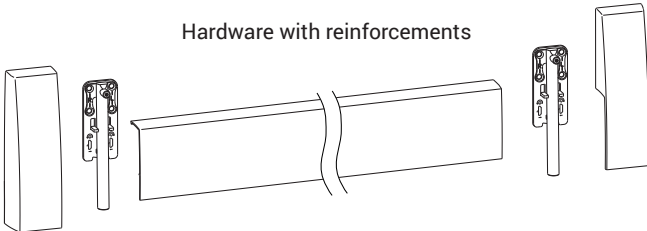
GS1000-HL



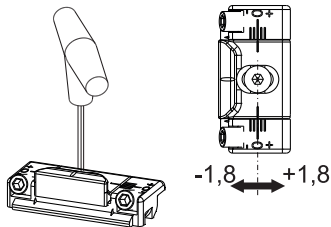
Single pulleys



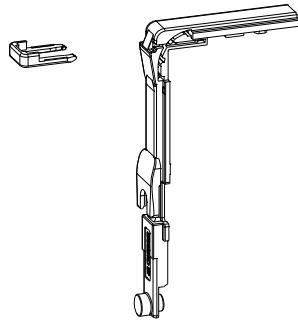
Hardware with reinforcements



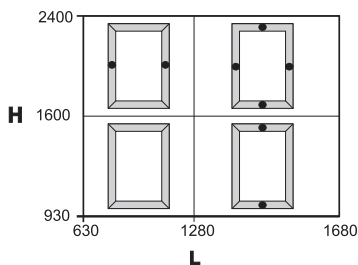
Adjustable strikers



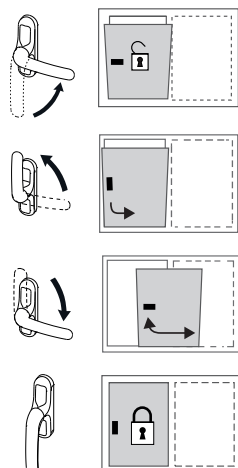
Futura corner drive



GS1000 HL Additional locking points



Operating scheme



GS1000-HL TILT AND SLIDE

Functions

Tilt and slide system with manual operation using standard cremone or window handle.

For applications with sashes weighing up to 160 kg.

Available for Euro groove and R40 profiles.

Technical Features

GS1000-HL is ideal for large windows.

Enables making sashes of large dimensions and weights up to 160 kg.

Uses single pulleys with machined side plugs and reinforcements.

GS1000-HL can be made in these configurations:

- for Euro groove with cremone/window handle
- for R40 with cremone/window handle depending on the specific hardware set you choose.

GS1000-HL uses the Giesse Futura tilt-and-turn fastening mechanism with the Giesse polyamide rod.

The hardware components are pre-assembled and are attached to the profile by interlocking or with contrast grubscrews, without any specific machining.

The Euro groove hardware set uses adjustable strikers (± 1.8 mm), while the R40 hardware set has adjustable pawls (± 1.2 mm), to optimize the perimeter pressure of the sash.

It is possible to add up to four additional locking points, depending on the size of the sash, to improve the air/water seal.

On both versions it is possible to add burglar-proof devices along the perimeter of the sash, except for R40 configurations.

Automatic catch

GS1000-HL features the automatic catch system (*) installed at the bottom of the sash.

This device facilitates closing the sash that, when put in the closed position, automatically locks in the tilt position.

Turning the cremone from 180° (sliding position) to 90° (tilt position) and putting the sash into the closed position engages the sash in the tilt position.

To close the sash simply move it against the frame and turn the cremone down a further 90° to 0° (closed).

(*) not available in the configuration for R40

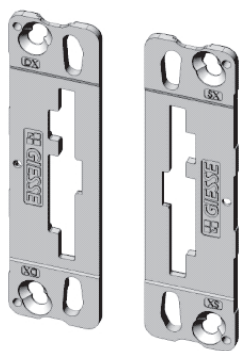
"LOGICA" opening mechanism

GS1000-HL uses the LOGICA opening system (**) whereby operating the cremone produces first tilt opening and then slide opening. Taking the cremone to 90° operates tilt opening and turning it to 180° operates slide opening.

To engage the automatic catch, the cremone must be turned back to 90° and the sash closed against the frame.

(**) excluding the version for R40 in which there is first sliding opening then tilt-and-turn opening

Incorrect movement safety device plates



Incorrect movement safety device

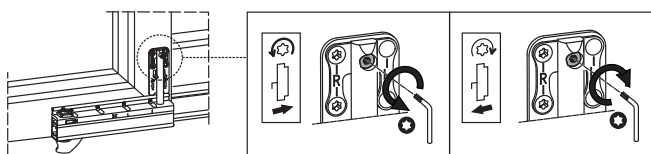
The "incorrect movement safety device" prevents incorrect cremone operation when opening and closing the sash, avoiding malfunctioning or damage to the casement.

In the cremone configuration, the incorrect movement safety feature is obtained by replacing the plate supplied with the standard cremone with one of the two plates (left/right) included in the cremone hardware set.

In this way the cremone can turn from 180° to 90° to allow automatic engagement, but it cannot turn from 90° to 0° if the sash is not tilted close, so as to prevent accidental impact of the strikers and pawls.

In the window handle configuration, the mechanism itself (available in right- and left-hand versions) is fitted with an incorrect movement safety device that prevents operating the cremone from 90° to 0° with the sash sliding open.

Adjustment of the side reinforcements

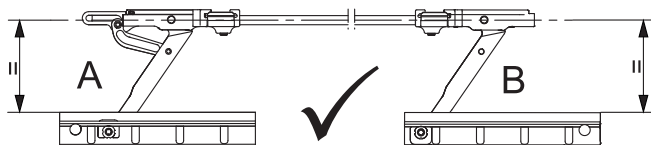


Correct positioning of the sash

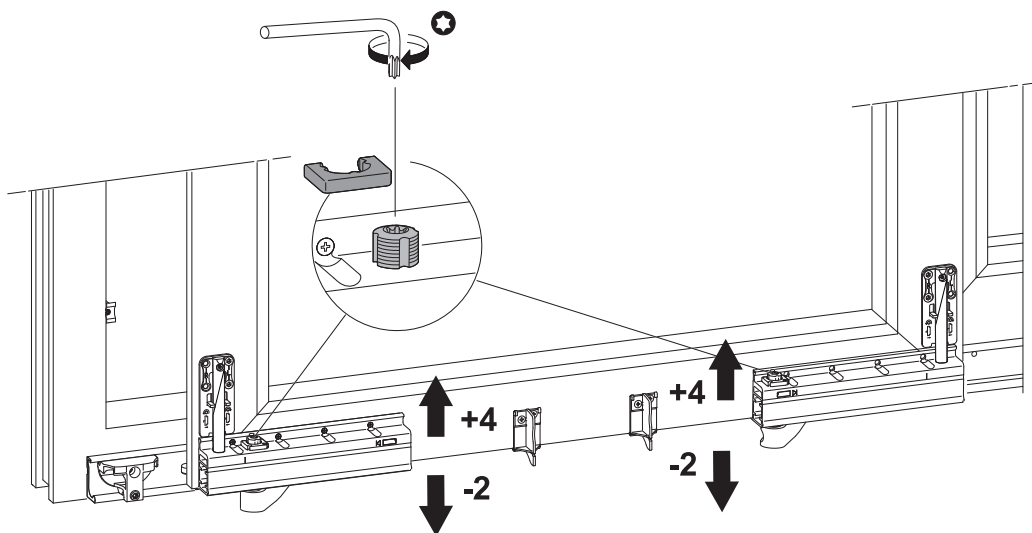
To improve the overall alignment of the sash with the frame, there are several adjustments:

- height adjustment of the sash via the pulleys (-2/+4 mm)
- side adjustment via the command striker
- adjustment of the side reinforcements to improve the sash out and return phase
- adjustment of the sash-frame parallelism

Sash-frame parallelism

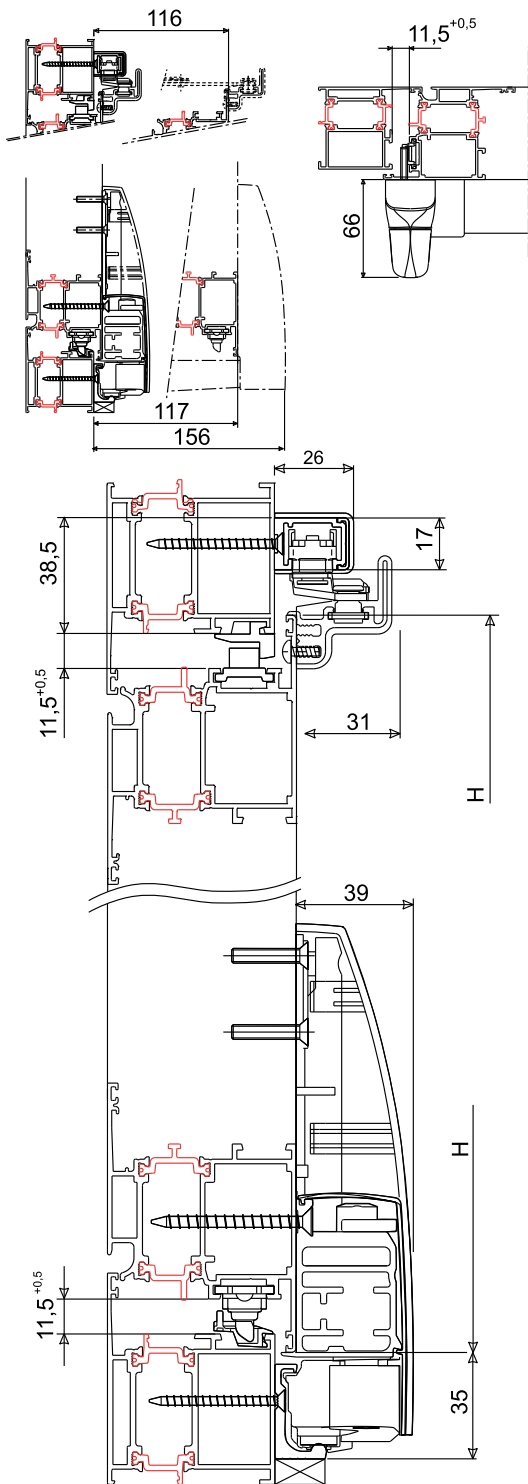


Height adjustment



GS1000-HL TILT AND SLIDE

Application section



GS1000-HL range of use

Applications on aluminium doors and windows

Sash weight (kg) = max 160 kg

Sash width (W) = 630 to 1680 mm

Sash height (H) = 930 to 2400 mm

Minimum required dimensions

Bottom rail = 35 mm

Top rail = 38.5 mm

Bottom rail depth = 17 mm

Step ≥ 7 mm

Sash depth D:

≤ 87 mm check not required

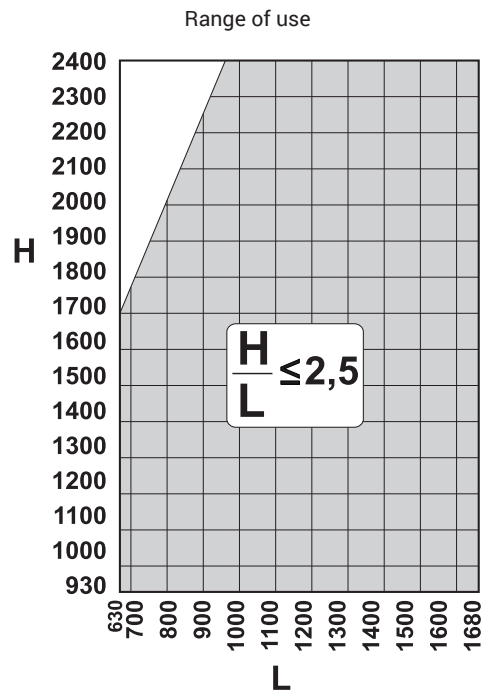
> 87 mm do only after technical verification (return trajectory and sash centre of gravity)

Important note

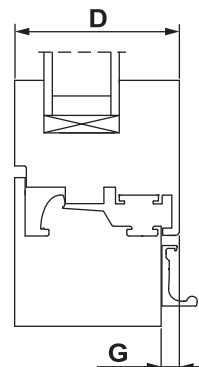
The H/L ratio ≤ 2.5 given in the scheme is binding and must not be exceeded.

In all cases, refer to the profile manufacturer's instructions and comply with the requirements.

Take the due precautions to avoid straining the mechanism in specific sites such as hotels, schools, kindergartens, etc.



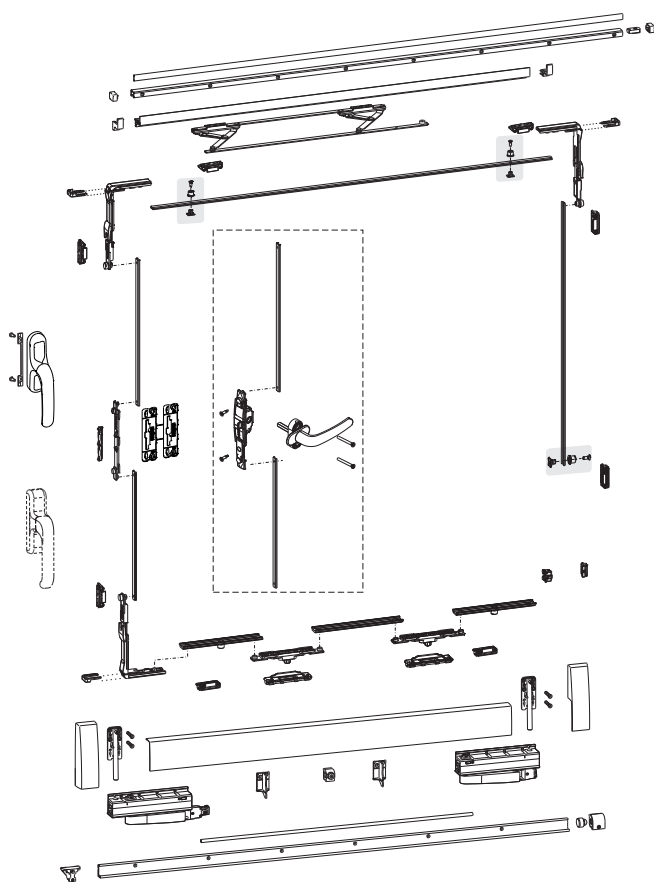
G = step
D = sash depth



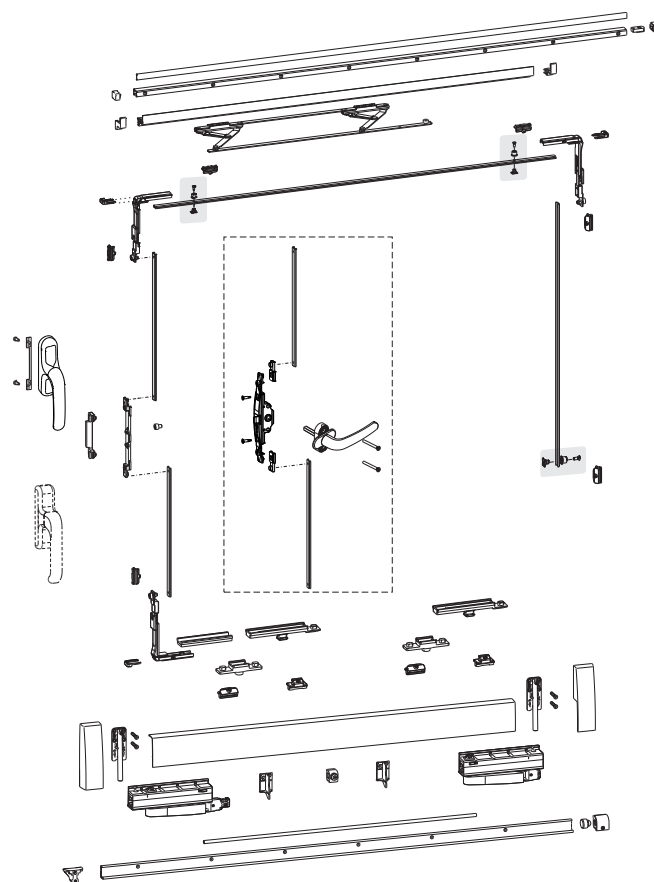
A typical GS1000-HL configuration consists of:

- single pulley set
- hardware set available in the Euro groove version for cremones, in the Euro groove version for window handles and in the R40 version for cremones and window handles
- stay arm
- profile set
- accessories set with side reinforcements
- cremone/window handle
- mobile control (in the case of an opening secondary sash)
- support block for pulley connection rod (for sashes of width >1480 mm)

Scheme for GS1000-HL Euro groove profile
with cremone/window handle

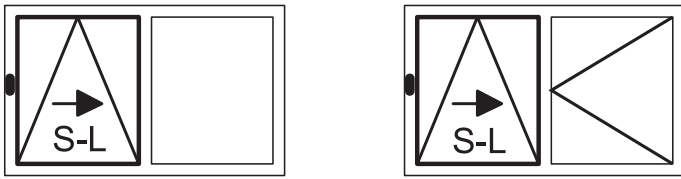


Scheme for GS1000-HL R40 profile
with cremone/window handle

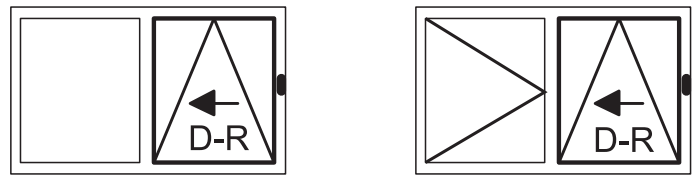


OPENING SCHEMES

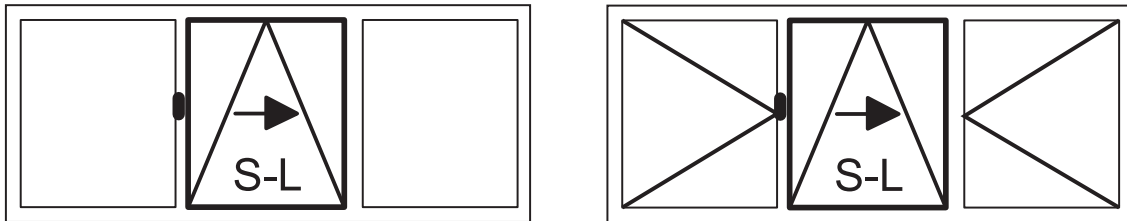
A1 - Two sashes
Left-sliding sash and fixed/opening secondary sash



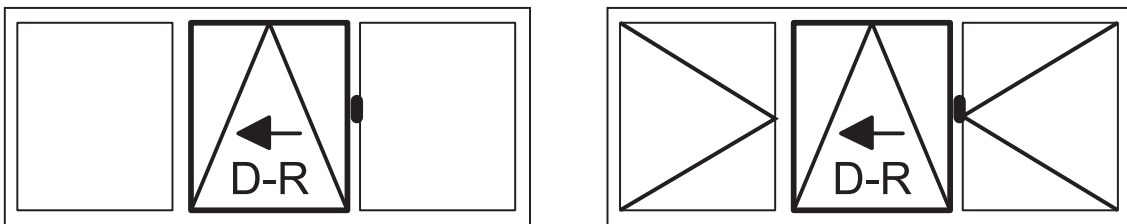
A2 - Two sashes
Right-sliding sash and fixed/opening secondary sash



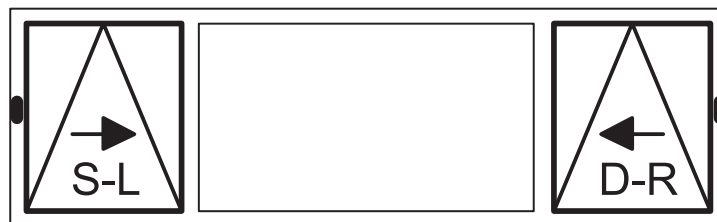
G1 - Three sashes
Left-sliding centre sash and fixed/opening secondary sashes



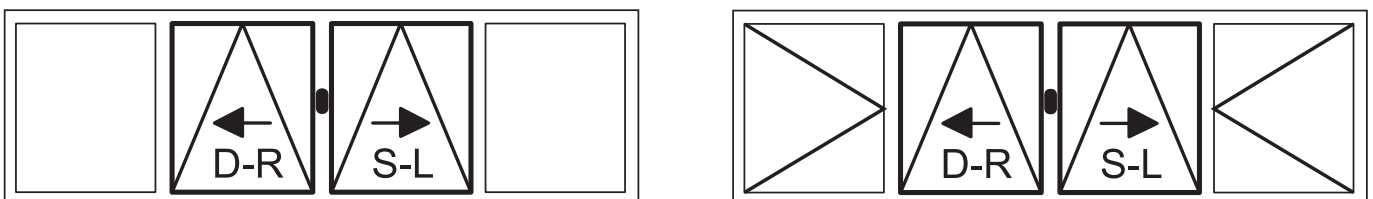
G2 - Three sashes
Right-sliding centre sash and fixed/opening secondary sashes



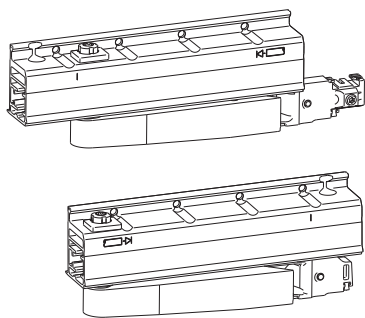
K - Three sashes
Fixed centre sash and sliding side sashes



C - Four sashes
Sliding centre sashes and fixed secondary sashes (with/without central upright)



SINGLE PULLEYS



Functions

Single pulleys for GS1000 tilt and slide system.

Online data sheet



Technical features

Single pulleys to be used for making windows with the following tilt and slide versions:

- GS1000-ML
- GS1000-HL
- GS1000-HD 100
- GS1000-HD 160

The set of single pulleys consists of a primary pulley, which controls sash return and a secondary pulley, available in right-hand and left-hand versions. The opening of the arm of the pulleys allows the sash to come out from the frame by 117 mm.

Applicable on profiles with a step greater than or equal to 7 mm.

Both pulleys are designed for use with side reinforcements that improve the seal of the profile (sold separately in the hardware set).

Using the pulleys it is possible to adjust the height of the sash (-2/+4 mm) and the parallelism between the sash and frame.

The machining on the profile for installing pulleys can be done with a specific drilling template.

Fixing to the profile is done with self-threading screws.

The pulleys are supplied with 2 supports for the bottom guard and the screws and bolts for fixing the pulleys and the set of rails.

Materials

Body and opening levers of aluminium

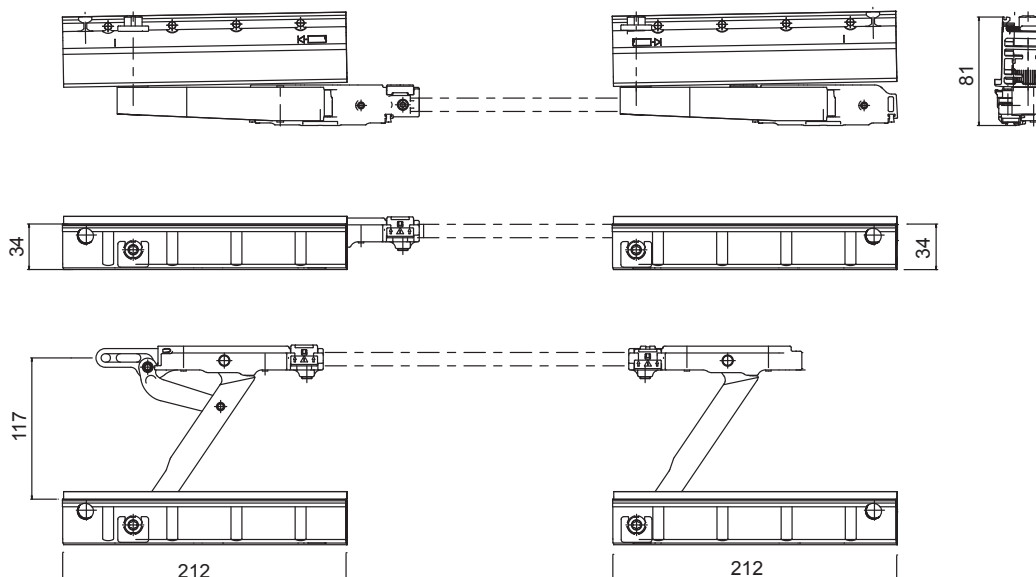
Wheel support of zamak

Polyamide wheels

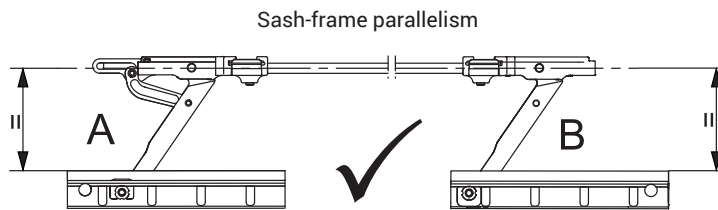
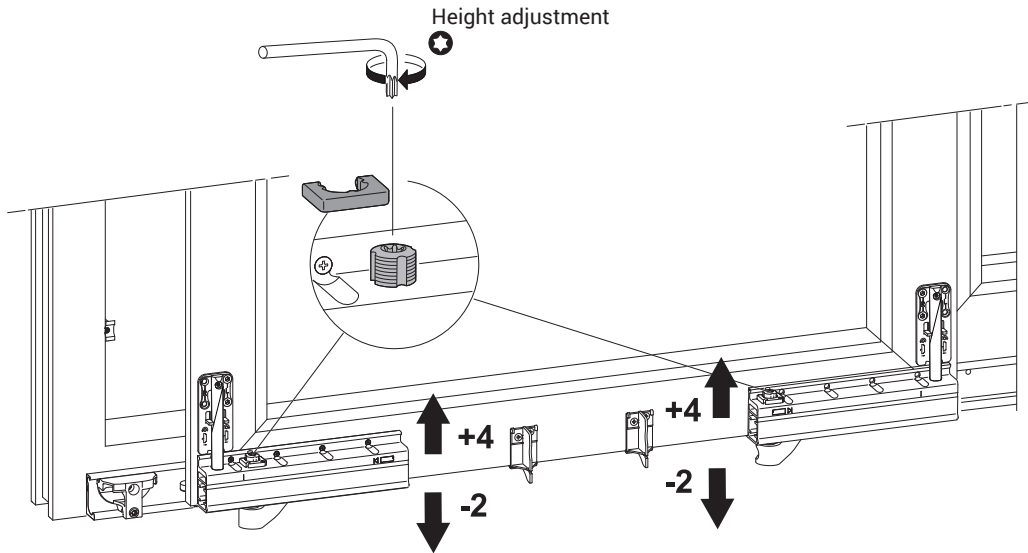
Bottom guard supports of polyamide

Screws and pins of stainless steel

Single pulleys

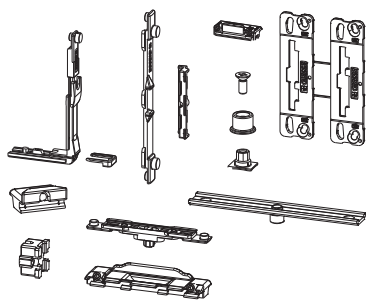


GS1000-HL TILT AND SLIDE



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09776	SET OF RH SINGLE PULLEYS	-	-	X	X	X	X	-	X				1
09777	SET OF LH SINGLE PULLEYS	-	-	X	X	X	X	-	X				1

GS1000-ML AND GS1000-HL HARDWARE

**Functions**

Complete fastener system for making GS1000 tilt and slide type windows with manual control.
Available in versions for Euro groove for cremone and window handle and the version for R40.

[Online data sheet](#)

**Technical features**

The fastening system uses the Futura tilt-and-turn fastening mechanism with a polyamide rod and LOGICA opening (*) with which operating the cremone produces first tilt opening, then slide opening.

The Euro groove hardware set uses fixed pawls and adjustable strikers (± 1.8 mm) with which you can optimize the perimeter pressure of the sash.

The R40 hardware set instead has fixed strikers and adjustable pawls (± 1.2 mm).

The hardware components are pre-assembled and are attached to the profile with contrast grubscrews, without any specific machining.

It is possible to add up to four additional locking points, depending on the size of the sash.

The hardware set consists of:

- no. 3 corner drives to transmit the motion between the uprights and cross-beams, to be secured to the profile with interlocking clips
- no. 1 cremone drive rod + no.1 incorrect movement safety striker (not included in the window handle hardware set)
- no. 8 locking points (pawls + strikers)
- no. 2 spring latches + strikers for the automatic locking system (not available in the version for R40)
- no. 2 connection rods with fastening mechanism pawl
- no. 1 lift-proof system (block + striker)
- no. 2 incorrect movement safety plates for cremones (1 right + 1 left) to replace the one supplied with the standard cremone
- no. 1 sticker for correct system operation

(*) excluding the configuration for R40

Materials

Drives, drive rod, strikers and pawls of zamak

Automatic catch strikers of zamak

Brass spring latches

Lift-proof striker + block of zamak

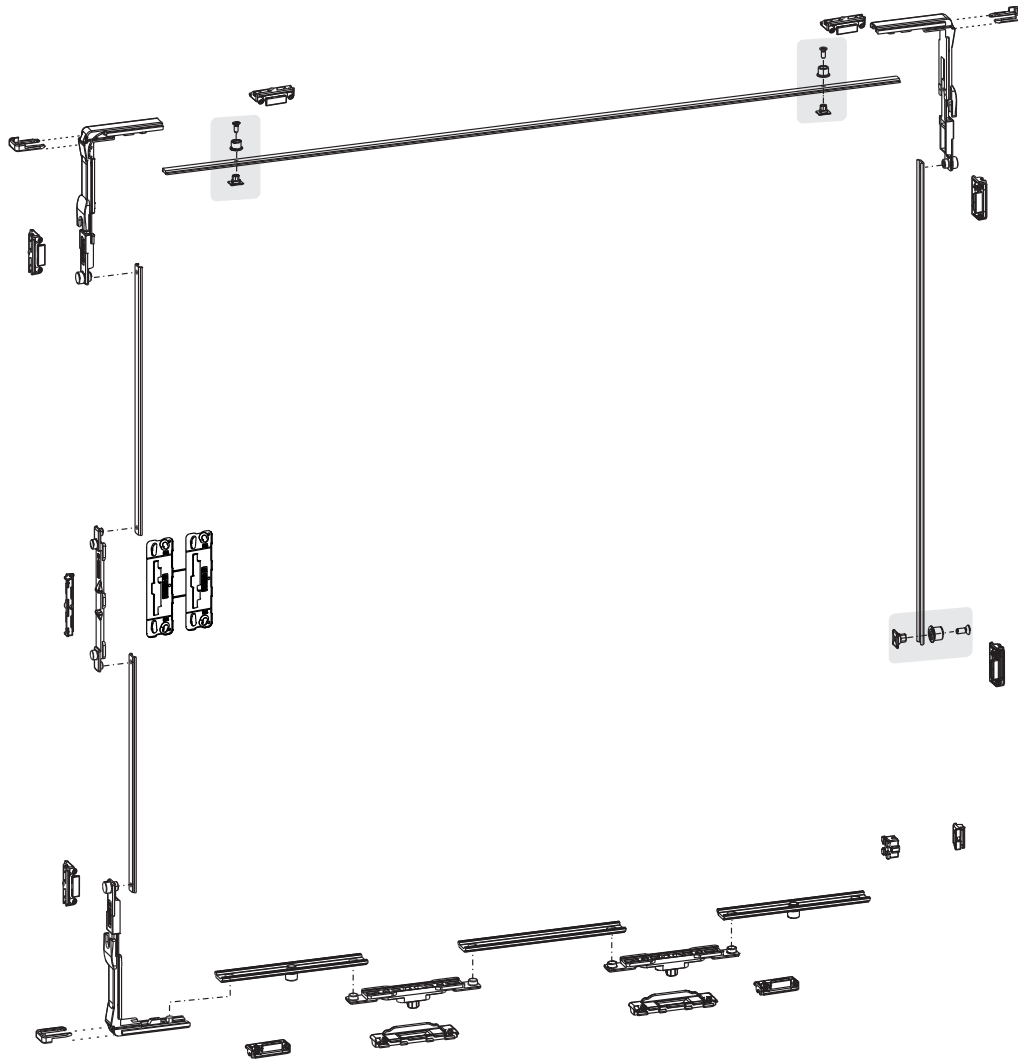
Polyamide connection rods

Polyamide incorrect movement safety device plates

Stainless steel mounting grubscrews

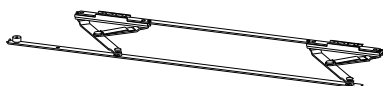
GS1000-HL TILT AND SLIDE

GS1000ML-HL hardware set



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09780	GS1000-ML/HL HARDWARE SET	-	C001-C002-C003-C005	X	X	-	-	-	X				1
09783	GS1000-ML/HL WINDOW HANDLE HARDWARE SET	-	C001	X	X	-	-	-	X				1
09758	GS1000 R40 HARDWARE SET	-	C007	X	X	-	-	-	X				1

GS1000-ML/GS1000-HL ARMS



Functions

Stay arms for GS1000-ML and GS1000-HL tilt-and-slide system.

Online data sheet



Technical features

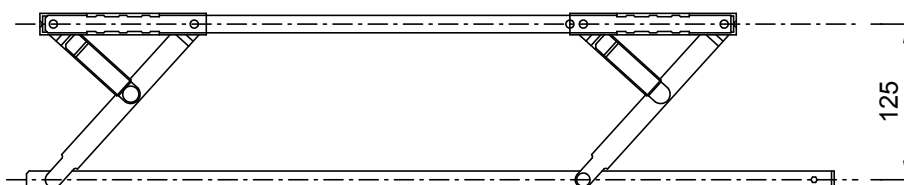
The arms allow tilt-and-turn opening of the sash in conjunction with the fastening mechanisms.

They are available in three sizes to choose from according to the width of the sliding sash:

- for sashes of width 630-980 mm
- for sashes of width 981-1280 mm
- for sashes of width 1281-1680 mm

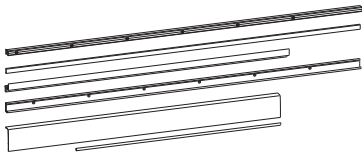
Materials

Steel arms
Sliders of nylon



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09723	630-930 WIDTH STAY ARM	630÷930	-	X	X	X	-	-	X				1
09724	931-1280 WIDTH STAY ARM	931÷1280	-	X	X	X	-	-	X				1
09725	1281-1680 WIDTH STAY ARM	1281÷1680	-	X	X	X	-	-	X				1

PROFILES SET



Functions

Profiles with the function of supporting and guiding in the phase of operating the sliding sash and with the function of a stylish cover for the GS1000 tilt and slide system.

Online data sheet



Technical features

Each set of profiles consists of:

- top guards and track
- bottom guards and track
- screw protection plug
- pulley connection rod

The profiles set is available in various sizes, depending on the width of the sash to be constructed.

The bottom rail always has an anodised, silver or black finish.

The fixing of the profiles is by means of self-threading screws (supplied with the set of pulleys).

There are specific templates for the installation of the various profiles.

Materials

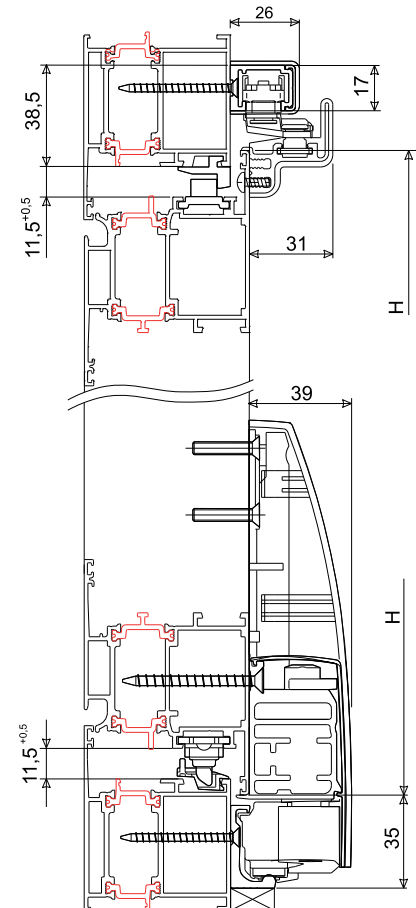
Rails and covers made of extruded aluminium

PVC screw cover rod (*)

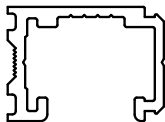
Steel connection rod

(*) Available in the basic finishes of white, black and grey, combined with the various profile set finishes.

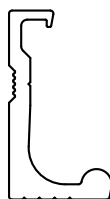
Application section



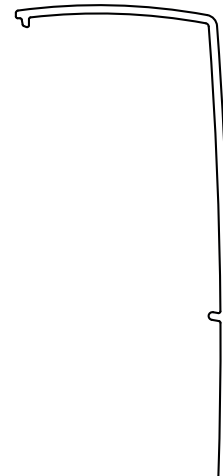
09768
(single profile)



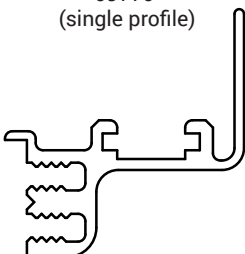
09769
(single profile)



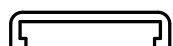
09771
(single profile)



09770
(single profile)



09772
(single profile)



09773
(single profile)

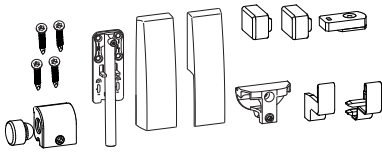


Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09761	630-880 PROFILES SET	630÷880	-	X	X	X	X	-	X	X	X		1
09762	881-1080 PROFILES SET	881÷1080	-	X	X	X	X	-	X	X	X		1
09763	1081-1280 PROFILES SET	1081÷1280	-	X	X	X	X	X	X	X	X		1
09764	1281-1480 PROFILES SET	1281÷1480	-	X	X	X	X	X	X	X	X		1
09765	1481-1680 PROFILES SET	1481÷1680	-	-	X	-	X	X	X	X	X		1

SINGLE PROFILES

Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09768	TOP RAIL L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09769	BOTTOM RAIL L=6000 mm	-	-	X	X	X	X	X	X	X			1
09770	TOP GUARD L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09771	BOTTOM GUARD L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09772	PVC SCREW COVER L=6000 mm	-	-	X	X	X	X	X	X				1
09773	PULLEY CONNECTION ROD L=4000 mm	-	-	X	X	X	X	X	X				1

ACCESSORIES SET WITH SIDE REINFORCEMENTS



Functions

Components for covering and completing the GS1000 tilt and slide system.

[Online data sheet](#)



Technical features

Accessories set with side reinforcements consists of:

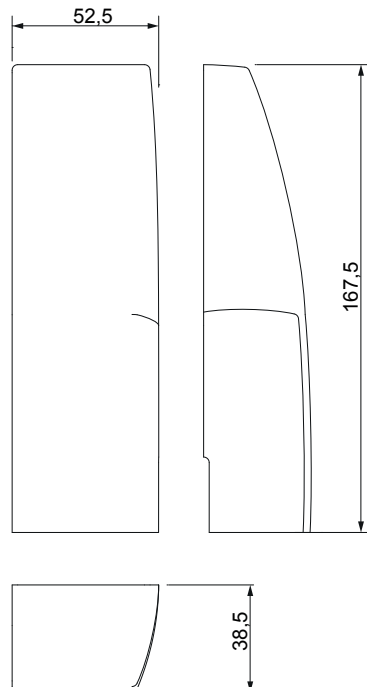
- side reinforcements for pulleys
- machined side protective caps that can be painted as needed
- protective caps for guards
- top and bottom stops
- command striker

To be combined with the GS1000-HL, GS1000-HD 160 and GS1000-HD 200 versions for sashes weighing over 100 kg.

Materials

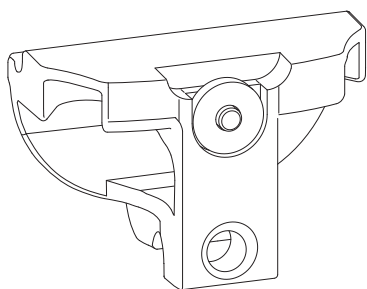
- Paintable plastic plugs
- Steel reinforcements
- Command striker of zamak
- Bottom limit stop striker of zamak and rubber
- Top limit stop striker of steel and rubber
- Stainless steel screws and bolts

Plugs art. 09775



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09775	ACCESSORIES SET WITH SIDE REINFORCEMENTS	-	-	-	X	-	X	X	X		X		1

MOBILE STRIKER



Functions

Component for positioning the mobile sash for GS1000 tilt and slide systems.

Online data sheet



Technical features

The mobile striker enables run-by of the sliding sash, for opening the secondary sash.

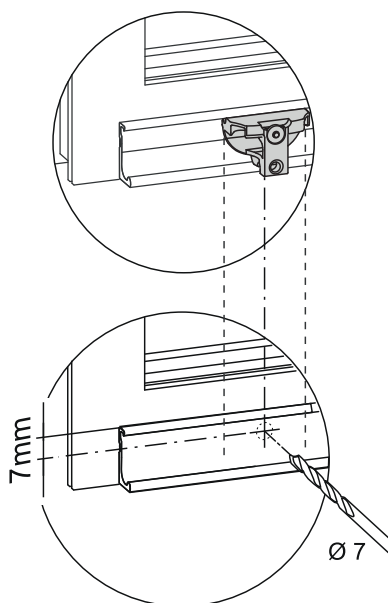
In configurations with an opening secondary sash, this striker replaces the fixed command striker supplied with the hardware set.

The pin with a spring keeps the striker in position and allows it to move in order to allow opening the secondary sash.

Materials

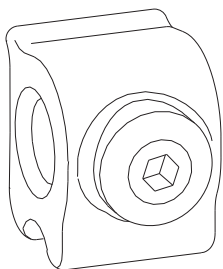
Zamak striker

Spring and pin of steel



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0979001	MOBILE STRIKER	-	-	X	X	X	X	X	X				1

SUPPORT BLOCK



Functions

Component for supporting the pulley connection rod.
For all GS1000 tilt and slide system versions.

Online data sheet

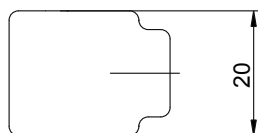
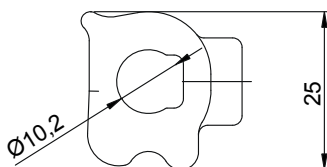


Technical features

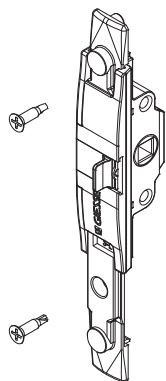
The support block is used for sash widths > 1480 mm in order to make the connection rod between the two pulleys more stable.

Materials

Nylon block
Steel mounting grubscrew



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09789	SUPPORT BLOCK	-	-	-	X	X	X	X	X				1



WINDOW HANDLE MECHANISM

Functions

Specific one-way mechanism for GS1000-ML and GS1000-HL tilt and slide versions with window handle.

Online data sheet



Technical features

Available in right and left versions, the mechanism must match the specific hardware set for the window handle (art. 09783).

The mechanism can be combined with all the window handles made by GIESSE, both of aluminium and brass (with 7 mm square pin).

The shim supplied, to be positioned inside the profile, between the mechanism and the window handle, enables perfect alignment of the parts.

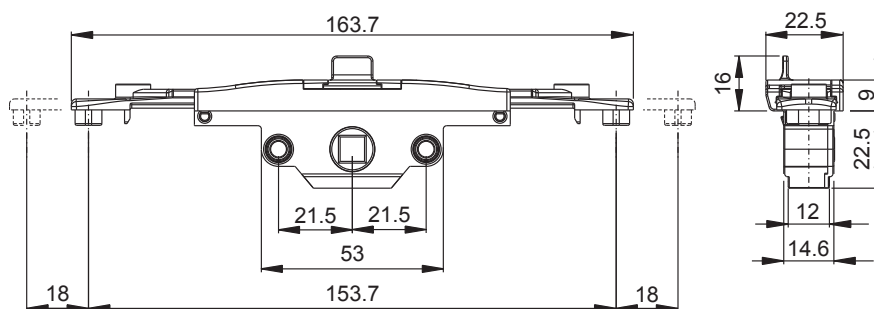
The mechanism has an incorrect movement safety device integral with the mechanism and fixed pawls, already prepared for any additional locking points.

Materials

Rack, case, incorrect movement safety device slide, cover, mechanism and gear in die-cast zamak

Shims in black polyamide

Screws and spring of zinc-nickel plated steel



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09751	MECH. LH WINDOW HANDLE GS1000-ML/HL CE	-	-	X	X	-	-	-	X				1
09752	MECH. RH WINDOW HANDLE GS1000-ML/HL CE	-	-	X	X	-	-	-	X				1

KORA WINDOW HANDLE



Functions

Window handle for manually operated GS1000 tilt-and-slide system.

[Online data sheet](#)



Technical features

Long window handle for manually operated tilt-and-slide system, ML and HL version.

10/7 mm square pin.

Fixing C/C distance 43 mm.

Operation with notches at 0°-90°-180°.

Can be combined with the tilt-and-slide mechanisms.

Materials

Aluminium handle and cover

Zamak case

Rotor made of zinc-plated steel

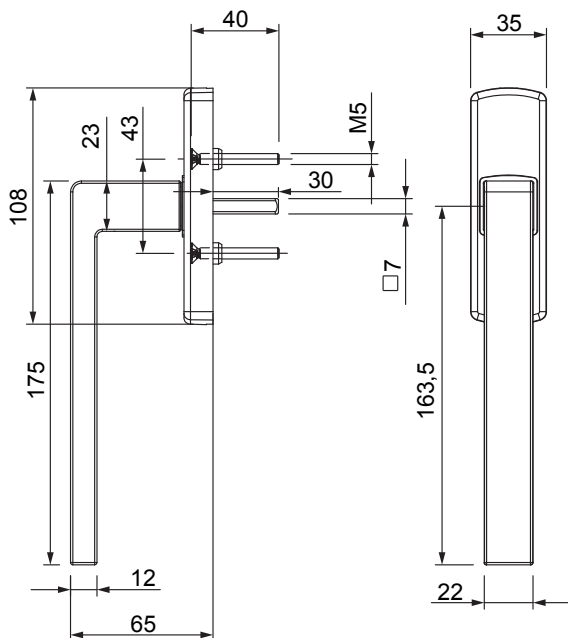
Trim ring made of acetal resin

Square pin 10/7 mm made of zinc-plated steel

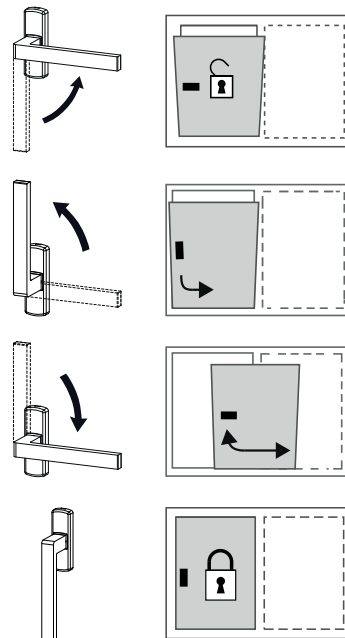
Self-forming screw for fixing to the rotor made of zinc-plated steel

Fixing screws, zinc-coated steel

Overall dimensions



Operating scheme



Item code	Description	C/C distance (l)	Handle length (L)	Compatible with mechanisms	GS1000-ML	GS1000-HL	GS1000-HD100	GS1000-HD160	GS1000-HD200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0246601	WINDOW HANDLE KORA L175 GS1000	43 mm	175 mm	09751-09752-01062	X	X	-	-	-	X	X	X	X	5



PRIMA WINDOW HANDLE

Functions

Window handle for manually operated GS1000 tilt-and-slide system.

Online data sheet



Technical features

Long window handle for manually operated tilt-and-slide system, ML and HL version.

10/7 mm square pin.

Fixing C/C distance 43 mm.

Operation with notches at 0°-90°-180°.

Can be combined with the tilt-and-slide mechanisms.

Materials

Aluminium handle and cover

Zamak case

Rotor made of zinc-plated steel

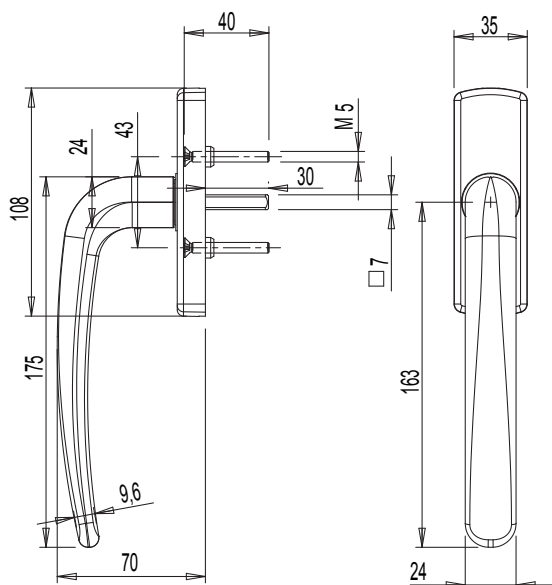
Trim ring made of acetal resin

Square pin 10/7 mm made of zinc-plated steel

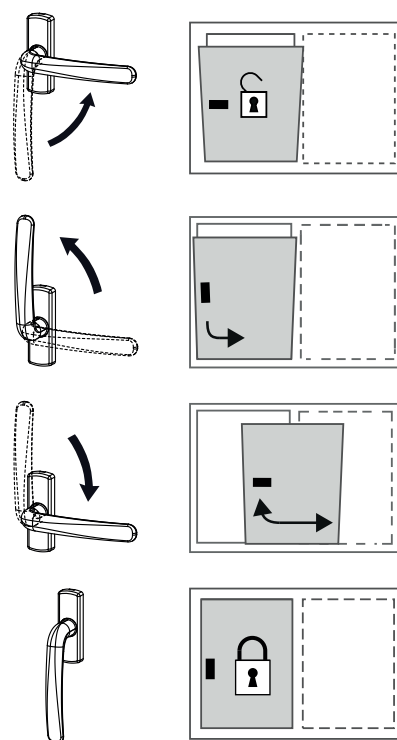
Self-forming screw for fixing to the rotor made of zinc-plated steel

Fixing screws, zinc-coated steel

Overall dimensions



Operating scheme



Item code	Description	C/C distance (l)	Handle length (L)	Compatible with mechanisms	GS1000-ML	GS1000-HL	GS1000-HD100	GS1000-HD160	GS1000-HD200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0243501	PRIMA WINDOW HANDLE L175 GS1000	43 mm	175 mm	09751-09752-01062	X	X	-	-	-	X	X	X	X	5



ASIA WINDOW HANDLE

Functions

Window handle for manually operated GS1000 tilt-and-slide system.

[Online data sheet](#)



Technical features

Long window handle for manually operated tilt-and-slide system, ML and HL version.

10/7 mm square pin.

Fixing C/C distance 43 mm.

Operation with notches at 0°-90°-180°.

Can be combined with the tilt-and-slide mechanisms.

Materials

Aluminium handle and cover

Zamak case

Rotor made of zinc-plated steel

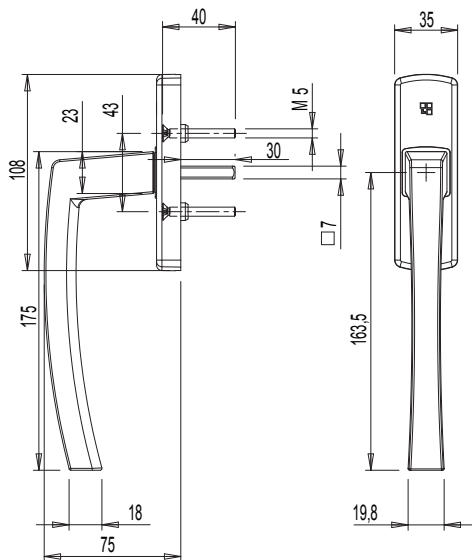
Trim ring made of acetal resin

Square pin 10/7 mm made of zinc-plated steel

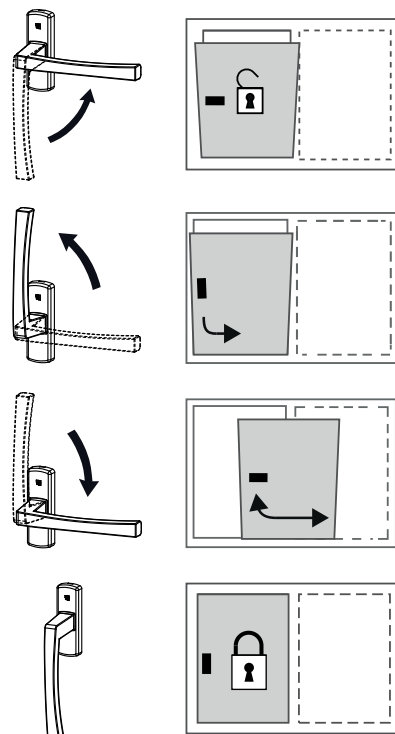
Self-forming screw for fixing to the rotor made of zinc-plated steel

Fixing screws, zinc-coated steel

Overall dimensions

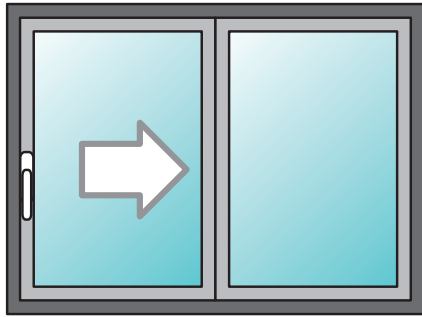


Operating scheme

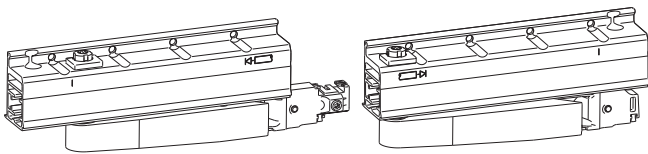


Item code	Description	C/C distance (l)	Handle length (L)	Compatible with mechanisms	GS1000-ML	GS1000-HL	GS1000-HD100	GS1000-HD160	GS1000-HD200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0244301	ASIA WINDOW HANDLE L175 GS1000	43 mm	175 mm	09751-09752-01062	X	X	-	-	-	X	X	X	X	5

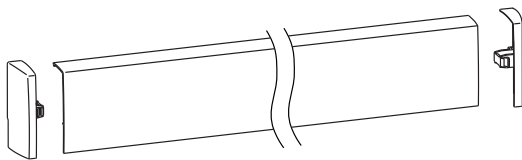
GS1000-HD100



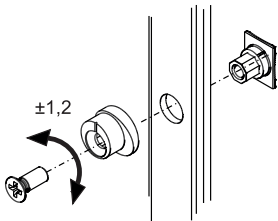
Single pulleys



Hardware without reinforcements



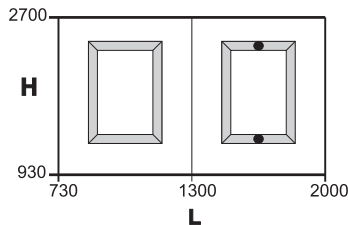
Adjustable pawl



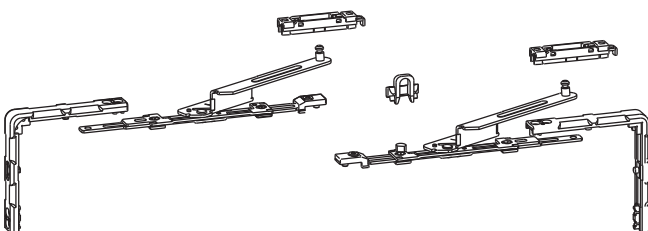
Operating scheme



Additional locking points



Fastening mechanisms



GS1000-HD 100 TILT AND SLIDE

Functions

Tilt and slide system with semi-automatic forced control operation that allows closing the sash with just one hand, by operating the long-handled cremone.

For applications with sashes weighing up to 100 kg. Available for Euro groove profiles.

Technical Features

GS1000-HD 100 is ideal for light sashes of up to 100 kg in weight, for those who want semi-automatic operation.

Uses single pulleys without flat side plugs and reinforcements.

GS1000 HD-100 is available in the configuration for the Euro groove profile and uses special fastening mechanisms specifically designed for aluminium.

All the hardware components are equipped with Torx fixing screws.

The hardware set uses fixed lock strikers and compression adjustable lock pawls (± 1.2 mm), with which you can optimize the perimeter pressure of the sash.

It is possible to add up to two additional locking points on the top and bottom cross-beams, depending on the size of the sash, to improve the air/water seal.

Automatic catch

GS1000-HD 100 features the automatic catch system installed at the bottom of the sash.

This device facilitates closing the sash that, when put in the closed position, automatically locks in the tilt position. Turning the cremone from 135° (sliding position) to 90° (tilt position) and putting the sash into the closed position engages the sash in the tilt position.

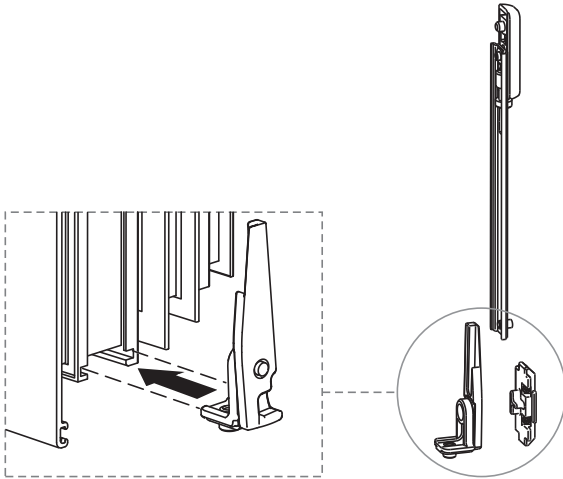
To close the sash, simply rotate the cremone to 0° (closed). The forced control device will close the sash automatically.

"LOGICA" opening mechanism

GS1000-HD 100 uses the LOGICA opening system whereby operating the cremone produces first tilt opening and then slide opening. Taking the cremone to 90° operates tilt opening and turning it to 135° operates slide opening.

To engage the automatic catch, the cremone must be turned back to 90° and the sash closed against the frame.

Incorrect movement safety device



Incorrect movement safety device

The new incorrect movement safety device for the forced control version allows operating the cremone only when the sash is hooked onto the frame, protecting the hardware against damage in the event of improper use.

The device also prevents the sash from lifting.

Ideal for installation in conditions of high frequency opening and with occasional users (hotels, public buildings).

It cannot be used in the case of an opening secondary sash.

Sold separately.

Additional arm

Using the additional arm, thanks to the special spring, facilitates opening the sash in the case of heavy weights.

The arm is to be installed for sashes weighing more than 160 kg or weighing more than 100 kg and sash profile width > 75 mm.

Sold separately.

Stay arm catch

The system for coupling the opening arms and the sliders guarantees perfect coupling between the sash and the frame.

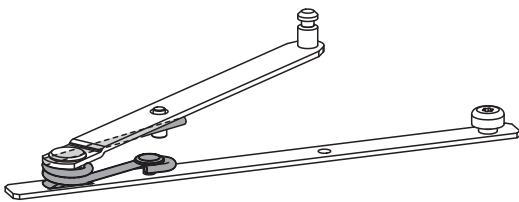
The correct positioning of the steel insert ensures that the arms and sliders are linked together.

Correct positioning of the sash

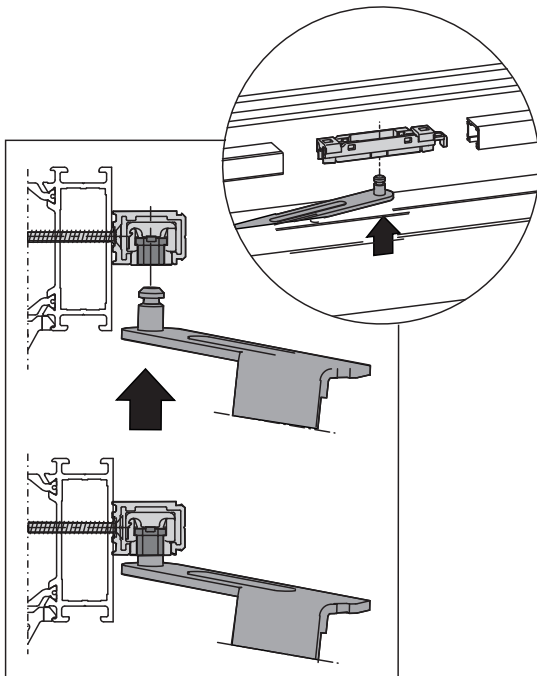
To improve the overall alignment of the sash with the frame, there are several adjustments

- height adjustment of the sash via the pulleys (-2/+4 mm)
- side adjustment via the command striker
- adjustment of the side reinforcements to improve the sash out and return phase
- adjustment of the sash-frame parallelism with pulleys and arms

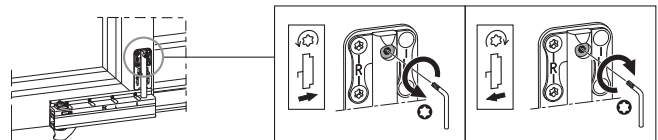
Additional arm



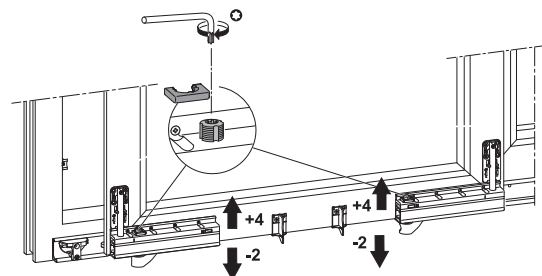
Stay arm catch



Adjustment of the side reinforcements



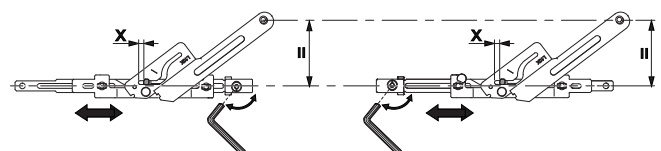
Height adjustment



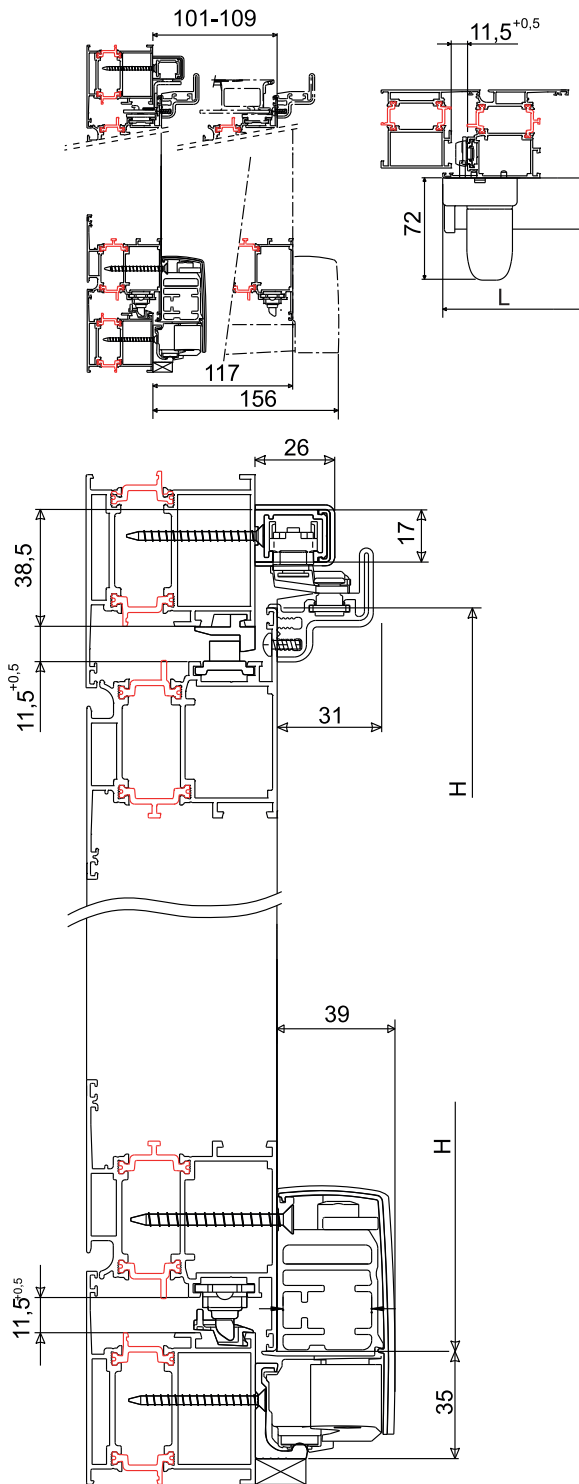
Sash-frame parallelism



Sash-frame parallelism with arms



Application section



GS1000-HD 100 range of use

Applications on aluminium doors and windows

Sash weight (kg) = max 100 kg

Sash width (W) = 730 to 1300 mm

Sash height (H) = 930 to 2400 mm

Minimum required dimensions

Bottom rail = 35 mm

Top rail = 38.5 mm

Bottom rail depth = 17 mm

Step ≥ 7 mm

Sash depth D:

≤ 87 mm check not required

> 87 mm do only after technical verification (return trajectory and sash centre of gravity)

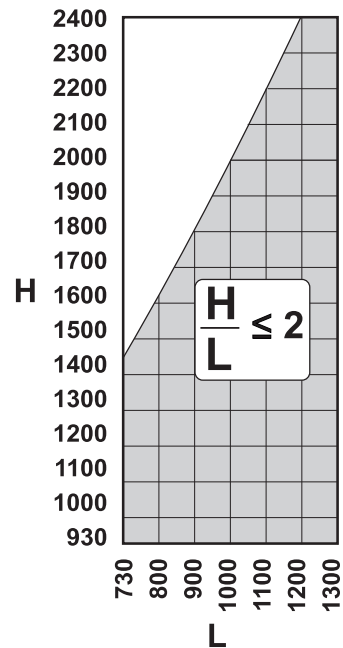
Important note

The H/L ratio ≤ 2 given in the scheme is binding and must not be exceeded.

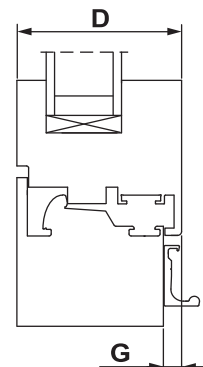
In all cases, refer to the profile manufacturer's instructions and comply with the requirements.

Take the due precautions to avoid straining the mechanism in specific sites such as hotels, schools, kindergartens, etc.

Range of use



G = step
D = sash depth

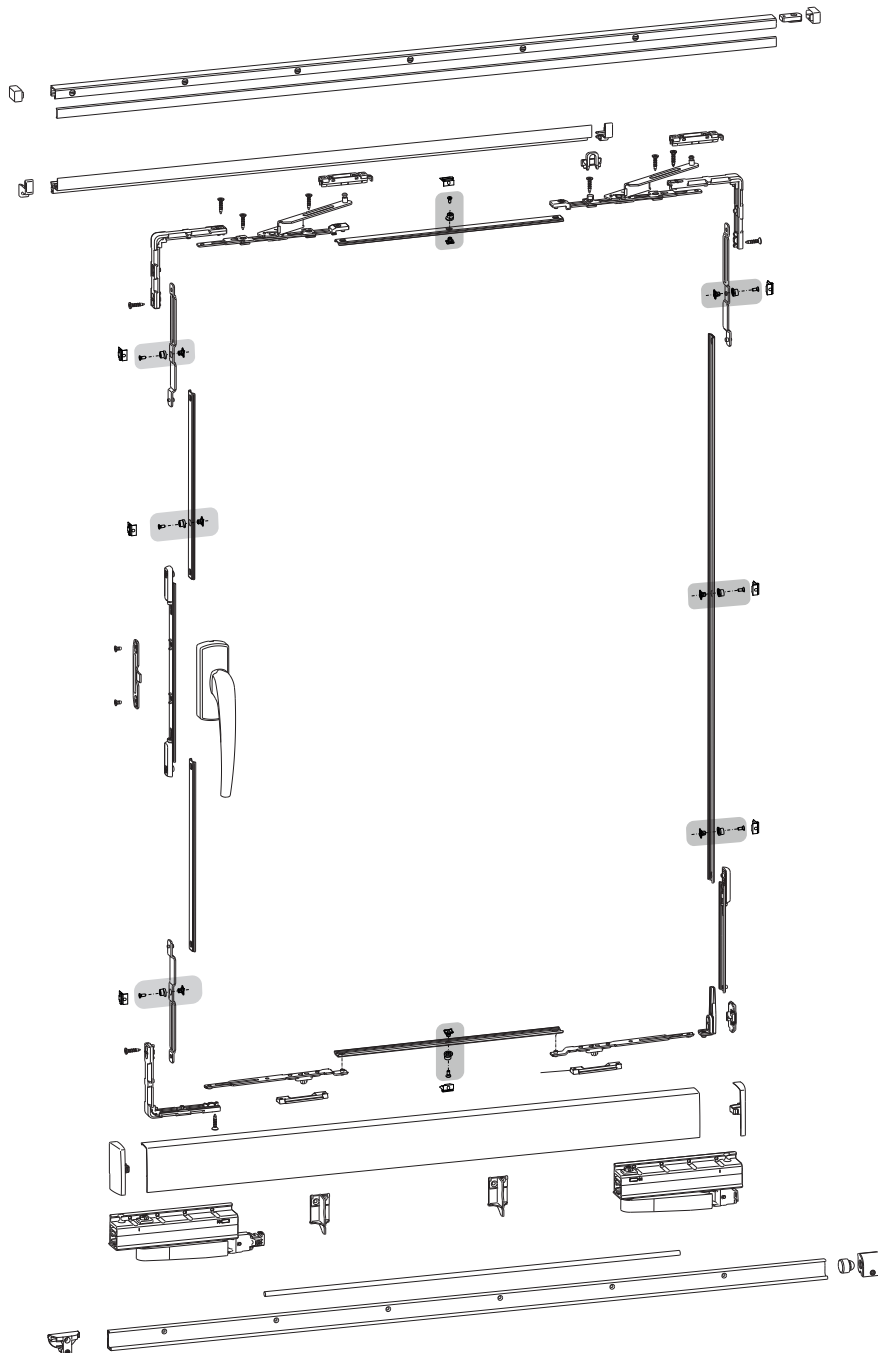


GS1000-HD 100 TILT AND SLIDE

A typical GS1000-HD 100 configuration consists of:

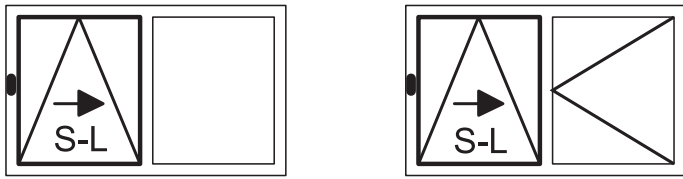
- single pulley set
- special hardware set for Euro groove profile
- profile set
- accessories set without side reinforcements
- fastening striker set
- cremone with long handle (in the version with and without a key)
- incorrect movement safety device that prevents incorrect operation of the sash
- mobile control (in the case of an opening secondary sash)
- support block for pulley connection rod (for sashes of width >1480 mm)

Scheme for GS1000-HD 100 Euro groove profile

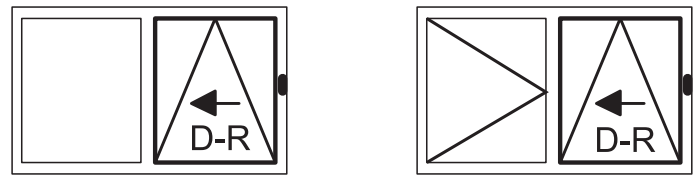


OPENING SCHEMES

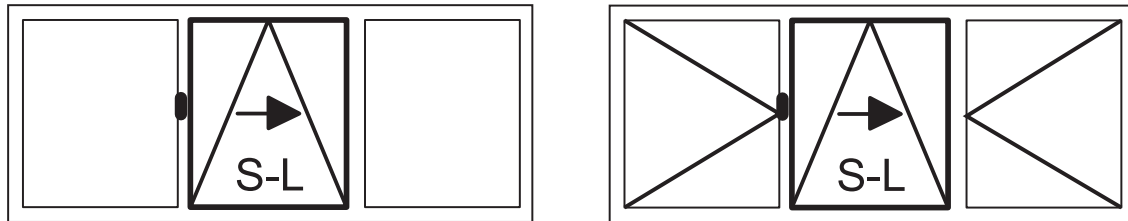
A1 - Two sashes
Left-sliding sash and fixed/opening secondary sash



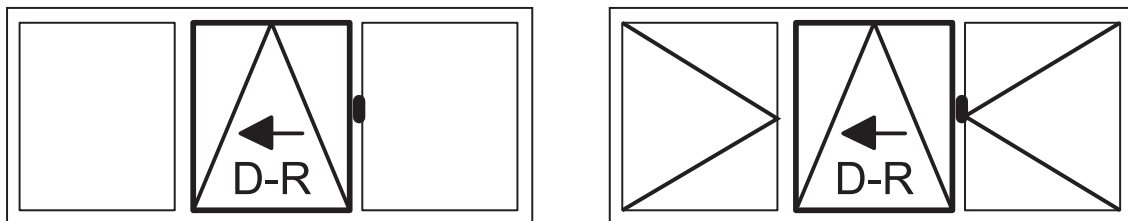
A2 - Two sashes
Right-sliding sash and fixed/opening secondary sash



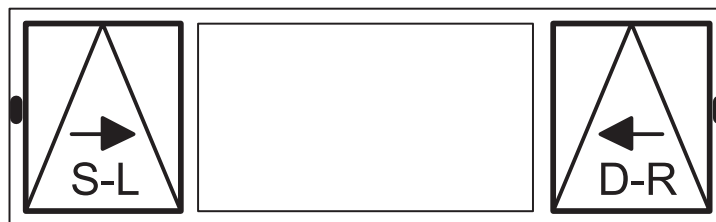
G1 - Three sashes
Left-sliding centre sash and fixed/opening secondary sashes



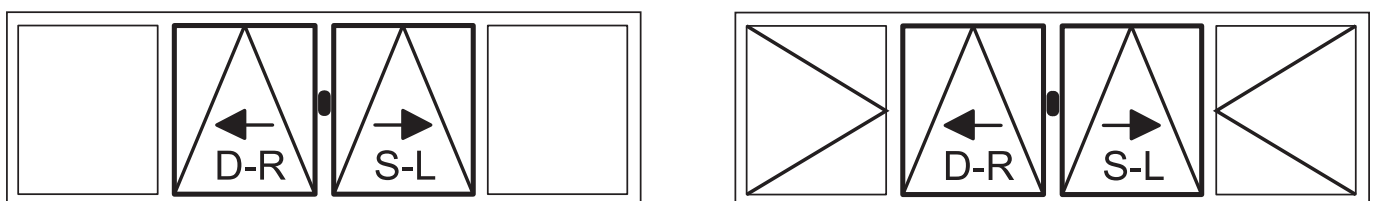
G2 - Three sashes
Right-sliding centre sash and fixed/opening secondary sashes



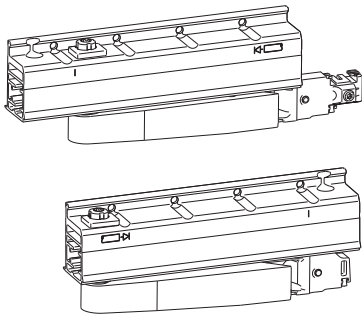
K - Three sashes
Fixed centre sash and sliding side sashes



C - Four sashes
Sliding centre sashes and fixed secondary sashes (with/without central upright)



SINGLE PULLEYS



Functions

Single pulleys for GS1000 tilt and slide system.

Online data sheet



Technical features

Single pulleys to be used for making windows with the following tilt and slide versions:

- GS1000-ML
- GS1000-HL
- GS1000-HD 100
- GS1000-HD 160

The set of single pulleys consists of a primary pulley, which controls sash return and a secondary pulley, available in right-hand and left-hand versions. The opening of the arm of the pulleys allows the sash to come out from the frame by 117 mm.

Applicable on profiles with a step greater than or equal to 7 mm.

Both pulleys are designed for use with side reinforcements that improve the seal of the profile (sold separately in the hardware set).

Using the pulleys it is possible to adjust the height of the sash (-2/+4 mm) and the parallelism between the sash and frame.

The machining on the profile for installing pulleys can be done with a specific drilling template.

Fixing to the profile is done with self-threading screws.

The pulleys are supplied with 2 supports for the bottom guard and the screws and bolts for fixing the pulleys and the set of rails.

Materials

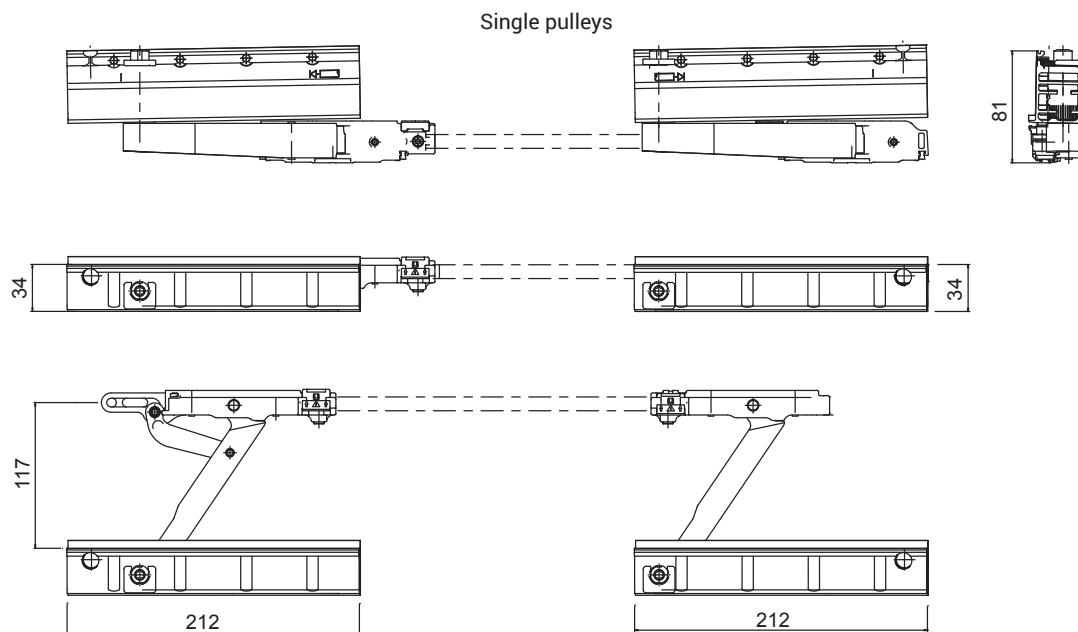
Body and opening levers of aluminium

Wheel support of zamak

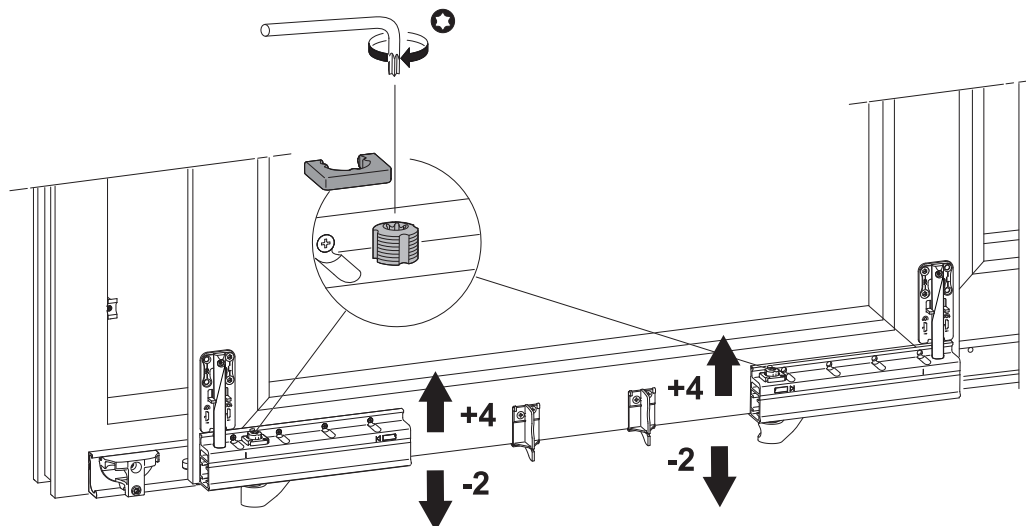
Polyamide wheels

Bottom guard supports of polyamide

Screws and pins of stainless steel



Height adjustment

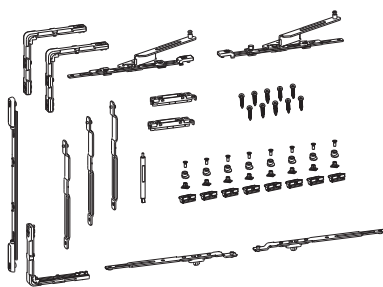


Sash-frame parallelism



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09776	SET OF RH SINGLE PULLEYS	-	-	X	X	X	X	-	X				1
09777	SET OF LH SINGLE PULLEYS	-	-	X	X	X	X	-	X				1

GS1000-HD HARDWARE



Functions

Complete fastener system for making GS1000 tilt and slide type windows with forced control.
Available in version for Euro groove.

[Online data sheet](#)



Technical features

The fastening system uses the special fastening mechanism with LOGICA opening with which operating the cremone produces first tilt opening and then slide opening.

The particular shape of the arms of the special hardware allows semi-automatic return of the sash into the bottom-hung opening position and into the closing position.

The hardware set uses fixed strikers and adjustable pawls (± 1.2 mm) to optimize the perimeter pressure of the sash.

The hardware components are pre-assembled and are attached to the profile with Torx screws.

It is possible to add up to two additional locking points, depending on the size of the sash.

The hardware set consists of:

- no. 3 corner drives to transmit the motion between the uprights and cross-beams, to be secured to the profile with Torx screws
- no. 1 cremone drive rod
- no. 2 opening arms + sliders
- no. 2 spring latches (matching the set of strikers sold separately)
- no. 3 fastening mechanism rods
- no. 8 locking points (adjustable pawls + fixed strikers)
- no. 1 sticker for correct system operation
- no. 1 arm and pulley release device

Materials

Drive rod of aluminium and zamak

Zamak drives

Opening arms and spring latches made of steel

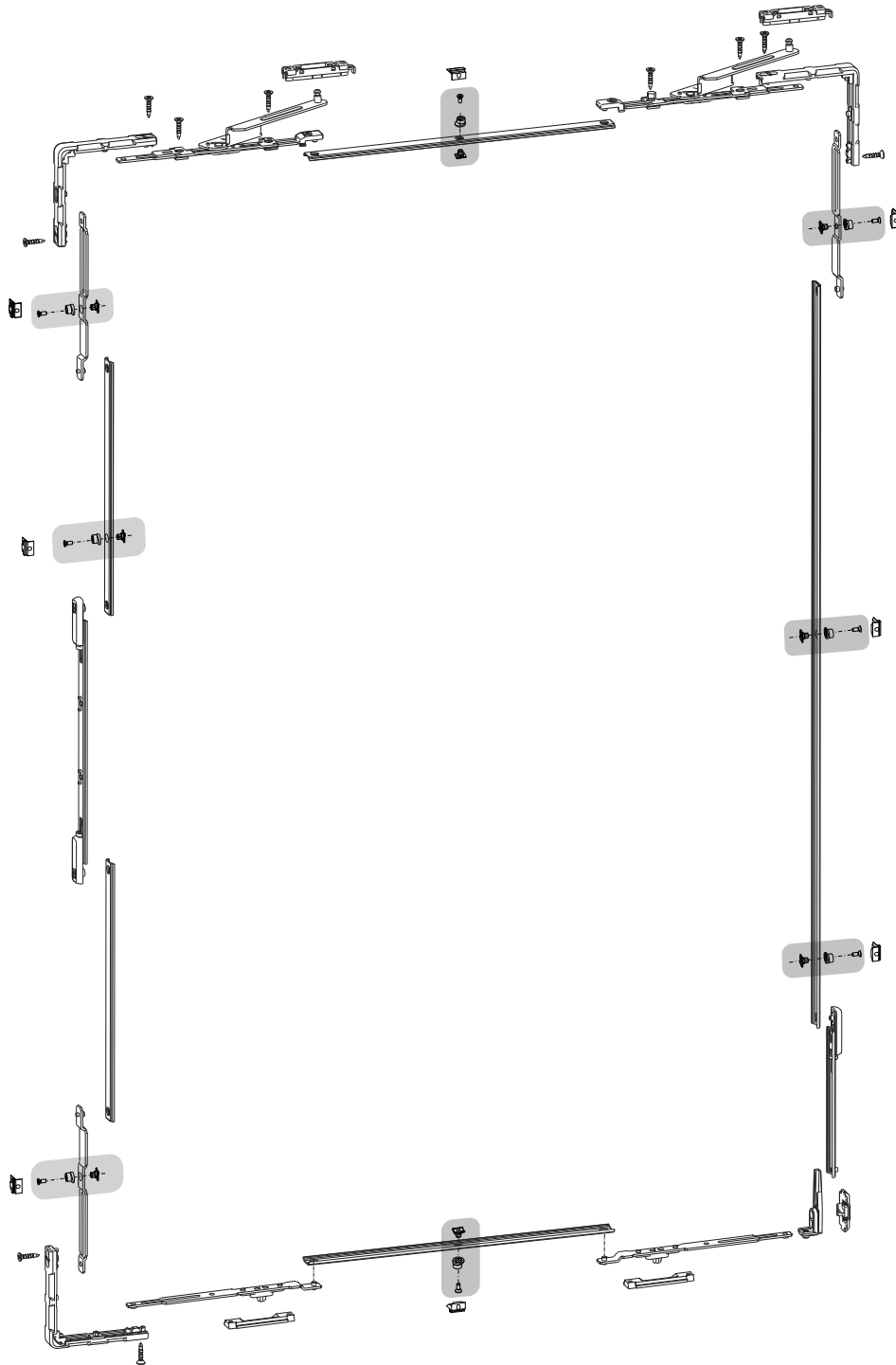
Steel fastening rods

Sliders of polyamide and steel

Strikers and pawls of zamak

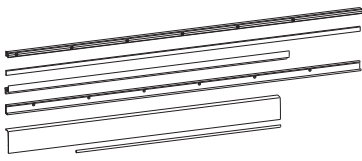
Steel screws

GS1000 HD hardware set



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09781	GS1000-HD LH HARDWARE SET	-	C001-C002- C003-C005	-	-	X	X	X	X				1
09782	GS1000-HD RH HARDWARE SET	-	C001-C002- C003-C005	-	-	X	X	X	X				1

PROFILES SET



Functions

Profiles with the function of supporting and guiding in the phase of operating the sliding sash and with the function of a stylish cover for the GS1000 tilt and slide system.

Online data sheet



Technical features

Each set of profiles consists of:

- top guards and track
- bottom guards and track
- screw protection plug
- pulley connection rod

The profiles set is available in various sizes, depending on the width of the sash to be constructed.

The bottom rail always has an anodised, silver or black finish.

The fixing of the profiles is by means of self-threading screws (supplied with the set of pulleys).

There are specific templates for the installation of the various profiles.

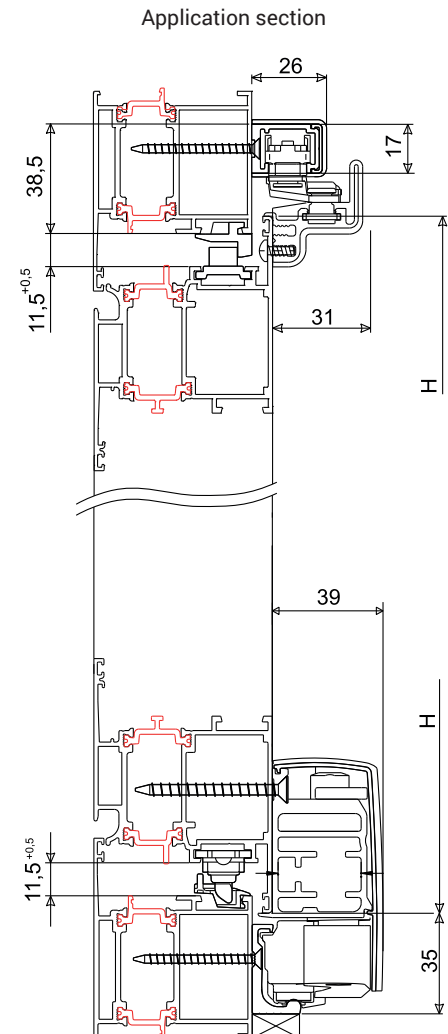
Materials

Rails and covers made of extruded aluminium

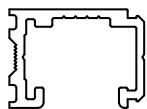
PVC screw cover rod (*)

Steel connection rod

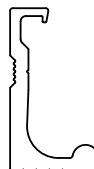
(*) Available in the basic finishes of white, black and grey, combined with the various profile set finishes.



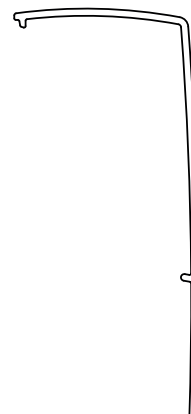
09768
(single profile)



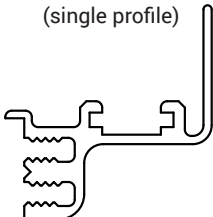
09769
(single profile)



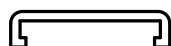
09771
(single profile)



09770
(single profile)



09772
(single profile)



09773
(single profile)



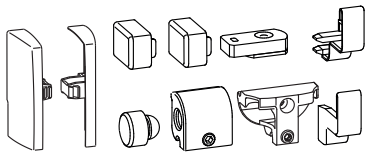
GS1000-HD 100 TILT AND SLIDE

Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09761	630-880 PROFILES SET	630÷880	-	X	X	X	X	-	X	X	X		1
09762	881-1080 PROFILES SET	881÷1080	-	X	X	X	X	-	X	X	X		1
09763	1081-1280 PROFILES SET	1081÷1280	-	X	X	X	X	X	X	X	X		1
09764	1281-1480 PROFILES SET	1281÷1480	-	X	X	X	X	X	X	X	X		1

SINGLE PROFILES

Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09768	TOP RAIL L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09769	BOTTOM RAIL L=6000 mm	-	-	X	X	X	X	X	X	X			1
09770	TOP GUARD L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09771	BOTTOM GUARD L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09772	PVC SCREW COVER L=6000 mm	-	-	X	X	X	X	X	X				1
09773	PULLEY CONNECTION ROD L=4000 mm	-	-	X	X	X	X	X	X				1

ACCESSORIES SET WITHOUT SIDE REINFORCEMENTS



Functions

Components for covering and completing the GS1000 tilt and slide system.

Online data sheet



Technical features

Accessories set without side reinforcements consists of:

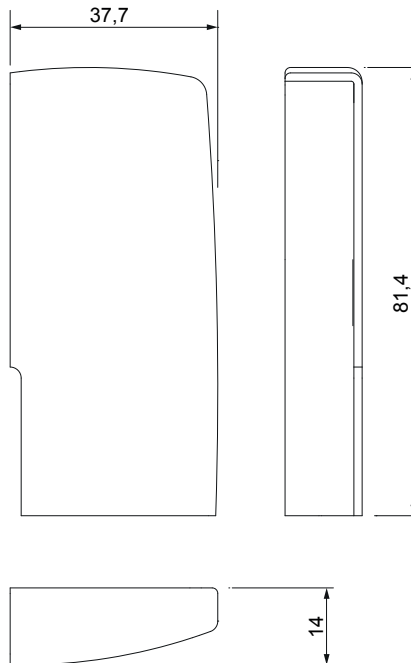
- flat side protective caps that can be painted as needed
- protective caps for guards
- top and bottom stops
- command striker

To be combined with the GS1000-ML and GS1000-HD 100 versions for sashes weighing up to 100 kg.

Materials

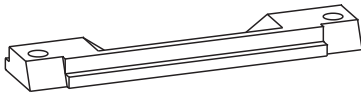
Paintable plastic plugs
 Command striker of zamak
 Bottom limit stop striker of zamak and rubber
 Top limit stop striker of steel and rubber
 Stainless steel screws and bolts

Plugs art. 09774



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09774	ACCESSORIES SET WITHOUT SIDE REINFORCEMENTS	-	-	X	-	X	-	-	X		X		1

SET OF STRIKERS



Functions

Lock strikers for the spring latches of the automatic catch system of the GS1000-HD tilt and slide system.

Online data sheet



Technical features

The set of strikers is available in four versions depending on the frame channel and consists of:

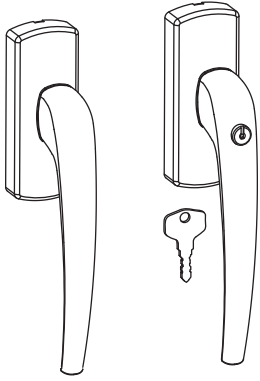
- no. 2 strikers for spring latches to secure to the frame channel with contrast grubscrews
- no. 1 sash centring striker

Materials

Automatic catch strikers of zamak
Sash centring striker of polyamide

Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09785	SET OF STRIKERS E.G. 10-14	-	C003	-	-	X	X	X	X				1
09787	SET OF STRIKERS E.G. 13.5-16.8	-	C002	-	-	X	X	X	X				1
09788	SET OF STRIKERS E.G. 14-18	-	C001-C004	-	-	X	X	X	X				1

GS1000-HD 100 TILT AND SLIDE



CREMONES FOR GS1000-HD

Functions

Right and left cremone versions, with and without key, specific for the GS1000-HD tilt and slide system with forced control.

Online data sheet



Technical features

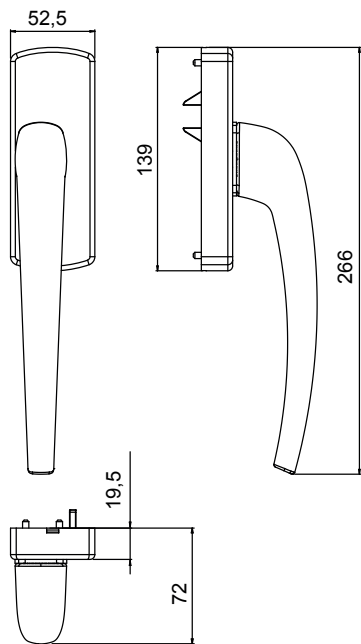
Long-handled cremone with specially designed internal mechanism to make it easier to operate sashes weighing up to 200 kg.

The special long-handled cremone consists of:

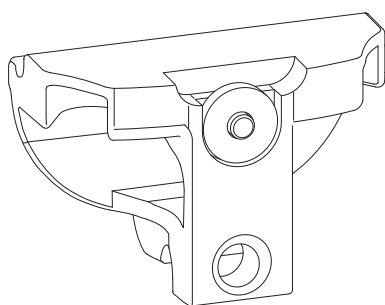
- cremone
- cover
- component connecting to the drive rod

Materials

Handle in die-cast aluminium
Case and rack made of zamak
Aluminium cover
Steel screws and bolts



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09736N	GS1000-HD RH CREMONE	-	-	-	-	X	X	X	X	X	X		1
09737N	GS1000-HD LH CREMONE	-	-	-	-	X	X	X	X	X	X		1
09738N	GS1000-HD RH CREMONE WITH KEY	-	-	-	-	X	X	X		X	X		1
09739N	GS1000-HD LH CREMONE WITH KEY	-	-	-	-	X	X	X		X	X		1



MOBILE STRIKER

Functions

Component for positioning the mobile sash for GS1000 tilt and slide systems.

Online data sheet



Technical features

The mobile striker enables run-by of the sliding sash, for opening the secondary sash.

In configurations with an opening secondary sash, this striker replaces the fixed command striker supplied with the hardware set.

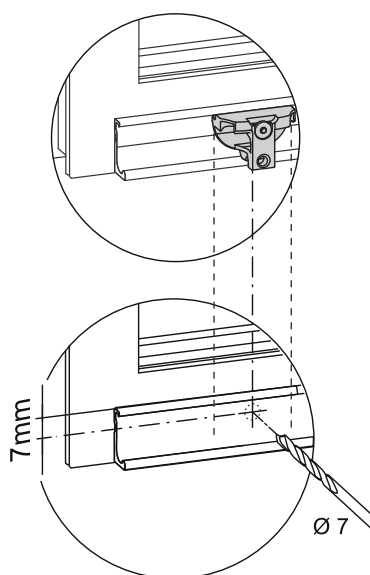
The pin with a spring keeps the striker in position and allows it to move in order to allow opening the secondary sash.

Installation can also be performed with a specific template.

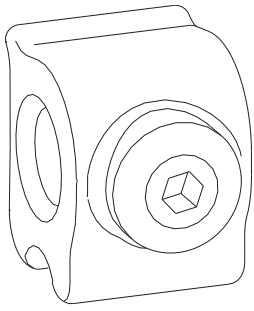
Materials

Zamak striker

Spring and pin of steel



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0979001	MOBILE STRIKER	-	-	X	X	X	X	X	X				1



SUPPORT BLOCK

Functions

Component for supporting the pulley connection rod.
For all GS1000 tilt and slide system versions.

Online data sheet

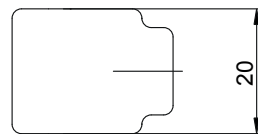
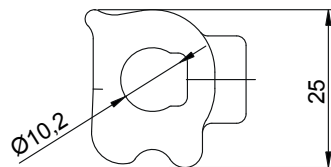


Technical features

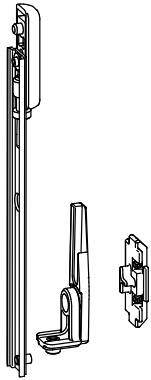
The support block is used for sash widths > 1480 mm in order to make the connection rod between the two pulleys more stable.

Materials

Nylon block
Steel mounting grubscrew



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09789	SUPPORT BLOCK	-	-	-	X	X	X	X	X				1



INCORRECT MOVEMENT SAFETY DEVICE

Functions

Incorrect movement safety device for the GS1000-HD version of the GS1000 tilt and slide system with forced control, which prevents damage to the hardware in the event of incorrect operation.

Online data sheet



Technical features

The incorrect movement safety device enables operating the special long-handled cremone only when the sash is attached to the frame.

The device also prevents the sash from lifting.

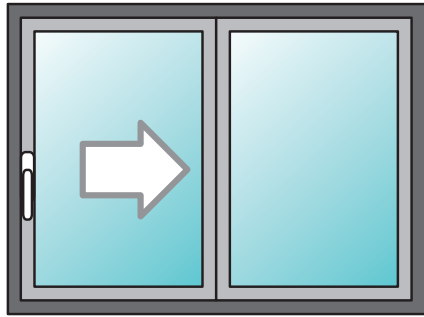
Available in two versions, opening to the left or right, depending on the frame channel.

Materials

Incorrect movement safety device made of zamak
Stainless steel grub screws

Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09791	GS1000-HD 14/18 LH INCORRECT MOVEMENT SAFETY DEVICE SET	-	C001-C002-C004-C005	-	-	X	X	X	X				1
09792	GS1000-HD 14/18 RH INCORRECT MOVEMENT SAFETY DEVICE SET	-	C001-C002-C004-C005	-	-	X	X	X	X				1
09793	GS1000-HD CE LH INCORRECT MOVEMENT SAFETY DEVICE SET	-	C003	-	-	X	X	X	X				1
09794	GS1000-HD CE RH INCORRECT MOVEMENT SAFETY DEVICE SET	-	C003	-	-	X	X	X	X				1

GS1000-HD160



GS1000-HD 160 TILT AND SLIDE

Functions

Tilt and slide system with semi-automatic forced control operation that allows closing the sash with just one hand, by operating the long-handled cremone.

For applications with sashes weighing up to 160 kg.
Available for Euro groove profiles.

Technical Features

GS1000-HD 160 is ideal for sashes of up to 160 kg in weight, for those who want semi-automatic operation.

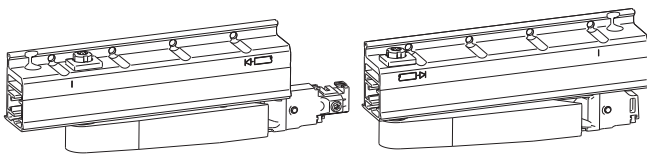
Uses single pulleys with machined side plugs and reinforcements. GS1000 HD-160 is available in the configuration for the Euro groove profile and uses special fastening mechanisms specifically designed for aluminium.

All the hardware components are equipped with Torx fixing screws.

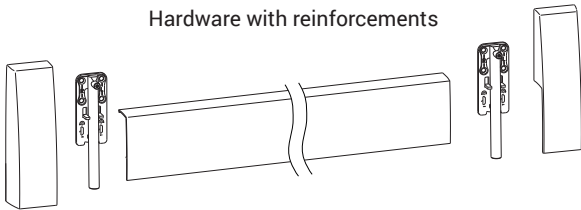
The hardware set uses fixed lock strikers and compression adjustable lock pawls (± 1.2 mm), with which you can optimize the perimeter pressure of the sash.

It is possible to add up to two additional locking points on the top and bottom cross-beams, depending on the size of the sash, to improve the air/water seal.

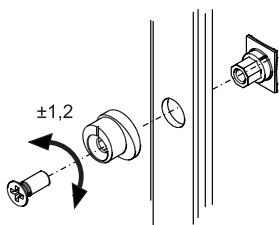
Single pulleys



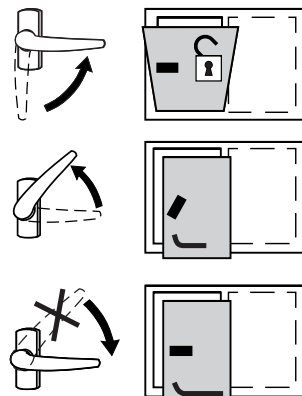
Hardware with reinforcements



Adjustable pawl



Operating scheme



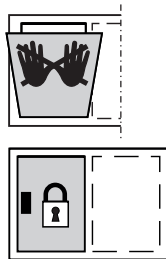
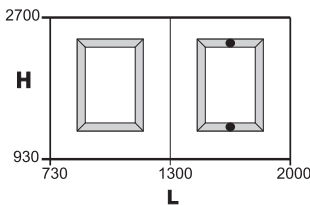
Automatic catch

GS1000-HD 160 features the automatic catch system installed at the bottom of the sash.

This device facilitates closing the sash that, when put in the closed position, automatically locks in the tilt position. Turning the cremone from 135° (sliding position) to 90° (tilt position) and putting the sash into the closed position engages the sash in the tilt position.

To close the sash, simply rotate the cremone to 0° (closed). The forced control device will close the sash automatically.

Additional locking points

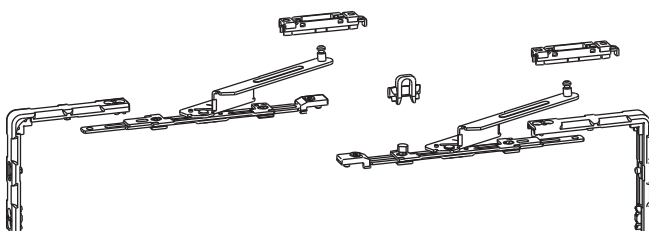


"LOGICA" opening mechanism

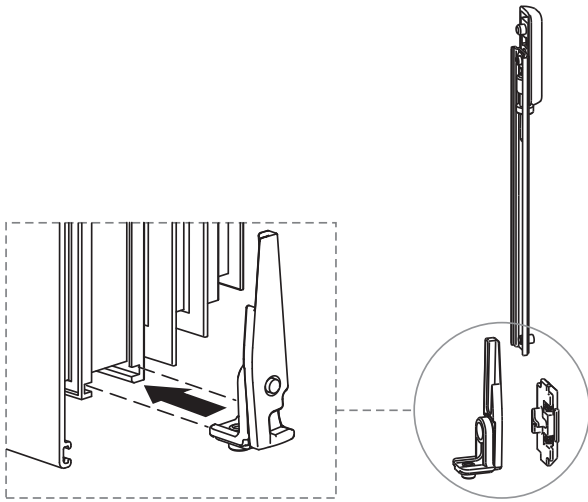
GS1000-HD 160 uses the LOGICA opening system whereby operating the cremone produces first tilt opening and then slide opening. Taking the cremone to 90° operates tilt opening and turning it to 135° operates slide opening.

To engage the automatic catch, the cremone must be turned back to 90° and the sash closed against the frame.

Fastening mechanisms



Incorrect movement safety device



Incorrect movement safety device

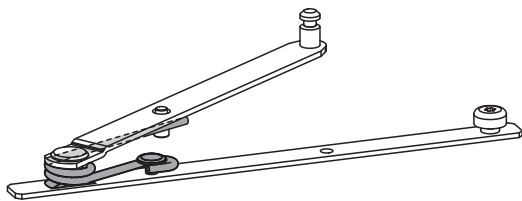
The new incorrect movement safety device for the forced control version allows operating the cremone only when the sash is hooked onto the frame, protecting the hardware against damage in the event of improper use.

The device also prevents the sash from lifting. Ideal for installation in conditions of high frequency opening and with occasional users (hotels, public buildings). It cannot be used in the case of an opening secondary sash. Sold separately.

Additional arm

Using the additional arm, thanks to the special spring, facilitates opening the sash in the case of heavy weights. The arm is to be installed for sashes weighing more than 160 kg or weighing more than 100 kg and sash profile width > 75 mm. Sold separately.

Additional arm



Stay arm catch

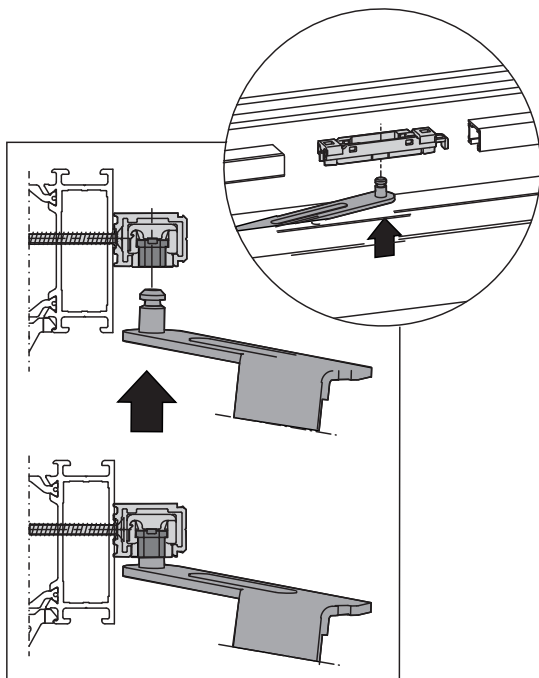
The system for coupling the opening arms and the sliders guarantees perfect coupling between the sash and the frame. The correct positioning of the steel insert ensures that the arms and sliders are linked together.

Correct positioning of the sash

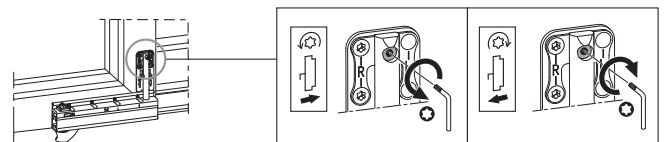
To improve the overall alignment of the sash with the frame, there are several adjustments

- height adjustment of the sash via the pulleys (-2/+4 mm)
- side adjustment via the command striker
- adjustment of the side reinforcements to improve the sash out and return phase
- adjustment of the sash-frame parallelism with pulleys and arms

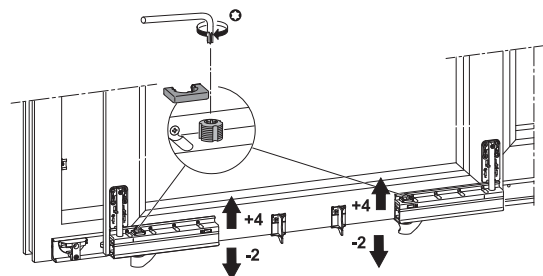
Stay arm catch



Adjustment of the side reinforcements



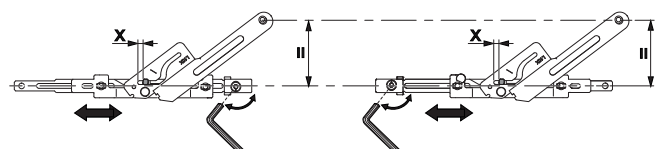
Height adjustment



Sash-frame parallelism

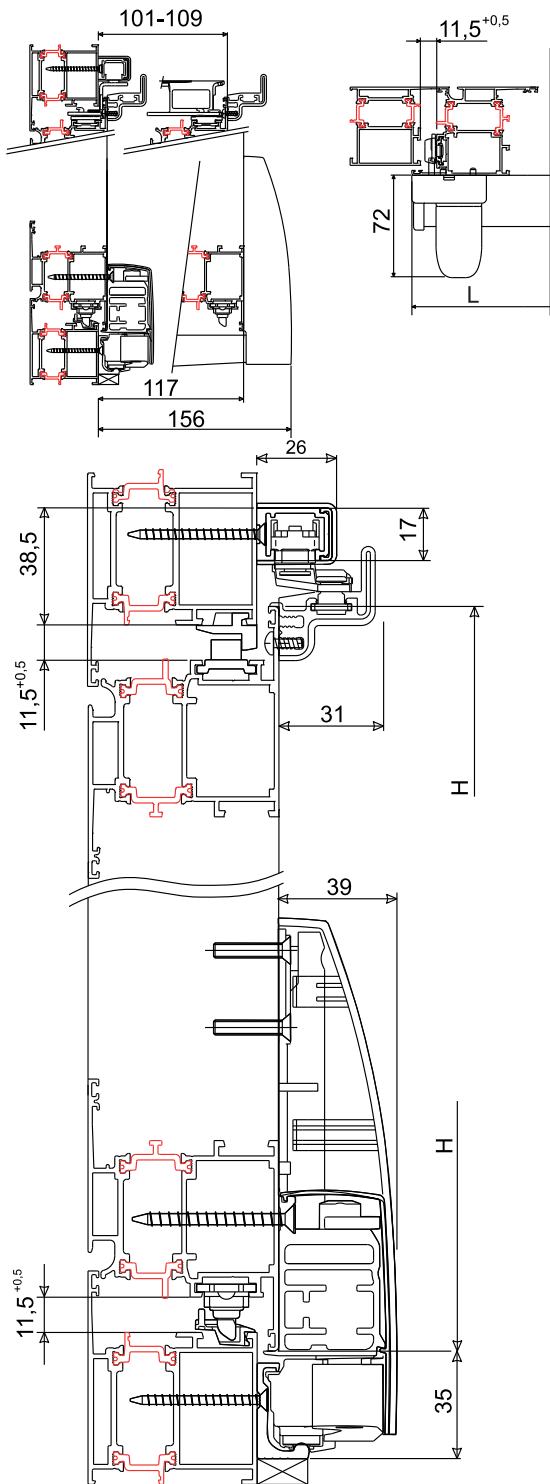


Sash-frame parallelism with arms



GS1000-HD 160 TILT AND SLIDE

Application section



GS1000-HD 160 range of use

Applications on aluminium doors and windows

Sash weight (kg) = max 160 kg

Sash width (W) = 730 to 2000 mm

Sash height (H) = 930 to 2700 mm

Minimum required dimensions

Bottom rail = 35 mm

Top rail = 38.5 mm

Bottom rail depth = 17 mm

Step ≥ 7 mm

Sash depth D:

≤ 87 mm check not required

> 87 mm do only after technical verification (return trajectory and sash centre of gravity)

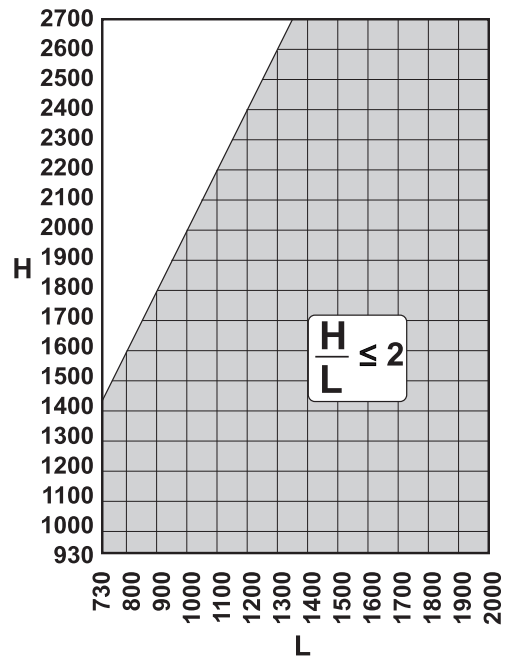
Important note

The H/L ratio ≤ 2 given in the scheme is binding and must not be exceeded.

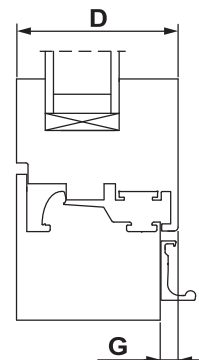
In all cases, refer to the profile manufacturer's instructions and comply with the requirements.

Take the due precautions to avoid straining the mechanism in specific sites such as hotels, schools, kindergartens, etc.

Range of use



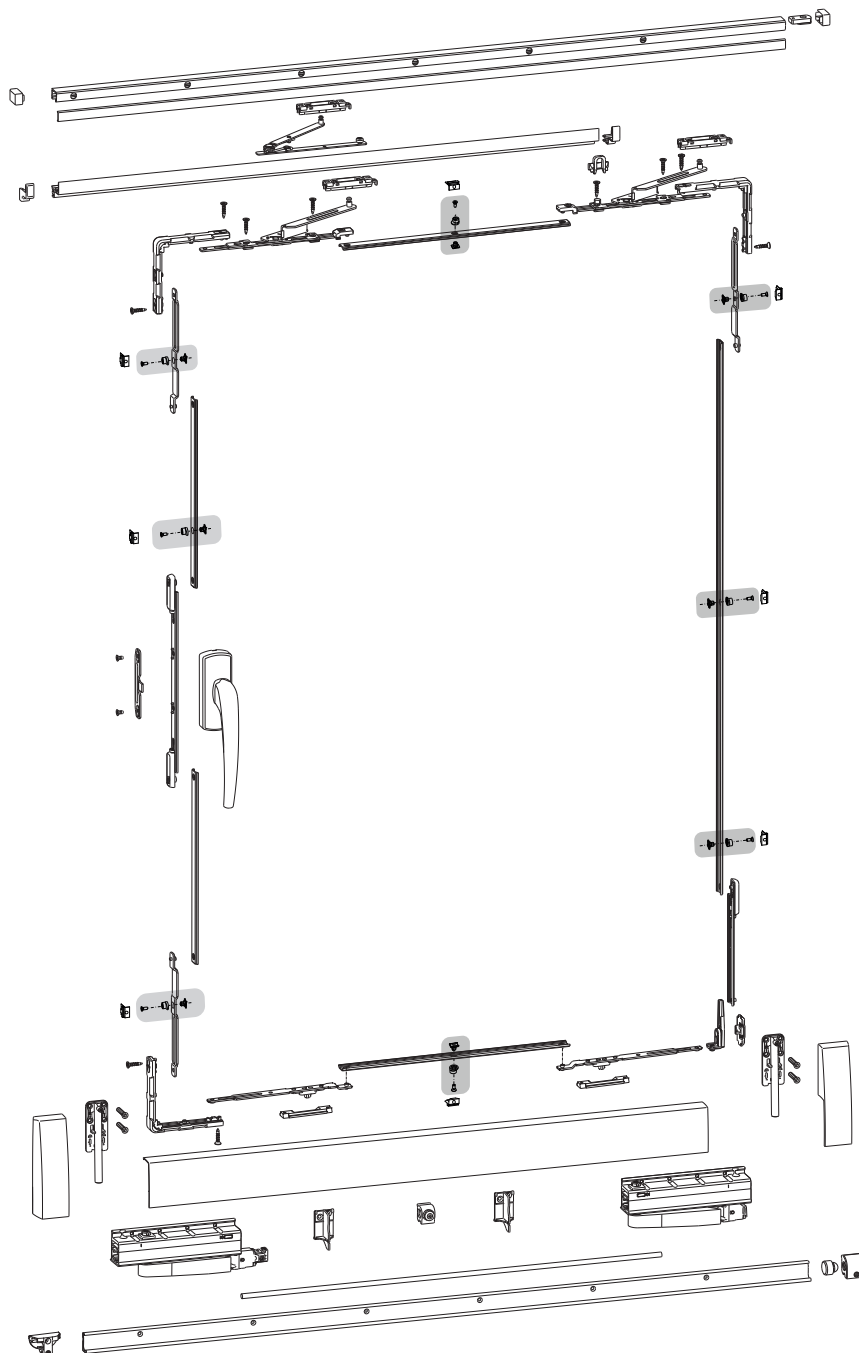
G = step
D = sash depth



A typical GS1000-HD 160 configuration consists of:

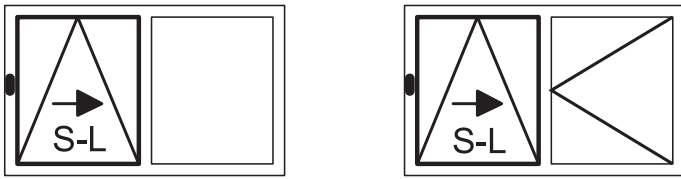
- single pulley set
- special hardware set for Euro groove profile
- profile set
- accessories set without side reinforcements
- fastening striker set
- cremone with long handle (in the version with and without a key)
- additional arm to be used in cases of heavy weights to facilitate sash opening
- incorrect movement safety device that prevents incorrect operation of the sash
- mobile control (in the case of an opening secondary sash)
- support block for pulley connection rod (for sashes of width >1480 mm)

Scheme for GS1000-HD 160 Euro groove profile

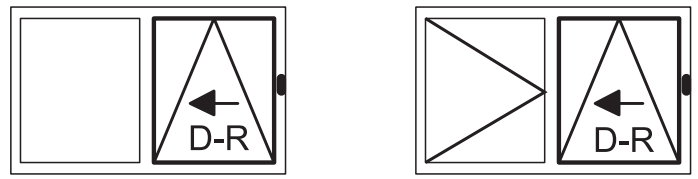


OPENING SCHEMES

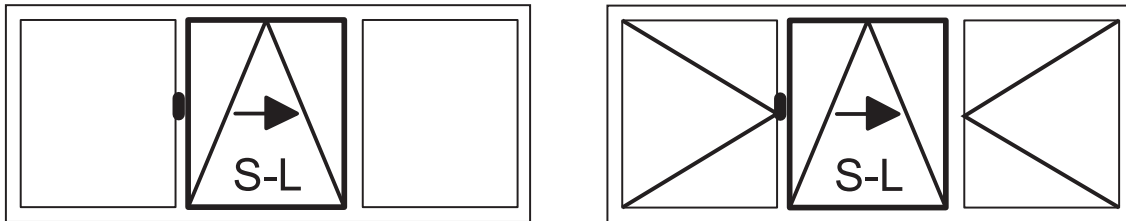
A1 - Two sashes
Left-sliding sash and fixed/opening secondary sash



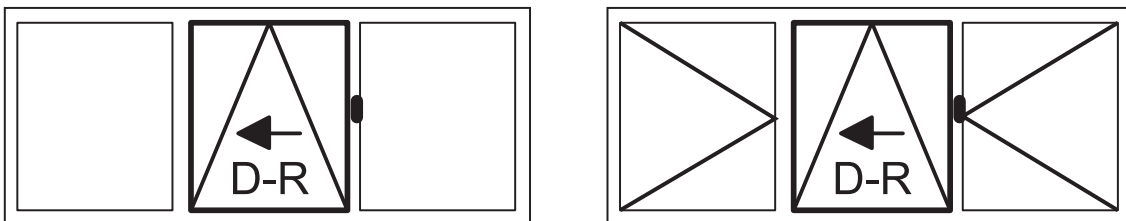
A2 - Two sashes
Right-sliding sash and fixed/opening secondary sash



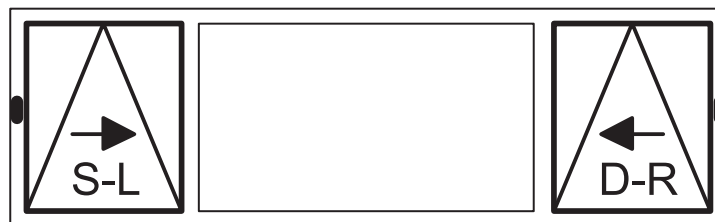
G1 - Three sashes
Left-sliding centre sash and fixed/opening secondary sashes



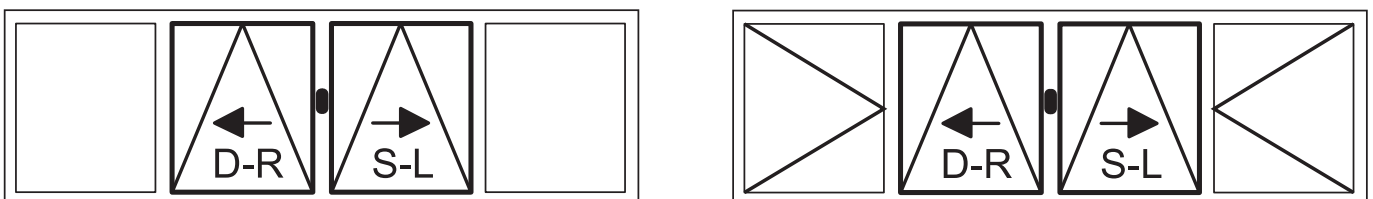
G2 - Three sashes
Right-sliding centre sash and fixed/opening secondary sashes



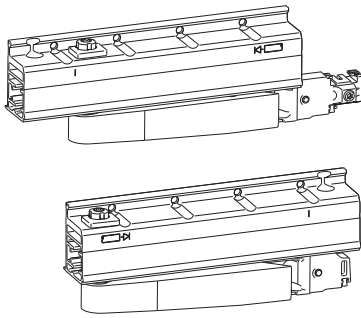
K - Three sashes
Fixed centre sash and sliding side sashes



C - Four sashes
Sliding centre sashes and fixed secondary sashes (with/without central upright)



SINGLE PULLEYS



Functions

Single pulleys for GS1000 tilt and slide system.

Online data sheet



Technical features

Single pulleys to be used for making windows with the following tilt and slide versions:

- GS1000-ML
- GS1000-HL
- GS1000-HD 100
- GS1000-HD 160

The set of single pulleys consists of a primary pulley, which controls sash return and a secondary pulley, available in right-hand and left-hand versions. The opening of the arm of the pulleys allows the sash to come out from the frame by 117 mm.

Applicable on profiles with a step greater than or equal to 7 mm.

Both pulleys are designed for use with side reinforcements that improve the seal of the profile (sold separately in the hardware set).

Using the pulleys it is possible to adjust the height of the sash (-2/+4 mm) and the parallelism between the sash and frame.

The machining on the profile for installing pulleys can be done with a specific drilling template.

Fixing to the profile is done with self-threading screws.

The pulleys are supplied with 2 supports for the bottom guard and the screws and bolts for fixing the pulleys and the set of rails.

Materials

Body and opening levers of aluminium

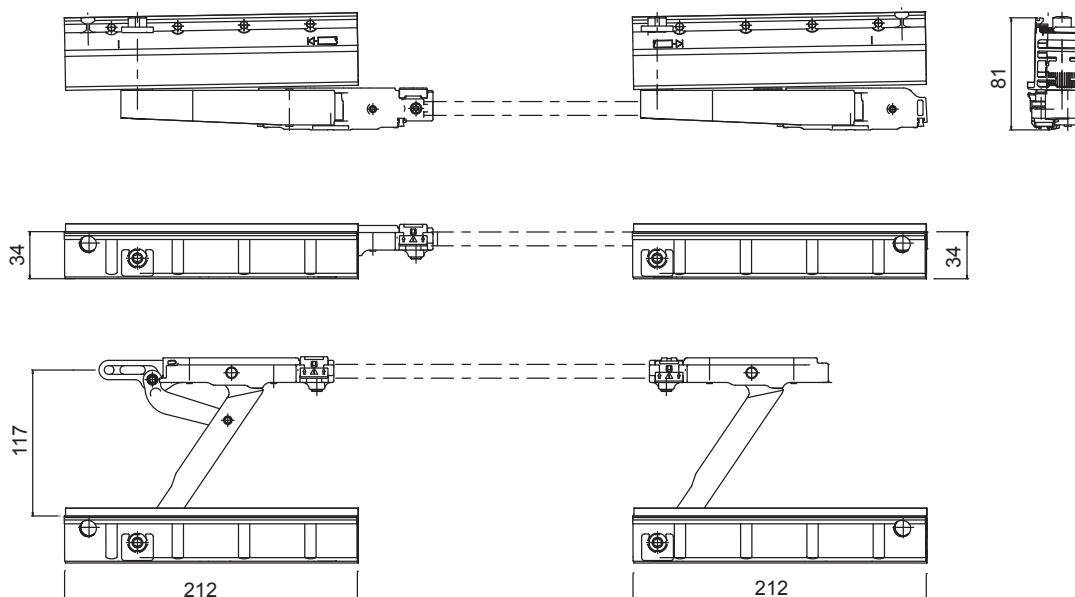
Wheel support of zamak

Polyamide wheels

Bottom guard supports of polyamide

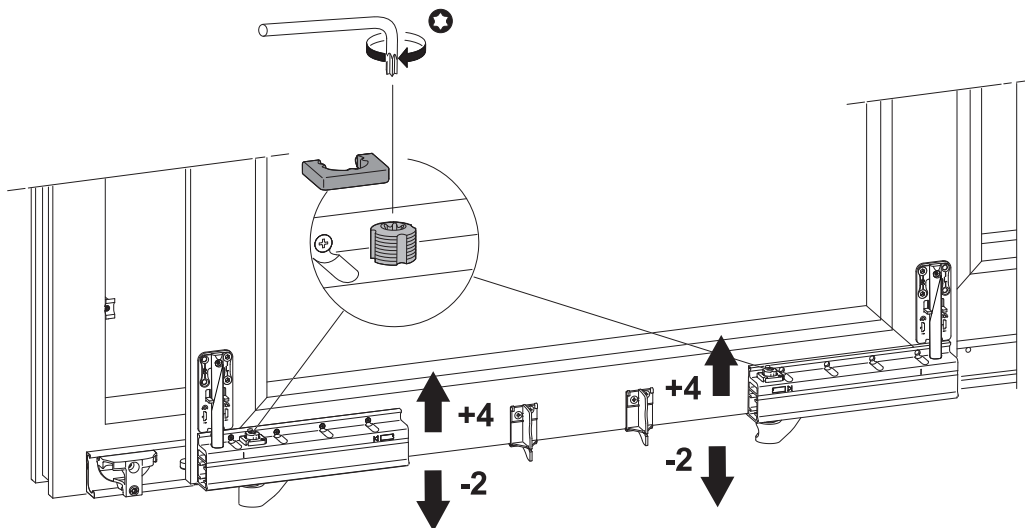
Screws and pins of stainless steel

Single pulleys



GS1000-HD 160 TILT AND SLIDE

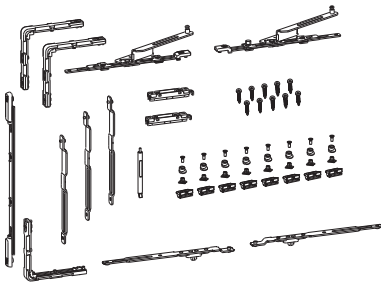
Height adjustment



Sash-frame parallelism



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09776	SET OF RH SINGLE PULLEYS	-	-	X	X	X	X	-	X				1
09777	SET OF LH SINGLE PULLEYS	-	-	X	X	X	X	-	X				1



GS1000-HD HARDWARE

Functions

Complete fastener system for making GS1000 tilt and slide type windows with forced control.
Available in version for Euro groove.

Online data sheet



Technical features

The fastening system uses the special fastening mechanism with LOGICA opening with which operating the cremone produces first tilt opening and then slide opening.

The particular shape of the arms of the special hardware allows semi-automatic return of the sash into the bottom-hung opening position and into the closing position.

The hardware set uses fixed strikers and adjustable pawls (± 1.2 mm) to optimize the perimeter pressure of the sash.

The hardware components are pre-assembled and are attached to the profile with Torx screws.

It is possible to add up to two additional locking points, depending on the size of the sash.

The hardware set consists of:

- no. 3 corner drives to transmit the motion between the uprights and cross-beams, to be secured to the profile with Torx screws
- no. 1 cremone drive rod
- no. 2 opening arms + sliders
- no. 2 spring latches (matching the set of strikers sold separately)
- no. 3 fastening mechanism rods
- no. 8 locking points (adjustable pawls + fixed strikers)
- no. 1 sticker for correct system operation
- no. 1 arm and pulley release device

Materials

Drive rod of aluminium and zamak

Zamak drives

Opening arms and spring latches made of steel

Steel fastening rods

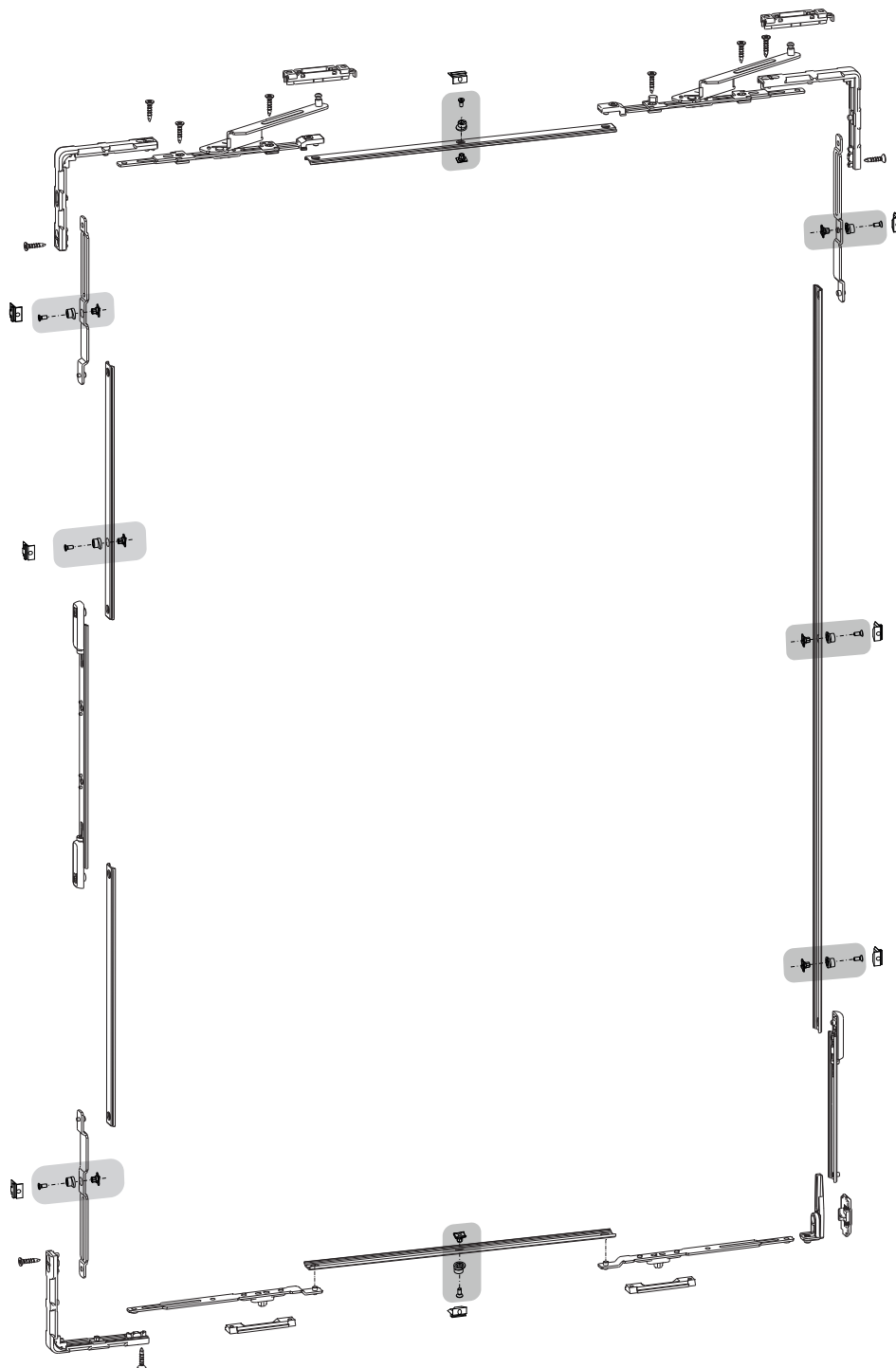
Sliders of polyamide and steel

Strikers and pawls of zamak

Steel screws

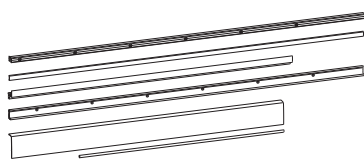
GS1000-HD 160 TILT AND SLIDE

GS1000 HD hardware set



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09781	GS1000-HD LH HARDWARE SET	-	C001-C002- C003-C005	-	-	X	X	X	X				1
09782	GS1000-HD RH HARDWARE SET	-	C001-C002- C003-C005	-	-	X	X	X	X				1

PROFILES SET



Functions

Profiles with the function of supporting and guiding in the phase of operating the sliding sash and with the function of a stylish cover for the GS1000 tilt and slide system.

Online data sheet



Technical features

Each set of profiles consists of:

- top guards and track
- bottom guards and track
- screw protection plug
- pulley connection rod

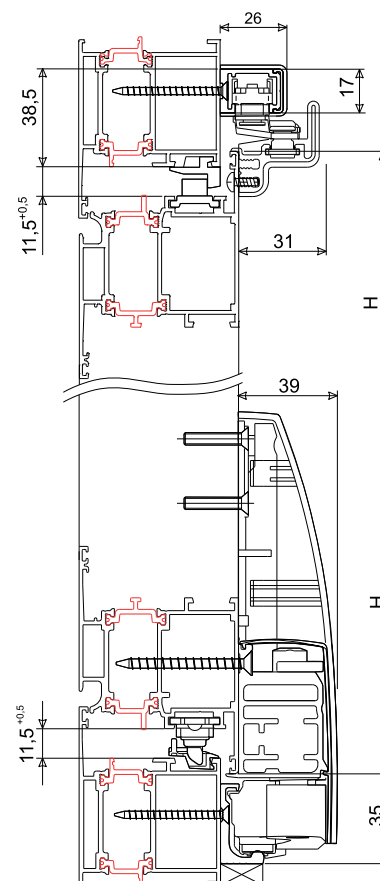
The profiles set is available in various sizes, depending on the width of the sash to be constructed. The bottom rail always has an anodised, silver or black finish. The fixing of the profiles is by means of self-threading screws (supplied with the set of pulleys). There are specific templates for the installation of the various profiles.

Materials

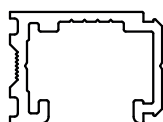
- Rails and covers made of extruded aluminium
- PVC screw cover rod (*)
- Steel connection rod

(*) Available in the basic finishes of white, black and grey, combined with the various profile set finishes.

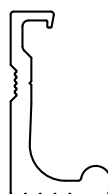
Application section



09768
(single profile)



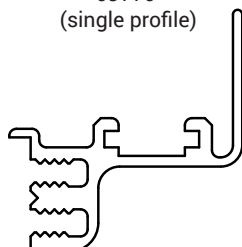
09769
(single profile)



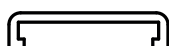
09771
(single profile)



09770
(single profile)



09772
(single profile)



09773
(single profile)



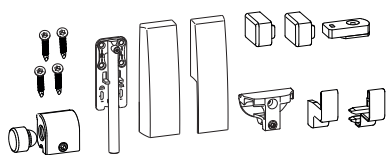
GS1000-HD 160 TILT AND SLIDE

Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09761	630-880 PROFILES SET	630÷880	-	X	X	X	X	-	X	X	X		1
09762	881-1080 PROFILES SET	881÷1080	-	X	X	X	X	-	X	X	X		1
09763	1081-1280 PROFILES SET	1081÷1280	-	X	X	X	X	X	X	X	X		1
09764	1281-1480 PROFILES SET	1281÷1480	-	X	X	X	X	X	X	X	X		1
09765	1481-1680 PROFILES SET	1481÷1680	-	-	X	-	X	X	X	X	X		1
09766	1681-2000 PROFILES SET	1681÷2000	-	-	-	-	X	X	X	X	X		1

SINGLE PROFILES

Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09768	TOP RAIL L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09769	BOTTOM RAIL L=6000 mm	-	-	X	X	X	X	X	X	X			1
09770	TOP GUARD L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09771	BOTTOM GUARD L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09772	PVC SCREW COVER L=6000 mm	-	-	X	X	X	X	X	X				1
09773	PULLEY CONNECTION ROD L=4000 mm	-	-	X	X	X	X	X	X				1

ACCESSORIES SET WITH SIDE REINFORCEMENTS



Functions

Components for covering and completing the GS1000 tilt and slide system.

Online data sheet



Technical features

Accessories set with side reinforcements consists of:

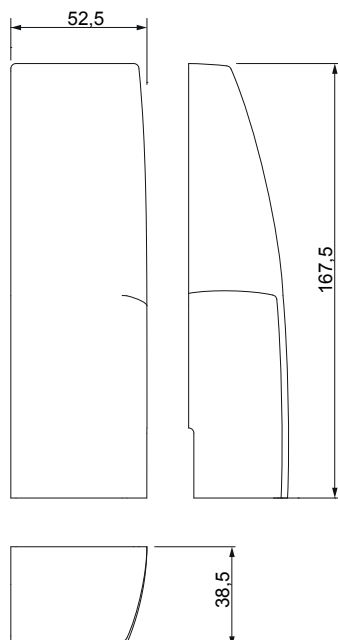
- side reinforcements for pulleys
- machined side protective caps that can be painted as needed
- protective caps for guards
- top and bottom stops
- command striker

To be combined with the GS1000-HL, GS1000-HD 160 and GS1000-HD 200 versions for sashes weighing over 100 kg.

Materials

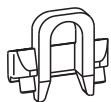
- Paintable plastic plugs
- Steel reinforcements
- Command striker of zamak
- Bottom limit stop striker of zamak and rubber
- Top limit stop striker of steel and rubber
- Stainless steel screws and bolts

Plugs art. 09775



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09775	ACCESSORIES SET WITH SIDE REINFORCEMENTS	-	-	-	X	-	X	X	X		X		1

SET OF STRIKERS



Functions

Lock strikers for the spring latches of the automatic catch system of the GS1000-HD tilt and slide system.

Online data sheet



Technical features

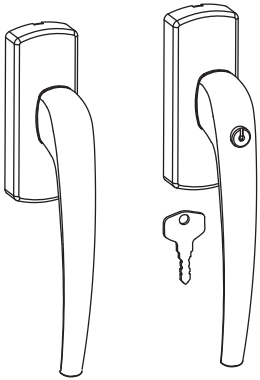
The set of strikers is available in four versions depending on the frame channel and consists of:

- no. 2 strikers for spring latches to secure to the frame channel with contrast grubscrews
- no. 1 sash centring striker

Materials

Automatic catch strikers of zamak
Sash centring striker of polyamide

Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09785	SET OF STRIKERS E.G. 10-14	-	C003	-	-	X	X	X	X				1
09786	SET OF STRIKERS E.G. 12-15	-	C005	-	-	X	X	X	X				1
09787	SET OF STRIKERS E.G. 13.5-16.8	-	C002	-	-	X	X	X	X				1
09788	SET OF STRIKERS E.G. 14-18	-	C001-C004	-	-	X	X	X	X				1



CREMONES FOR GS1000-HD

Functions

Right and left cremone versions, with and without key, specific for the GS1000-HD tilt and slide system with forced control.

Online data sheet



Technical features

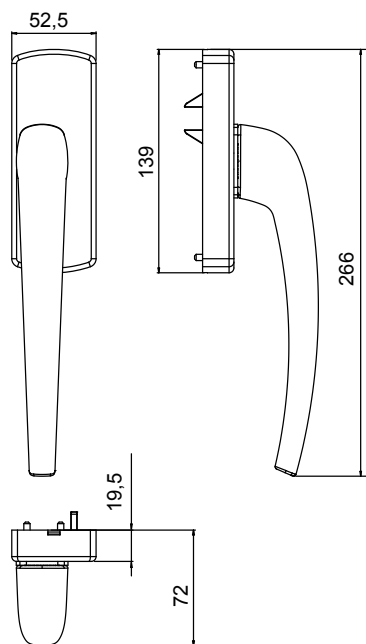
Long-handled cremone with specially designed internal mechanism to make it easier to operate sashes weighing up to 200 kg.

The special long-handled cremone consists of:

- cremone
- cover
- component connecting to the drive rod

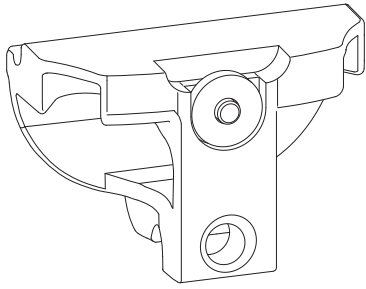
Materials

Handle in die-cast aluminium
Case and rack made of zamak
Aluminium cover
Steel screws and bolts



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09736N	GS1000-HD RH CREMONE	-	-	-	-	X	X	X	X	X	X		1
09737N	GS1000-HD LH CREMONE	-	-	-	-	X	X	X	X	X	X		1
09738N	GS1000-HD RH CREMONE WITH KEY	-	-	-	-	X	X	X		X	X		1
09739N	GS1000-HD LH CREMONE WITH KEY	-	-	-	-	X	X	X		X	X		1

MOBILE STRIKER



Functions

Component for positioning the mobile sash for GS1000 tilt and slide systems.

Online data sheet



Technical features

The mobile striker enables run-by of the sliding sash, for opening the secondary sash.

In configurations with an opening secondary sash, this striker replaces the fixed command striker supplied with the hardware set.

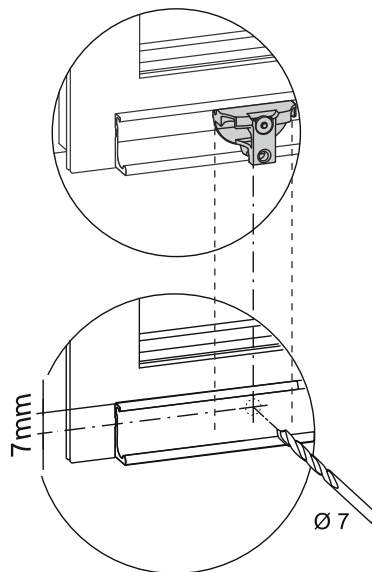
The pin with a spring keeps the striker in position and allows it to move in order to allow opening the secondary sash.

Installation can also be performed with a specific template.

Materials

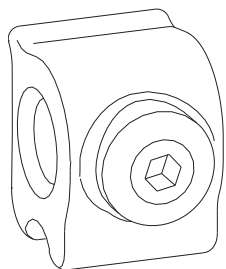
Zamak striker

Spring and pin of steel



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0979001	MOBILE STRIKER	-	-	X	X	X	X	X	X				1

SUPPORT BLOCK



Functions

Component for supporting the pulley connection rod.
For all GS1000 tilt and slide system versions.

Online data sheet

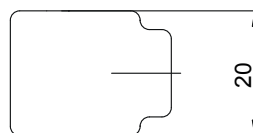
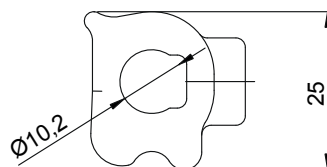


Technical features

The support block is used for sash widths > 1480 mm in order to make the connection rod between the two pulleys more stable.

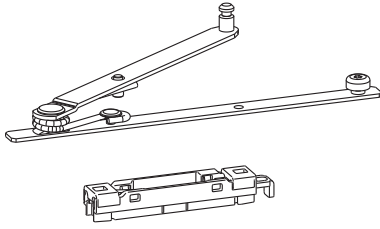
Materials

Nylon block
Steel mounting grubscrew



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09789	SUPPORT BLOCK	-	-	-	X	X	X	X	X				1

GS1000-HD ADDITIONAL ARM



Functions

Additional arm for GS1000-HD tilt-and-slide system.

[Online data sheet](#)



Technical features

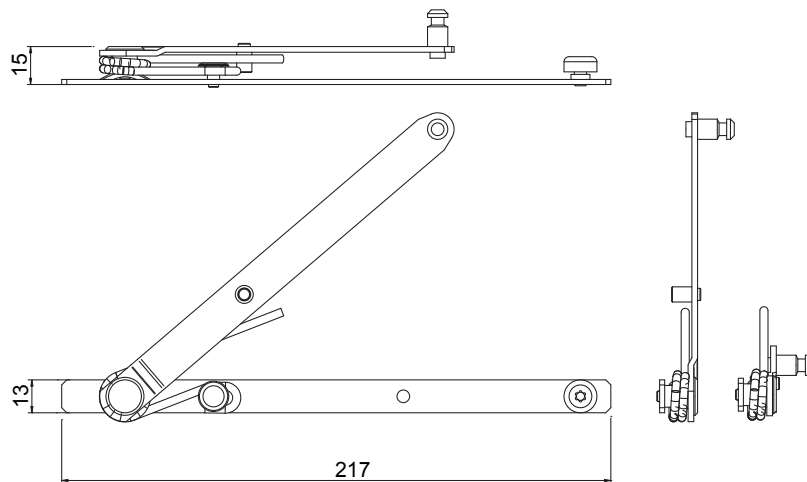
The additional arm, thanks to the special spring, facilitates opening the sash in the case of heavy weights.

The element must be installed between the two arms of the GS1000-HD hardware set for sashes weighing more than 160 kg or weighing more than 100 kg and sash profile width > 75 mm.

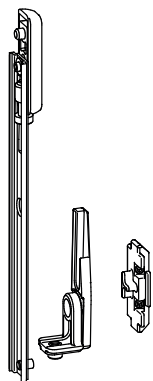
Materials

Steel arm

Sliders of steel and polyamide



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09759	ADDITIONAL ARM	-	-	-	-	-	X	X	X				1



INCORRECT MOVEMENT SAFETY DEVICE

Functions

Incorrect movement safety device for the GS1000-HD version of the GS1000 tilt and slide system with forced control, which prevents damage to the hardware in the event of incorrect operation.

Online data sheet



Technical features

The incorrect movement safety device enables operating the special long-handled cremone only when the sash is attached to the frame.

The device also prevents the sash from lifting.

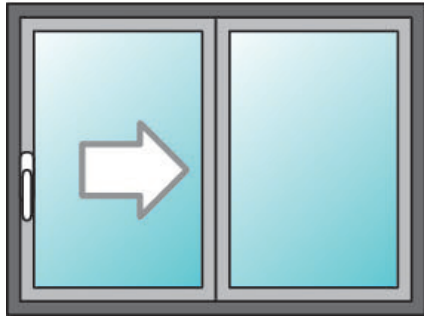
Available in two versions, opening to the left or right, depending on the frame channel.

Materials

Incorrect movement safety device made of zamak
Stainless steel grub screws

Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09791	GS1000-HD 14/18 LH INCORRECT MOVEMENT SAFETY DEVICE SET	-	C001-C002-C004-C005	-	-	X	X	X	X				1
09792	GS1000-HD 14/18 RH INCORRECT MOVEMENT SAFETY DEVICE SET	-	C001-C002-C004-C005	-	-	X	X	X	X				1
09793	GS1000-HD CE LH INCORRECT MOVEMENT SAFETY DEVICE SET	-	C003	-	-	X	X	X	X				1
09794	GS1000-HD CE RH INCORRECT MOVEMENT SAFETY DEVICE SET	-	C003	-	-	X	X	X	X				1

GS1000-HD200



GS1000-HD 200 TILT AND SLIDE

Functions

Tilt and slide system with semi-automatic forced control operation that allows closing the sash with just one hand, by operating the long-handled cremone.

For applications with sashes weighing up to 200 kg. Available for Euro groove profiles.

Technical Features

GS1000-HD 200 is ideal for sashes of up to 200 kg in weight, for easily operating the sliding sash.

Uses double pulleys with machined side plugs and reinforcements.

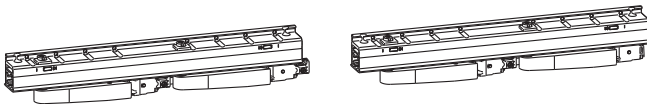
GS1000 HD-200 is available in the configuration for the Euro groove profile and uses special fastening mechanisms specifically designed for aluminium.

All the hardware components are equipped with Torx fixing screws.

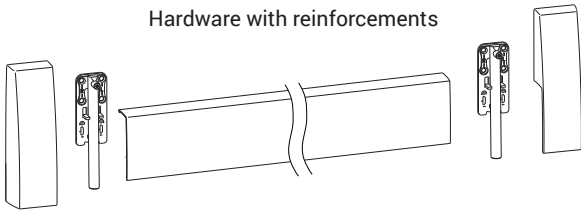
The hardware set uses fixed lock strikers and compression adjustable lock pawls (± 1.2 mm), with which you can optimize the perimeter pressure of the sash.

It is possible to add up to two additional locking points on the top and bottom cross-beams, depending on the size of the sash, to improve the air/water seal.

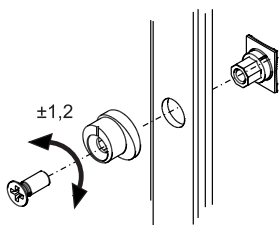
Double pulleys



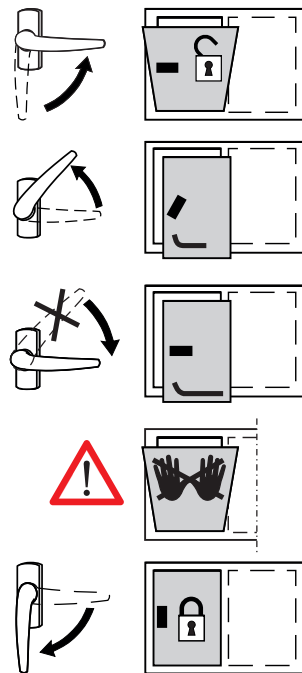
Hardware with reinforcements



Adjustable pawl



Operating scheme



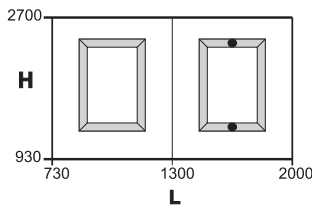
Automatic catch

GS1000-HD 200 features the automatic catch system installed at the bottom of the sash.

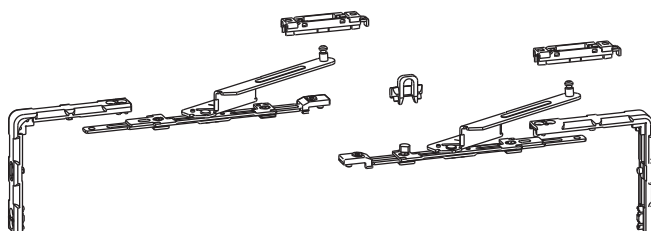
This device facilitates closing the sash that, when put in the closed position, automatically locks in the tilt position. Turning the cremone from 135° (sliding position) to 90° (tilt position) and putting the sash into the closed position engages the sash in the tilt position.

To close the sash, simply rotate the cremone to 0° (closed). The forced control device will close the sash automatically.

Additional locking points



Fastening mechanisms

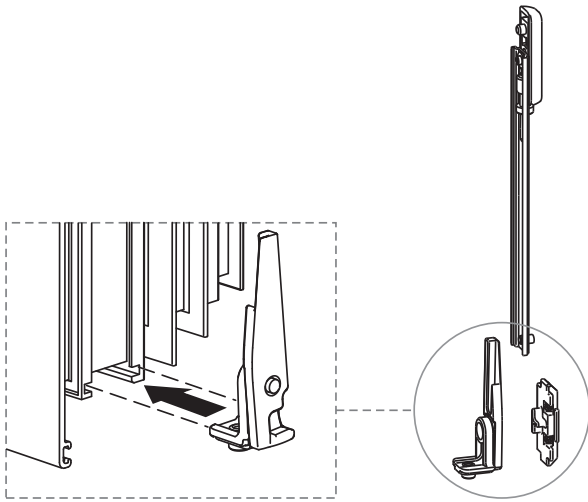


"LOGICA" opening mechanism

GS1000-HD 200 uses the LOGICA opening system whereby operating the cremone produces first tilt opening and then slide opening. Taking the cremone to 90° operates tilt opening and turning it to 135° operates slide opening.

To engage the automatic catch, the cremone must be turned back to 90° and the sash closed against the frame.

Incorrect movement safety device



Incorrect movement safety device

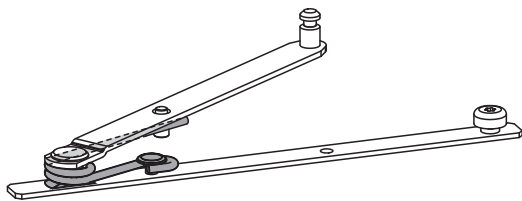
The new incorrect movement safety device for the forced control version allows operating the cremone only when the sash is hooked onto the frame, protecting the hardware against damage in the event of improper use.

The device also prevents the sash from lifting. Ideal for installation in conditions of high frequency opening and with occasional users (hotels, public buildings). It cannot be used in the case of an opening secondary sash. Sold separately.

Additional arm

Using the additional arm, thanks to the special spring, facilitates opening the sash in the case of heavy weights. The arm is to be installed for sashes weighing more than 160 kg or weighing more than 100 kg and sash profile width > 75 mm. Sold separately.

Additional arm



Stay arm catch

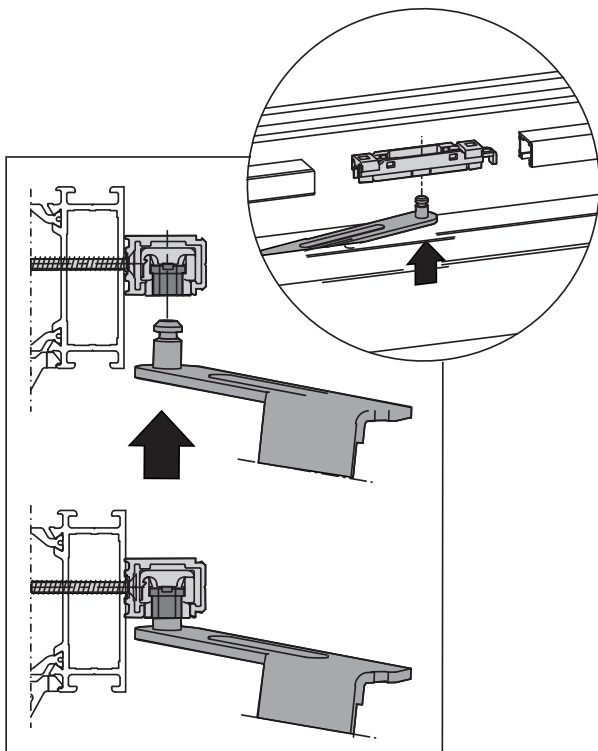
The system for coupling the opening arms and the sliders guarantees perfect coupling between the sash and the frame. The correct positioning of the steel insert ensures that the arms and sliders are linked together.

Correct positioning of the sash

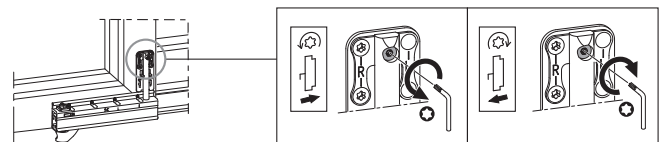
To improve the overall alignment of the sash with the frame, there are several adjustments

- height adjustment of the sash via the pulleys (-2/+4 mm)
- side adjustment via the command striker
- adjustment of the side reinforcements to improve the sash out and return phase
- adjustment of the sash-frame parallelism with pulleys and arms

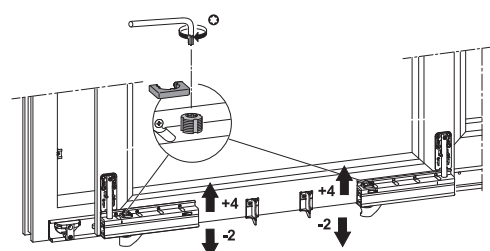
Stay arm catch



Adjustment of the side reinforcements



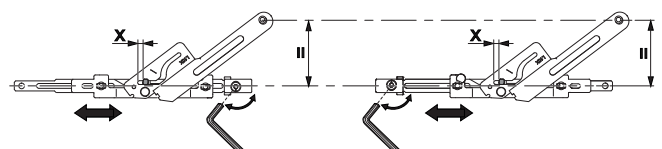
Height adjustment



Sash-frame parallelism

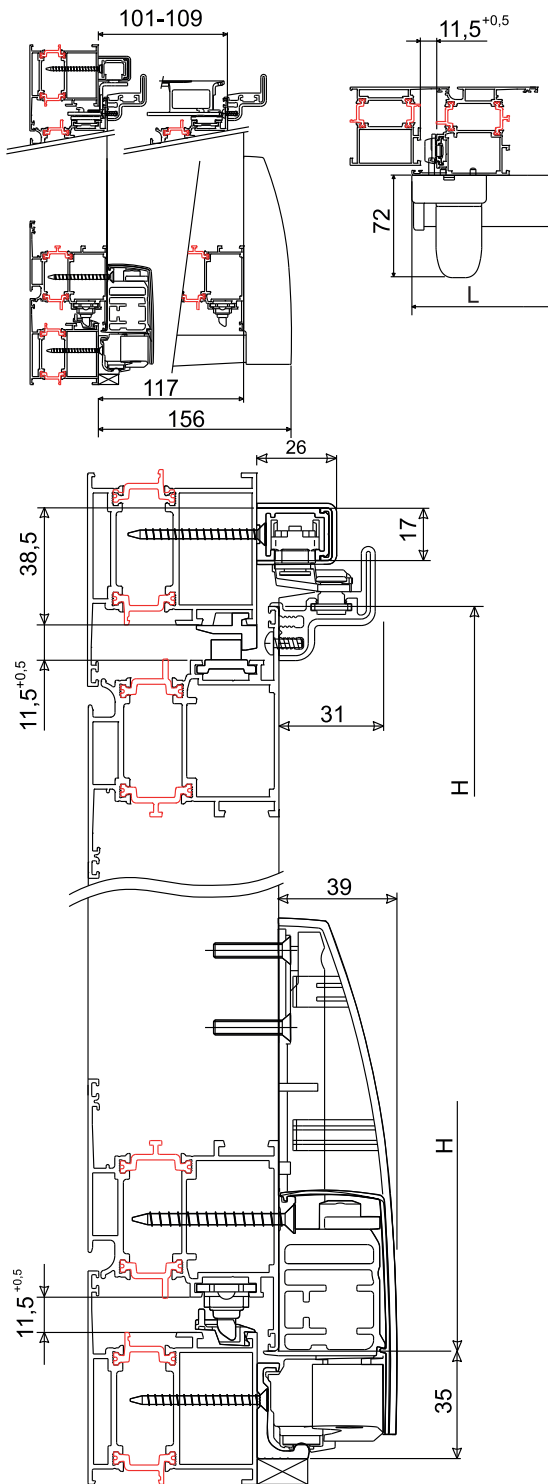


Sash-frame parallelism with arms



GS1000-HD 200 TILT AND SLIDE

Application section



GS1000-HD 200 range of use

Applications on aluminium doors and windows

Sash weight (kg) = max 200 kg

Sash width (W) = 1080 to 2000 mm

Sash height (H) = 930 to 2700 mm

Minimum required dimensions

Bottom rail = 35 mm

Top rail = 38.5 mm

Bottom rail depth = 17 mm

Step \geq 7 mm

Sash depth D:

\leq 87 mm check not required

$>$ 87 mm do only after technical verification (return trajectory and sash centre of gravity)

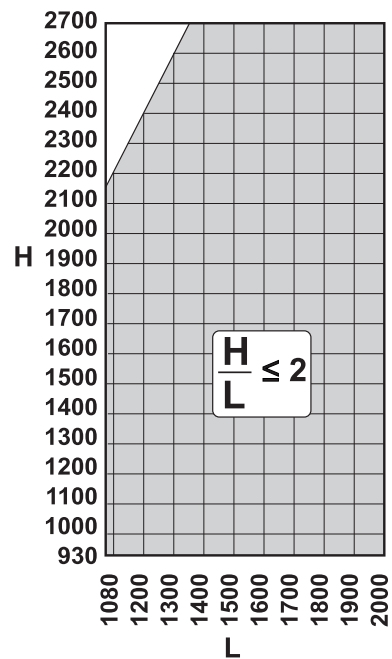
Important note

The H/L ratio \leq 2 given in the scheme is binding and must not be exceeded.

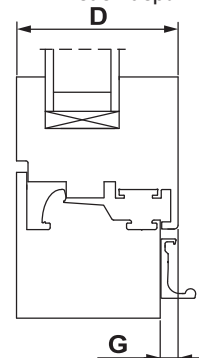
In all cases, refer to the profile manufacturer's instructions and comply with the requirements.

Take the due precautions to avoid straining the mechanism in specific sites such as hotels, schools, kindergartens, etc.

Range of use



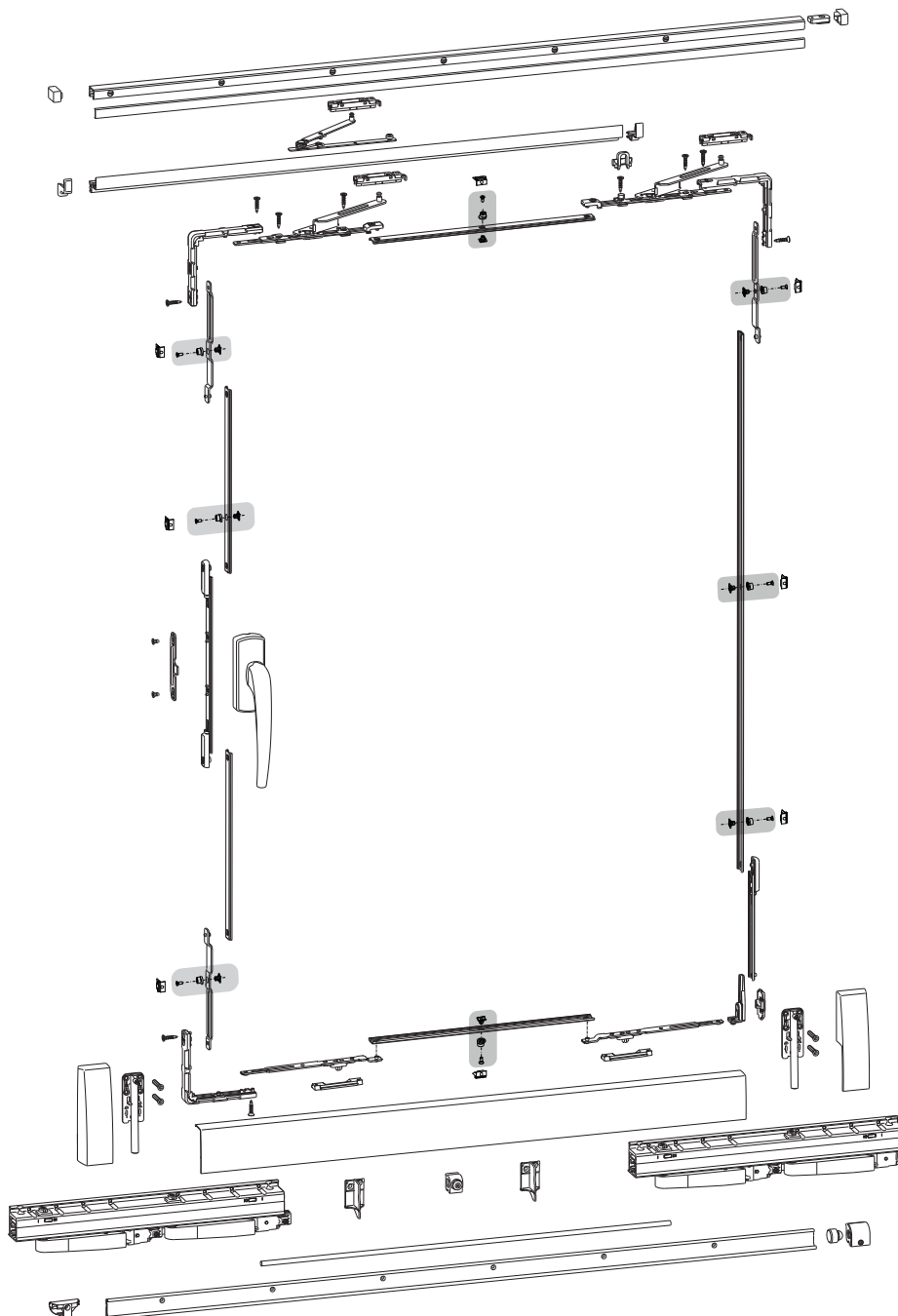
G = step
D = sash depth



A typical GS1000-HD 200 configuration consists of:

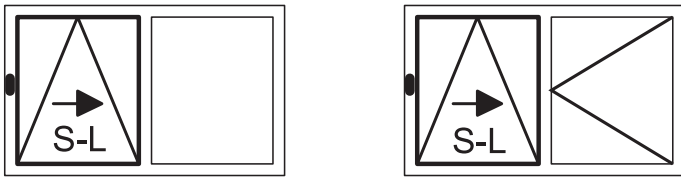
- double pulley set
- special hardware set for Euro groove profile
- profile set
- accessories set without side reinforcements
- fastening striker set
- cremone with long handle (in the version with and without a key)
- additional arm to be used in cases of heavy weights to facilitate sash opening
- incorrect movement safety device that prevents incorrect operation of the sash
- mobile control (in the case of an opening secondary sash)
- support block for pulley connection rod (for sashes of width >1480 mm)

Scheme for GS1000-HD 200 Euro groove profile

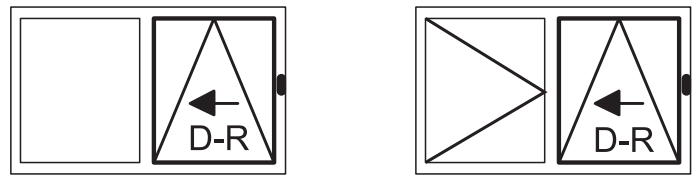


OPENING SCHEMES

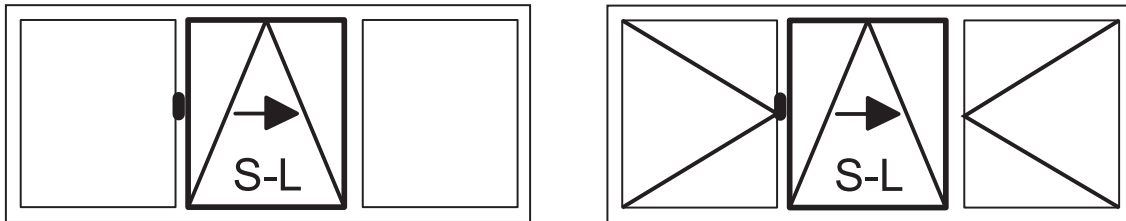
A1 - Two sashes
Left-sliding sash and fixed/opening secondary sash



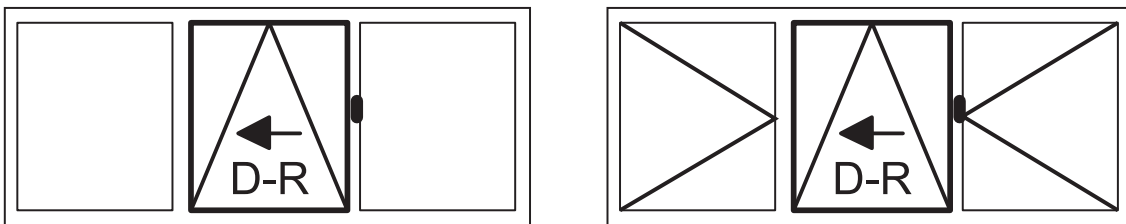
A2 - Two sashes
Right-sliding sash and fixed/opening secondary sash



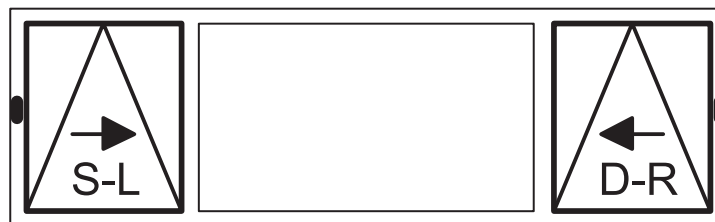
G1 - Three sashes
Left-sliding centre sash and fixed/opening secondary sashes



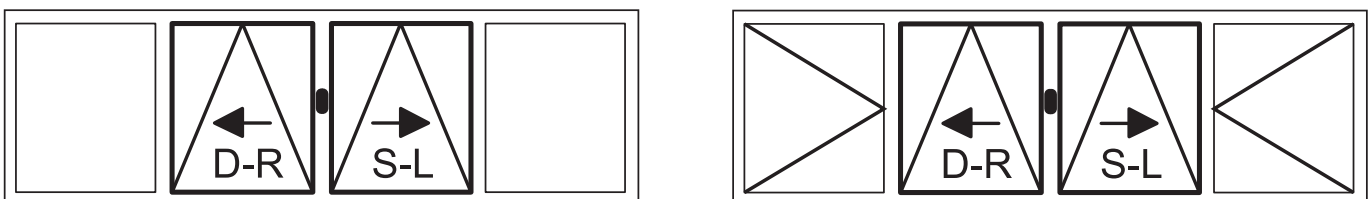
G2 - Three sashes
Right-sliding centre sash and fixed/opening secondary sashes



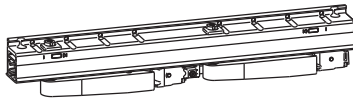
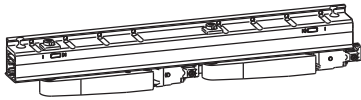
K - Three sashes
Fixed centre sash and sliding side sashes



C - Four sashes
Sliding centre sashes and fixed secondary sashes (with/without central upright)



DOUBLE PULLEYS



Functions

Double pulleys for GS1000 tilt and slide system.

[Online data sheet](#)



Technical features

Double pulleys to be used for making tilt and slide windows with version GS1000 HD-200.

The set of double pulleys consists of a primary pulley, which controls sash return and a secondary pulley.

Available in right- and left-hand versions.

The opening of the arm of the pulleys allows the sash to come out from the frame by 117 mm.

Applicable on profiles with a step greater than or equal to 7 mm.

Both pulleys are designed for use with side reinforcements that improve the seal of the profile (sold separately in the hardware set).

Using the pulleys it is possible to adjust the height of the sash (-2/+4 mm) and the parallelism between the sash and frame.

The machining on the profile for installing pulleys can be done with a specific drilling template.

Fixing to the profile is done with self-threading screws.

The pulleys are supplied with 2 supports for the bottom guard and the screws and bolts for fixing the pulleys and the set of rails.

Materials

Body and opening levers of aluminium

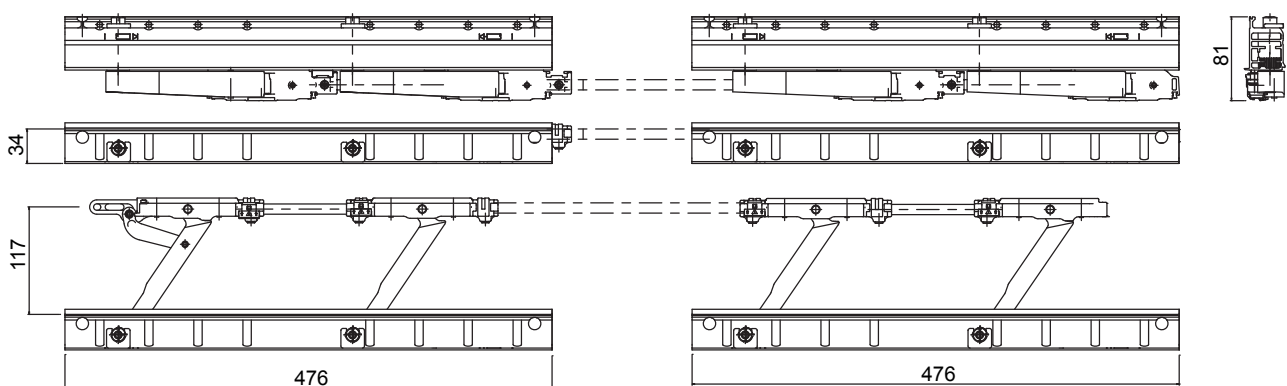
Wheel support of zamak

Polyamide wheels

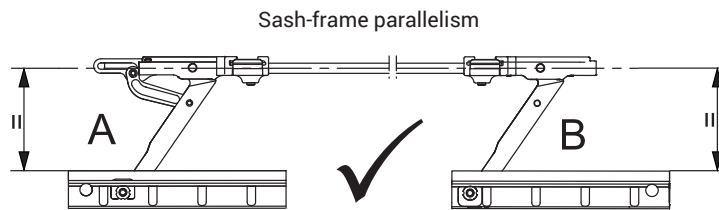
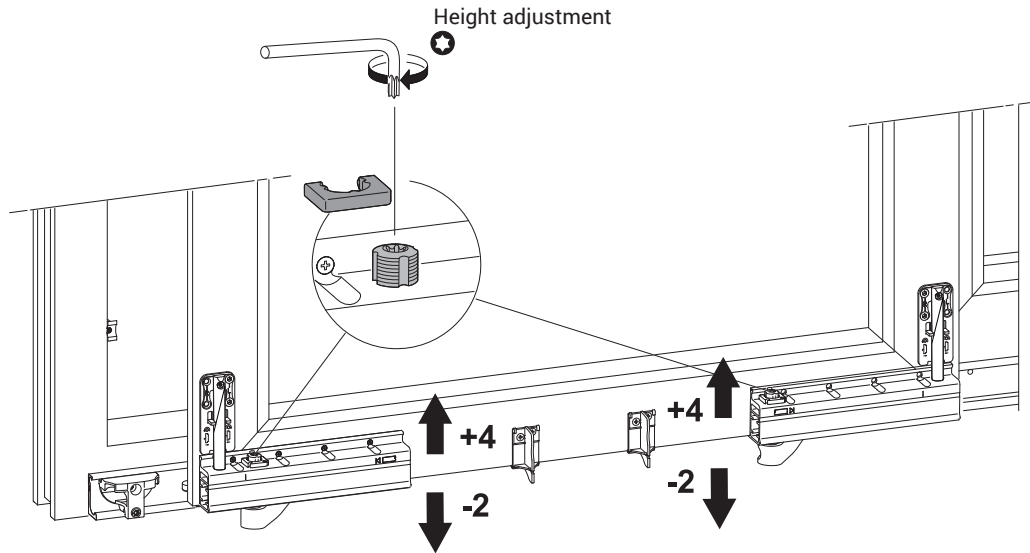
Bottom guard supports of polyamide

Screws and pins of stainless steel

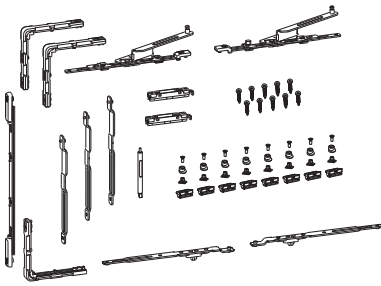
Double pulleys



GS1000-HD 200 TILT AND SLIDE



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09778	SET OF RH DOUBLE PULLEYS	-	-	-	-	-	-	X	X				1
09779	SET OF LH DOUBLE PULLEYS	-	-	-	-	-	-	X	X				1



GS1000-HD HARDWARE

Functions

Complete fastener system for making GS1000 tilt and slide type windows with forced control.
Available in version for Euro groove.

Online data sheet



Technical features

The fastening system uses the special fastening mechanism with LOGICA opening with which operating the cremone produces first tilt opening and then slide opening.

The particular shape of the arms of the special hardware allows semi-automatic return of the sash into the bottom-hung opening position and into the closing position.

The hardware set uses fixed strikers and adjustable pawls (± 1.2 mm) to optimize the perimeter pressure of the sash.

The hardware components are pre-assembled and are attached to the profile with Torx screws.

It is possible to add up to two additional locking points, depending on the size of the sash.

The hardware set consists of:

- no. 3 corner drives to transmit the motion between the uprights and cross-beams, to be secured to the profile with Torx screws
- no. 1 cremone drive rod
- no. 2 opening arms + sliders
- no. 2 spring latches (matching the set of strikers sold separately)
- no. 3 fastening mechanism rods
- no. 8 locking points (adjustable pawls + fixed strikers)
- no. 1 sticker for correct system operation
- no. 1 arm and pulley release device

Materials

Drive rod of aluminium and zamak

Zamak drives

Opening arms and spring latches made of steel

Steel fastening rods

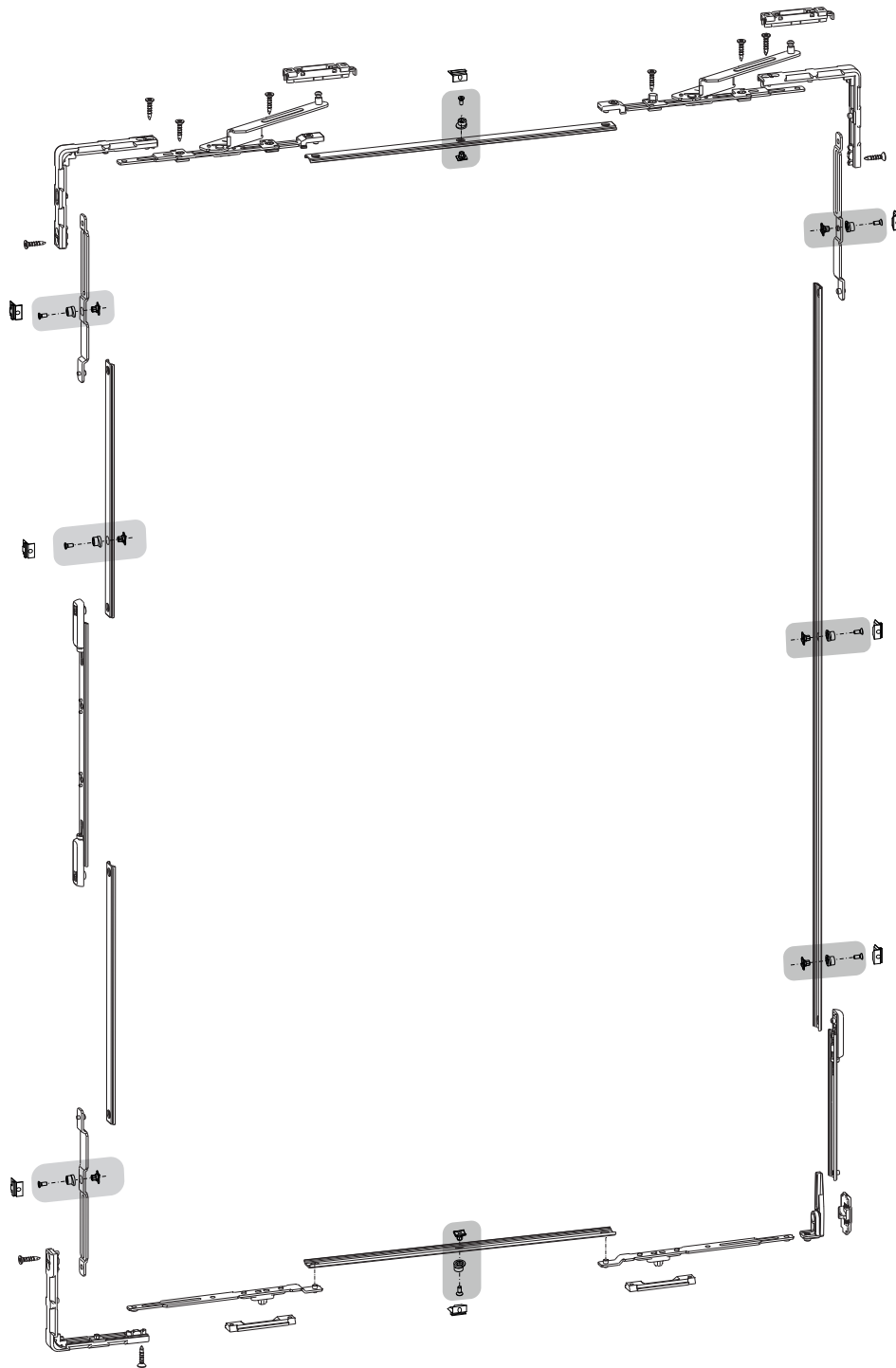
Sliders of polyamide and steel

Strikers and pawls of zamak

Steel screws

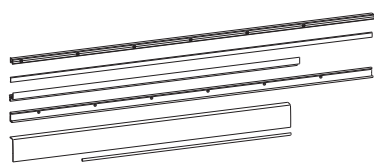
GS1000-HD 200 TILT AND SLIDE

GS1000 HD hardware set



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09781	GS1000-HD LH HARDWARE SET	-	C001-C002- C003-C005	-	-	X	X	X	X				1
09782	GS1000-HD RH HARDWARE SET	-	C001-C002- C003-C005	-	-	X	X	X	X				1

PROFILES SET



Functions

Profiles with the function of supporting and guiding in the phase of operating the sliding sash and with the function of a stylish cover for the GS1000 tilt and slide system.

Online data sheet



Technical features

Each set of profiles consists of:

- top guards and track
- bottom guards and track
- screw protection plug
- pulley connection rod

The profiles set is available in various sizes, depending on the width of the sash to be constructed.

The bottom rail always has an anodised, silver or black finish.

The fixing of the profiles is by means of self-threading screws (supplied with the set of pulleys).

There are specific templates for the installation of the various profiles.

Materials

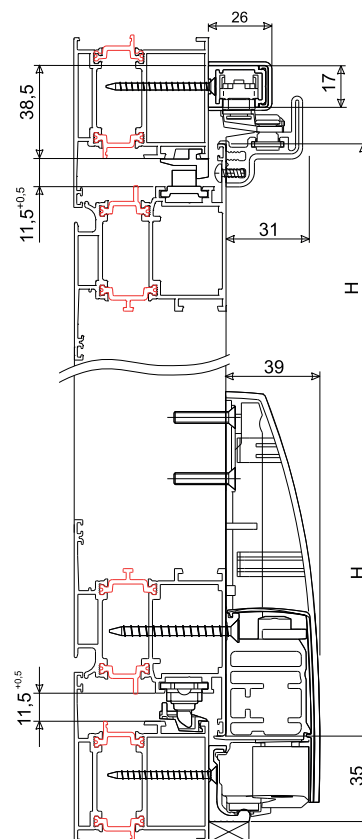
Rails and covers made of extruded aluminium

PVC screw cover rod (*)

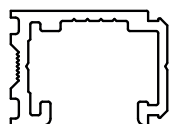
Steel connection rod

(*) Available in the basic finishes of white, black and grey, combined with the various profile set finishes.

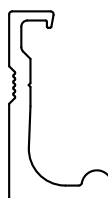
Application section



09768
(single profile)



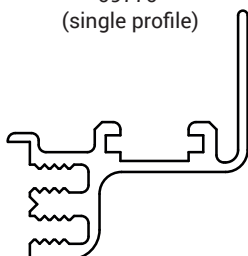
09769
(single profile)



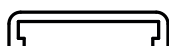
09771
(single profile)



09770
(single profile)



09772
(single profile)



09773
(single profile)



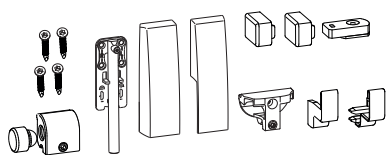
GS1000-HD 200 TILT AND SLIDE

Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09763	1081-1280 PROFILES SET	1081÷1280	-	X	X	X	X	X	X	X	X		1
09764	1281-1480 PROFILES SET	1281÷1480	-	X	X	X	X	X	X	X	X		1
09765	1481-1680 PROFILES SET	1481÷1680	-	-	X	-	X	X	X	X	X		1
09766	1681-2000 PROFILES SET	1681÷2000	-	-	-	-	X	X	X	X	X		1

SINGLE PROFILES

Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09768	TOP RAIL L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09769	BOTTOM RAIL L=6000 mm	-	-	X	X	X	X	X	X	X			1
09770	TOP GUARD L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09771	BOTTOM GUARD L=6000 mm	-	-	X	X	X	X	X	X	X	X		1
09772	PVC SCREW COVER L=6000 mm	-	-	X	X	X	X	X	X				1
09773	PULLEY CONNECTION ROD L=4000 mm	-	-	X	X	X	X	X	X				1

ACCESSORIES SET WITH SIDE REINFORCEMENTS



Functions

Components for covering and completing the GS1000 tilt and slide system.

Online data sheet



Technical features

Accessories set with side reinforcements consists of:

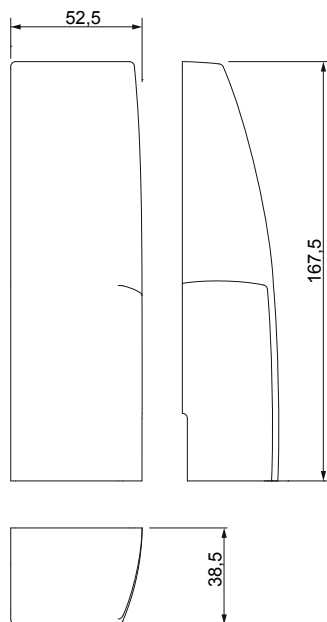
- side reinforcements for pulleys
- machined side protective caps that can be painted as needed
- protective caps for guards
- top and bottom stops
- command striker

To be combined with the GS1000-HL, GS1000-HD 160 and GS1000-HD 200 versions for sashes weighing over 100 kg.

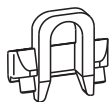
Materials

- Paintable plastic plugs
- Steel reinforcements
- Command striker of zamak
- Bottom limit stop striker of zamak and rubber
- Top limit stop striker of steel and rubber
- Stainless steel screws and bolts

Plugs art. 09775



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09775	ACCESSORIES SET WITH SIDE REINFORCEMENTS	-	-	-	X	-	X	X	X		X		1



SET OF STRIKERS

Functions

Lock strikers for the spring latches of the automatic catch system of the GS1000-HD tilt and slide system.

Online data sheet



Technical features

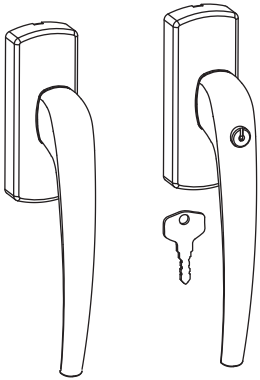
The set of strikers is available in four versions depending on the frame channel and consists of:

- no. 2 strikers for spring latches to secure to the frame channel with contrast grubscrews
- no. 1 sash centring striker

Materials

Automatic catch strikers of zamak
Sash centring striker of polyamide

Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09785	SET OF STRIKERS E.G. 10-14	-	C003	-	-	X	X	X	X				1
09786	SET OF STRIKERS E.G. 12-15	-	C005	-	-	X	X	X	X				1
09787	SET OF STRIKERS E.G. 13.5-16.8	-	C002	-	-	X	X	X	X				1
09788	SET OF STRIKERS E.G. 14-18	-	C001-C004	-	-	X	X	X	X				1



CREMONES FOR GS1000-HD

Functions

Right and left cremone versions, with and without key, specific for the GS1000-HD tilt and slide system with forced control.

Online data sheet



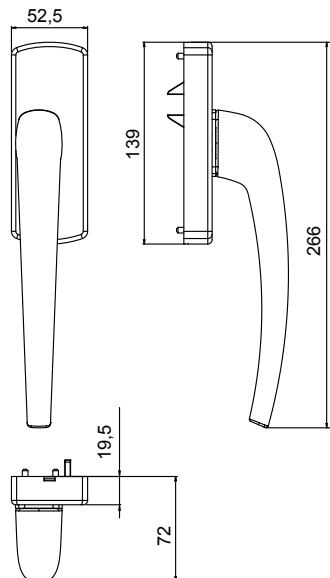
Technical features

Long-handled cremone with specially designed internal mechanism to make it easier to operate sashes weighing up to 200 kg. The special long-handled cremone consists of:

- cremone
- cover
- component connecting to the drive rod

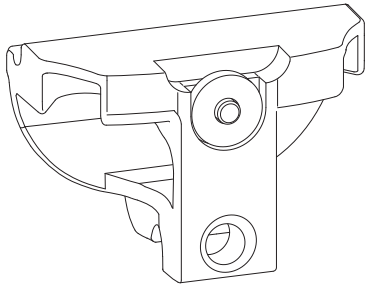
Materials

Handle in die-cast aluminium
Case and rack made of zamak
Aluminium cover
Steel screws and bolts



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09736N	GS1000-HD RH CREMONE	-	-	-	-	X	X	X	X	X	X		1
09737N	GS1000-HD LH CREMONE	-	-	-	-	X	X	X	X	X	X		1
09738N	GS1000-HD RH CREMONE WITH KEY	-	-	-	-	X	X	X		X	X		1
09739N	GS1000-HD LH CREMONE WITH KEY	-	-	-	-	X	X	X		X	X		1

MOBILE STRIKER



Functions

Component for positioning the mobile sash for GS1000 tilt and slide systems.

Online data sheet



Technical features

The mobile striker enables run-by of the sliding sash, for opening the secondary sash.

In configurations with an opening secondary sash, this striker replaces the fixed command striker supplied with the hardware set.

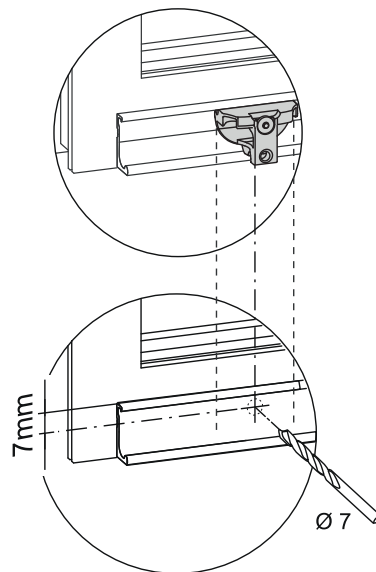
The pin with a spring keeps the striker in position and allows it to move in order to allow opening the secondary sash.

Installation can also be performed with a specific template.

Materials

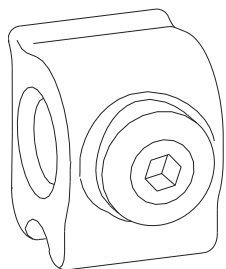
Zamak striker

Spring and pin of steel



Item code	Description	Range [mm]	PROFILE CROSS-SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0979001	MOBILE STRIKER	-	-	X	X	X	X	X	X				1

SUPPORT BLOCK



Functions

Component for supporting the pulley connection rod.
For all GS1000 tilt and slide system versions.

Online data sheet

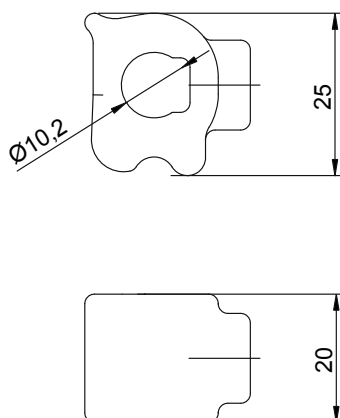


Technical features

The support block is used for sash widths > 1480 mm in order to make the connection rod between the two pulleys more stable.

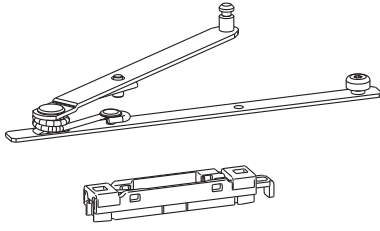
Materials

Nylon block
Steel mounting grubscrew



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09789	SUPPORT BLOCK	-	-	-	X	X	X	X	X				1

GS1000-HD ADDITIONAL ARM



Functions

Additional arm for GS1000-HD tilt-and-slide system.

[Online data sheet](#)



Technical features

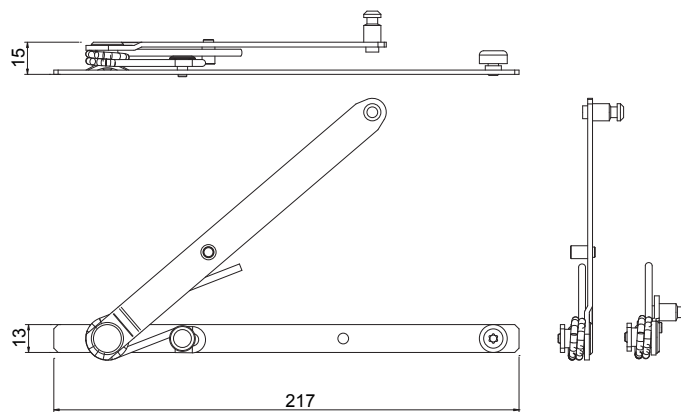
The additional arm, thanks to the special spring, facilitates opening the sash in the case of heavy weights.

The element must be installed between the two arms of the GS1000-HD hardware set for sashes weighing more than 160 kg or weighing more than 100 kg and sash profile width > 75 mm.

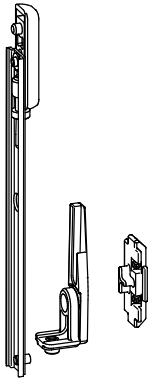
Materials

Steel arm

Sliders of steel and polyamide



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09759	ADDITIONAL ARM	-	-	-	-	-	X	X	X				1



INCORRECT MOVEMENT SAFETY DEVICE

Functions

Incorrect movement safety device for the GS1000-HD version of the GS1000 tilt and slide system with forced control, which prevents damage to the hardware in the event of incorrect operation.

Online data sheet



Technical features

The incorrect movement safety device enables operating the special long-handled cremone only when the sash is attached to the frame.

The device also prevents the sash from lifting.

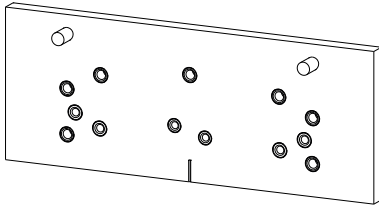
Available in two versions, opening to the left or right, depending on the frame channel.

Materials

Incorrect movement safety device made of zamak
Stainless steel grub screws

Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09791	GS1000-HD 14/18 LH INCORRECT MOVEMENT SAFETY DEVICE SET	-	C001-C002-C004-C005	-	-	X	X	X	X				1
09792	GS1000-HD 14/18 RH INCORRECT MOVEMENT SAFETY DEVICE SET	-	C001-C002-C004-C005	-	-	X	X	X	X				1
09793	GS1000-HD CE LH INCORRECT MOVEMENT SAFETY DEVICE SET	-	C003	-	-	X	X	X	X				1
09794	GS1000-HD CE RH INCORRECT MOVEMENT SAFETY DEVICE SET	-	C003	-	-	X	X	X	X				1

GS1000-HD CREMONE DRILLING TEMPLATE



Functions

Drilling template for the special long-handled cremone for the GS1000-HD tilt and slide system.

Online data sheet



Technical features

Specific template for GS1000-HD it enables machining the profile for installing the special cremone.

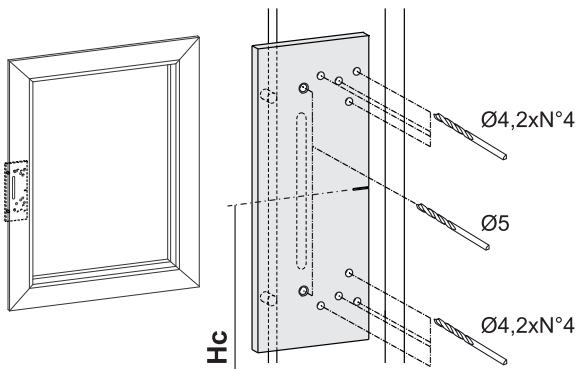
It can also be used for machining the sash profile, necessary for fitting the top guard.

Materials

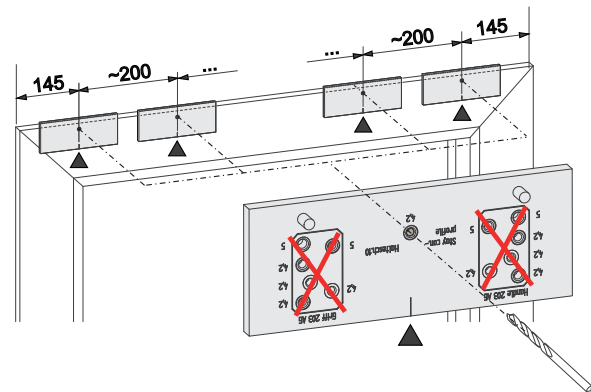
Aluminium template

Carbonitrided steel tip guide bushings

Machining for cremone

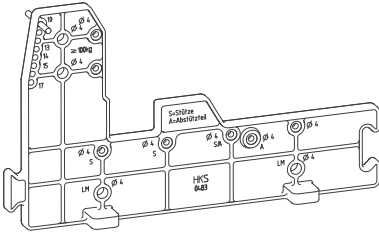


Machining for top guard



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09741N	GS1000-HD CREMONE DRILLING TEMPLATE	-	-	-	-	X	X	X	X				1

GS1000 PULLEY DRILLING TEMPLATE



Functions

Pulley drilling template for all GS1000 tilt and slide system versions.

Online data sheet



Technical features

This is used for drilling the profile in order to install the pulleys, side reinforcements and bottom guard support.

Reversible for right and left pulley.

Combined with another identical template it also permits the drilling for the double pulleys.

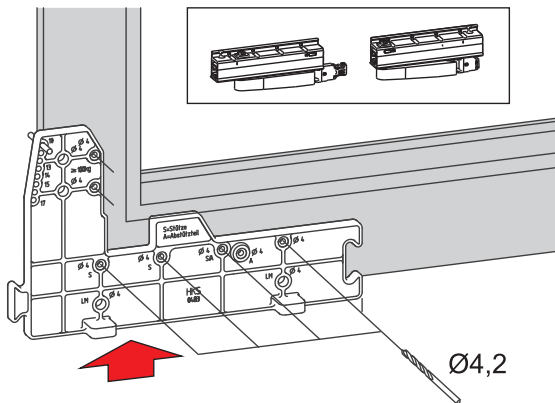
Made of polyamide with carbonitrided steel tip guide bushings.

Materials

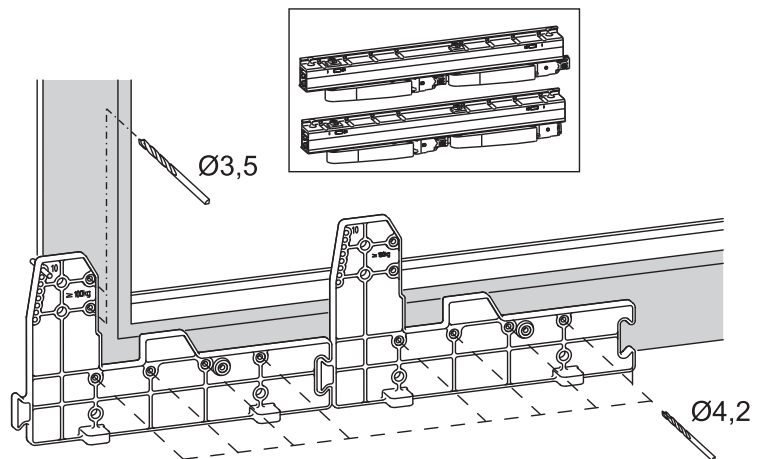
Polyamide template body

Carbonitrided steel tip guide bushings and pins

Application for single pulleys

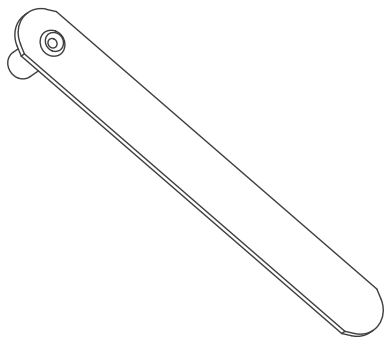


Application for double pulleys



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09801	PULLEY DRILLING TEMPLATE	-	-	X	X	X	X	X	X				1

HOLE CENTRING TEMPLATE



Functions

Hole centring template for fixing the rails of the profile set.
For all GS1000 tilt and slide system versions.

[Online data sheet](#)

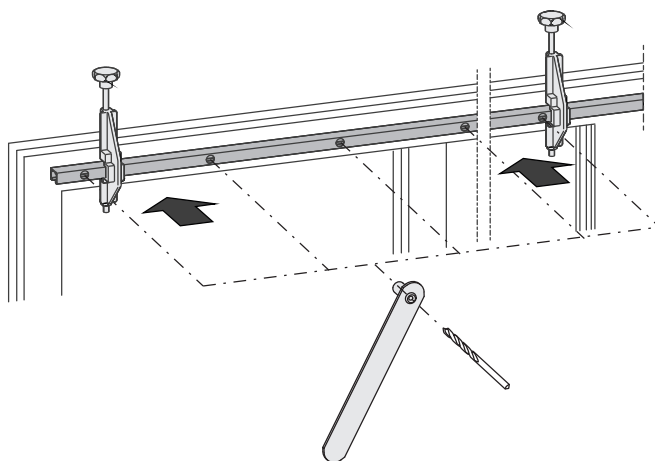


Technical features

In combination with the rail fixing template, it enables keeping the drill bit aligned with the existing holes in the rails, ensuring the rails are correctly secured to the profile.

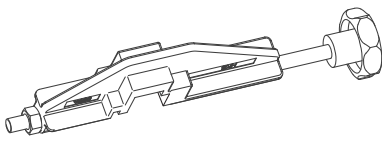
Materials

Steel template body
Carbonitrided steel tip guide bushing



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09804	HOLE CENTRING TEMPLATE	-	-	X	X	X	X	X	X				1

RAIL FIXING TEMPLATE



Functions

Rail fixing template.
For all GS1000 tilt and slide system versions.

Online data sheet

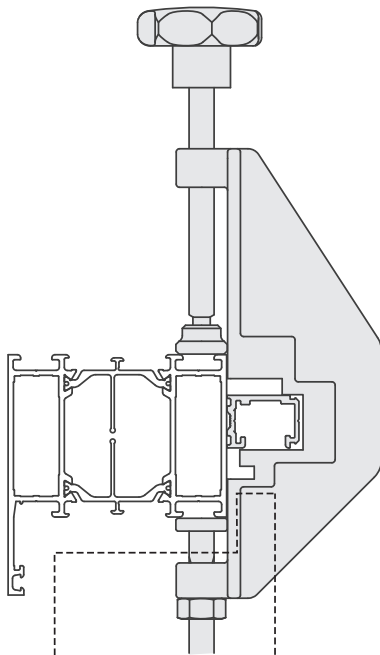


Technical features

This enables securely positioning the rails on the profile while making the holes in the frame.

Materials

Aluminium template



Item code	Description	Range [mm]	PROFILE CROSS - SECTION	GS1000-ML	GS1000-HL	GS1000-HD 100	GS1000-HD 160	GS1000-HD 200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
09805	RAIL FIXING TEMPLATE	-	-	X	X	X	X	X	X				1

GS3000 - 300/400 LIFT AND SLIDE



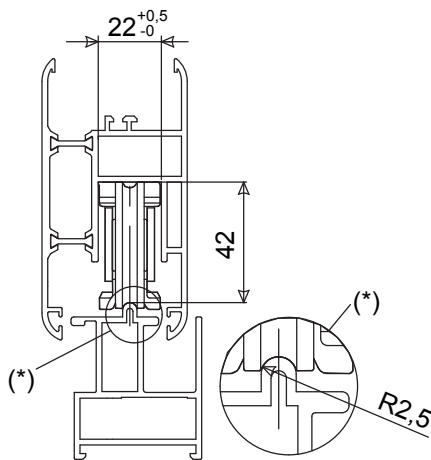
Functions

Lift and slide hardware system to construct sashes from 300 to 400 kg.

Technical Features

The GS3000-300/400 system is composed of:

- 300/22 pulleys (300 kg) for seating in profiles with 22 mm slot and 42 mm slot/track distance, for sashes up to 300 kg
- additional pulley, in addition to the 300/22 pulleys, to be employed for the following cases:
 - 1 additional pulley for sashes wider than 2500 mm and up to 300 kg
 - 2 additional pulleys for sashes up to 400 kg in weight and width >1300 mm
- pulleys connection rod for drive transmission from main to secondary pulley. DEREK To be selected on the basis of sash width
- driving rod with 27.5 mm backset and 37.5 with key, type GS3000 or GS3000 PLUS. The backset depends on the profile employed and the length of the rod depends on the sash height
- locking points to assemble to the frame in the case of the GS3000 or on the driving rod in the case of the GS3000 PLUS, to be selected according to the profile used. The number of mechanisms depends on the sash height
- shims to be selected in accordance with the profile, drive gear and type of locking point employed
- window handle with 80 mm fixing C/C distance, available in KORA, ASIA and PRIMA styles, in single version without key and single/double with key.
- external recess handle with 80 mm fixing C/C distance



Available characteristics and sizes

Sash width	L = 720 - 3350 mm
Sash height	H = 1150 - 3750 mm (with extension)
Max sash weight	300 kg (400 kg with two additional pulleys)
Pulleys 300/22	For slot with width A = 22 mm and track distance B = 42 mm
Drive gears	Backset E = 37.5 mm and E = 27.5 mm
Window handle	Handle length L = 240 mm, 80 mm C/C distance and 10 mm square pin. Single and double version, with or without key.

Drive gear with 27.5 mm backset (80 mm fixing C/C distance)



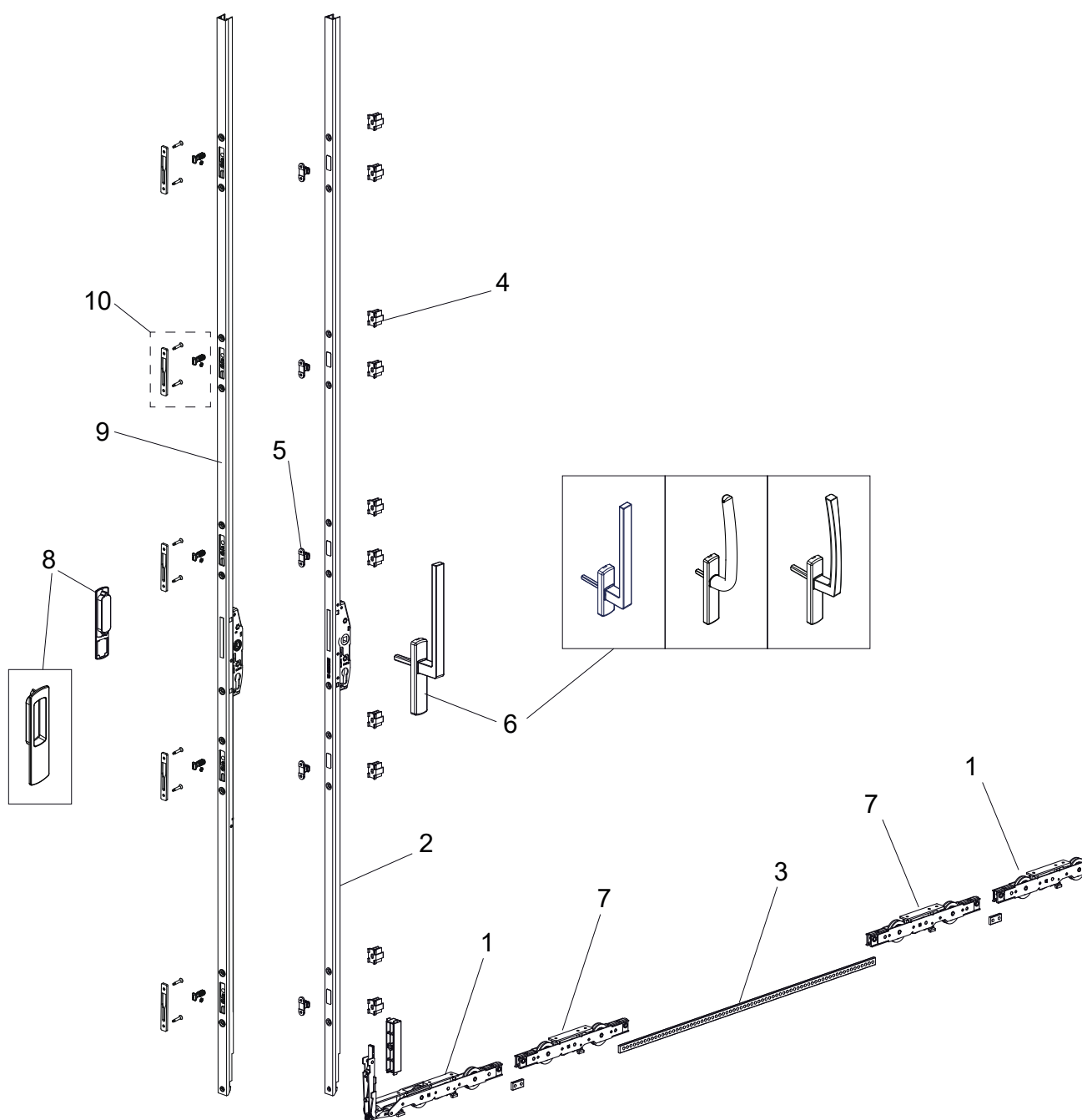
Drive gear with 37.5 mm backset ready for cylinder (80 mm fixing C/C distance)



Drive gear extension covering extension for sashes up to 3750 mm high

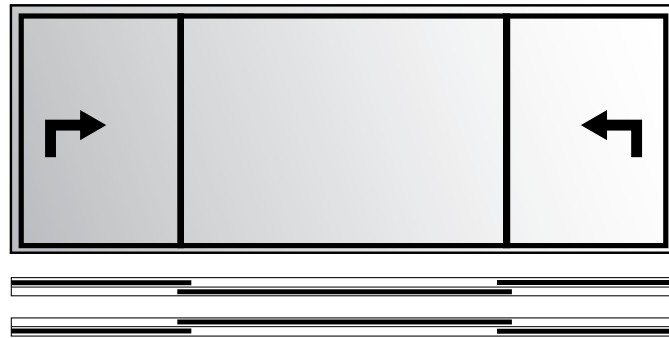
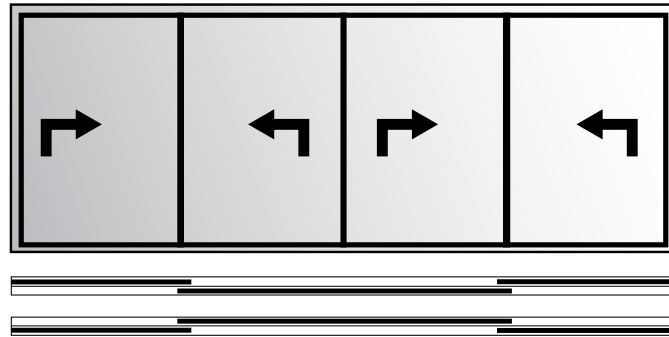
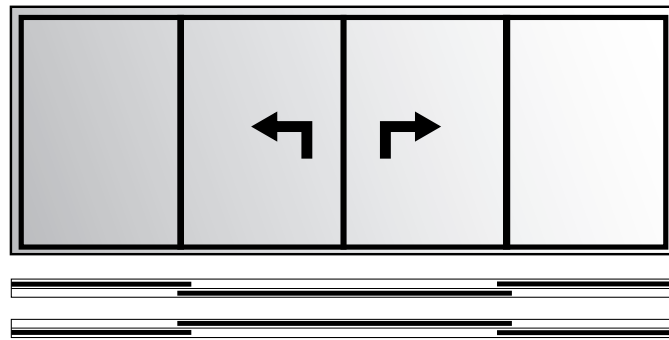
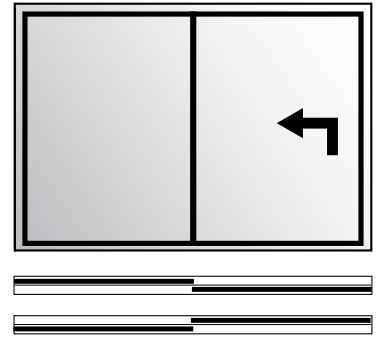
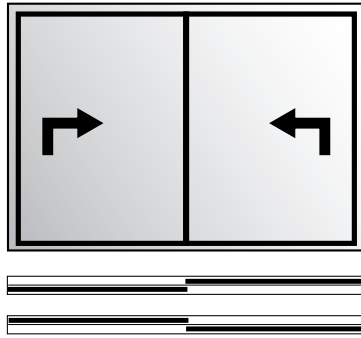
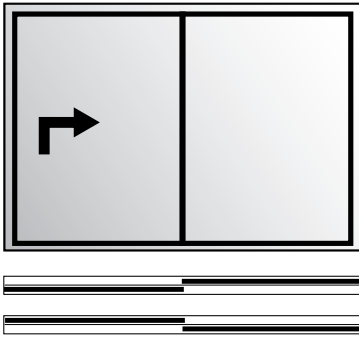


GS3000 diagram - 300/400



- 1 - Pulleys kit
- 2 - Drive gear
- 3 - Pulleys connection rod
- 4 - Shims
- 5 - Locking points
- 6 - Window handles
- 7 - Additional pulley (300 kg with 1 pulley; 400 kg with 2 pulleys)
- 8 - Recess handle
- 9 - Rod GS3000 Plus
- 10 - Locking point GS3000 Plus (nib+ counterplate)

OPENING SCHEMES



Note: Configurations with opposing sashes are not possible with GS3000 PLUS rods.

GS3000-300 PULLEYS



Functions

Reversible pulleys for GS3000 lift and slide system.

Online data sheet



Technical features

Reversible two-wheel pulleys with lever type lifting device, to create operable sashes from 300 to 400 kg.

Pulleys 300/22

Set composed of a primary corner pulley, equipped with a toggle for sash lifting, and a secondary pulley.

Connection and drive of the secondary pulley occurs by means of a connection rod to be cut to length.

Compatible with drive gear with 27.5 and 37.5 mm backset and with window handles having 80 mm fixing C/C distance.

Complete with threaded bushings to fit on the drive gear for use with a single handle and in the external handle, for use of a double handle.

300/22 additional pulley

Additional pulley, to combine with the 300/22 pulleys in the following cases:

- 1 additional pulley for sashes wider than 2500 mm and up to 300 kg
- 2 additional pulleys for sashes up to 400 kg with width >1300 mm

Connection to the other pulleys by means of the length of connection rod supplied.

The 300/22 pulleys and 300/22 additional pulley feature a wheel that is compatible with 2.5 mm radius rails.

Both equipped with special support components that keep the wheels raised from the track in the sash closed position.

Supplied complete with fixing screws, connection rod pin and rod guide.

Connection rods

The connection rod transmits drive from the main pulley to the secondary pulley.

Available in three different sizes, to be cut in accordance with the sash width. Compatible with all pulley versions.

Capacities

For sashes up to 400 kg.

Materials

Pulley body in galvanised zamak

Stainless steel side covers

Stainless steel levers, connecting brackets and pins

Fibreglass-reinforced nylon wheels

Connection rod in zinc plated steel

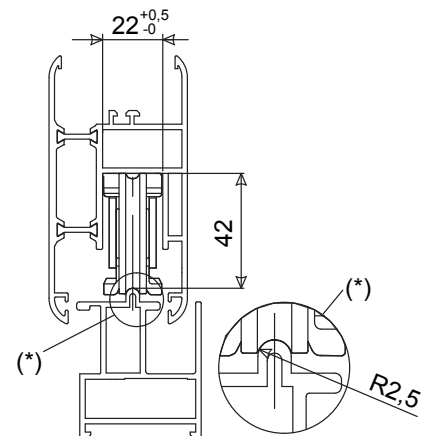
Connection rod guides in fibreglass-reinforced nylon

Fixing screws, zinc-coated steel

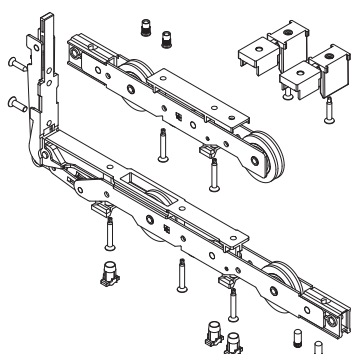
Zinc plated steel bushings

Pulley support components in nylon

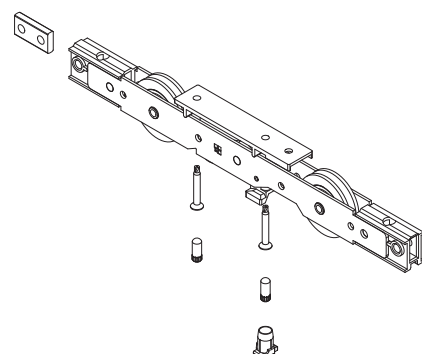
Pulleys connection rod in zinc plated steel



Pulleys 300/22

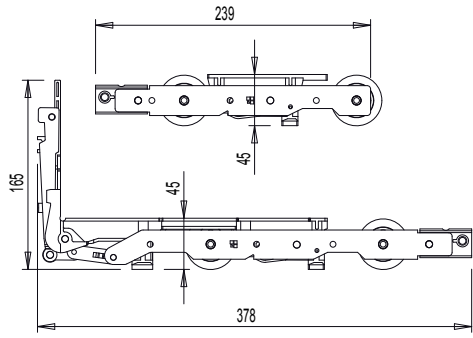


300/22 additional pulley

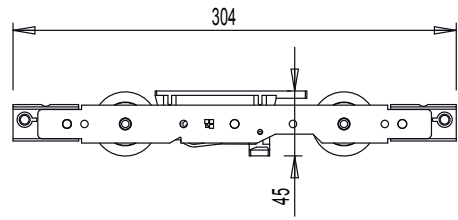


GS3000 - 300/400 LIFT AND SLIDE

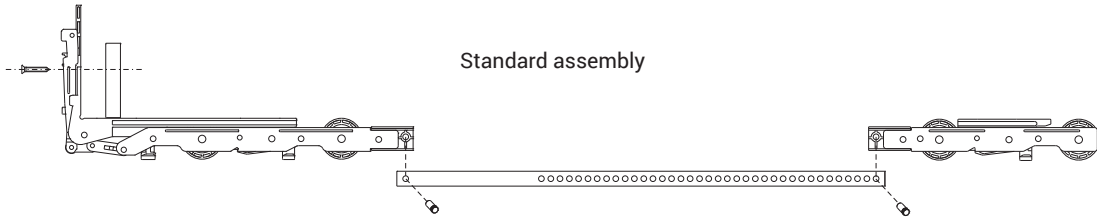
Art. 07101



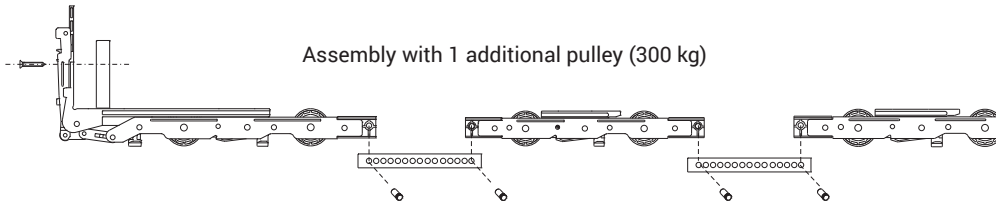
Art. 07102



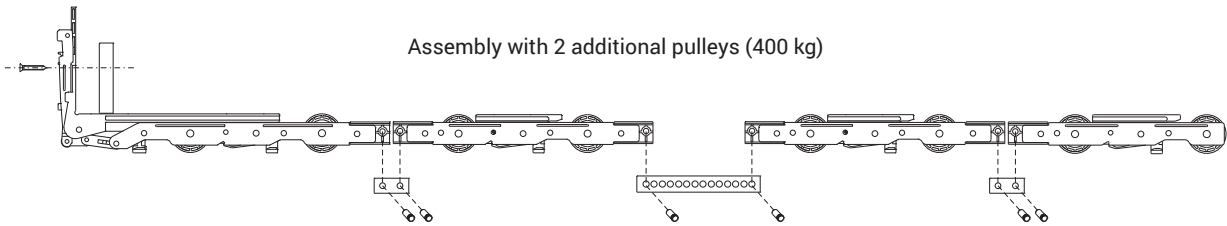
Standard assembly



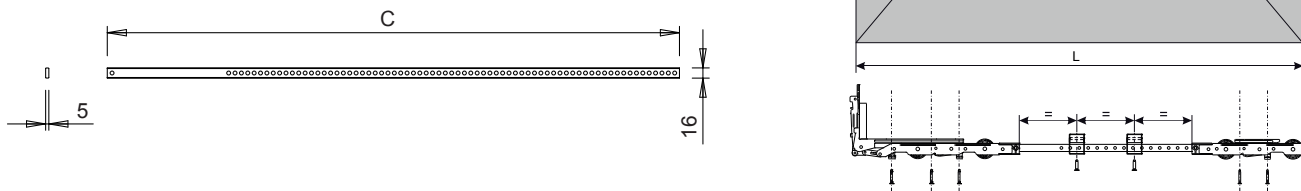
Assembly with 1 additional pulley (300 kg)



Assembly with 2 additional pulleys (400 kg)



Pulleys connection rod



Item code	Description	Slot width (A)	Track height (B)	Max sash weight	Compatible with drive gear	Compatible with window handle C/C distance (I)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07101	300/22 PULLEYS - GS3000	22 mm	42 mm	300 kg	E = 27.5 E = 37.5	80 mm	X				1
07102	ADDITIONAL PULLEY 300/22-GS3000	22 mm	42 mm	300 kg with 1 pulley 400 kg with 2 pulleys	E = 27.5 mm E = 37.5 mm	80 mm	X				1

Item code	Description	Rod length (C)	Sash width (L) (*)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07146	PULLEYS CONNECTION ROD 900 - GS3000	900 mm	600 - 1500 mm	X				5
07147	PULLEYS CONNECTION ROD 1400 - GS3000	1400 mm	1501 - 2000 mm	X				5
07148	PULLEYS CONNECTION ROD 1900 - GS3000	1900 mm	2001 - 2500 mm	X				5

(*) the dimensions are referred to the minimum and maximum sash width that can be constructed with the selected rod. When using additional pulleys the maximum permissible sash width is 3350 mm.



DRIVING RODS AND LOCKING POINTS GS3000 PLUS

Functions

Driving rods for GS3000 lift and slide system. They are characterized by the nibs that engage directly on the rod.

Online data sheet



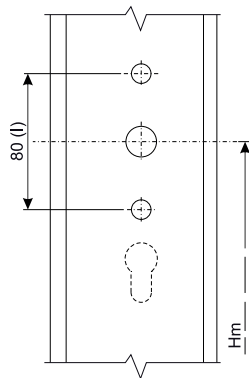
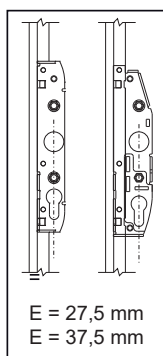
Technical features

Lift and slide casement lock for sashes from 150 to 400 kg (with additional pulleys) to select in accordance with profile width, weight and height of sash. Available in versions with 27.5 mm and 37.5 mm backset. 10 mm square pin. Available in 6 alternative heights for each version. Compatible with 150/300 kg pulleys and with window handles with 80 mm fixing c/c distance. Pre-slotted front plate with up to 5 positions for combination with the locking points. Cover extension available for all versions of drive gear, to fit to the casement in the hardware slot that the drive gear does not reach. Allows the construction of sashes up to 3750 mm in height.

Materials

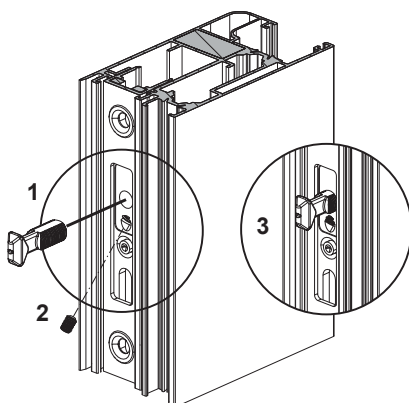
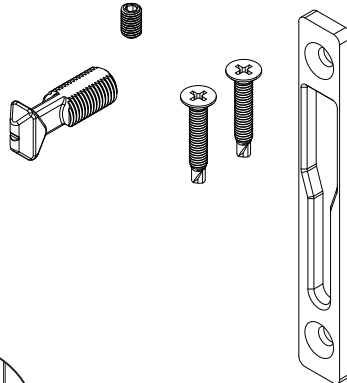
Anodised aluminium front plate
Internal sliding rod in stainless steel
Body of zinc plated steel
Internal parts in zinc plated steel and brass
Anodised aluminium extension cover

Machining on profile



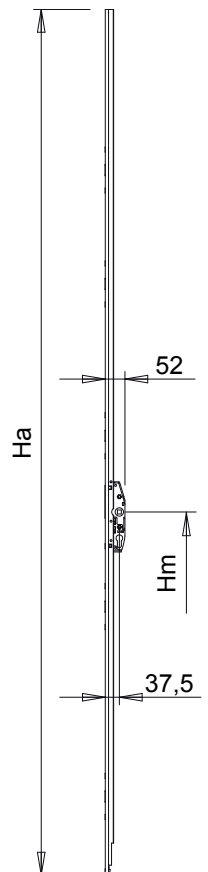
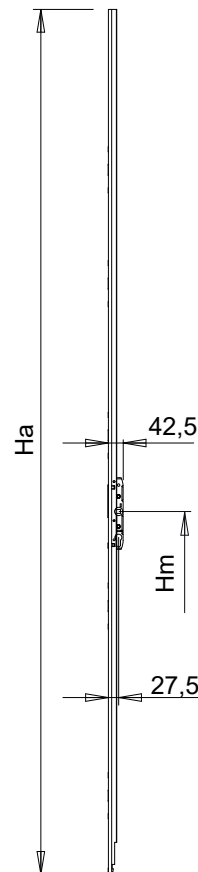
07220

07221



Drive gear with E = 27.5 mm

Drive gear with E = 37.5 mm



GS3000 - 300/400 LIFT AND SLIDE

Item code	Description	Backset	Drive gear height (Ha)	Window handle positions (Hm)	Compatible with pulleys	Compatible with window handle C/C distance (l)	Key	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07205	DRIVING ROD KEY GS3000 PLUS	E =37.5 mm	1680 mm	355 mm	300/22 - 150/18 - 150/22	80 mm	YES	X				1
07206	DRIVING ROD KEY GS3000 PLUS	E =37.5 mm	1880 mm	655 mm	300/22 - 150/18 - 150/22	80 mm	YES	X				1
07207	DRIVING ROD KEY GS3000 PLUS	E =37.5 mm	1980 mm	955 mm	300/22 - 150/18 - 150/22	80 mm	YES	X				1
07208	DRIVING ROD KEY GS3000 PLUS	E =37.5 mm	2280 mm	956 mm	300/22 - 150/18 - 150/22	80 mm	YES	X				1
07209	DRIVING ROD KEY GS3000 PLUS	E =37.5 mm	2580 mm	955 mm	300/22 - 150/18 - 150/22	80 mm	YES	X				1
07210	DRIVING ROD KEY GS3000 PLUS	E =37.5 mm	2980 mm	955 mm	300/22 - 150/18 - 150/22	80 mm	YES	X				1
07211	DRIVING ROD KEY GS3000 PLUS	E =27.5 mm	1680 mm	356 mm	300/22 - 150/18 - 150/22	80 mm	YES	X				1
07212	DRIVING ROD KEY GS3000 PLUS	E =27.5 mm	1880 mm	656 mm	300/22 - 150/18 - 150/22	80 mm	YES	X				1
07213	DRIVING ROD KEY GS3000 PLUS	E =27.5 mm	1980 mm	956 mm	300/22 - 150/18 - 150/22	80 mm	YES	X				1
07214	DRIVING ROD KEY GS3000 PLUS	E =27.5 mm	2280 mm	956 mm	300/22 - 150/18 - 150/22	80 mm	YES	X				1
07215	DRIVING ROD KEY GS3000 PLUS	E =27.5 mm	2580 mm	956 mm	300/22 - 150/18 - 150/22	80 mm	YES	X				1
07216	DRIVING ROD KEY GS3000 PLUS	E =27.5 mm	2980 mm	956 mm	300/22 - 150/18 - 150/22	80 mm	YES	X				1

Item code	Description	Range	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07220	NIB GS 3000 PLUS	13 - 25 mm	X				10
07221	COUNTERPLATE GS 3000 PLUS	-	X				10



DRIVING RODS AND LOCKING POINTS GS3000

Functions

Driving rods and locking points to fit to frame for GS3000 lift and slide system.

Online data sheet



Technical features

Drive gears

Lift locks for sashes from 150 to 400 kg (with additional pulleys) to select according to profile width, weight and height of sash.

Available in versions with 27.5 mm and 37.5 mm backset.

10 mm square pin.

Available in 6 alternative heights for each version.

Compatible with 150/300 kg pulleys and with window handles with 80 mm fixing c/c distance.

Pre-slotted front plate with up to 5 positions for combination with the locking points.

Cover extension available for all versions of drive gear, to fit to the casement in the hardware slot that the drive gear does not reach.

Allows the construction of sashes up to 3750 mm in height.

Locking points

Locking points to fit to frame in correspondence with the slots of the drive gear installed on the sash.

Available in several version to be selected in accordance with the profile.

When combined with the appropriate shims for the profile the locking points ensure an optimal sash / frame seal.

The number of locking points required depends on the sash height and the selected drive gear.

Materials

Drive gears

Anodised aluminium front plate

Internal sliding rod in stainless steel

Body of zinc plated steel

Internal parts in zinc plated steel and brass

Anodised aluminium extension cover

Locking points

Nickel-plated brass locking point

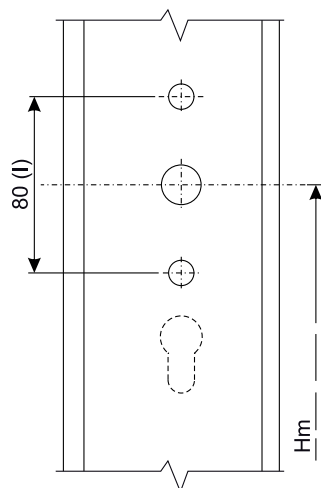
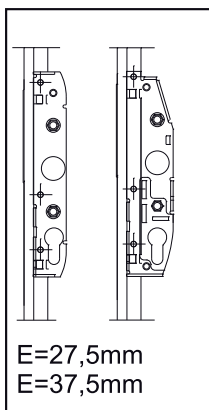
Stainless steel shims

Nylon adapter (for opposing sashes version)

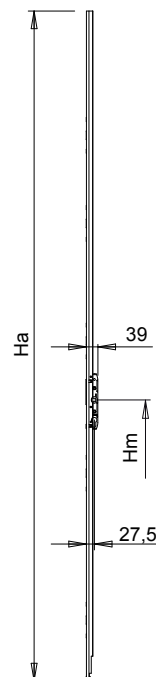
Stainless steel mounting plate (for opposing sashes version)

Stainless steel fixing screws

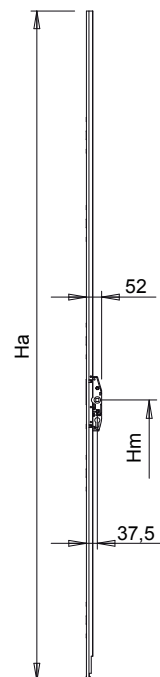
Machining on profile



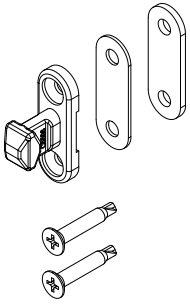
Drive gear with E = 27.5 mm



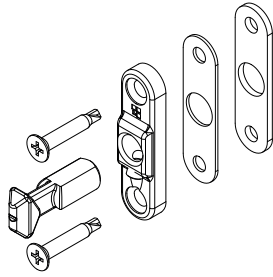
Drive gear with E = 37.5 mm



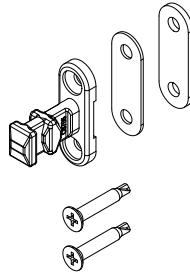
Fixed locking point



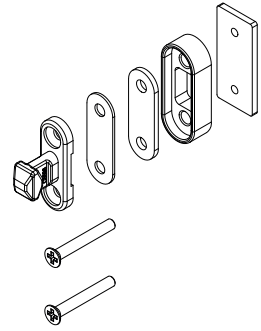
13–25 mm adjustable locking point



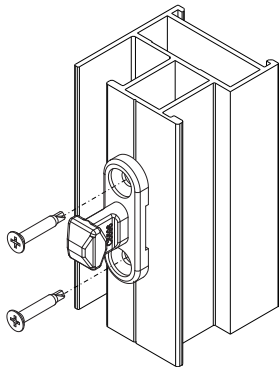
Locking point with Micro-ventilation



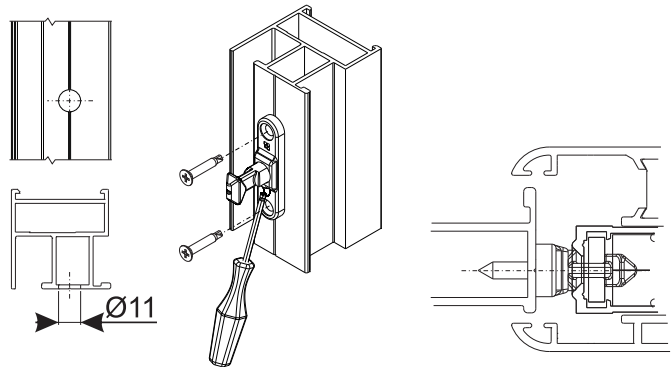
Locking point for opposing sashes



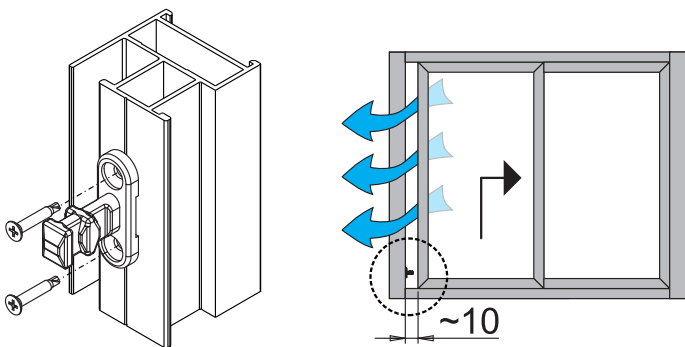
Assembly of fixed locking point



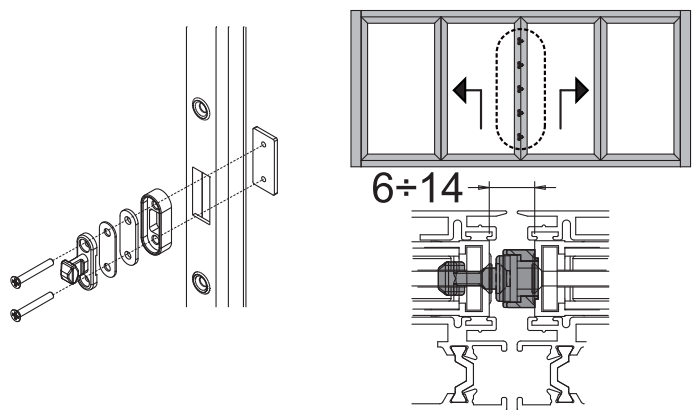
Assembly of 13–25 mm adjustable locking point



Assembly of Micro-ventilation locking point



Assembly of locking point for opposing sashes



Item code	Description	Backset	Drive gear height (Ha)	Window handle positions (Hm)	Compatible with pulleys	Compatible with window handle C/C distance (l)	Key	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07105	DRIVE GEAR KEY H170 E37.5-GS3000	37.5 mm	1680 mm	354 mm	300/22	80 mm	YES	X				1
07106	DRIVE GEAR KEY H190 E37.5-GS3000	37.5 mm	1880 mm	654 mm	300/22	80 mm	YES	X				1
0710701	DRIVE GEAR KEY H200 E37.5-GS3000	37.5 mm	1980 mm	954 mm	300/22	80 mm	YES	X				1
0710801	DRIVE GEAR KEY H230 E37.5-GS3000	37.5 mm	2280 mm	954 mm	300/22	80 mm	YES	X				1
0710901	DRIVE GEAR KEY H260 E37.5-GS3000	37.5 mm	2580 mm	954 mm	300/22	80 mm	YES	X				1
0711001	DRIVE GEAR KEY H300 E37.5-GS3000	37.5 mm	2980 mm	954 mm	300/22	80 mm	YES	X				1
07133	DRIVE GEAR KEY H170 E27.5-GS3000	27,5 mm	1680 mm	354 mm	300/22	80 mm	YES	X				1
07134	DRIVE GEAR H190 E27.5-GS3000	27,5 mm	1880 mm	654 mm	300/22	80 mm	YES	X				1
0713501	DRIVE GEAR KEY H200 E27.5-GS3000	27,5 mm	1980 mm	954 mm	300/22	80 mm	YES	X				1
0713601	DRIVE GEAR KEY H230 E27.5-GS3000	27,5 mm	2280 mm	954 mm	300/22	80 mm	YES	X				1
0713701	DRIVE GEAR KEY H260 E27.5-GS3000	27,5 mm	2580 mm	954 mm	300/22	80 mm	YES	X				1
0713801	DRIVE GEAR KEY H300 E27.5-GS3000	27,5 mm	2980 mm	954 mm	300/22	80 mm	YES	X				1
07161	GS3000 ROD EXTENSION COVER	-	650 mm	-	-	-	NO	X				5
07122	GS3000 WINDOW HANDLE DAMPER	-	-	-	-	-	-	X				10

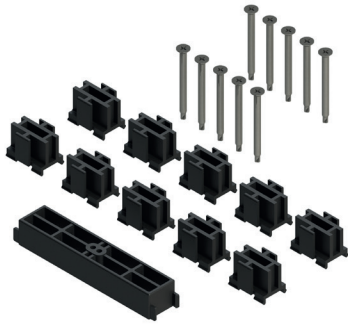
Item code	Description	Range	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07149	FIXED LOCKING POINT	13 - 16 mm	X				10
07150	ADJUSTABLE LOCKING POINT	13 - 25 mm	X				10
07151	MICRO-VENTILATION LOCKING POINT	13 - 16 mm	X				10
07152	OPPOSING SASHES LOCKING POINT	13 - 16 mm	X				10

GS3000 SHIMS

Functions

Profile shims for drive gear and main pulley for GS3000 lift and slide system.

Online data sheet



Technical features

Set of adapters to combine with the drive gear and main pulley to fit the hardware in the profile groove.

Available in various sizes to be selected in accordance with the profile, drive gear and type of locking point employed.

Each set of shims consists of:

- 10 shims to install on drive gear
- 1 shim to install on main pulley
- self-threading fixing screws

Materials

Polyamide shims

Zinc plated steel self-threading screws

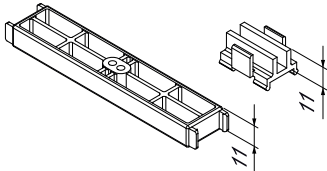
Stainless steel grub screws

Side container shims available to lodge the pulleys in a stable position inside special profile slots without any lateral containment.

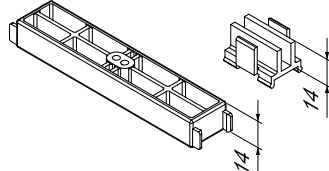
The shims are fixed to the profile using grub screws.

Shims available to combine with the fixed locking point and locking point with micro-ventilation.

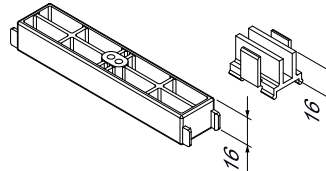
Art. 07153



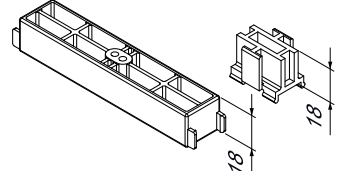
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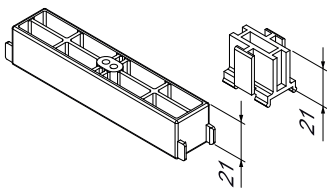
Art. 07155



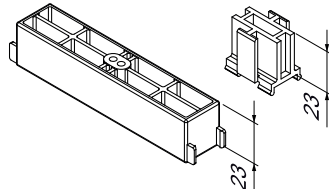
Art. 07156



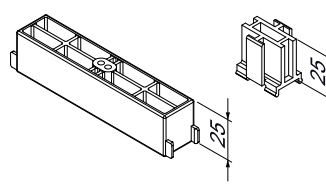
Art. 07157



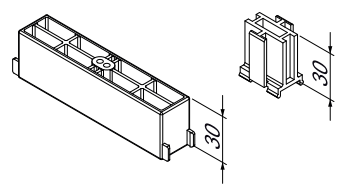
Art. 07158



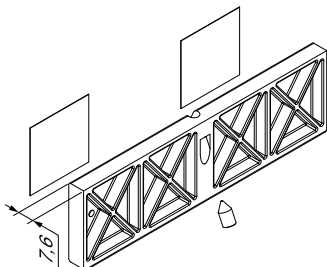
Art. 07159



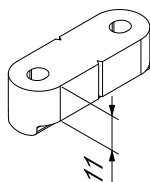
Art. 07160



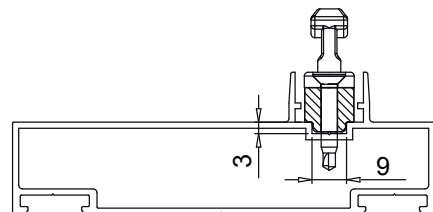
Art. 07162



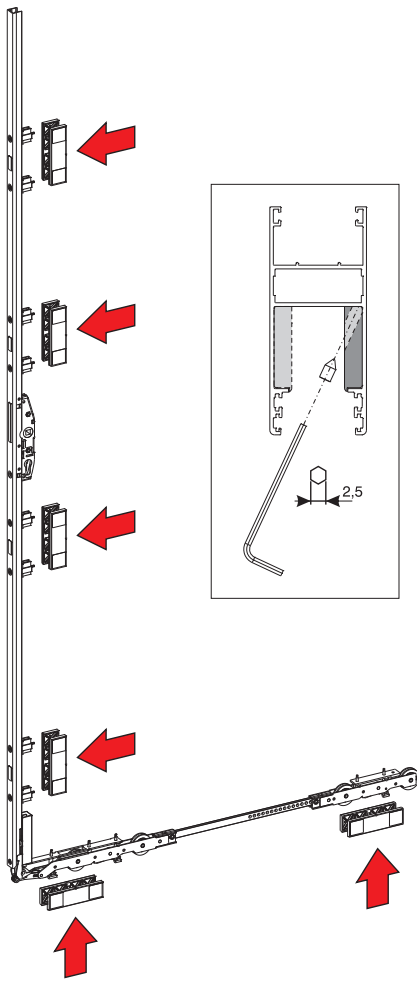
Art. 07163



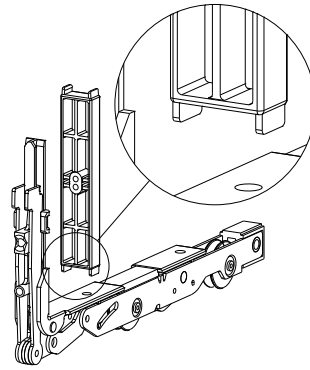
Shim fitting for locking point



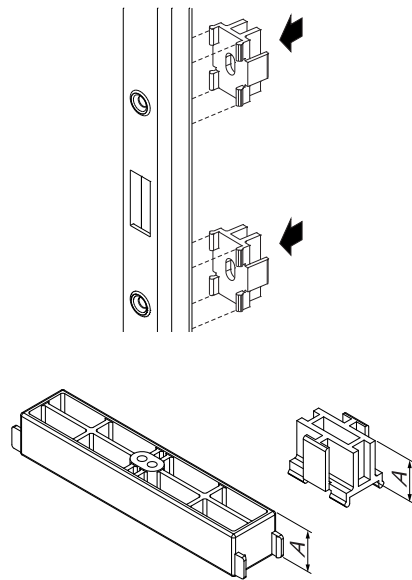
Lateral container shims assembly diagram



Assembly of main pulley shim

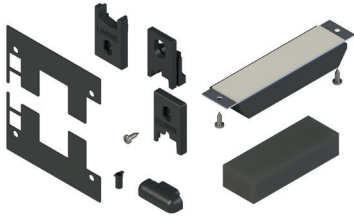


Assembly of shims to drive gear



Item code	Description	Dimension (A)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07153	SHIMS 11 FOR ROD AND PULLEY-GS3000	11 mm	X				1
07154	SHIMS 14 FOR ROD AND PULLEY-GS3000	14 mm	X				1
07155	SHIMS 16 FOR ROD AND PULLEY-GS3000	16 mm	X				1
07156	SHIMS 18 FOR ROD AND PULLEY-GS3000	18 mm	X				1
07157	SHIMS 21 FOR ROD AND PULLEY-GS3000	21 mm	X				1
07158	SHIMS 23 FOR ROD AND PULLEY-GS3000	23 mm	X				1
07159	SHIMS 25 FOR ROD AND PULLEY-GS3000	25 mm	X				1
07160	SHIMS 30 FOR ROD AND PULLEY-GS3000	30 mm	X				1
07162	PULLEY SHIM - GS3000	-	X				20
07163	SHIM FOR LOCKING POINT - GS3000	-	X				20

GS3000 MACHINING COVER CAPS



Functions

Machining cover caps for GS3000 lift and slide system.

[Online data sheet](#)



Technical features

The machining cover caps kit contains all the components required to complete a two-sash lift and slide casement:

- top dust-proof plug and lower central sponge to fit in frame, in correspondence with the central labyrinth, to restrict the circulation of dust and passage of air
- top and bottom cover caps to conceal machinings on sash central upright
- lower sealing buffers to increase seal on track
- drainage cap, to fit to the frame lower cross-beam for fast drainage of water from the frame groove to outside the room
- sealing plates to seal the joint between stile and cross-beam in frames with 90° cut
- drainage tubes to position on frame lower cross-beam

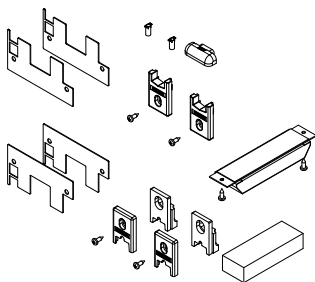
Materials

- Top dust-proof plug composed of plastic body with sponge
- Central lower sponge in expanded rubber
- Stainless steel screws
- Machining cover caps and anti-lifting plugs in fibreglass-reinforced polyamide
- Lower sealing buffers in rubber
- Cap and drainage tubes in fibreglass-reinforced polyamide
- Sealing plates in adhesive rubber
- Rubber dampers

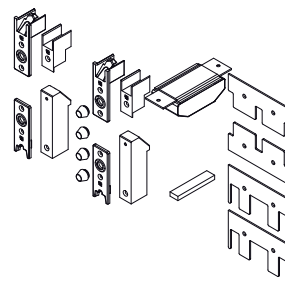
A central and anti-lifting plugs kit is also available, composed of:

- top dust-proof plug and lower central sponge to fit in frame, in correspondence with the central labyrinth, to restrict the circulation of dust and passage of air
- top and bottom machining cover caps equipped with buffers to absorb closing impact between sash and frame
- anti-lifting plug to be fitted in frame top corner. Designed to prevent sash from being removed simply by lifting it from bottom track
- anti-lifting shims to fit in correspondence with sash side stile

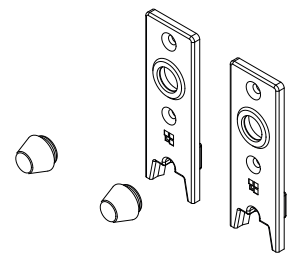
Machining cover kit for 2-sash lift and slide casement



Machining cover and anti-lifting kit



Lower machining cover caps



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07164	MACHINING COVER CAPS KIT GS3000		X				5
07967	MACHINING COVER CAPS KIT GS3000		X				5
0797701	CENTRAL ANTI-LIFTING PLUGS KIT -GS3000		X				5
07978	CENTRAL ANTI-LIFTING PLUGS KIT -GS3000		X				5

KORA WINDOW HANDLE GS3000-300

Functions

Window handles for GS3000-300 lift and slide system.

Online data sheet



Technical features

Long window handles for lift and slide window with KORA style to construct sashes up to 400 kg.
 10 mm square pin.
 80 mm fixing C/C distance.
 Available in single version with and without key and in double version with key.
 Compatible with driving rod with 27.5 and 37.5 mm backset.
 Can be combined with recess handles with 80 mm C/C distance.

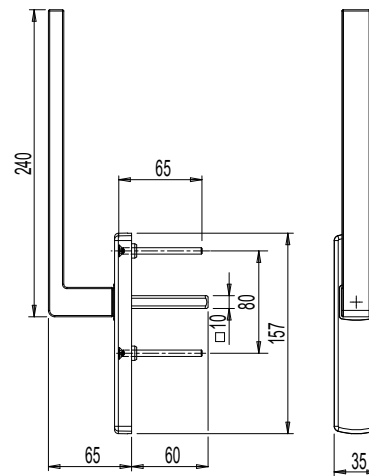
Materials

Aluminium handle and cover
 Zamak case
 Rotor made of zinc-plated steel
 Trim ring made of acetal resin
 Square pin in zinc plated steel
 Fixing screws, zinc-coated steel

KORA window handle L240 -I80



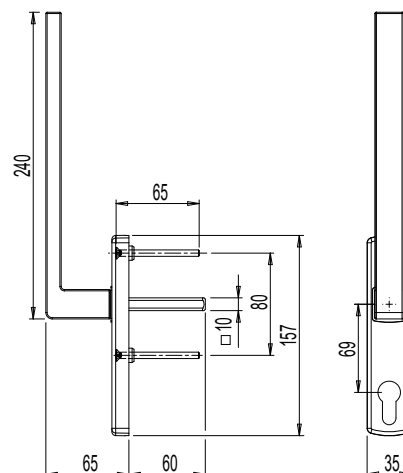
KORA window handle dimensions L240 -I80



KORA window handle L240 KEY -I80

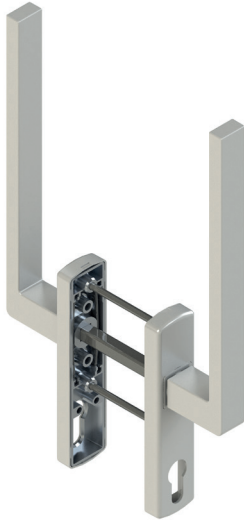


KORA window handle dimensions L240 KEY -I80

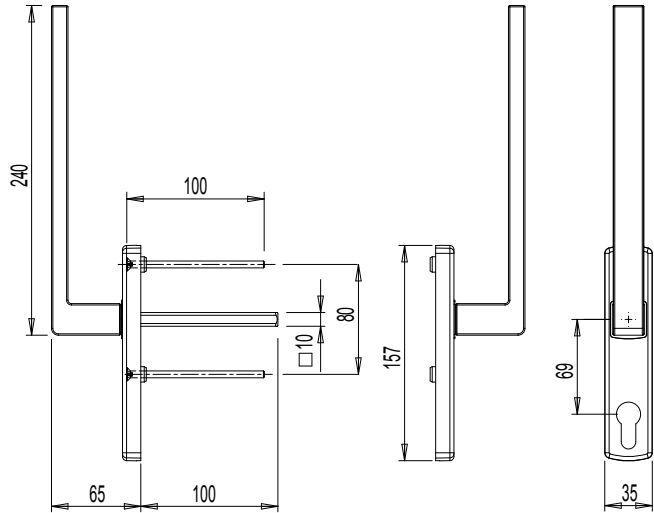


GS3000 - 300/400 LIFT AND SLIDE

KORA window handle L240 CP -I80 KEY



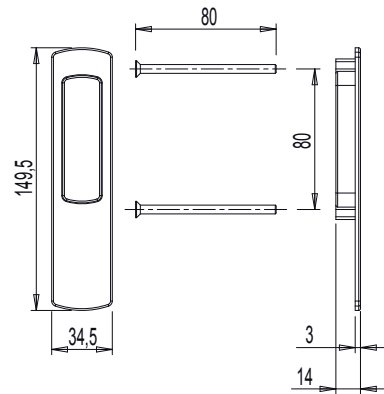
KORA window handle dimensions L240 CP -I80



Recess handle



Recess handle dimensions



Item code	Description	C/C distance (l)	Handle length (L)	Compatible with drive gear	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0246801	KORA WINDOW HANDLE L240-I80 GS3000	80 mm	240 mm	E = 27.5mm/E = 37.5mm	X	X	X	X	1
0246901	KORA WINDOW HANDLE L240 KEY-I80 GS3000	80 mm	240 mm	E = 27.5mm/E = 37.5mm	X	X	X	X	1
0247001	KORA WINDOW HANDLE L240-I80 KEY GS3000 (PAIR)	80 mm	240 mm	E = 27.5mm/E = 37.5mm	X	X	X	X	1
0799501	RECESS HANDLE	80 mm	-	E = 27.5mm/E = 37.5mm	X		X	X	5

ASIA WINDOW HANDLE GS3000-300

Functions

Window handles for GS3000-300 lift and slide system.

Online data sheet



Technical features

Long window handles for lift and slide window with ASIA style to construct sashes up to 400 kg.

10 mm square pin.

80 mm fixing C/C distance.

Available in single version with and without key and in double version with key.

Compatible with driving rod with 27.5 and 37.5 mm backset.

Can be combined with recess handles with 80 mm C/C distance.

Materials

Aluminium handle and cover

Zamak case

Rotor made of zinc-plated steel

Trim ring made of acetal resin

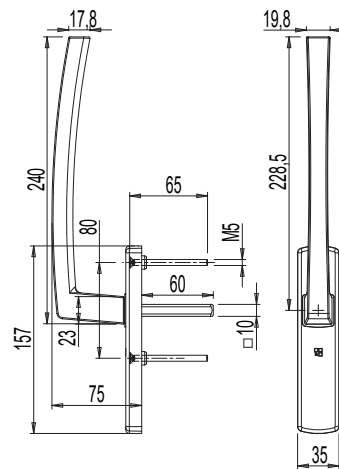
Square pin in zinc plated steel

Fixing screws, zinc-coated steel

ASIA window handle L240 -I80



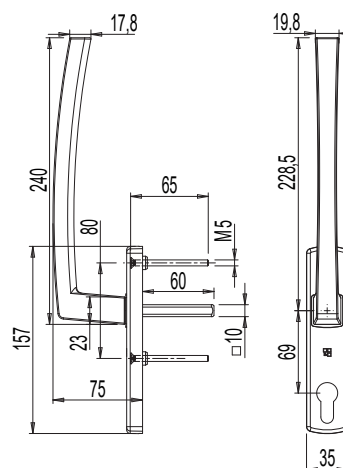
ASIA window handle dimensions L240 -I80



ASIA window handle L240 KEY-I80



ASIA window handle dimensions L240 KEY -I80

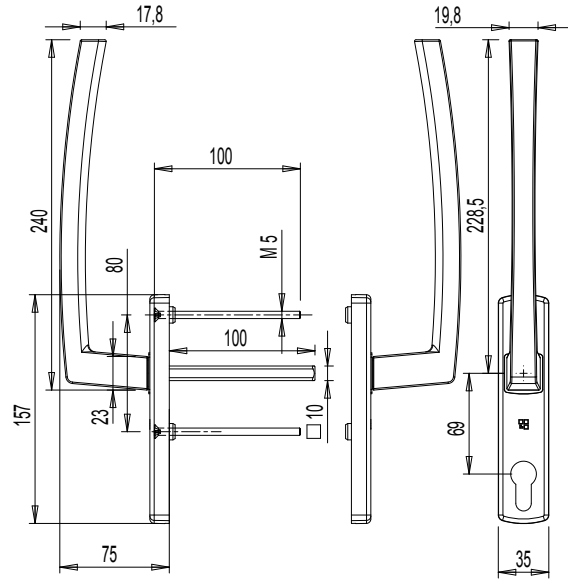


GS3000 - 300/400 LIFT AND SLIDE

ASIA window handle L240 CP -I80 KEY



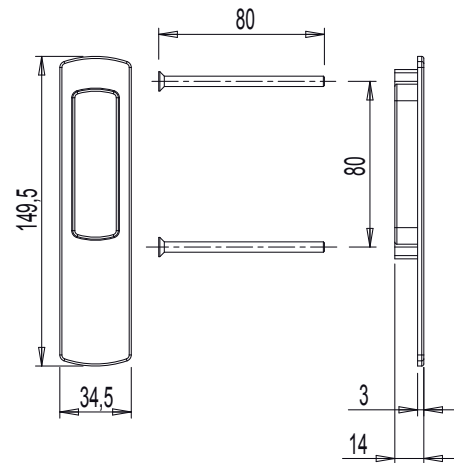
ASIA window handle dimensions L240 CP -I80



Recess handle



Recess handle dimensions



Item code	Description	C/C distance (I)	Handle length (L)	Compatible with drive gear	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0244601	ASIA WINDOW HANDLE L240-I80 GS3000	80 mm	240 mm	E = 27.5mm/E = 37.5mm	X	X	X	X	1
0244701	ASIA WINDOW HANDLE L240 KEY-I80 GS3000	80 mm	240 mm	E = 27.5mm/E = 37.5mm	X	X	X	X	1
0244801	ASIA WINDOW HANDLE L240-I80 KEY GS3000 (PAIR)	80 mm	240 mm	E = 27.5mm/E = 37.5mm	X	X	X	X	1
0799501	RECESS HANDLE	80 mm	-	E = 27.5mm/E = 37.5mm	X		X	X	5



PRIMA WINDOW HANDLE GS3000-300

Functions

Window handles for GS3000-300 lift and slide system.

Online data sheet



Technical features

Long window handles for lift and slide window with PRIMA style to construct sashes up to 400 kg.

10 mm square pin.

80 mm fixing C/C distance.

Available in single version with and without key and in double version with key.

Compatible with driving rod with 27.5 and 37.5 mm backset.

Can be combined with recess handles with 80 mm C/C distance.

Materials

Aluminium handle and cover

Zamak case

Rotor made of zinc-plated steel

Trim ring made of acetal resin

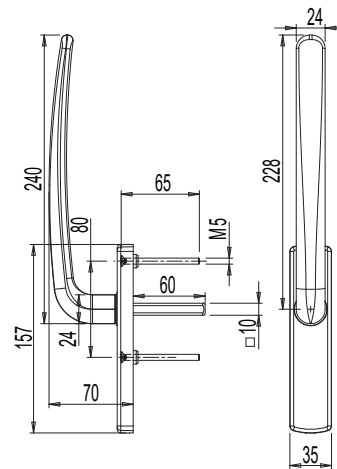
Square pin in zinc plated steel

Fixing screws, zinc-coated steel

PRIMA window handle L240 -I80



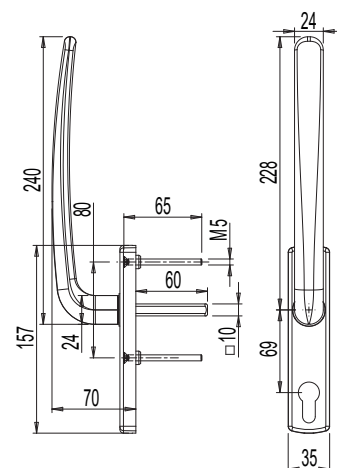
PRIMA window handle dimensions L240 -I80



PRIMA window handle L240 KEY-I80



PRIMA window handle dimensions L240 KEY -I80

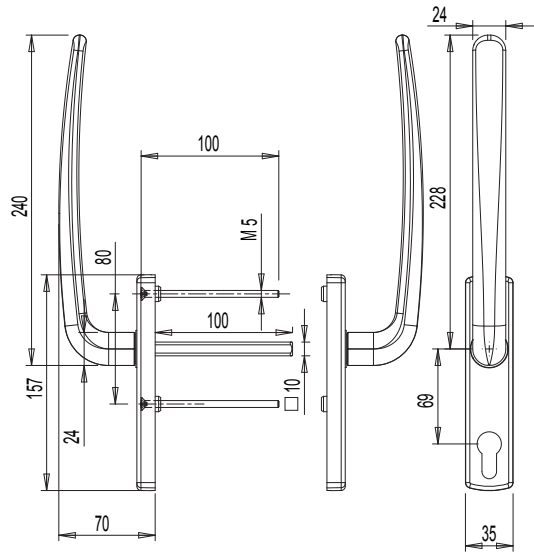


GS3000 - 300/400 LIFT AND SLIDE

PRIMA window handle L240 CP -I80 KEY



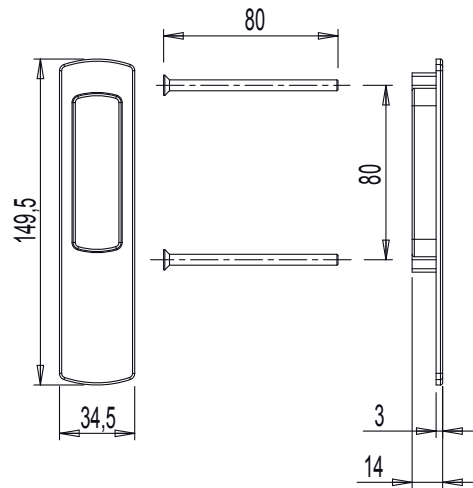
PRIMA window handle dimensions L240 CP -I80



Recess handle



Recess handle dimensions



Item code	Description	C/C distance (I)	Handle length (L)	Compatible with drive gear	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0243701	PRIMA WINDOW HANDLE L240-I80 GS3000	80 mm	240 mm	E = 27.5mm/E = 37.5mm	X	X	X	X	1
0243801	PRIMA WINDOW HANDLE L240 KEY-I80 GS3000	80 mm	240 mm	E = 27.5mm/E = 37.5mm	X	X	X	X	1
0243901	PRIMA WINDOW HANDLE L240-I80 KEY GS3000 (PAIR)	80 mm	240 mm	E = 27.5mm/E = 37.5mm	X	X	X	X	1
0799501	RECESS HANDLE	80 mm	-	E = 27.5mm/E = 37.5mm	X		X	X	5

GS3000 - 150 LIFT AND SLIDE SYSTEM



Functions

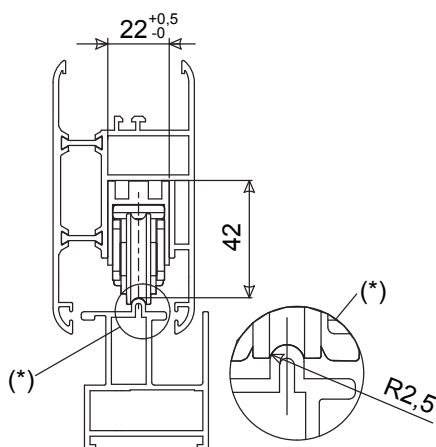
Hardware system to construct lift and slide casements with sashes of up to 150 kg.

Technical Features

The GS3000-150 system is composed of:

- 150 kg pulleys available in two versions
 - 150/18 pulleys with adapters for seating in profiles with 22 mm slot and 42 mm slot/track distance
 - 150/22 pulleys with adapters for seating in profiles with 22 mm slot and 30 mm slot/track distance
- pulleys connection rod for drive transmission from main to secondary pulley. To be selected on the basis of sash width
- driving rod with 27.5 mm backset and 37.5 with key, type GS3000 or GS3000 PLUS. The backset depends on the profile employed and the length of the rod depends on the sash height
- locking points to assemble to the frame in the case of the GS3000 or on the driving rod in the case of the GS3000 PLUS, to be selected according to the profile used. The number of mechanisms depends on the sash height
- shims for drive gear and main pulley, to be selected in accordance with the profile, drive gear and type of locking point
- window handle with 80 mm fixing C/C distance, available in KORA, ASIA and PRIMA styles, in single version without key.
- external recess handle with 43 mm fixing C/C distance

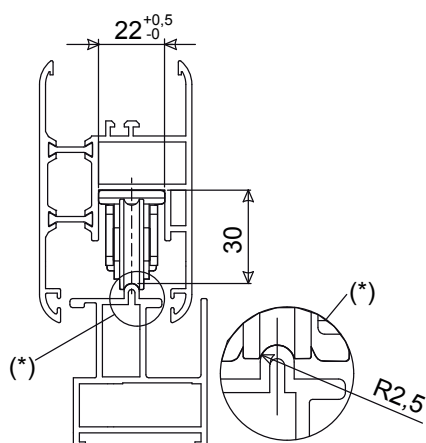
Pulleys 150/18



Available characteristics and sizes

Sash width	L = 600 - 2400 mm
Sash height	H = 1270 - 3450 mm (with extension)
Max sash weight	150 kg
Pulleys 150/22	For slot with width A = 22 mm and track distance B = 30 mm
Pulleys 150/18	For slot with width A = 22 mm and track distance B = 42 mm
Drive gears	Backset E = 37.5 mm and E = 27.5 mm
Window handle	Window handle with L = 240, 43 mm C/C distance and 10/7 mm dual section square pin. Single version.

Pulleys 150/22

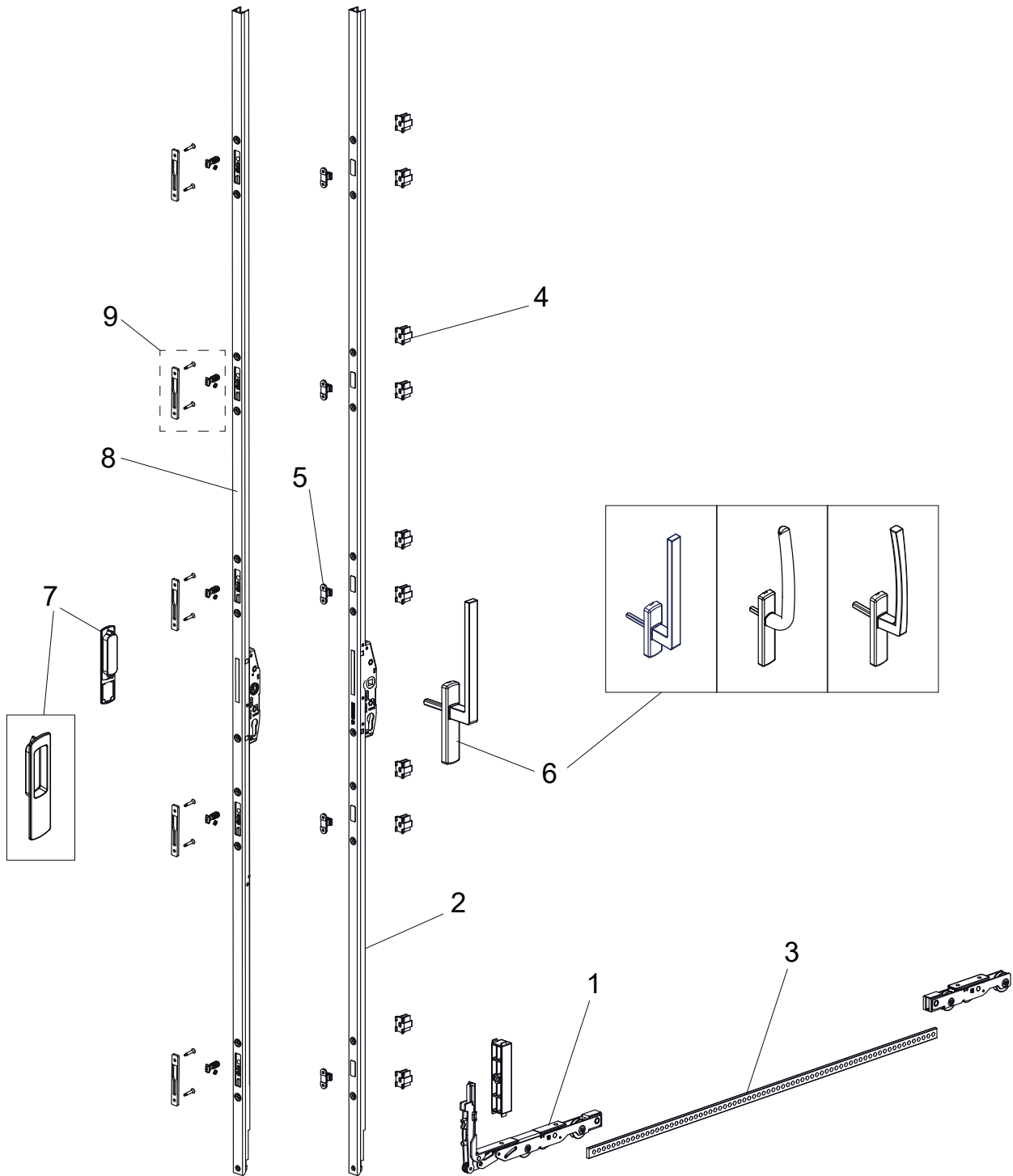


Drive gear with 25 mm backset (43 mm fixing C/C distance)

Drive gear extension covering extension for sashes up to 3750 mm high

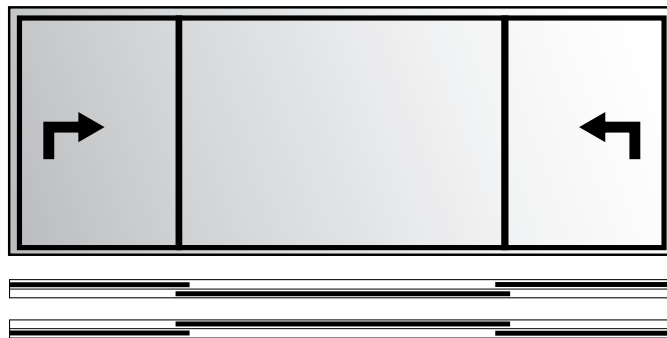
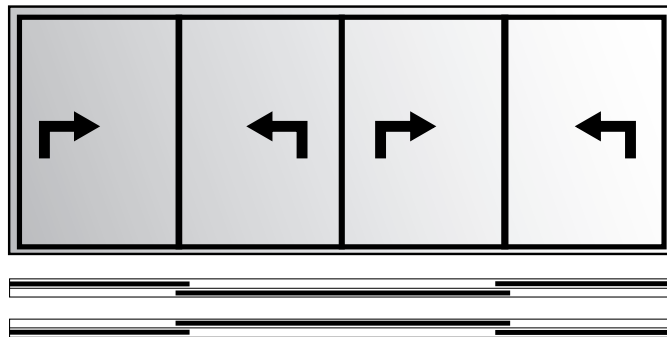
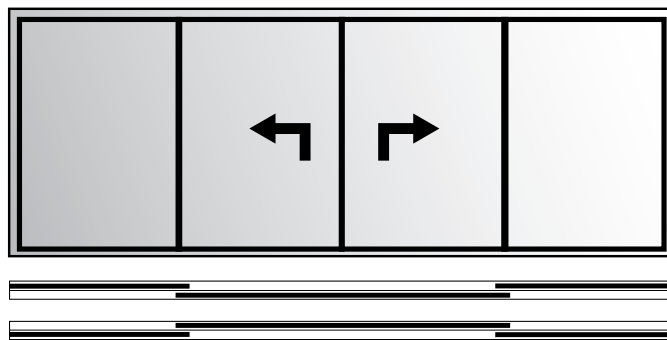
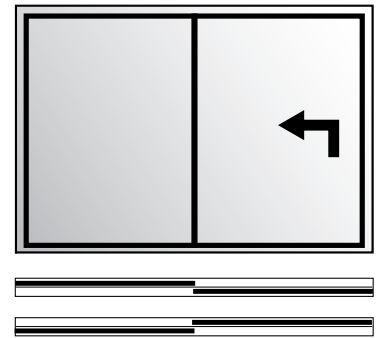
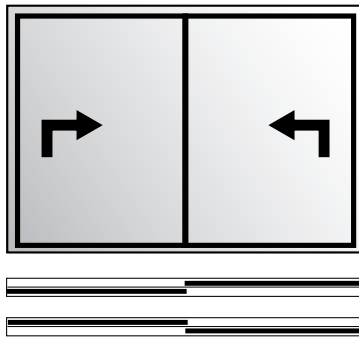
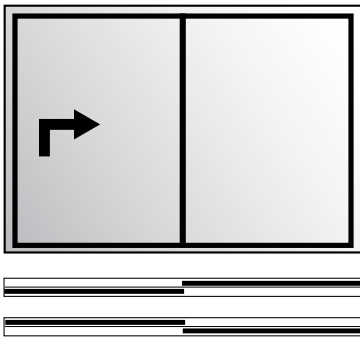


GS3000 - 150 diagram



- 1 - Pulleys kit
- 2 - Drive gear
- 3 - Pulleys connection rod
- 4 - Shims
- 5 - Locking points
- 6 - Window handles
- 7 - Recess handle
- 8 - Rod GS3000 Plus
- 9 - Locking point GS3000 Plus (nib+ counterplate)

OPENING SCHEMES



Note: Configurations with opposing sashes are not possible with GS3000 PLUS rods.

GS3000-150 PULLEYS



Functions

Pulleys for GS3000-150 lift and slide system.

Online data sheet



Technical features

Reversible two-wheel pulleys with lever type lifting device to construct operable sashes of up to 150 kg.

Wheel compatible with 2.5 mm radius rails.

The set of double pulleys consists of a primary corner pulley, equipped with a toggle for sash lifting, and a secondary pulley.

Connection and drive of the secondary pulley occurs by means of a connection rod to be cut to length.

Available in two versions:

- 150/22 pulleys for slot with 22 mm width and 30 mm distance from track
- 150/18 pulleys for slot with 22 mm width and 42 mm distance from track.

The set of adapters supplied allow the pulley to seat in the 22 mm slot.

Compatible with drive gear with 27.5 and 37.5 mm backset and with window handles having 80 mm fixing C/C distance.

Complete with threaded bushings to fit on the drive gear for use with a single handle and in the external handle, for use of a double handle.

Supplied complete with fixing screws, connection rod pin and rod guide.

Connection rods

The connection rod transmits drive from the main pulley to the secondary pulley.

Available in three different sizes, to be cut in accordance with the sash width. Compatible with all pulley versions.

Capacities

For sashes up to 150 kg.

Materials

Pulley body in galvanised zamak

Stainless steel side covers

Stainless steel levers, connecting brackets and pins

Fibreglass-reinforced nylon wheels

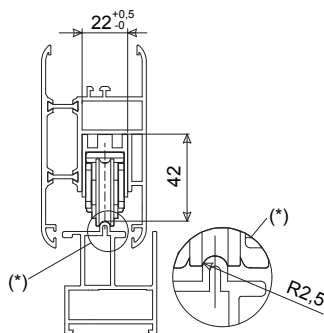
Pulley adapters (150/18 version) in fibreglass reinforced nylon

Connection rod guides in fibreglass reinforced nylon

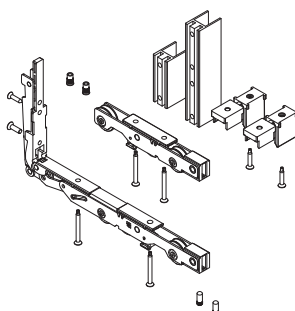
Fixing screws, zinc-coated steel

Pulleys connection rod in zinc plated steel

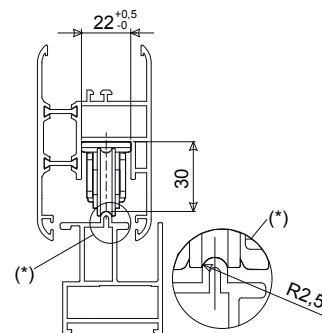
Section with 150/18 pulley



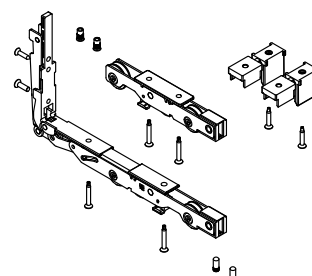
Pulleys 150/18

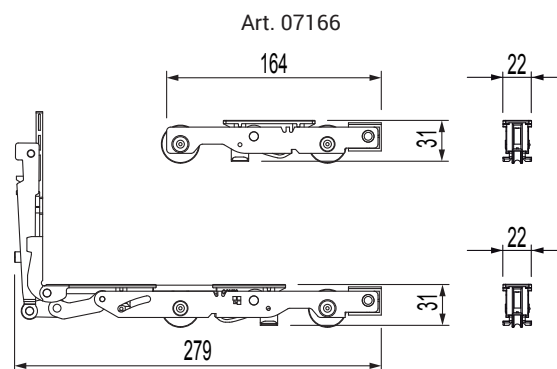
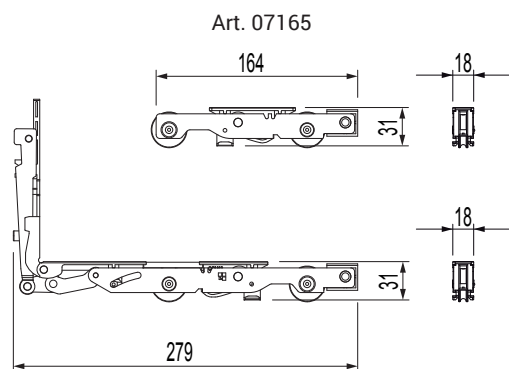


Section with 150/22 pulley

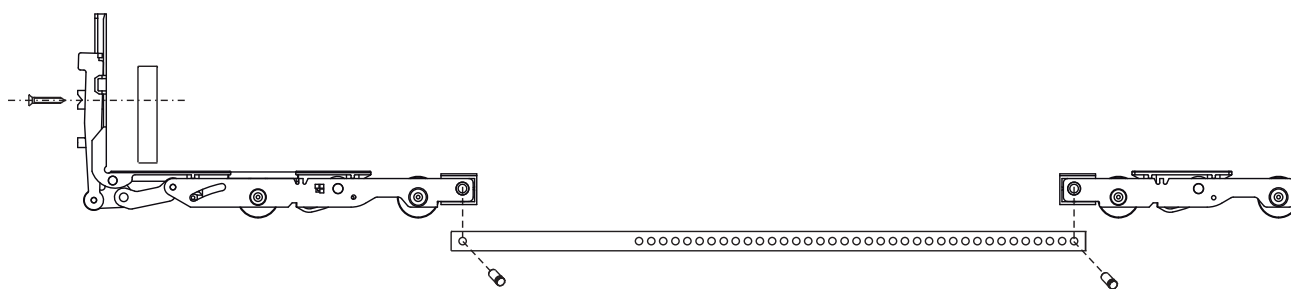


Pulleys 150/22

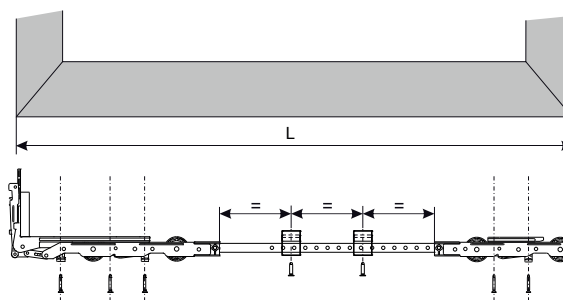
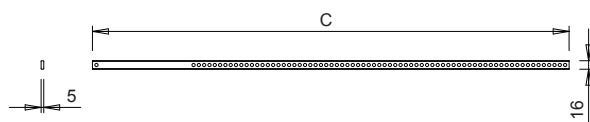




Standard assembly



Pulleys connection rod



Item code	Description	Slot width	Track height	Max sash weight	Compatible with drive gear	Compatible with window handle C/C distance (I)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07165	Pulleys 150/18 - GS3000	22 mm	42 mm	150 kg	E = 27.5 E = 37.5	80 mm	X				1
07166	Pulleys 150/22 - GS3000	22 mm	30 mm	150 kg	E = 27.5 E = 37.5	80 mm	X				1

Item code	Description	Rod length (C)	Sash width (L) (*)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07146	Pulleys connection rod 900 - GS3000	900 mm	600 - 1500 mm	X				5
07147	Pulleys connection rod 1400 - GS3000	1400 mm	1501 - 2000 mm	X				5
07148	Pulleys connection rod 1900 - GS3000	1900 mm	2001 - 2500 mm	X				5

(*) the dimensions are referred to the minimum and maximum sash width that can be constructed with the selected rod. When using additional pulleys the maximum permissible sash width is 3350 mm.

DRIVING RODS AND LOCKING POINTS GS3000 PLUS



Functions

Driving rods for GS3000 lift and slide system.
They are characterized by the nibs that engage directly on the rod.

Online data sheet



Technical features

Lift and slide casement lock for sashes from 150 to 400 kg (with additional pulleys) to select in accordance with profile width, weight and height of sash. Available in versions with 27.5 mm and 37.5 mm backset.

10 mm square pin.

Available in 6 alternative heights for each version.

Compatible with 150/300 kg pulleys and with window handles with 80 mm fixing c/c distance.

Pre-slotted front plate with up to 5 positions for combination with the locking points.

Cover extension available for all versions of drive gear, to fit to the casement in the hardware slot that the drive gear does not reach.

Allows the construction of sashes up to 3750 mm in height.

Materials

Anodised aluminium front plate

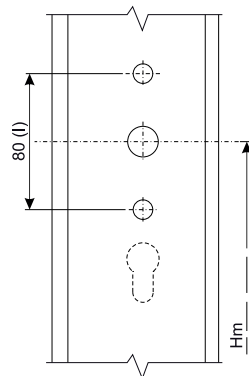
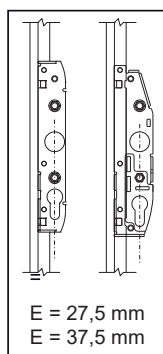
Internal sliding rod in stainless steel

Body of zinc plated steel

Internal parts in zinc plated steel and brass

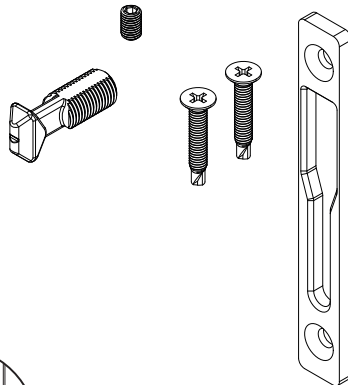
Anodised aluminium extension cover

Machining on profile



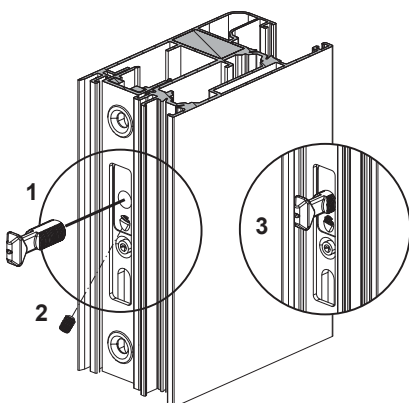
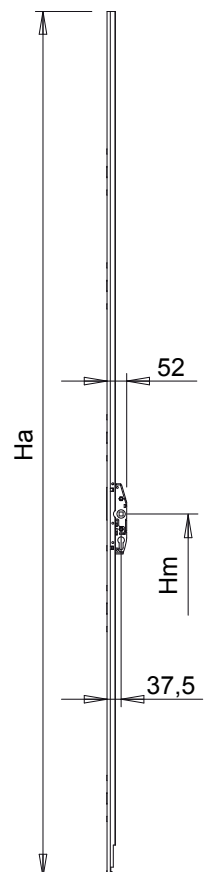
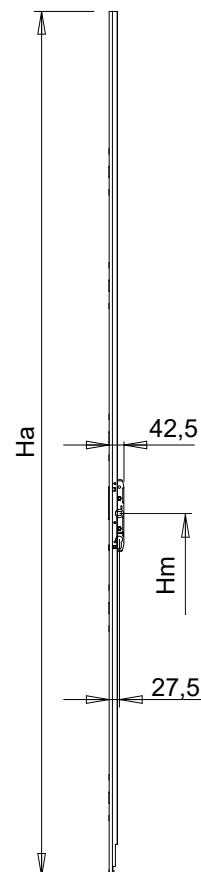
07220

07221



Drive gear with
E = 27.5 mm

Drive gear with
E = 37.5 mm



GS3000 - 150 LIFT AND SLIDE SYSTEM

Item code	Description	Backset	Drive gear height (Ha)	Window handle positions (Hm)	Compatible with pulleys	Compatible with window handle C/C distance (l)	Key	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07205	DRIVING ROD KEY GS3000 PLUS	E =37.5 mm	1680 mm	355 mm	300/22 - 150/18 - 150/22	80 mm	YES	X				1
07206	DRIVING ROD KEY GS3000 PLUS	E =37.5 mm	1880 mm	655 mm	300/22 - 150/18 - 150/22	80 mm	YES	X				1
07207	DRIVING ROD KEY GS3000 PLUS	E =37.5 mm	1980 mm	955 mm	300/22 - 150/18 - 150/22	80 mm	YES	X				1
07208	DRIVING ROD KEY GS3000 PLUS	E =37.5 mm	2280 mm	956 mm	300/22 - 150/18 - 150/22	80 mm	YES	X				1
07209	DRIVING ROD KEY GS3000 PLUS	E =37.5 mm	2580 mm	955 mm	300/22 - 150/18 - 150/22	80 mm	YES	X				1
07210	DRIVING ROD KEY GS3000 PLUS	E =37.5 mm	2980 mm	955 mm	300/22 - 150/18 - 150/22	80 mm	YES	X				1
07211	DRIVING ROD KEY GS3000 PLUS	E =27.5 mm	1680 mm	356 mm	300/22 - 150/18 - 150/22	80 mm	YES	X				1
07212	DRIVING ROD KEY GS3000 PLUS	E =27.5 mm	1880 mm	656 mm	300/22 - 150/18 - 150/22	80 mm	YES	X				1
07213	DRIVING ROD KEY GS3000 PLUS	E =27.5 mm	1980 mm	956 mm	300/22 - 150/18 - 150/22	80 mm	YES	X				1
07214	DRIVING ROD KEY GS3000 PLUS	E =27.5 mm	2280 mm	956 mm	300/22 - 150/18 - 150/22	80 mm	YES	X				1
07215	DRIVING ROD KEY GS3000 PLUS	E =27.5 mm	2580 mm	956 mm	300/22 - 150/18 - 150/22	80 mm	YES	X				1
07216	DRIVING ROD KEY GS3000 PLUS	E =27.5 mm	2980 mm	956 mm	300/22 - 150/18 - 150/22	80 mm	YES	X				1

Item code	Description	Range	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07220	NIB GS 3000 PLUS	13 - 25 mm	X				10
07221	COUNTERPLATE GS 3000 PLUS	-	X				10

DRIVING RODS AND LOCKING POINTS GS3000

Functions

Driving rods and locking points to fit to frame for GS3000 lift and slide system.

Online data sheet



Technical features

Drive gears

Lift locks for sashes from 150 to 400 kg (with additional pulleys) to select according to profile width, weight and height of sash.

Available in versions with 27.5 mm and 37.5 mm backset.

10 mm square pin.

Available in 6 alternative heights for each version.

Compatible with 150/300 kg pulleys and with window handles with 80 mm fixing c/c distance.

Pre-slotted front plate with up to 5 positions for combination with the locking points.

Cover extension available for all versions of drive gear, to fit to the casement in the hardware slot that the drive gear does not reach.

Allows the construction of sashes up to 3750 mm in height.

Locking points

Locking points to fit to frame in correspondence with the slots of the drive gear installed on the sash.

Available in several version to be selected in accordance with the profile.

When combined with the appropriate shims for the profile the locking points ensure an optimal sash / frame seal.

The number of locking points required depends on the sash height and the selected drive gear.

Materials

Drive gears

Anodised aluminium front plate

Internal sliding rod in stainless steel

Body of zinc plated steel

Internal parts in zinc plated steel and brass

Anodised aluminium extension cover

Locking points

Nickel-plated brass locking point

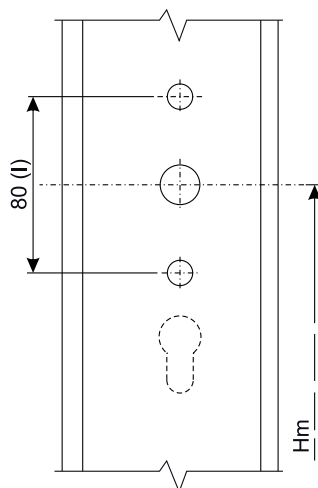
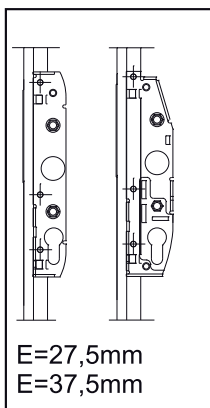
Stainless steel shims

Nylon adapter (for opposing sashes version)

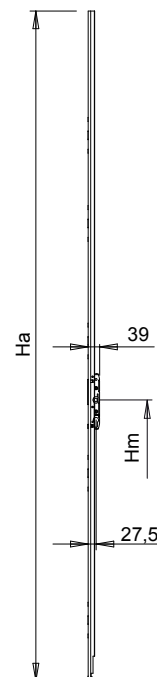
Stainless steel mounting plate (for opposing sashes version)

Stainless steel fixing screws

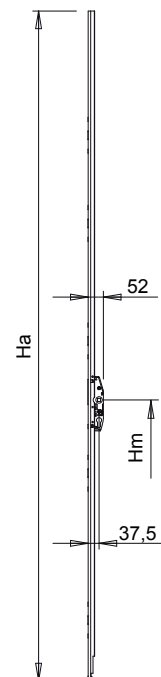
Machining on profile



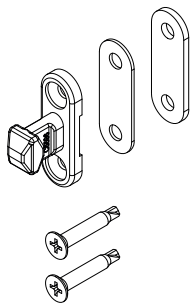
Drive gear with E = 27.5 mm



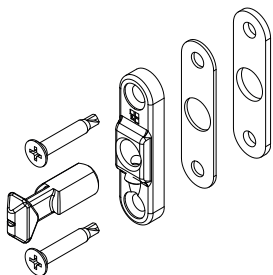
Drive gear with E = 37.5 mm



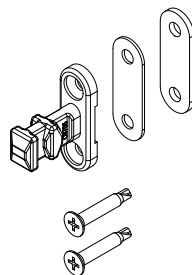
Fixed locking point



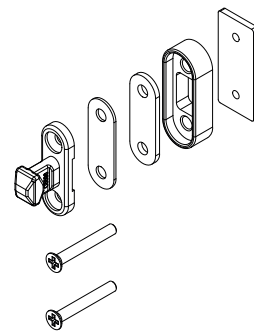
13-25 mm adjustable locking point



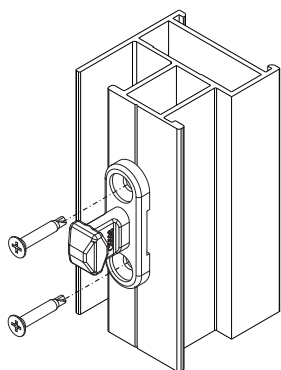
Locking point with Micro-ventilation



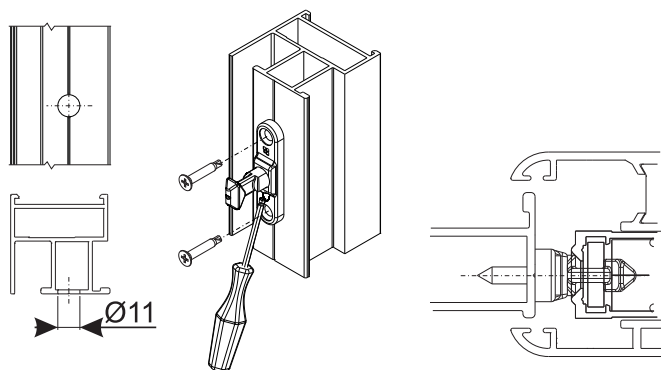
Locking point for opposing sashes



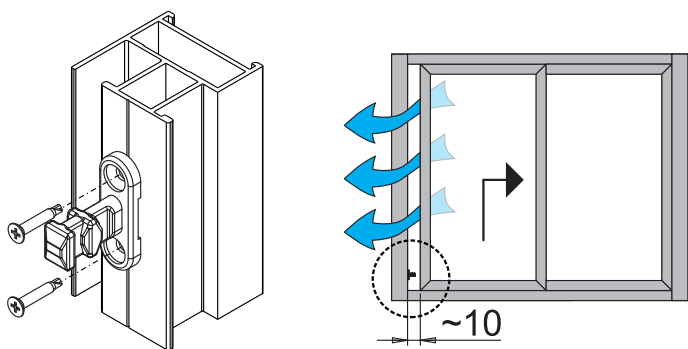
Assembly of fixed locking point



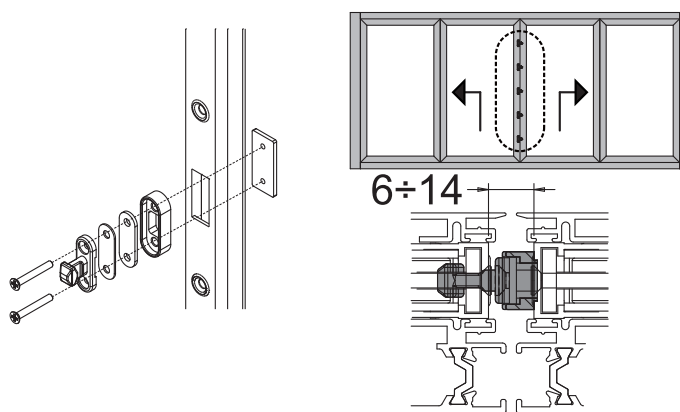
Assembly of 13-25 mm adjustable locking point



Assembly of Micro-ventilation locking point



Assembly of locking point for opposing sashes

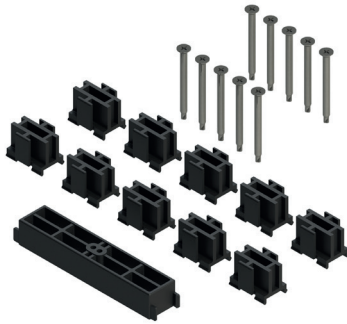


GS3000 - 150 LIFT AND SLIDE SYSTEM

Item code	Description	Backset	Drive gear height (Ha)	Window handle positions (Hm)	Compatible with pulleys	Compatible with window handle C/C distance (l)	Key	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07105	DRIVE GEAR KEY H170 E37.5-GS3000	37.5 mm	1680 mm	354 mm	300/22	80 mm	YES	X				1
07106	DRIVE GEAR KEY H190 E37.5-GS3000	37.5 mm	1880 mm	654 mm	300/22	80 mm	YES	X				1
0710701	DRIVE GEAR KEY H200 E37.5-GS3000	37.5 mm	1980 mm	954 mm	300/22	80 mm	YES	X				1
0710801	DRIVE GEAR KEY H230 E37.5-GS3000	37.5 mm	2280 mm	954 mm	300/22	80 mm	YES	X				1
0710901	DRIVE GEAR KEY H260 E37.5-GS3000	37.5 mm	2580 mm	954 mm	300/22	80 mm	YES	X				1
0711001	DRIVE GEAR KEY H300 E37.5-GS3000	37.5 mm	2980 mm	954 mm	300/22	80 mm	YES	X				1
07133	DRIVE GEAR KEY H170 E27.5-GS3000	27,5 mm	1680 mm	354 mm	300/22	80 mm	YES	X				1
07134	DRIVE GEAR H190 E27.5-GS3000	27,5 mm	1880 mm	654 mm	300/22	80 mm	YES	X				1
0713501	DRIVE GEAR KEY H200 E27.5-GS3000	27,5 mm	1980 mm	954 mm	300/22	80 mm	YES	X				1
0713601	DRIVE GEAR KEY H230 E27.5-GS3000	27,5 mm	2280 mm	954 mm	300/22	80 mm	YES	X				1
0713701	DRIVE GEAR KEY H260 E27.5-GS3000	27,5 mm	2580 mm	954 mm	300/22	80 mm	YES	X				1
0713801	DRIVE GEAR KEY H300 E27.5-GS3000	27,5 mm	2980 mm	954 mm	300/22	80 mm	YES	X				1
07161	GS3000 ROD EXTENSION COVER	-	650 mm	-	-	-	NO	X				5
07122	GS3000 WINDOW HANDLE DAMPER	-	-	-	-	-	-	X				10

Item code	Description	Range	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07149	FIXED LOCKING POINT	13 - 16 mm	X				10
07150	ADJUSTABLE LOCKING POINT	13 - 25 mm	X				10
07151	MICRO-VENTILATION LOCKING POINT	13 - 16 mm	X				10
07152	OPPOSING SASHES LOCKING POINT	13 - 16 mm	X				10

GS3000 SHIMS



Functions

Profile shims for drive gear and main pulley for GS3000 lift and slide system.

Online data sheet



Technical features

Set of adapters to combine with the drive gear and main pulley to fit the hardware in the profile groove.

Available in various sizes to be selected in accordance with the profile, drive gear and type of locking point employed.

Each set of shims consists of:

- 10 shims to install on drive gear
- 1 shim to install on main pulley
- self-threading fixing screws

Materials

Polyamide shims

Zinc plated steel self-threading screws

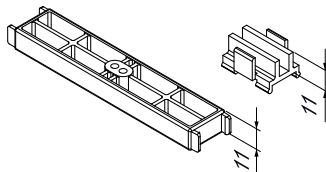
Stainless steel grub screws

Side container shims available to lodge the pulleys in a stable position inside special profile slots without any lateral containment.

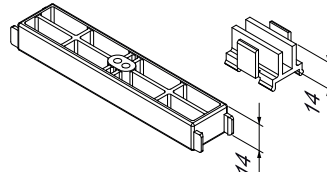
The shims are fixed to the profile using grub screws.

Shims available to combine with the fixed locking point and locking point with micro-ventilation.

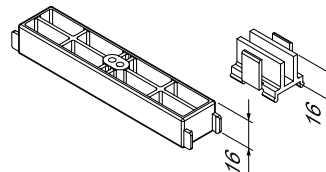
Art. 07153



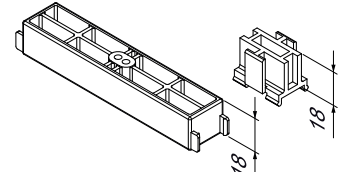
Art. 07154



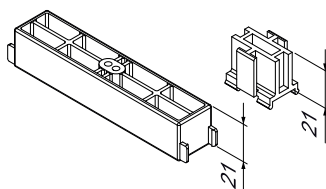
Art. 07155



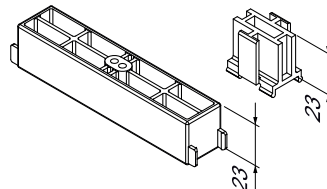
Art. 07156



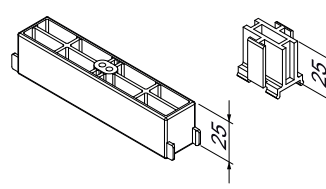
Art. 07157



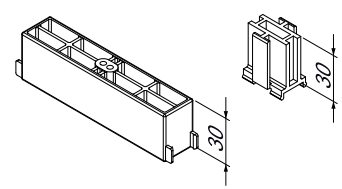
Art. 07158



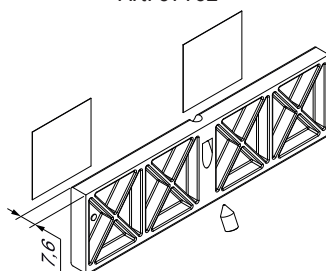
Art. 07159



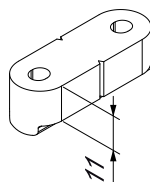
Art. 07160



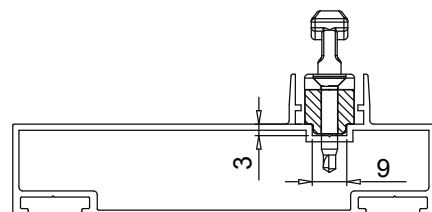
Art. 07162



Art. 07163

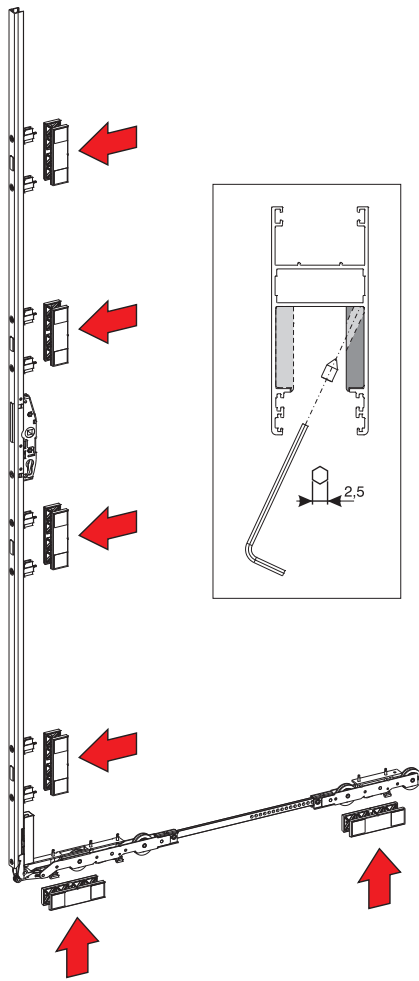


Shim fitting for locking point

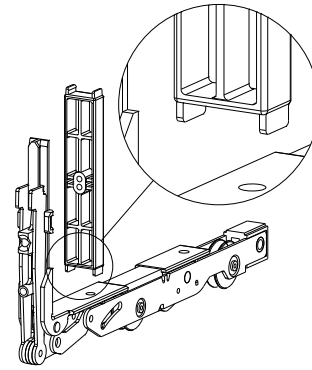


GS3000 - 150 LIFT AND SLIDE SYSTEM

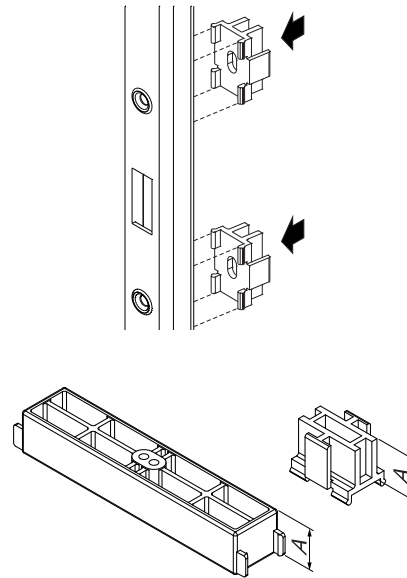
Lateral container shims assembly diagram



Assembly of main pulley shim

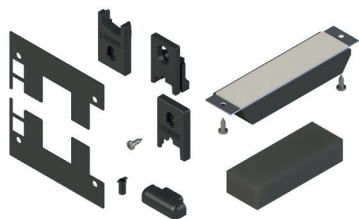


Assembly of shims to drive gear



Item code	Description	Dimension (A)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07153	SHIMS 11 FOR ROD AND PULLEY-GS3000	11 mm	X				1
07154	SHIMS 14 FOR ROD AND PULLEY-GS3000	14 mm	X				1
07155	SHIMS 16 FOR ROD AND PULLEY-GS3000	16 mm	X				1
07156	SHIMS 18 FOR ROD AND PULLEY-GS3000	18 mm	X				1
07157	SHIMS 21 FOR ROD AND PULLEY-GS3000	21 mm	X				1
07158	SHIMS 23 FOR ROD AND PULLEY-GS3000	23 mm	X				1
07159	SHIMS 25 FOR ROD AND PULLEY-GS3000	25 mm	X				1
07160	SHIMS 30 FOR ROD AND PULLEY-GS3000	30 mm	X				1
07162	PULLEY SHIM - GS3000	-	X				20
07163	SHIM FOR LOCKING POINT - GS3000	-	X				20

GS3000 MACHINING COVER CAPS



Functions

Machining cover caps for GS3000 lift and slide system.

Online data sheet



Technical features

The machining cover caps kit contains all the components required to complete a two-sash lift and slide casement:

- top dust-proof plug and lower central sponge to fit in frame, in correspondence with the central labyrinth, to restrict the circulation of dust and passage of air
- top and bottom cover caps to conceal machinings on sash central upright
- lower sealing buffers to increase seal on track
- drainage cap, to fit to the frame lower cross-beam for fast drainage of water from the frame groove to outside the room
- sealing plates to seal the joint between stile and cross-beam in frames with 90° cut
- drainage tubes to position on frame lower cross-beam

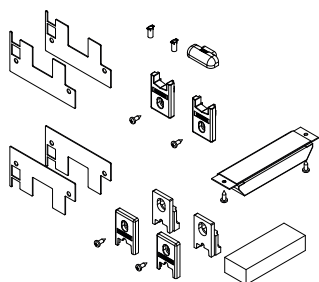
Materials

- Top dust-proof plug composed of plastic body with sponge
- Central lower sponge in expanded rubber
- Stainless steel screws
- Machining cover caps and anti-lifting plugs in fibreglass-reinforced polyamide
- Lower sealing buffers in rubber
- Cap and drainage tubes in fibreglass-reinforced polyamide
- Sealing plates in adhesive rubber
- Rubber dampers

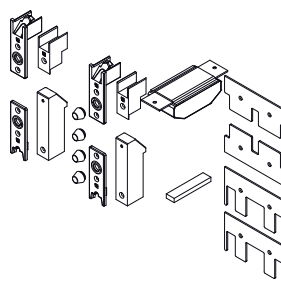
A central and anti-lifting plugs kit is also available, composed of:

- top dust-proof plug and lower central sponge to fit in frame, in correspondence with the central labyrinth, to restrict the circulation of dust and passage of air
- top and bottom machining cover caps equipped with buffers to absorb closing impact between sash and frame
- anti-lifting plug to be fitted in frame top corner. Designed to prevent sash from being removed simply by lifting it from bottom track
- anti-lifting shims to fit in correspondence with sash side stile

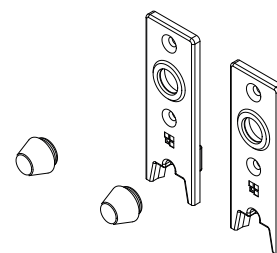
Machining cover kit for 2-sash lift and slide casement



Machining cover and anti-lifting kit



Lower machining cover caps



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07164	MACHINING COVER CAPS KIT GS3000		X				5
07967	MACHINING COVER CAPS KIT GS3000		X				5
0797701	CENTRAL ANTI-LIFTING PLUGS KIT -GS3000		X				5
07978	CENTRAL ANTI-LIFTING PLUGS KIT -GS3000		X				5

KORA WINDOW HANDLE GS3000-150

Functions

Window handle for GS3000-150 lift and slide system.

[Online data sheet](#)



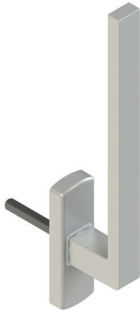
Technical features

Long window handle for lift and slide window with KORA style to construct sashes up to 150 kg.
 7/10 mm square pin.
 43 mm fixing C/C distance.
 Available in single version without key.
 Compatible with driving rods with 25 mm backset.
 Can be combined with recess handle with 43 mm C/C distance.

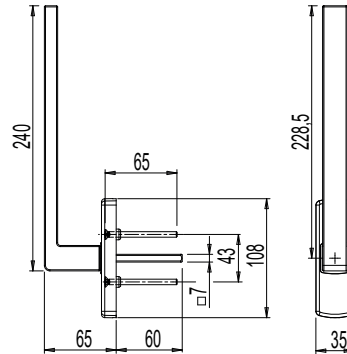
Materials

Aluminium handle and cover
 Zamak case
 Rotor made of zinc-plated steel
 Trim ring made of acetal resin
 Square pin in zinc plated steel
 Fixing screws, zinc-coated steel

KORA window handle L240 -I80



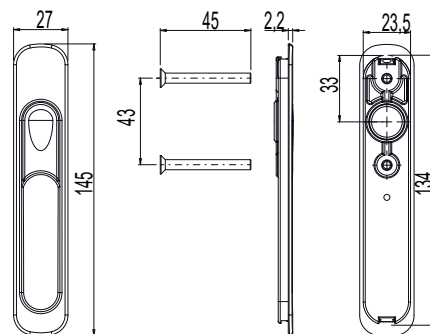
KORA window handle dimensions L240 -I80



External recess handle



External recess handle dimensions



Item code	Description	C/C distance (I)	Handle length (L)	Compatible with drive gear	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0246701	KORA WINDOW HANDLE L240-I43 GS3000	43 mm	240 mm	E = 25mm	X	X	X	X	1
02764	EXTERNAL RECESS PULL HANDLE	43 mm	-	E = 25mm	X		X	X	8

ASIA WINDOW HANDLE GS3000-150



Functions

Window handles for GS3000-150 lift and slide system.

[Online data sheet](#)



Technical features

Long window handle for lift and slide window with ASIA style to construct sashes up to 150 kg.
 7/10 mm square pin.
 43 mm fixing C/C distance.
 Available in single version without key.
 Compatible with driving rods with 25 mm backset.
 Can be combined with recess handle with 43 mm C/C distance.

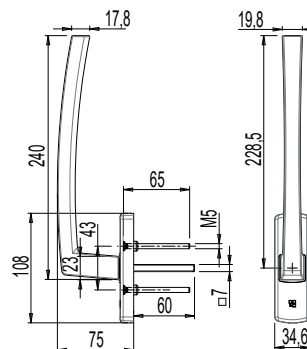
Materials

Aluminium handle and cover
 Zamak case
 Rotor made of zinc-plated steel
 Trim ring made of acetal resin
 Square pin in zinc plated steel
 Fixing screws, zinc-coated steel

ASIA window handle L240 -I43



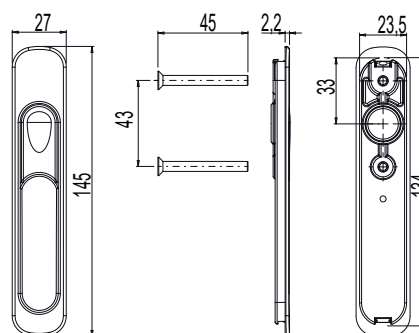
ASIA window handle dimensions L240 -I43



Recess handle



Recess handle dimensions



Item code	Description	C/C distance (I)	Handle length (L)	Compatible with drive gear	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0243201	ASIA WINDOW HANDLE L240-I43 GS3000	43 mm	240 mm	E =25 mm	X	X	X	X	1
02764	EXTERNAL RECESS PULL HANDLE	43 mm	-	E = 25mm	X		X	X	8

PRIMA WINDOW HANDLE GS3000-150

Functions

Window handles for GS3000-150 lift and slide system.

[Online data sheet](#)



Technical features

Long window handle for lift and slide window with PRIMA style to construct sashes up to 150 kg.
 7/10 mm square pin.
 43 mm fixing C/C distance.
 Available in single version without key.
 Compatible with driving rods with 25 mm backset.
 Can be combined with recess handle with 43 mm C/C distance.

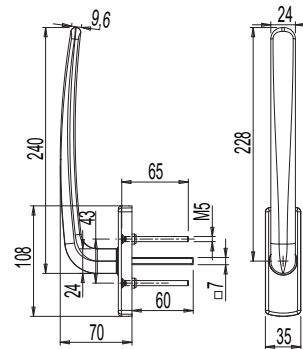
Materials

Aluminium handle and cover
 Zamak case
 Rotor made of zinc-plated steel
 Trim ring made of acetal resin
 Square pin in zinc plated steel
 Fixing screws, zinc-coated steel

PRIMA window handle L240 -I43



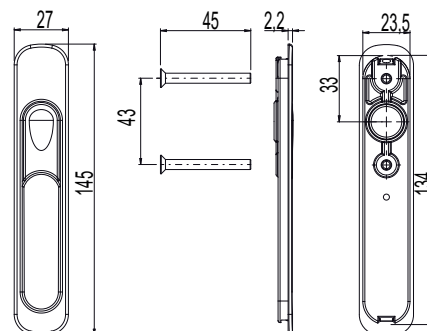
PRIMA window handle dimensions L240 -I43



External recess handle



External recess handle dimensions



Item code	Description	C/C distance (l)	Handle length (L)	Compatible with drive gear	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0243601	PRIMA WINDOW HANDLE L240-I43 GS3000	43 mm	240 mm	E = 25mm	X	X	X	X	1
02764	EXTERNAL RECESS PULL HANDLE	43 mm	-	E = 25mm	X		X	X	8

The GIESSE logo features a green square icon with a white grid pattern to the left of the brand name "GIESSE" in a bold, green, sans-serif font.The text "GS3000" is displayed in a large, white, bold, sans-serif font, positioned in the lower-left corner of the main image.

The ideal lift-and-slide solution for large sliding doors with a lowerable threshold, micro-ventilation and child-safe closure.

For sashes weighing up to 400 kg and a maximum height of 3750 mm.

Multi-point locking system that offers secure and effective closing against weather.



U0941101
10/2024

The Quanex logo consists of the word "Quanex" in a bold, green, sans-serif font, with a green leaf-like shape above the letter 'Q'. Below it, the tagline "A Part of Something Bigger™" is written in a smaller, green, sans-serif font.