

Welcome to Roto Fermax



Roto Fermax headquarters in Colombo, Paraná, Brazil.

Today a full subsidiary of the Roto Group the company was established in 1974 under the name "FERMAX" and became a reference for window and door hardware, first in the Brazilian Market and years later in South America. With the acquisition in 2013 by Roto, the company expanded its product development reach into all Latin America and more.

With a comprehensive structure in its manufacturing plant in Colombo, Brazil the unit offers lean manufacturing, state of the art surface finishing and superior delivery services for Latin America and beyond, with established international trade channels to over 20 countries.

Product development focused on mid segment hardware and Emerging Market requirements is core of this unit, and creates value to our customers in need of cost-benefit solutions. This unique setup of lean-flexibility, both in development and production, creates the opportunity for low Capex product launch, small batch sizes and money for value when needs come development and develops products with relatively low investments and batches sizes.

Among the main products you can find single point locks, handles, rollers and many other fittings required for windows and doors in the mid segment. In Roto you find excellence in windows and door hardware. At Roto Fermax you find this same excellence for hardware to the mid segment.

We hope this brochure gives you the idea of what we can do for you and that soon we receive your contact.

Our Structure

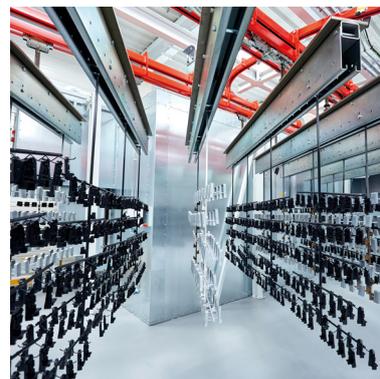
- Manufacturing and development Site in Colombo, Brazil
- World class power painting line and processes
- Warehouse with over 4000 positions and more than 7500 SKUs
- Sales and technical support
- Expanded network thru sales and/or warehouse in Roto locations in São Paulo, Buenos Aires, Mexico city and other locations worldwide



Manufacturing



Warehouse



Painting line

Outward Opening



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1. Information

1.1. General



INFO

All dimensions stated in millimeters. Other values are specified.

The following markings are used in this document.

1.1.1. Material

Symbol	Meaning
Material	
	Timber
	PVC
	Aluminium

1.1.2. Opening types

Symbol	Meaning
Material	
	Inline
	Outward Opening
	Door

1.1.3. Product features

Symbol	Meaning
	Information
	Stay Length
	Opening Angle
	Sash Height
	Sash Width
	Sash Weight
	Material Number
	Description
	Length
	DIN
	Spindle Length

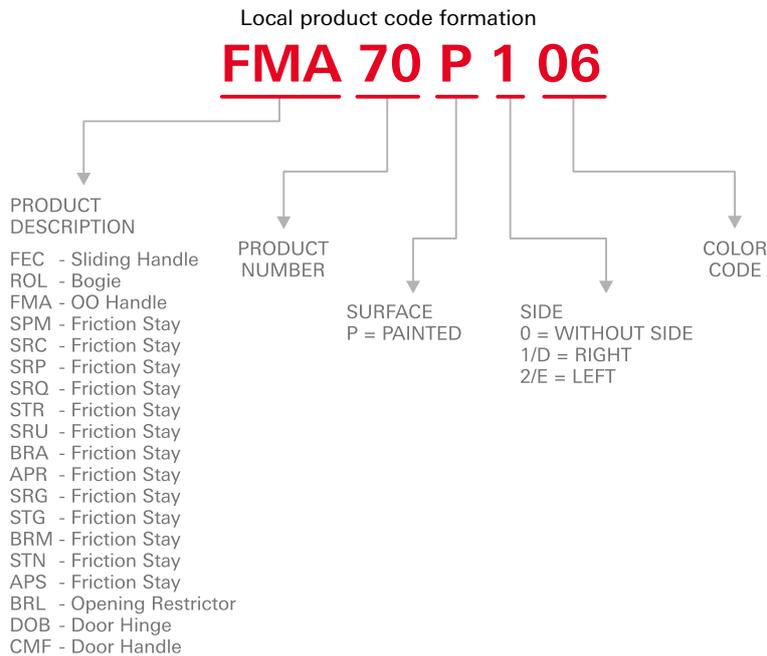


1.1.4. Colours

Colour code	Roto Fermax code	Surface	Colour	RAL number
R01.1	074	Powder coated	Natural silver	9006
R04.1	019	Powder coated	Grey brown	8019
R06.2	022	Powder coated	Jet black	9005
R07.2	061	Powder coated	Traffic white	9016
-	021	Powder coated	White	9003
-	024	Powder coated	Silver Fermax	-
-	070	Powder coated	Black varnish	-
-	068	Powder coated	Chromium	-
-	023	Powder coated	Brown Fermax	8014
-	081	Powder coated	Bronze 1001	-
-	082	Powder coated	Bronze 1002	-
-	083	Powder coated	Bronze 1003	-
-	084	Powder coated	Bronze 1004	-

NOTE: Special colors on request.

1.1.5. Local product code formation



EXAMPLES:

FMA133P121
SPM03P022

NOTE: Standard numeric Roto partnumbers available for some items. Creation upon request.



Outward Opening | Facade

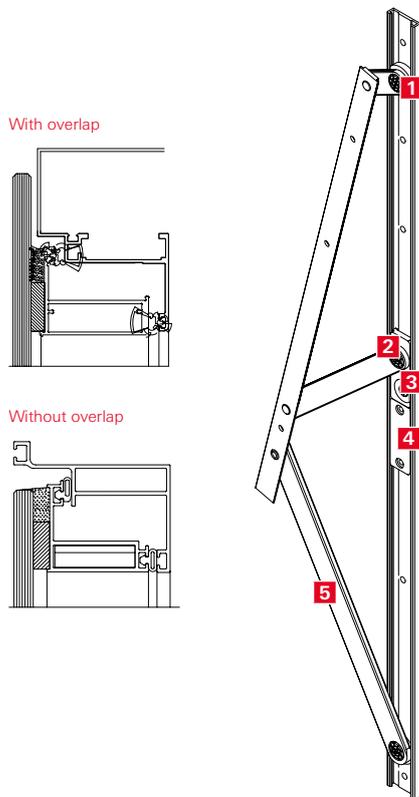


Projecting Systems
SPM-BRF

Their kinematics enables, at the same time, the lower section of the wing to be moved, with the upper section following such movement and being displaced from the frame, thus enabling opening without reversal.

■ **Characteristics**

- Can be applied in facades with box 15 and 17mm;
- Meet loads up to 100kg;
- Meet all market lines with or without overlap;
- Manufactured in duraluminum;
- Fully corrosion-resistant;
- Fastened with duraluminum rivets which avoid galvanic corrosion;
- Best cost-benefit ratio;
- Can be anodized or painted;
- Can be applied with or without opening limit switch (BRL).



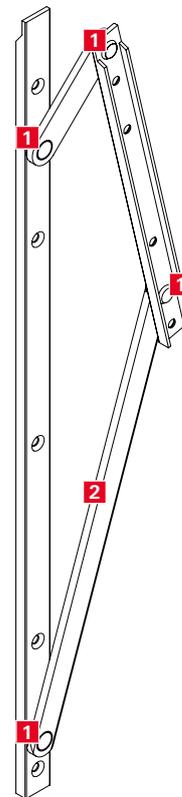
1	Aluminum rivets, protected by polyamide bushings that avoid friction between metal parts.
2	Stainless steel stiffening plate providing greater safety to assembly.
3	Braking device with numeric graduation which enables same braking on both sides.
4	Limit switch to limit opening.
5	Supporting stem without machining, such as bores or diversions thus obtaining greater resistance

Projecting Systems
STN-APS-STG-STR

Their kinematics enables, at the same time, the lower section of the wing to be moved, with the upper section following such movement and being displaced from the frame thus enabling opening without reversal.

■ **Characteristics**

- Can be applied in window frames with box from 11 to 18mm;
- Meet loads up to 17kg;
- Manufactured in duraluminum;
- Fully corrosion-resistant;
- Best cost-benefit ratio;
- Can be anodized or painted.



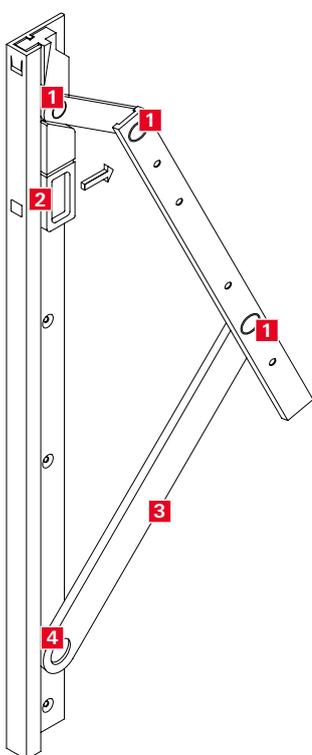
1	Aluminum rivets, protected by polyamide bushings that avoid friction between metal parts.
2	Supporting stem without machining, such as bores or diversions thus obtaining greater resistance.

Projecting Sliding Systems SRQ

Their kinematics enables, at the same time, the lower section of the wing to be moved, with the upper section following such movement and being displaced from the frame thus enabling opening without reversal.

■ Characteristics

- Can be applied in window frames with box from 14.5 to 17mm;
- Meet loads up to 34kg;
- Manufactured in duraluminum;
- Fastened with duraluminum rivets which avoid galvanic corrosion;
- Fully corrosion-resistant;
- Best cost-benefit ratio;
- Can be anodized or painted.



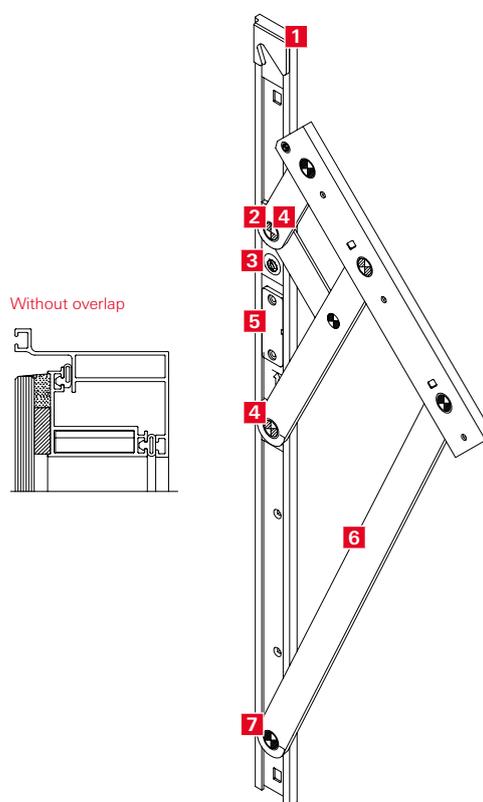
1	Aluminum rivets, protected by polyamide bushings that avoid friction between metal parts.
2	System for unlocking and opening for cleaning purposes.
3	Supporting stem without machining, such as bores or diversions thus obtaining greater resistance.
4	Aluminum rivets, protected by polyamide bushings that avoid friction between metal parts.

Progressive Systems SRP-SRC-SRG

The system uses two sliding guides, comprising a pantographic mechanism, which enables projecting the upper section of the wing to the outer side, stabilizing the up and down movements, ensuring wing stability when opened.

■ Characteristics

- Can be applied in facades with box 15 and 17mm;
- Meet loads up to 74kg;
- Meet all market lines without overlap;
- Manufactured in duraluminum;
- Fully corrosion-resistant;
- Fastened with duraluminum rivets which avoid galvanic corrosion;
- Best cost-benefit ratio;
- Can be anodized or painted;
- Can be applied with or without opening limit switch (BRL).



1	Locking pointer prevents wing displacement when closed, providing perfect sealing.
2	Stainless steel stiffening plate providing greater safety to assembly.
3	Braking device with numeric graduation which enables same braking on both sides.
4	Sliding guides that move progressively providing: <ul style="list-style-type: none"> - Wing projection to the outer side; - Secure assembly; - Wing stability when projected; - Stability upon opening and closing movements.
5	Limit switch to limit opening.
6	Supporting stem without machining, such as bores or diversions thus obtaining greater resistance.
7	Aluminum rivets, protected by polyamide bushings that avoid friction between metal parts.

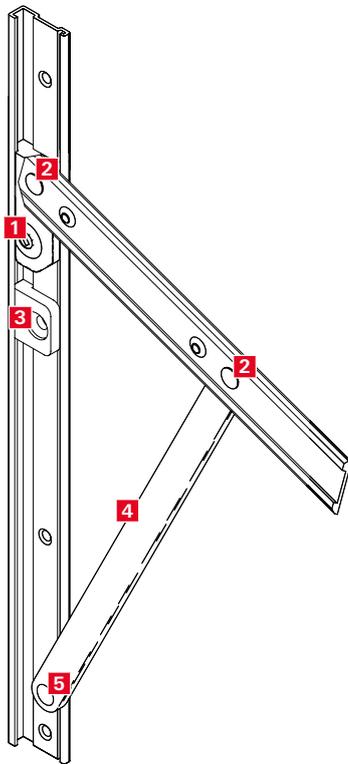
Sliding Systems

BRA-SRU-BRM

Their kinematics enables vertical displacement in parallel to the frame and reversal

■ Characteristics

- Can be applied in window frames with box 12 to 13 mm;
- Meet loads up to 32kg;
- Manufactured in duraluminum;
- Fully corrosion-resistant;
- Fastened with duraluminum rivets which avoid galvanic corrosion;
- Best cost-benefit ratio;
- Can be anodized or painted;
- Can be applied with or without opening limit switch (BRL).



1	Braking device with numeric graduation which enables same braking on both sides.
2	Aluminum rivets, protected by polyamide bushings that avoid friction between metal parts.
3	Limit switch to limit opening
4	Supporting stem without machining, such as bores or diversions thus obtaining greater resistance.
5	Aluminum rivets, protected by polyamide bushings that avoid friction between metal parts.



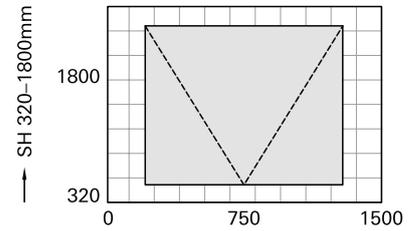
SPM
Sliding Friction Stay



■ **Application range**

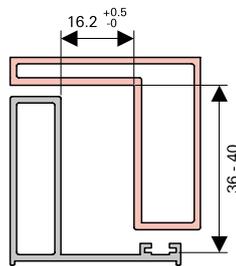
SW Sash width.....max. 1500mm
 SH Sash height.....320 - 1800 mm
 S.kg Sash weight.....max. 100 kg

NOTE: Only friction stay model suitable for facades with Overlap Glazing System.

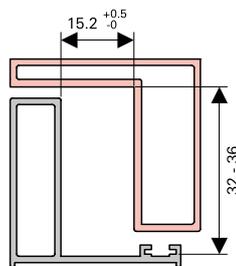


→ SW max.1500mm

■ **Required sash, frame and clearance dimensions**



290mm	15°	500mm	1200mm	32kg	SPM01
450mm	15°	800mm	1500mm	42kg	SPM02
695mm	15°	1800mm	1500mm	100kg	SPM03



290mm	15°	500mm	1000mm	20kg	SPM04
450mm	15°	800mm	1200mm	32kg	SPM05
695mm	15°	1500mm	1500mm	60kg	SPM06

■ **Composition**

Aluminium structure
 Nylon guides and sleeves
 Aluminium union rivets

■ **Fastening**

Stainless steel fixing screws - Ø 4,8 x 13 mm

■ **Packaging**

1 pair of aluminium friction stay (L/R) plus fastening screws

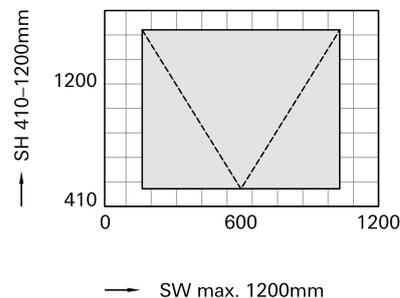
STR

Projecting Friction Stay

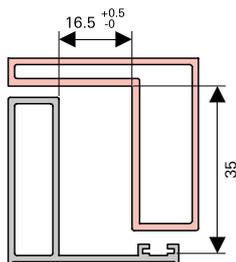


■ **Application range**

SW Sash width.....max. 1200mm
 SH Sash height.....410 - 1200 mm
 S.kg Sash weight.....max. 34 kg



■ **Required sash, frame and clearance dimensions**



400mm	45°	600mm	1200mm	24kg	STR04
600mm	45°	1000mm	1200mm	30kg	STR05
950mm	45°	1200mm	1200mm	34kg	STR06

■ **Composition**

Aluminium structure
 Nylon guides and sleeves
 Aluminium union rivets

■ **Fastening**

Optional aluminium fixing rivets - Ø 4,8 x 10,2 mm
 Optional stainless steel fixing screws - Ø 4,2 x 16 mm

■ **Packaging**

1 pair of aluminium friction stay (L/R) plus fastening (screws or rivets)

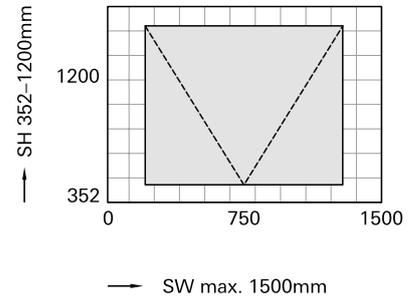


SRC
Progressive Friction Stay

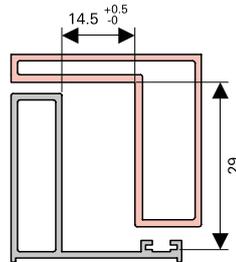


■ **Application range**

SW Sash width.....max. 1500mm
 SH Sash height.....352 - 1200 mm
 S.kg Sash weight.....max. 45 kg

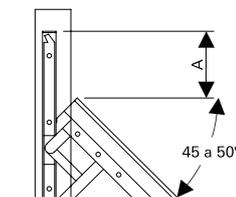


■ **Required sash, frame and clearance dimensions**



342mm	45 à 50°	600mm	1500mm	22kg	SRC01
600mm	45 à 50°	1000mm	1500mm	35kg	SRC02*
951mm	45 à 50°	1200mm	1500mm	45kg	SRC03*

*Accompanying opening restrictor.



Material N°	A
SRC01	80mm
SRC02	150mm
SRC03	230mm

■ **Composition**

Aluminium structure
 Nylon guides and sleeves
 Aluminium union rivets
 Nylon limiter (SRC02 / 03)

■ **Fastening**

Optional aluminium fixing rivets - Ø 4,8 x 10,2 mm
 Optional stainless steel fixing screws - Ø 4,2 x 16 mm

■ **Packaging**

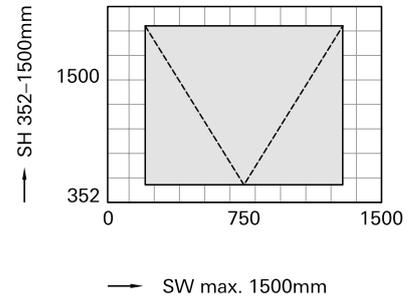
1 pair of aluminium friction stay (L/R) plus fastening (screws or rivets)

SRP
Progressive Friction Stay

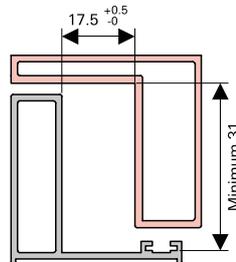


■ **Application range**

SW Sash width.....max. 1500mm
 SH Sash height.....352 - 1500 mm
 S.kg Sash weight.....max. 74 kg

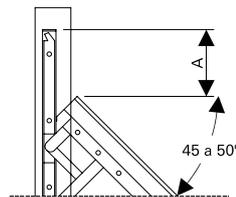


■ **Required sash, frame and clearance dimensions**



					N°
342mm	45 à 50°	600mm	1500mm	22kg	SRP01
600mm	45 à 50°	1000mm	1500mm	35kg	SRP02
951mm	45 à 50°	1200mm	1500mm	42kg	SRP03*
1200mm	45 à 50°	1500mm	1500mm	74kg	SRP04*

*Accompanying opening restrictor.



Material N°	A
SRP01	80mm
SRP02	150mm
SRP03	230mm
SRP04	50mm

■ **Composition**

Aluminium structure
 Nylon guides and sleeves
 Aluminium union rivets
 Nylon limiter (SRP02 / 03 / 04)

■ **Fastening**

Optional aluminium fixing rivets - Ø 4,8 x 10,2 mm
 Optional stainless steel fixing screws - Ø 4,2 x 16 mm (SRP01 / 02 / 03 / 04)

■ **Packaging**

1 pair of aluminium friction stay (L/R) plus fastening (screws or rivets)

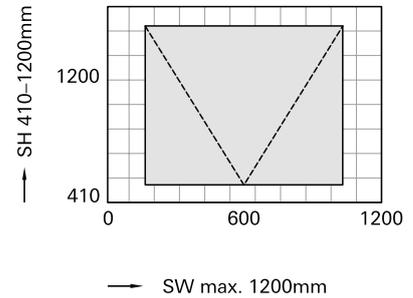


SRQ
Projecting Sliding Friction Stay

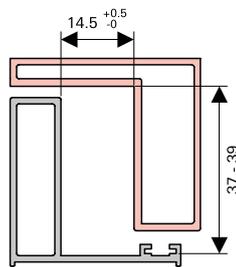


■ **Application range**

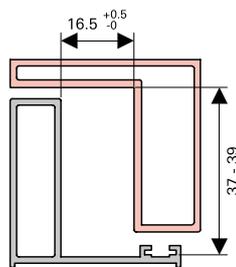
SW Sash width.....max. 1200mm
 SH Sash height.....410 - 1200 mm
 S.kg Sash weight.....max. 34 kg



■ **Required sash, frame and clearance dimensions**



					N°
400mm	90°	600mm	1200mm	24kg	SRQ01
600mm	90°	1000mm	1200mm	30kg	SRQ02
950mm	90°	1200mm	1200mm	34kg	SRQ03



					N°
400mm	90°	600mm	1200mm	24kg	SRQ10
600mm	90°	1000mm	1200mm	30kg	SRQ11
950mm	90°	1200mm	1200mm	34kg	SRQ12

■ **Composition**

Aluminium structure
 Nylon guides and sleeves
 Aluminium union rivets

■ **Fastening**

Optional aluminium fixing rivets - Ø 4,8 x 10,2 mm
 Optional stainless steel fixing screws - Ø 4,2 x 16 mm

■ **Packaging**

1 pair of aluminium friction stay (L/R) plus fastening (screws or rivets)

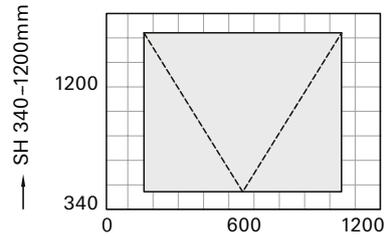
Outward Opening
Friction Stay
 Euro groove

Friction Stay
 Friction stay for euro groove



■ **Application**

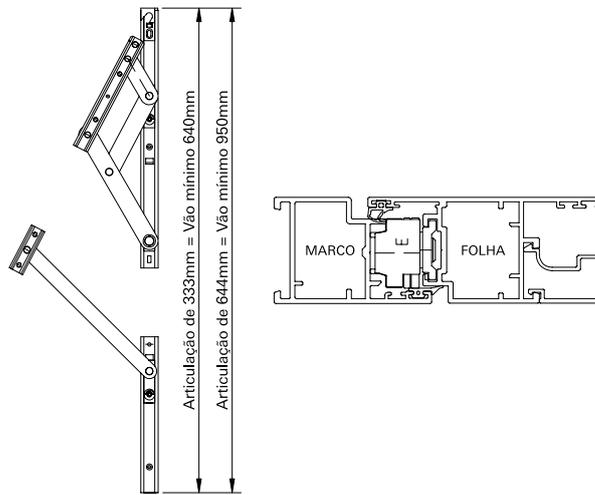
SW Widthmax. 1200mm
 SH Height340 - 1200mm
 S.kg Weightmax. 45kg



→ SW max.-1200mm

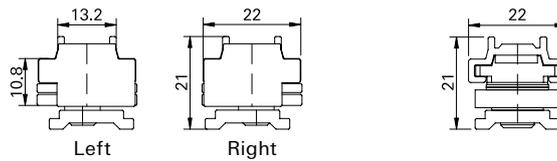


■ **Required sash, frame and clearance dimensions**



■ **Friction Stay**

■ **Opening restrictor**



333mm	45° à 50°	650mm	1200mm	22kg	2041229
644mm	45° à 50°	1200mm	1200mm	45kg	2041231
644mm	45° à 50°	1200mm	1200mm	45kg	2041233
333mm	45° à 50°	650mm	1200mm	22kg	2041230
644mm	45° à 50°	1200mm	1200mm	45kg	2041232
644mm	45° à 50°	1200mm	1200mm	45kg	2041234
333mm	45° à 50°	650mm	1200mm	22kg	2046499
644mm	45° à 50°	1200mm	1200mm	45kg	2046500
644mm	45° à 50°	1200mm	1200mm	45kg	2046501

■ **Composition**

Aluminium
 Nylon

■ **Fastening**

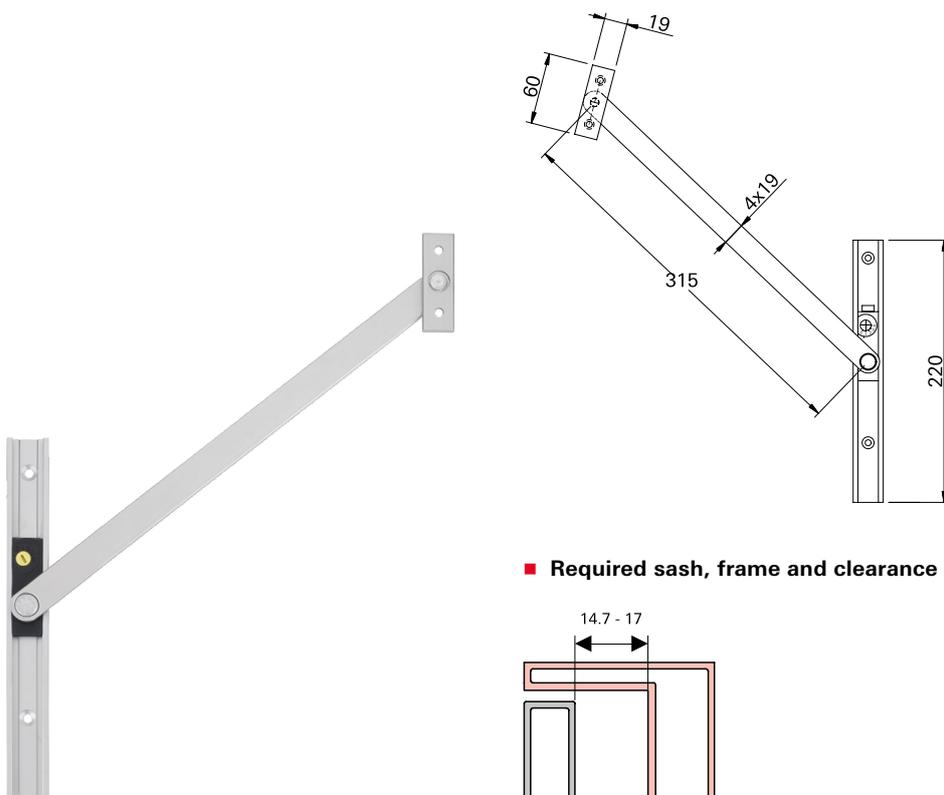
Optional aluminum fastening rivets - Ø 4,8 x 10,2 mm
 Optional stainless steel fixing screws - Ø 4,2 x 16 mm

■ **Packaging**

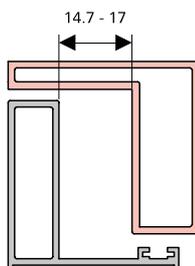
1 pair of aluminum friction stay (L/R) plus fastening (screws or rivets)



BRL04
Opening Restrictor - aluminium



■ Required sash, frame and clearance dimensions



	N ^o
Aluminium opening restrictor	BRL04

■ **Composition**

Aluminium structure
Nylon guides and sleeves
Aluminium union rivets

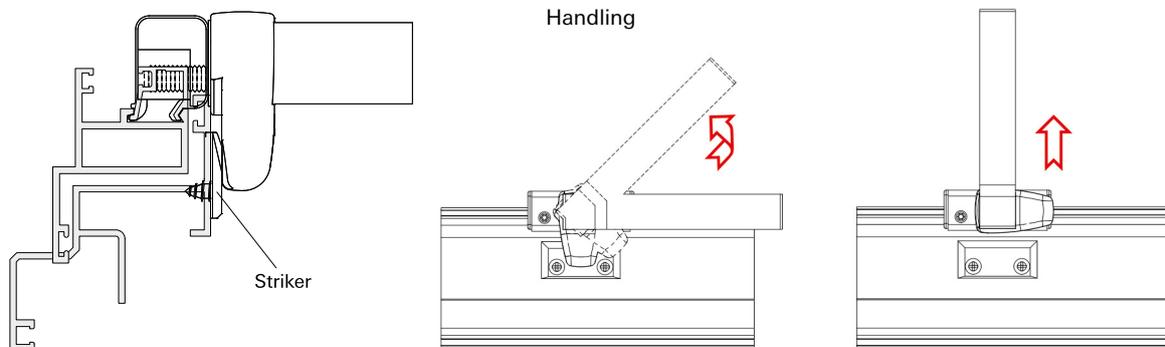
■ **Fastening**

Optional aluminium fixing rivets - Ø 4,8 x 10,2 mm
Optional stainless steel fixing screws - Ø 4,2 x 16 mm

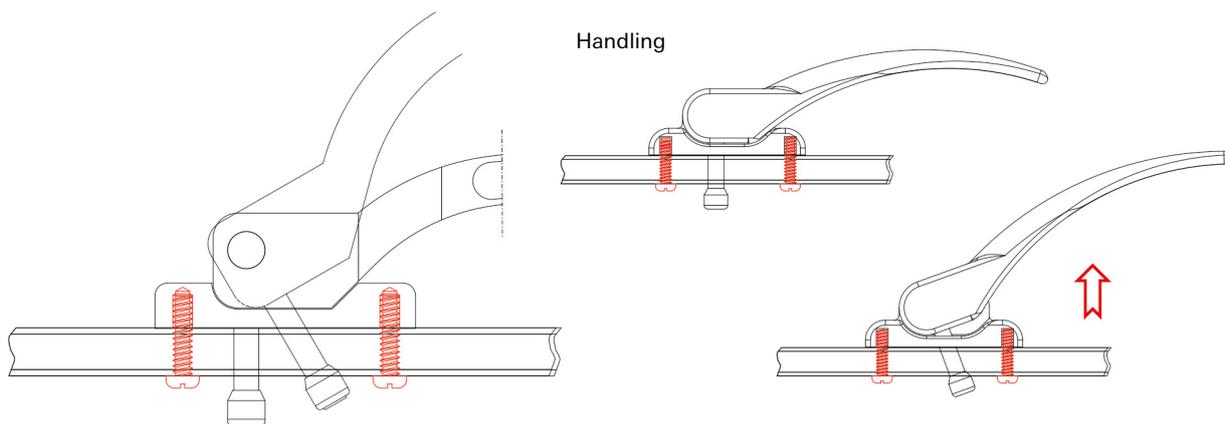
■ **Packaging**

1 pair of aluminium friction stay (L/R) plus fastening (screws or rivets)

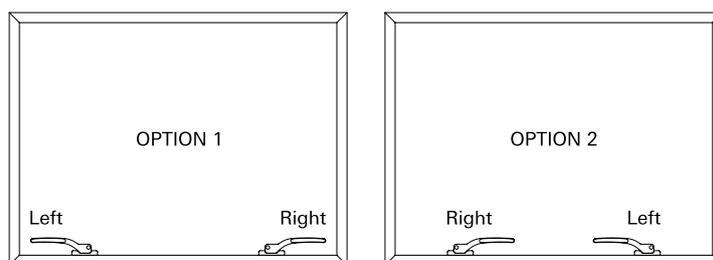
Window Handles Types
Front Handles



Overlap Handles

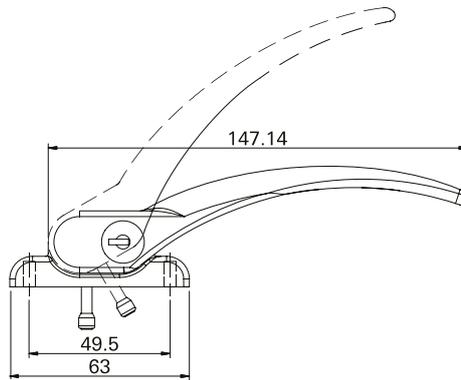


ATTENTION!
 For sashes over one meter wide, it's recommended to use two handles, one right and one left.
 There are two installation variants for using the handles on the same sash.
 See illustration:





FMA133 | FMA134
OO Handle - Armoni



			N°
Handle without lock	147,14mm	left/right	FMA133
Lockable handle	147,14mm	left/right	FMA134

	N°
21,5mm	PIN22
24mm	PIN24
28mm	PIN28

NOTE: The height of the locking cam is determined by the profile to be used.

■ **Composition FMA133**

Aluminium base and handle
 Trims, spacer, chock and nylon striker
 Stainless steel shaft and lock washer

■ **Fastening**

Lock stainless steel screws - 3/16 "x 3/4"
 Striker stainless steel screws - 3,9 x 22 mm

■ **Packaging**

1 handle plus fastening screws and complements

■ **Composition FMA134**

Aluminium base and handle
 Trims, spacer, chock and nylon striker
 Stainless steel shaft and lock washer
 Chrome cylinder and key

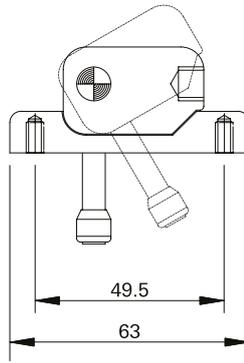
■ **Fastening**

Lock stainless steel screws - 3/16 "x 3/4"
 Striker stainless steel screws - 3,9 x 22 mm

■ **Packaging**

1 handle
 1 key plus fastening screws and complements

FMA68
OO Handle - Overlap



	N ^o
Handle without cable	FMA68
Adjustment key for FMA68	CHA01

	N ^o
21,5mm	PIN22
24mm	PIN24
28mm	PIN28

NOTE: The height of the locking cam is determined by the profile to be used.

■ **Composition**

Aluminium base and handle without knob
 Trims, spacer, wedge and nylon striker
 Stainless steel shaft and lock washer

■ **Fastening**

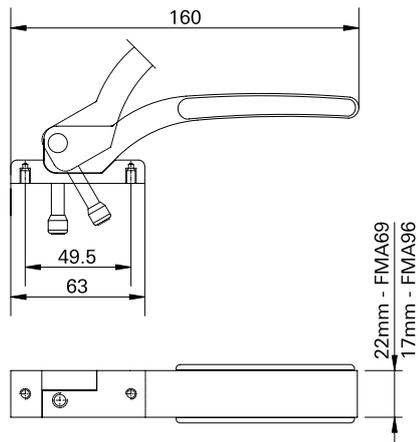
Lock stainless steel screws - 3/16 "x 3/4"
 Striker stainless steel screws - 3,9 x 22 mm

■ **Packaging**

1 handle plus fastening screws and complements



FMA69 | FMA96
OO Handle - Overlap



				Nº
Large OO handle - with tailpiece	147,3mm	left/right	FMA69	
Slim OO handle - with tailpiece	147,3mm	left/right	FMA96	

		Nº
21,5mm	PIN22	
24mm	PIN24	
28mm	PIN28	

NOTE: The height of the locking cam is determined by the profile to be used.

■ **Composition FMA69**

Aluminium base and handle
Trims, spacer, wedge and nylon striker
Stainless steel shaft and lock washer

■ **Fastening**

Lock stainless steel screws - 3/16 "x 3/4"
Striker stainless steel screws - 3,9 x 22 mm

■ **Packaging**

1 handle plus fastening screws and complements

■ **Composition FMA96**

Aluminium base and handle
Trims, spacer, wedge and nylon striker
Stainless steel shaft and lock washer

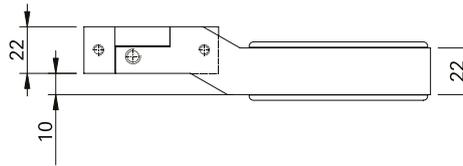
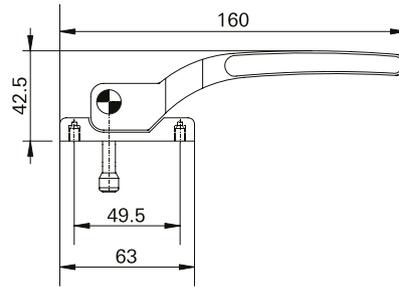
■ **Fastening**

Lock stainless steel screws - 3/16 "x 3/4"
Striker stainless steel screws - 3,9 x 22 mm

■ **Packaging**

1 handle plus fastening screws and complements

FMA73
OO Handle - Overlap



			N ^o
Large OO handle - with tailpiece	160mm	left/right	FMA73

	N ^o
21,5mm	PIN22
24mm	PIN24
28mm	PIN28

NOTE: The height of the locking cam is determined by the profile to be used.

■ **Composition**

Aluminium base and handle
 Trims, spacer, wedge and nylon striker
 Stainless steel shaft and lock washer

■ **Fastening**

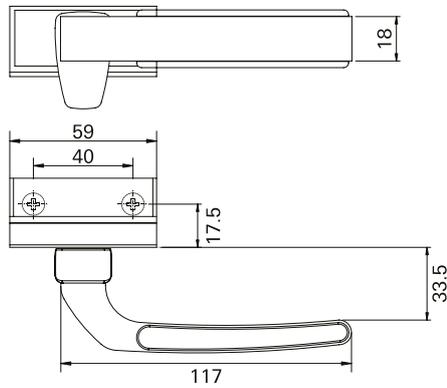
Lock stainless steel screws - 3/16 "x 3/4"
 Striker stainless steel screws - 3,9 x 22 mm

■ **Packaging**

1 handle plus fastening screws and complements



FMA03
 OO Handle - Front



		N ^o
OO handle - without key	117mm	FMA03

Armoni design optional, page 88.

■ **Composition**

Aluminum base, handle and sleeves
 Tab, washer, trims and nylon striker

■ **Fastening**

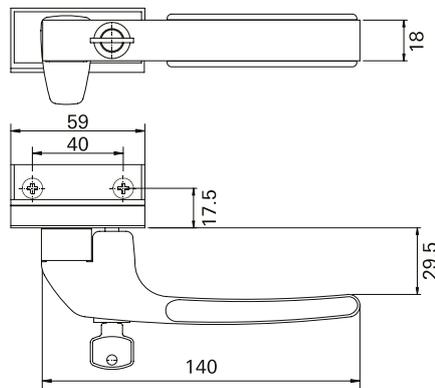
Lock stainless steel screws - M5 x 25 mm
 Striker stainless steel screws - 4,2 x 8 mm

■ **Packaging**

1 handle plus fastening screws and complements

FMA82N

OO Handle - Front



		N ^o
OO handle - with key	140mm	FMA82N

■ **Composition**

Aluminum base, handle and sleeves
 Tab, washer, trims and nylon striker
 Chrome cylinder and key

■ **Fastening**

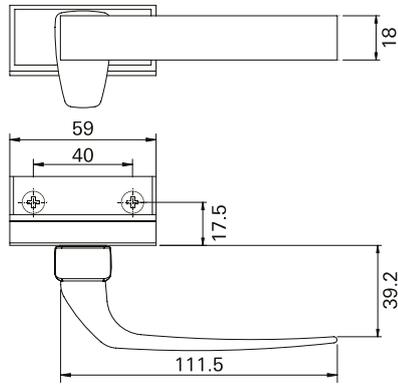
Lock stainless steel screws - M5 x 25 mm
 Striker stainless steel screws - 4,2 x 8 mm

■ **Packaging**

1 handle; 1 key plus fastening screws and complements



FMA62
 OO Handle - Front



		N ^o
OO handle - without key	111,5mm	FMA62

Armoni design optional, page 88.

■ **Composition**

Aluminum base, handle and sleeves
 Tab, washer, trims and nylon striker

■ **Fastening**

Lock stainless steel screws - M5 x 25 mm
 Striker stainless steel screws - 4,2 x 8 mm

■ **Packaging**

1 handle plus fastening screws and complements



Outward Opening



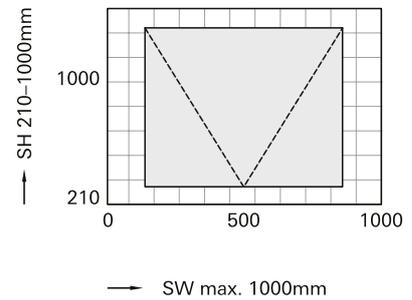


SRU
Sliding Friction Stay

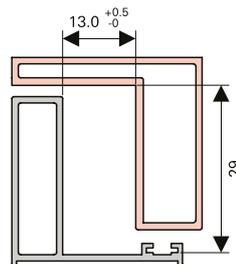


■ **Application range**

SW Sash width.....max. 1000mm
 SH Sash height.....210 - 1000mm
 S.kg Sash weight.....max. 10,8kg



■ **Required sash, frame and clearance dimensions**



250mm	90°	320mm	1000mm	6,4kg	SRU01
320mm	90°	400mm	1000mm	7,5kg	SRU02
400mm	90°	600mm	1000mm	8,7kg	SRU03
600mm	90°	1000mm	1000mm	10,8kg	SRU04
200mm	90°	260mm	1000mm	6,4kg	SRU05

■ **Composition**

Aluminium structure
 Nylon guides and sleeves
 Aluminium union rivets

■ **Fastening**

Optional aluminium fixing rivets - Ø 4,0 x 10,2 mm
 Optional stainless steel fixing screws - Ø 3,9 x 19 mm

■ **Packaging**

1 pair of aluminium friction stay (L/R) plus fastening (screws or rivets)

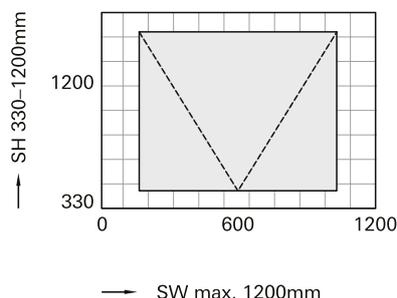
BRA

Sliding Friction Stay

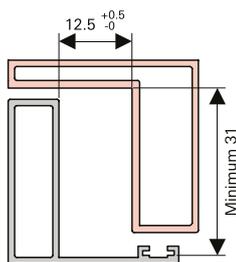


■ **Application range**

SW Sash width.....max. 1200mm
 SH Sash height.....330 - 1200mm
 S.kg Sash weight.....max. 32kg



■ **Required sash, frame and clearance dimensions**



320mm	90°	400mm	1200mm	12kg	BRA01
400mm	90°	650mm	1200mm	20kg	BRA02
650mm	90°	900mm	1200mm	27kg	BRA03
900mm	90°	1200mm	1200mm	32kg	BRA04*

*Accompanying opening restrictor.

■ **Composition**

Aluminium structure
 Nylon guides and sleeves
 Aluminium union rivets

■ **Fastening**

Optional aluminium fixing rivets - Ø 4,8 x 10,2 mm
 Optional stainless steel fixing screws - Ø 4,2 x 16 mm

■ **Packaging**

1 pair of aluminium friction stay (L/R) plus fastening (screws or rivets)

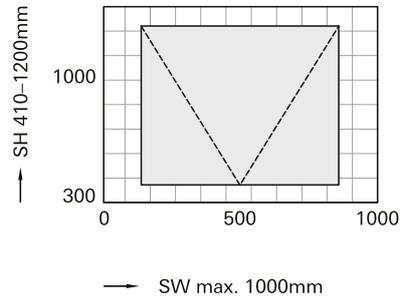


STN
Projecting Friction Stay

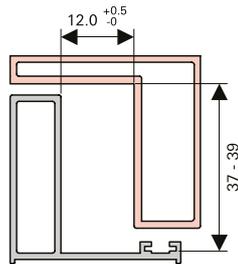


■ **Application range**

SW Sash width.....max. 1000mm
 SH Sash height.....300 - 1000mm
 S.kg Sash weight.....max. 17kg



■ **Required sash, frame and clearance dimensions**



290mm	25°	450mm	1000mm	10kg	STN01
440mm	25°	650mm	1000mm	14kg	STN02
635mm	25°	1000mm	1000mm	17kg	STN03

■ **Composition**

Aluminium structure
 Nylon guides and sleeves
 Aluminium union rivets

■ **Fastening**

Optional aluminium fixing rivets - Ø 4,0 x 10,2 mm
 Optional stainless steel fixing screws - Ø 3,9 x 16 mm

■ **Packaging**

1 pair of aluminium friction stay (L/R) plus fastening (screws or rivets)

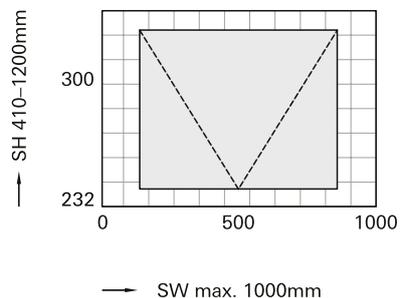
STG

Projecting Friction Stay

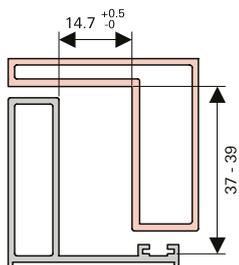


■ **Application range**

SW Sash width.....max. 1000mm
 SH Sash height.....232 - 350mm
 S.kg Sash weight.....max. 6kg



■ **Required sash, frame and clearance dimensions**



220mm	30°	350mm	1000mm	6kg	STG01

■ **Composition**

Aluminium structure
 Nylon guides and sleeves
 Aluminium union rivets

■ **Fastening**

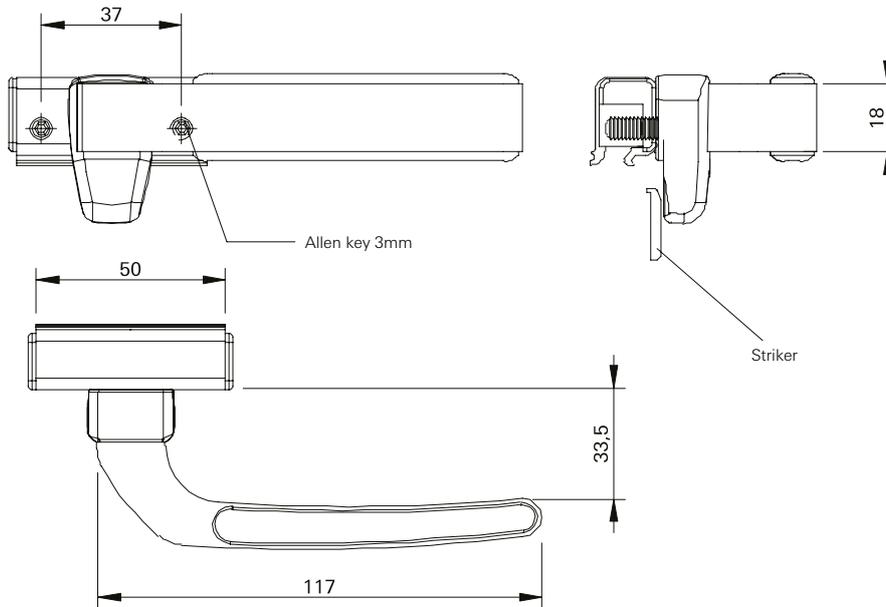
Optional aluminium fixing rivets - Ø 4,0 x 10,2 mm
 Optional stainless steel fixing screws - Ø 4,2 x 16 mm

■ **Packaging**

1 pair of aluminium friction stay (L/R) plus fastening (screws or rivets)



FMA01
OO Handle - Front Fixing

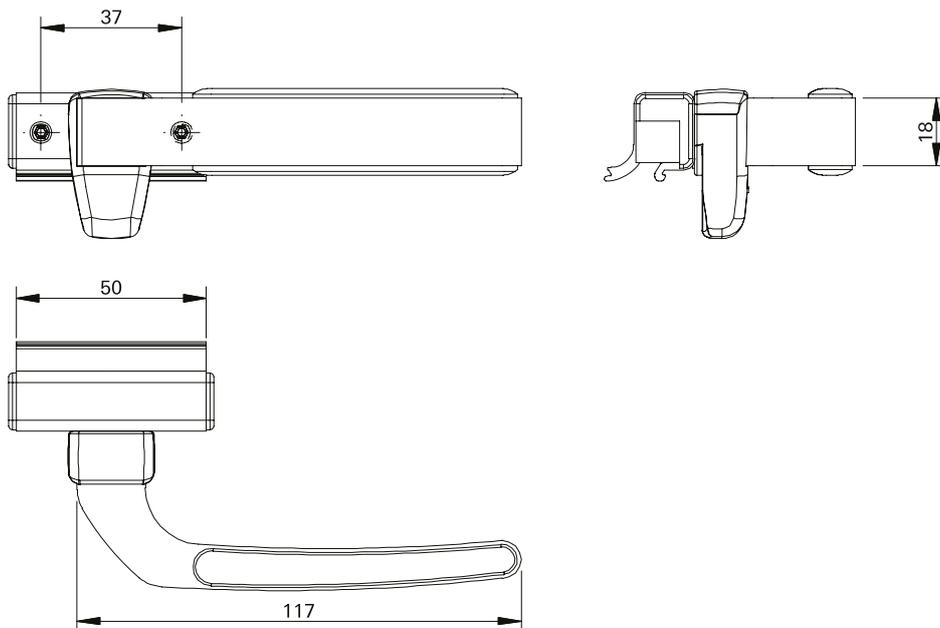


Saturno OO Handle	117mm	-	Left/Right	FMA01

Armoni design optional, page 88.

- **Composition**
 Base and handle: aluminium
 Trims and spur: nylon
- **Fastening**
 Stainless steel screws M6 x 14
- **Packaging**
 1 handle (L or R) plus fastening screws

FMA02
OO Handle - Front Fixing



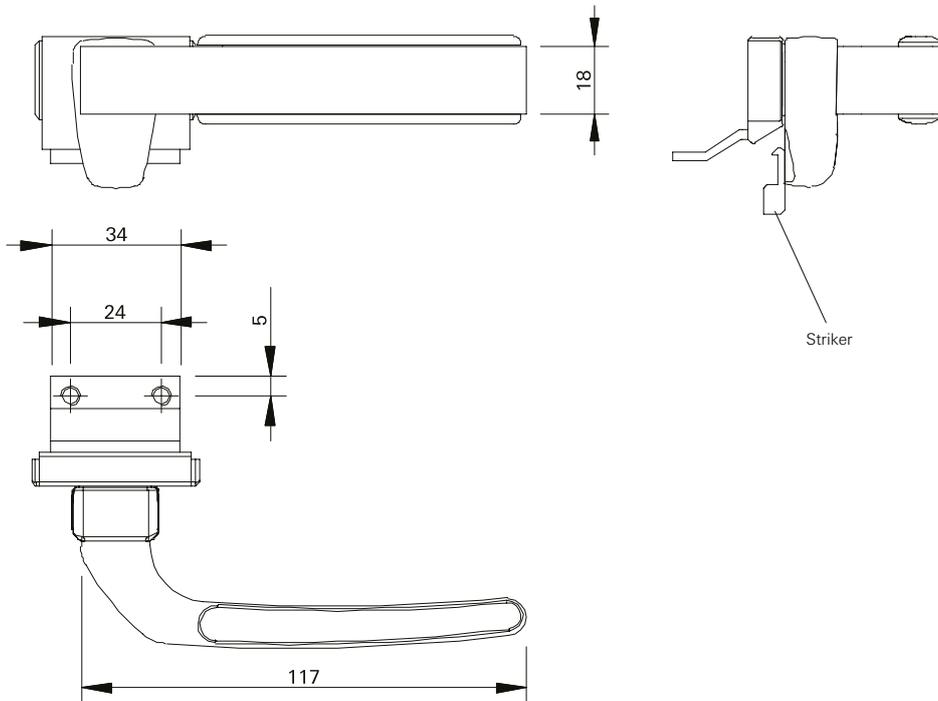
				N°
Saturno OO Handle	117mm	-	Left/Right	FMA02

Armoni design optional, page 88.

- **Composition**
 Base and handle: aluminium
 Trims and spur: nylon
- **Fastening**
 Stainless steel screws M6 x 14
- **Packaging**
 1 handle (L or R) plus fastening screws



FMA05
OO Handle - Inside Fixing

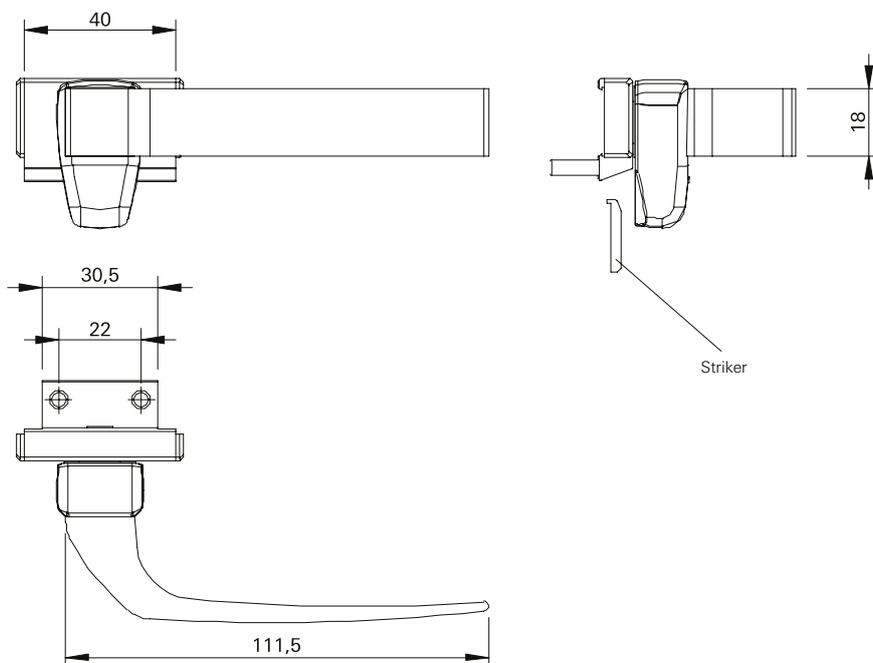


				N°
Saturno OO Handle	117mm	-	Left/Right	FMA05

Armoni design optional, page 88.

- **Composition**
 Base and handle: aluminium
 Trims and spur: nylon
- **Fastening**
 Stainless steel screws M5 x 12
- **Packaging**
 1 handle (L or R) plus fastening screws

FMA16
OO Handle - Inside Fixing



Maxi OO Handle	111,5mm	-	Left/Right	FMA16

Armoni design optional, page 88.

■ **Composition**

Base and handle: aluminium
 Trims and spur: nylon

■ **Fastening**

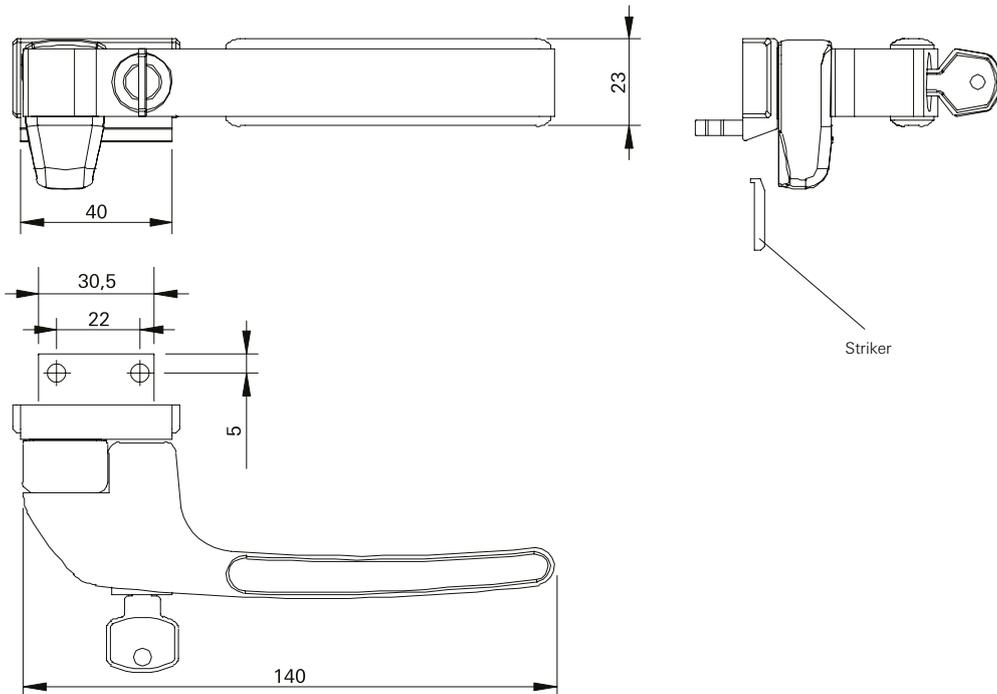
Stainless steel screws M5 x 18

■ **Packaging**

1 handle (L or R) plus fastening screws



FMA26N
OO Handle - Inside Fixing



				N°
Saturno OO Handle	140mm	✓	Left/Right	FMA26N

■ **Composition**

Base and handle: aluminium
 Trims and spur: nylon
 Cylinder zamak; chrome key

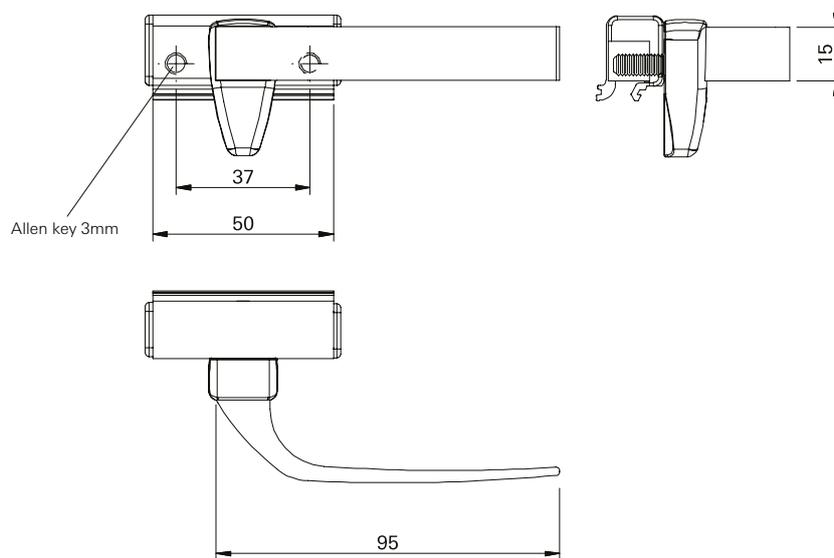
■ **Fastening**

Stainless steel screws M5 x 18

■ **Packaging**

1 handle (L or R) plus fastening screws

FMA47
OO Handle - Front Fixing

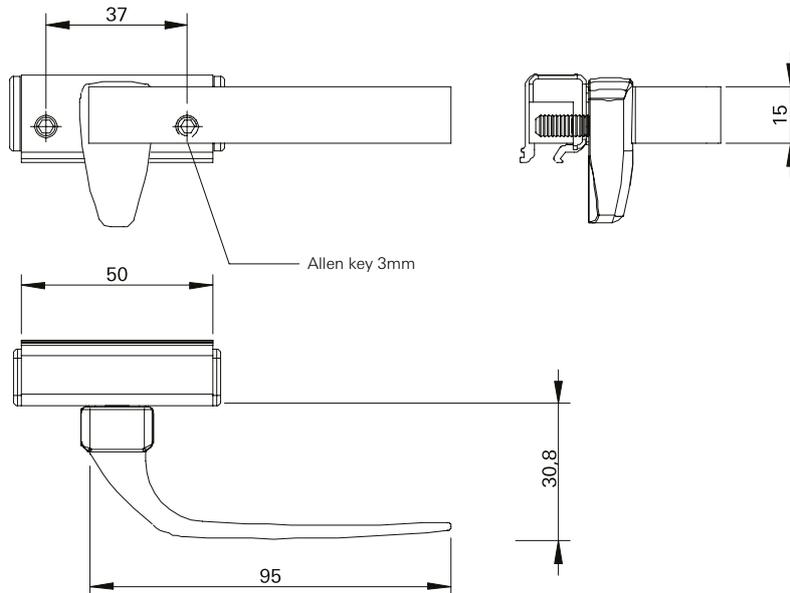


				N°
Mini OO Handle	95mm	-	Left/Right	FMA47

- **Composition**
 Base and handle: aluminium
 Trims and spur: nylon
- **Fastening**
 Stainless steel screws M6 x 14
- **Packaging**
 1 handle (L or R) plus fastening screws



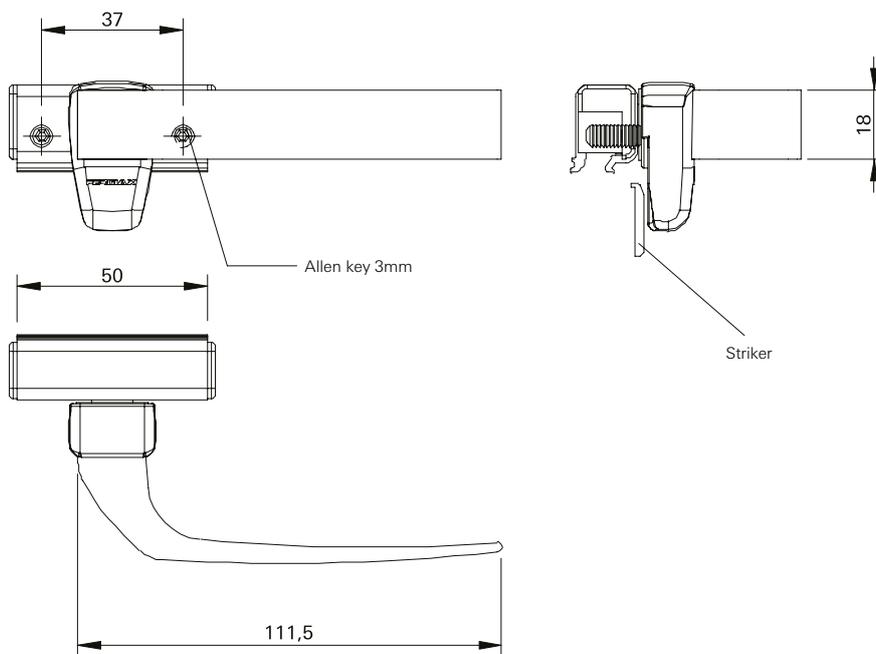
FMA48
OO Handle - Front Fixing



				Nº
Mini OO Handle	95mm	-	Left/Right	FMA48

- **Composition**
 Base and handle: aluminium
 Trims and spur: nylon
- **Fastening**
 Stainless steel screws M6 x 14
- **Packaging**
 1 handle (L or R) plus fastening screws

FMA51
OO Handle - Front Fixing



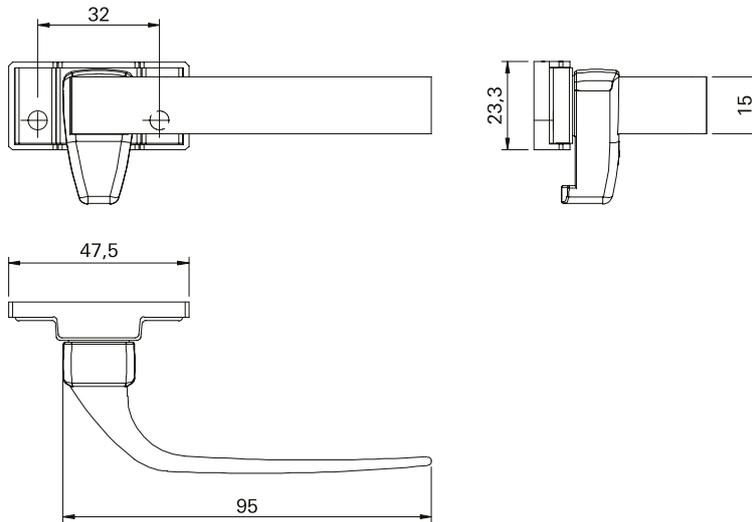
Maxi OO Handle	111,5mm	-	Left/Right	FMA51

Armoni design optional, page 88.

- **Composition**
 Base and handle: aluminium
 Trims and spur: nylon
- **Fastening**
 Stainless steel screws M6 x 14
- **Packaging**
 1 handle (L or R) plus fastening screws



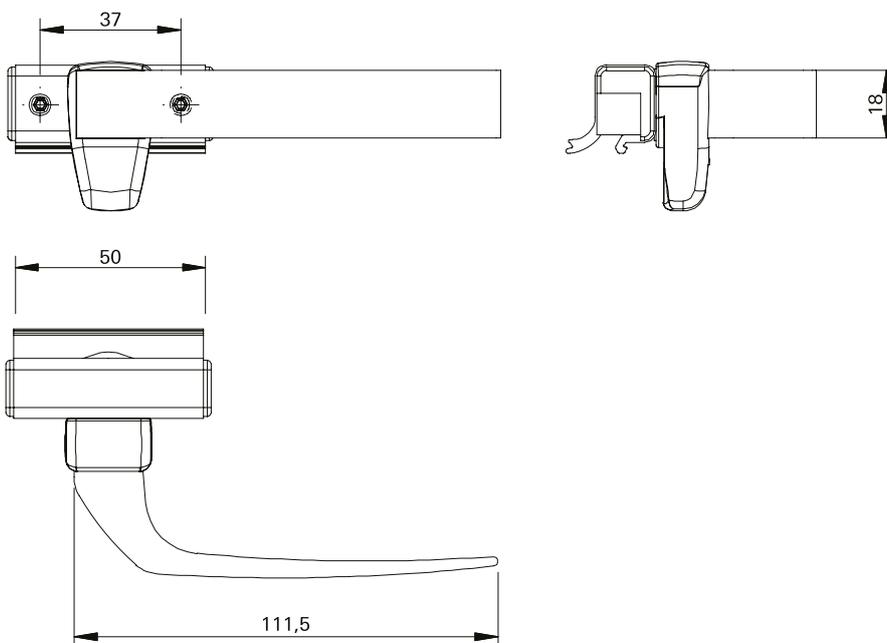
FMA63
OO Handle - Front Fixing



				N ^o
Mini OO Handle	95mm	-	Left/Right	FMA63

- **Composition**
 Base and handle: aluminium
 Trims and spur: nylon
- **Fastening**
 Stainless steel screws 4,2 x 16
- **Packaging**
 1 handle (L or R) plus fastening screws

FMA70
OO Handle - Front Fixing



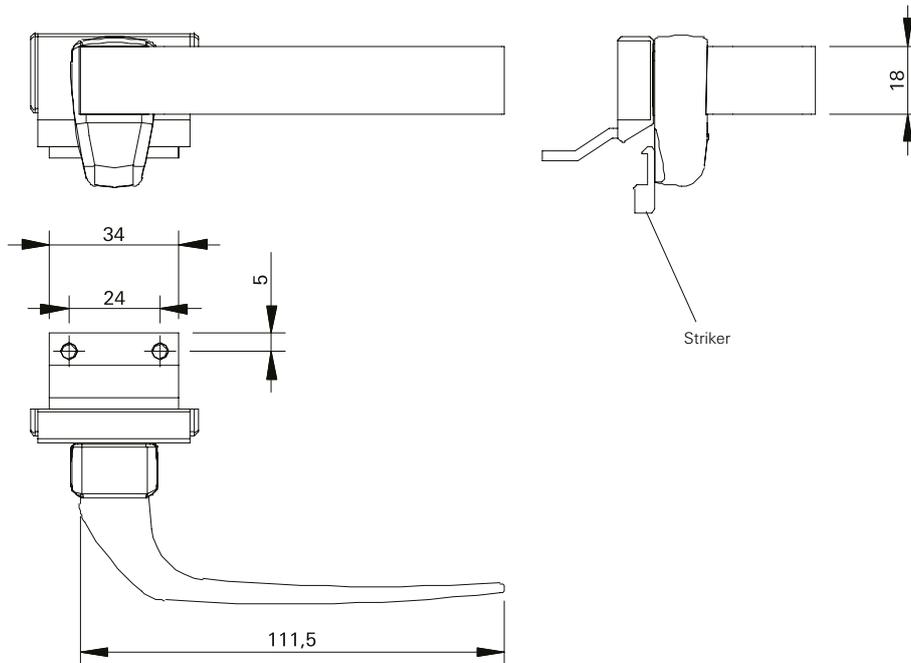
Maxi OO Handle	111,5mm	-	Left/Right	FMA70

Armoni design optional, page 88.

- **Composition**
 Base and handle: aluminium
 Trims and spur: nylon
- **Fastening**
 Stainless steel screws M6 x 14
- **Packaging**
 1 handle (L or R) plus fastening screws



FMA71
OO Handle - Inside Fixing



				N°
Maxi OO Handle	111,5mm	-	Left/Right	FMA71

Armoni design optional, page 88.

■ **Composition**

Base and handle: aluminium
 Trims and spur: nylon

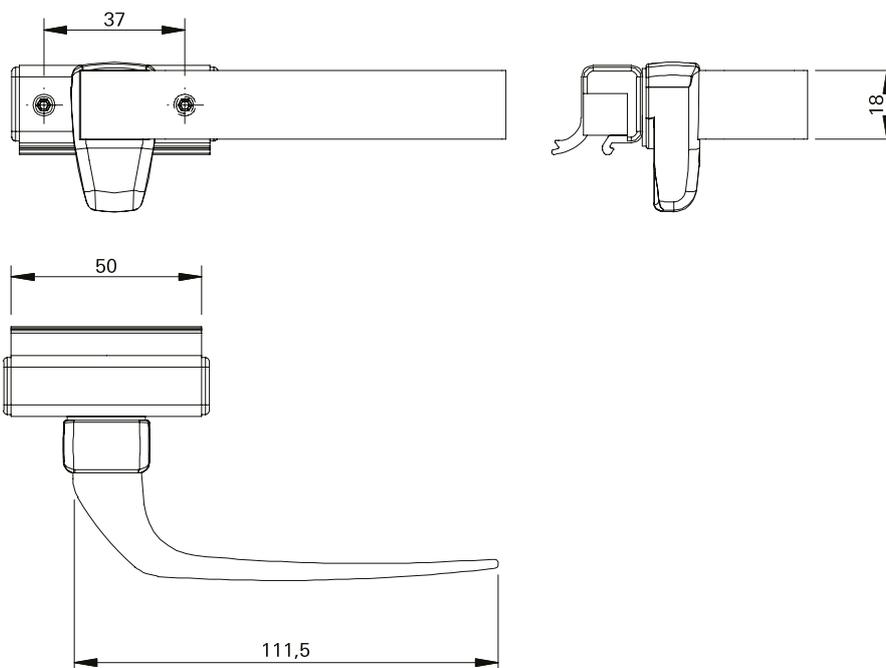
■ **Fastening**

Stainless steel screws M5 x 12

■ **Packaging**

1 handle (L or R) plus fastening screws

FMA78
OO Handle - Front Fixing



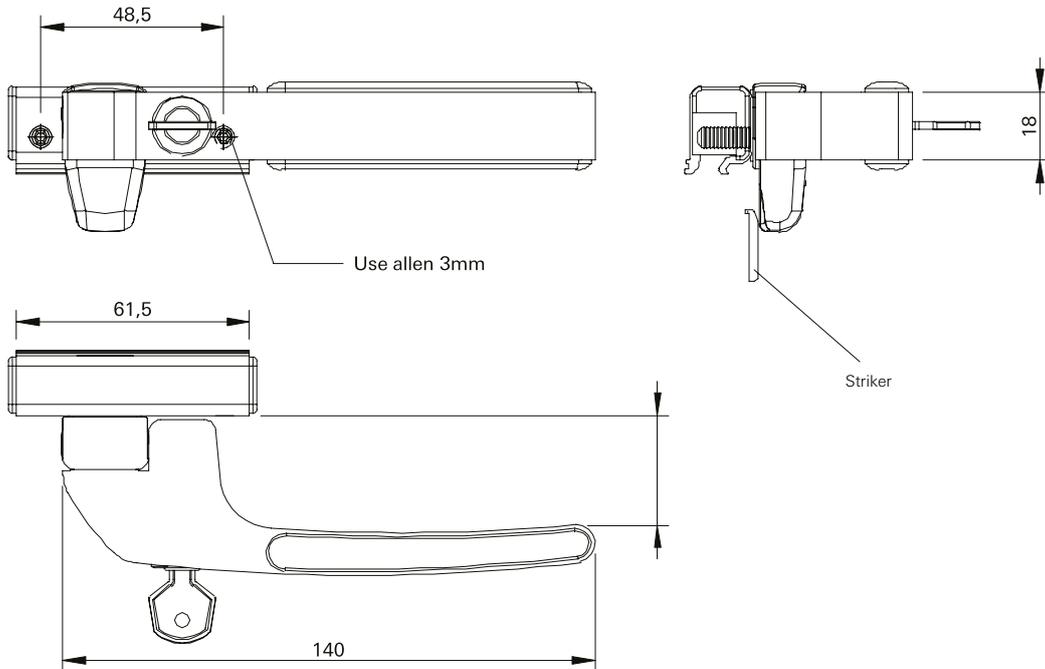
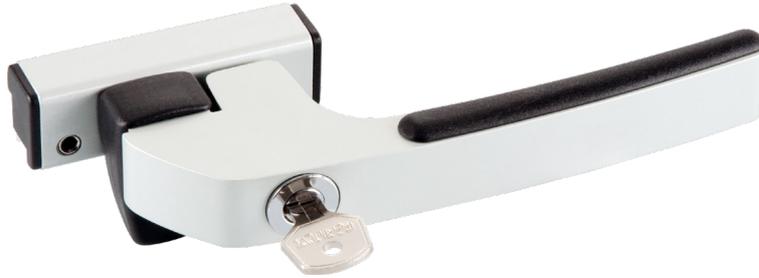
				Nº
Maxi OO Handle	111,5mm	-	Left/Right	FMA78

Armoni design optional, page 88.

- **Composition**
 Base and handle: aluminium
 Trims and spur: nylon
- **Fastening**
 Stainless steel screws M6 x 14
- **Packaging**
 1 handle (L or R) plus fastening screws



FMA79N
OO Handle - Front Fixing



				Nº
Saturno OO Handle	140mm	✓	Left/Right	FMA79N

■ **Composition**

Base and handle: aluminium
 Trims and spur: nylon
 Cylinder zamak; chrome key

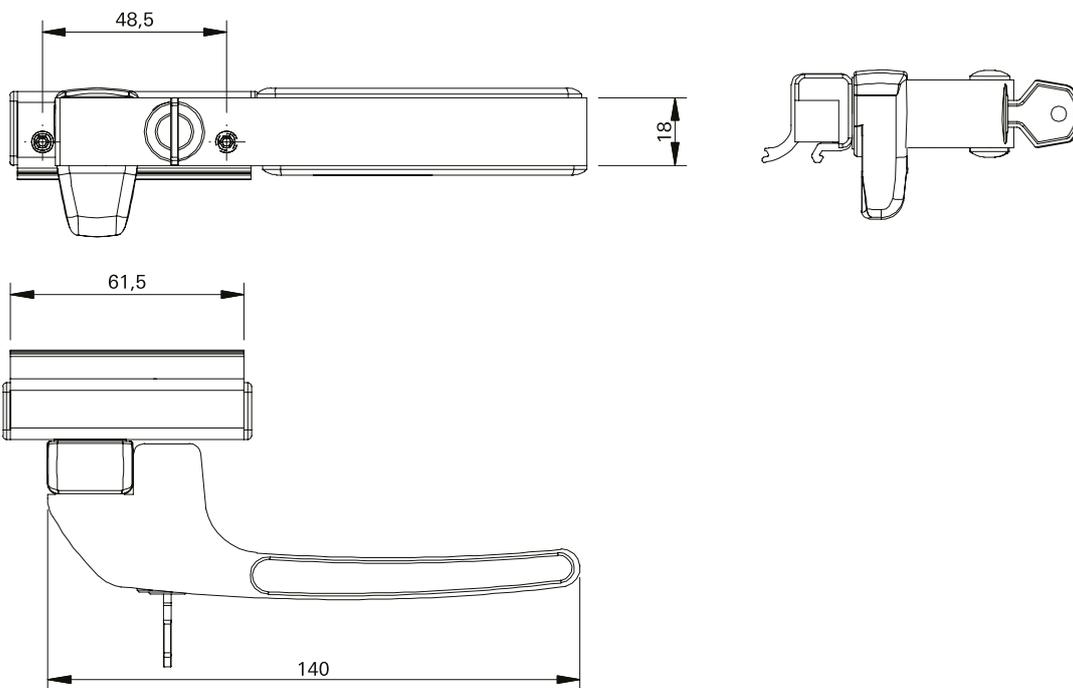
■ **Fastening**

Stainless steel screws M6 x 14

■ **Packaging**

1 handle (L or R) plus fastening screws

FMA80N
 OO Handle - Front Fixing



Saturno OO Handle	140mm	✓	Left/Right	FMA80N

■ **Composition**

Base and handle: aluminium
 Trims and spur: nylon
 Cylinder zamak; chrome key

■ **Fastening**

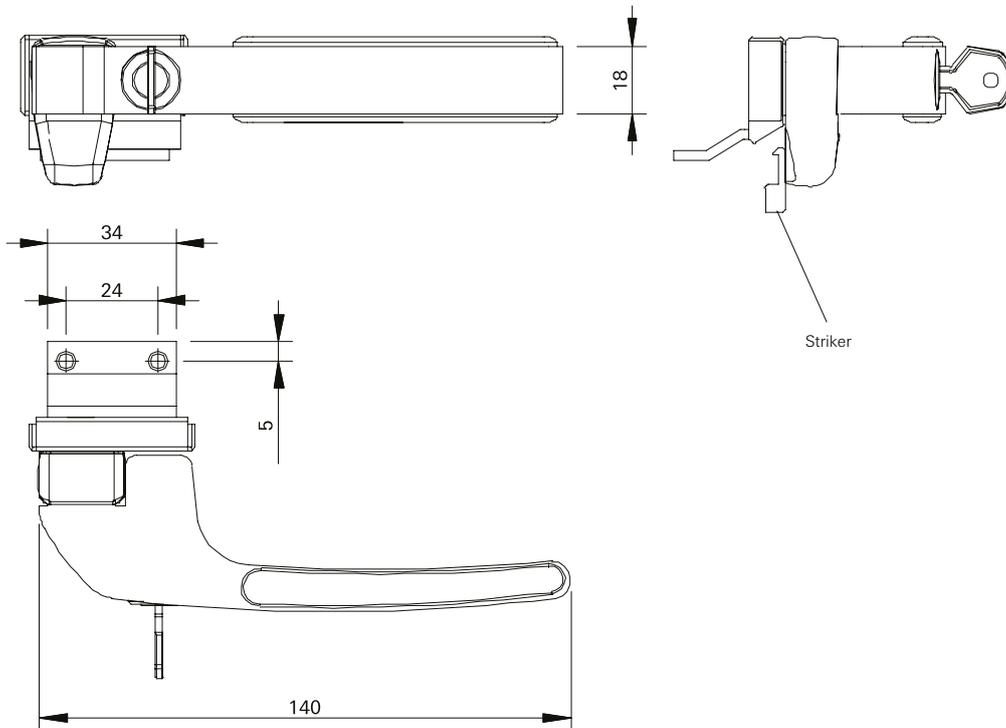
Stainless steel screws M6 x 14

■ **Packaging**

1 handle (L or R) plus fastening screws



FMA81N
OO Handle - Inside Fixing



Saturno OO Handle	140mm	✓	Left/Right	FMA81N

■ **Composition**

Base and handle: aluminium
 Trims and spur: nylon
 Cylinder zamak; chrome key

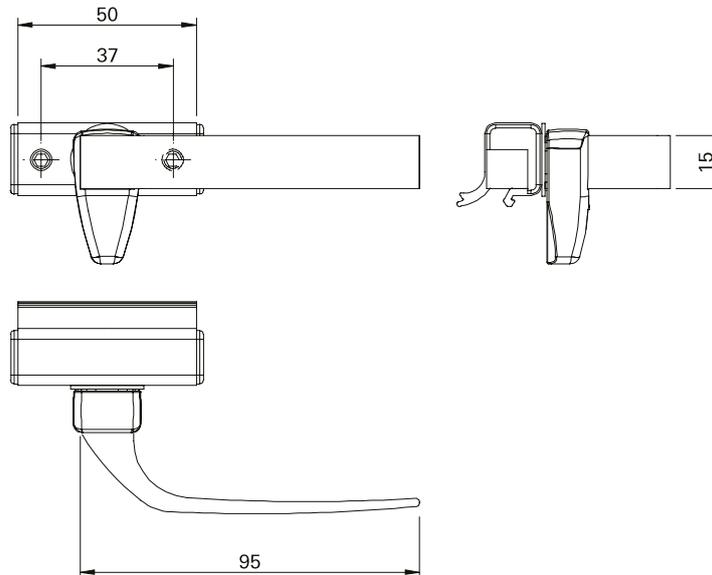
■ **Fastening**

Stainless steel screws M6 x 14

■ **Packaging**

1 handle (L or R) plus fastening screws

FMA83
OO Handle - Front Fixing

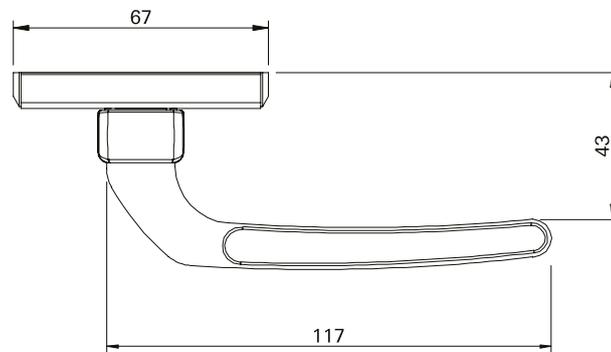
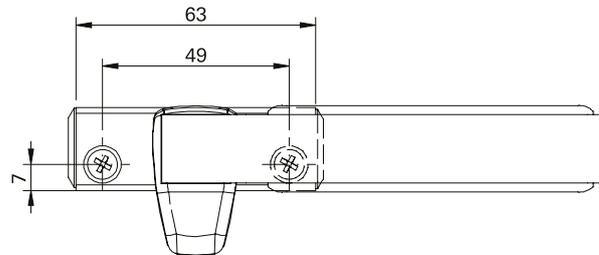


				N°
Mini OO Handle	95mm	-	Left/Right	FMA83

- **Composition**
 Base and handle: aluminium
 Trims and spur: nylon
- **Fastening**
 Stainless steel screws M6 x 14
- **Packaging**
 1 handle (L or R) plus fastening screws



FMA87
OO Handle - Front Fixing

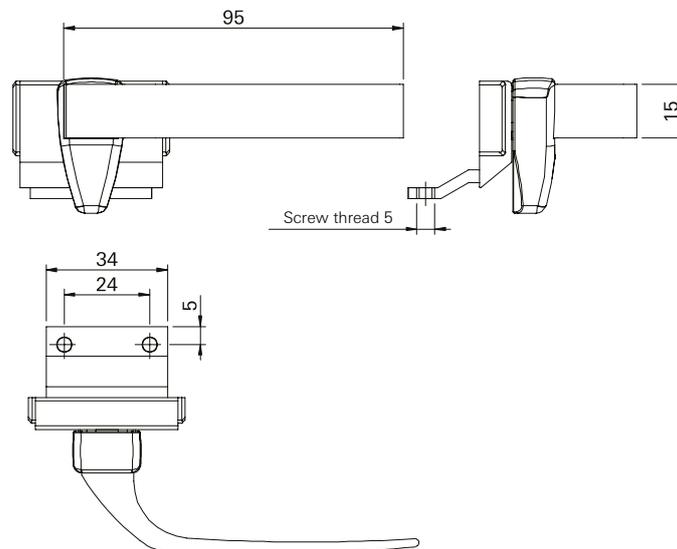


				N°
Saturno OO Handle	117mm	-	Left/Right	FMA87

Armoni design optional, page 88.

- **Composition**
 Base and handle: aluminium
 Trims and spur: nylon
- **Fastening**
 Stainless steel screws 4,2 x 25
- **Packaging**
 1 handle (L or R) plus fastening screws

FMA95
OO Handle - Inside Fixing

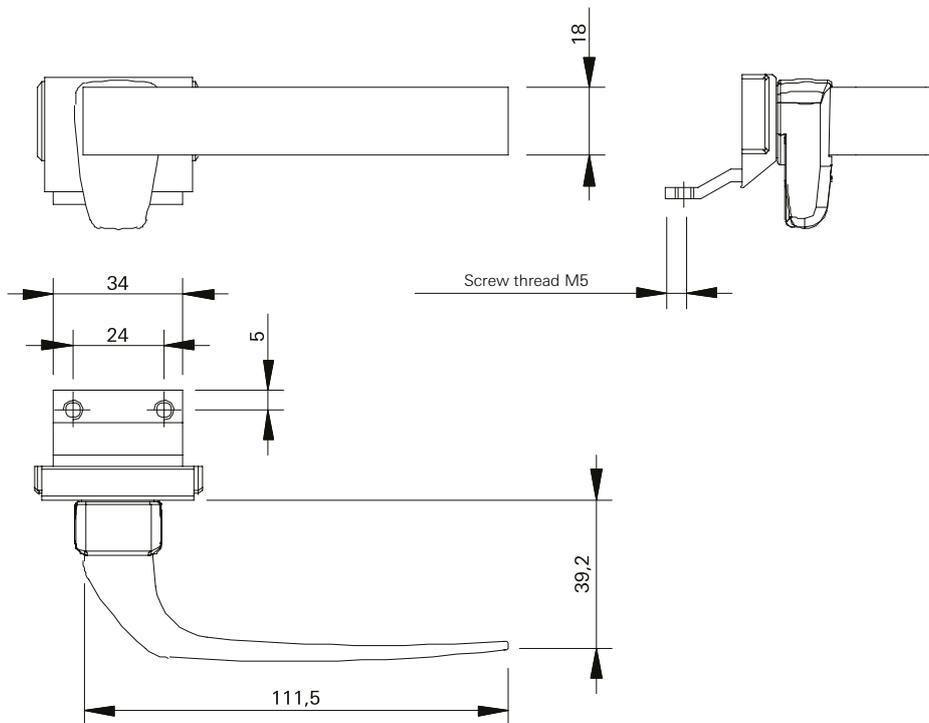


Mini OO Handle	95mm	-	Left/Right	FMA95

- **Composition**
 Base and handle: aluminium
 Trims and spur: nylon
- **Fastening**
 Stainless steel screws M5 x 12
- **Packaging**
 1 handle (L or R) plus fastening screws



FMA98
OO Handle - Inside Fixing



				N°
Maxi OO Handle	111,5mm	-	Left/Right	FMA98

Armoni design optional, page 88.

■ **Composition**

Base and handle: aluminium
 Trims and spur: nylon

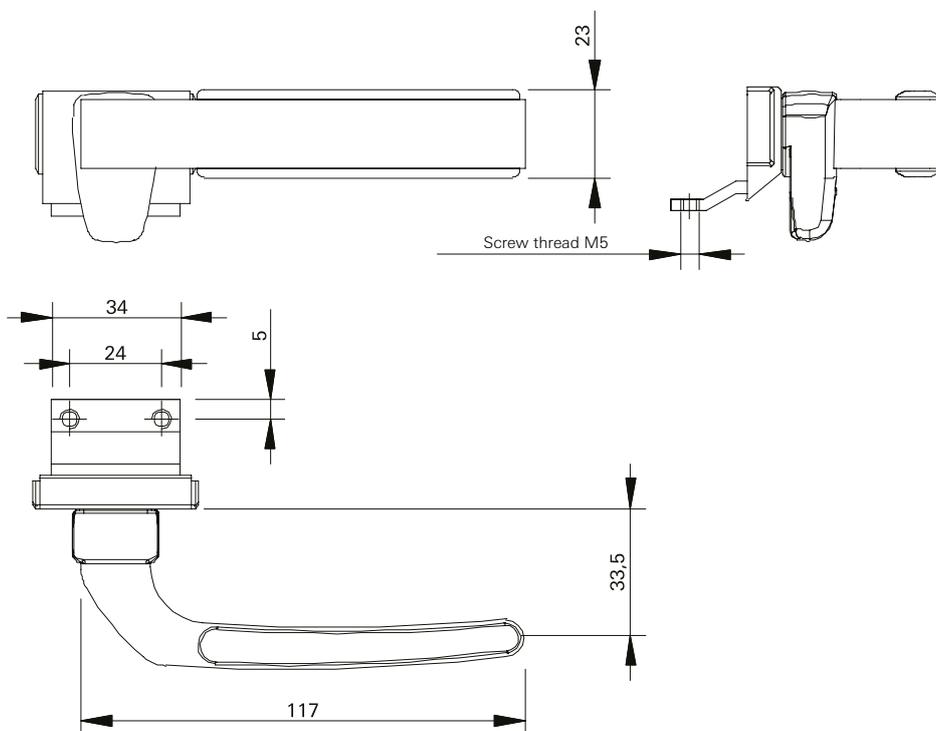
■ **Fastening**

Stainless steel screws M5 x 12

■ **Packaging**

1 handle (L or R) plus fastening screws

FMA99
OO Handle - Inside Fixing



Saturno OO Handle	117mm	-	Left/Right	FMA99

Armoni design optional, page 88.

■ **Composition**

Base and handle: aluminium
 Trims and spur: nylon

■ **Fastening**

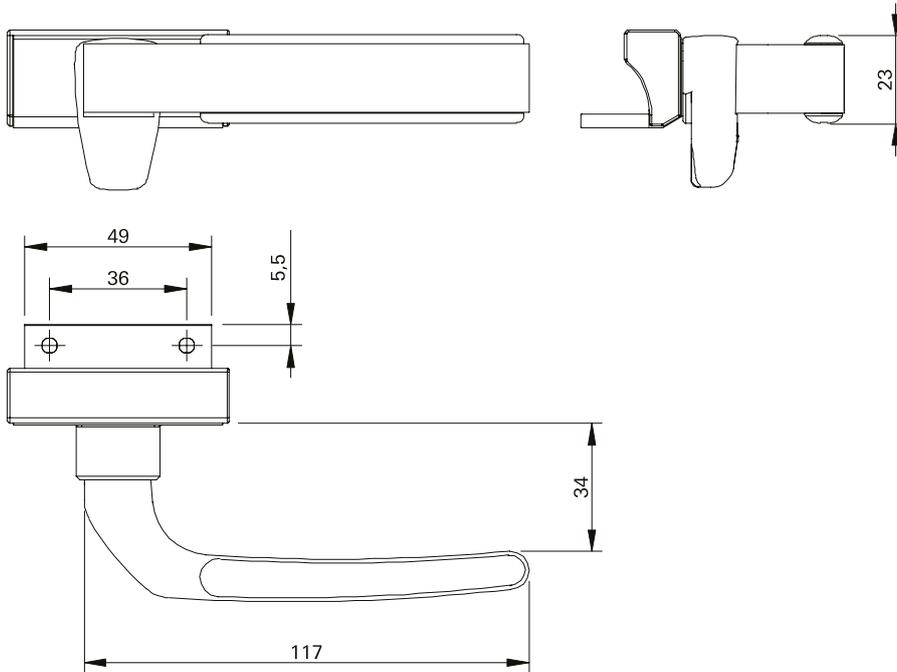
Stainless steel screws M5 x 12

■ **Packaging**

1 handle (L or R) plus fastening screws



FMA100
OO Handle - Inside Fixing



				N°
Saturno OO Handle	117mm	-	Left/Right	FMA100

Armoni design optional, page 88.

■ **Composition**

Base and handle: aluminium
 Trims and spur: nylon

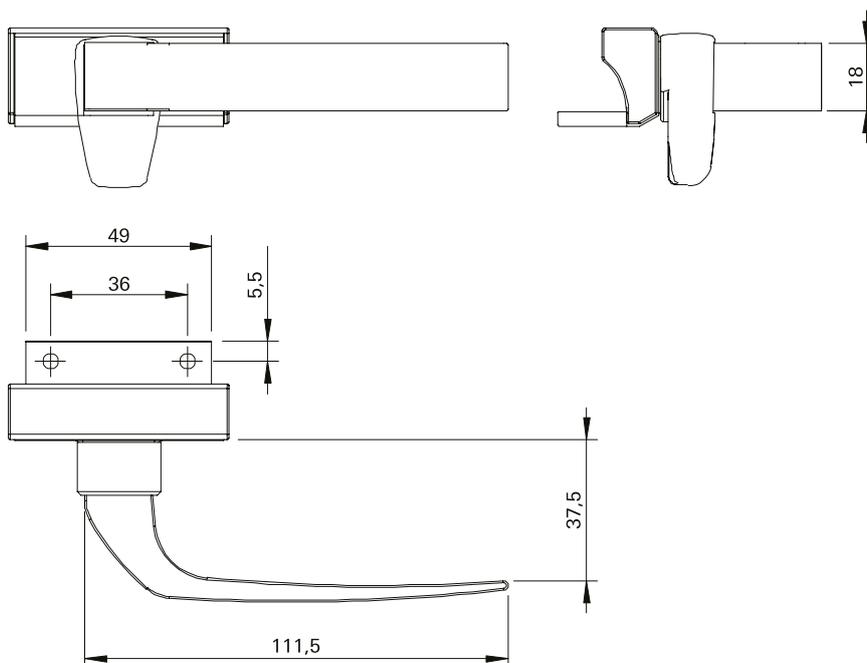
■ **Fastening**

Stainless steel screws M5 x 18

■ **Packaging**

1 handle (L or R) plus fastening screws

FMA101
OO Handle - Inside Fixing



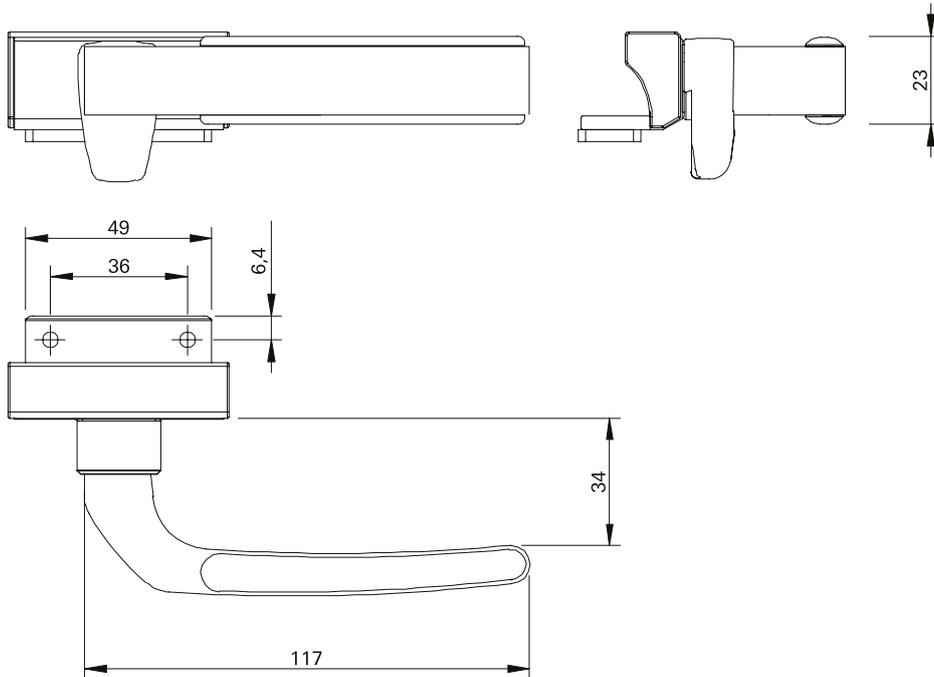
Maxi OO Handle	111,5mm	-	Left/Right	FMA101

Armoni design optional, page 88.

- **Composition**
 Base and handle: aluminium
 Trims and spur: nylon
- **Fastening**
 Stainless steel screws M5 x 18
- **Packaging**
 1 handle (L or R) plus fastening screws



FMA102
OO Handle - Inside Fixing



				N°
Saturno OO Handle	117mm	-	Left/Right	FMA102

Armoni design optional, page 88.

■ **Composition**

Base and handle: aluminium
 Trims and spur: nylon

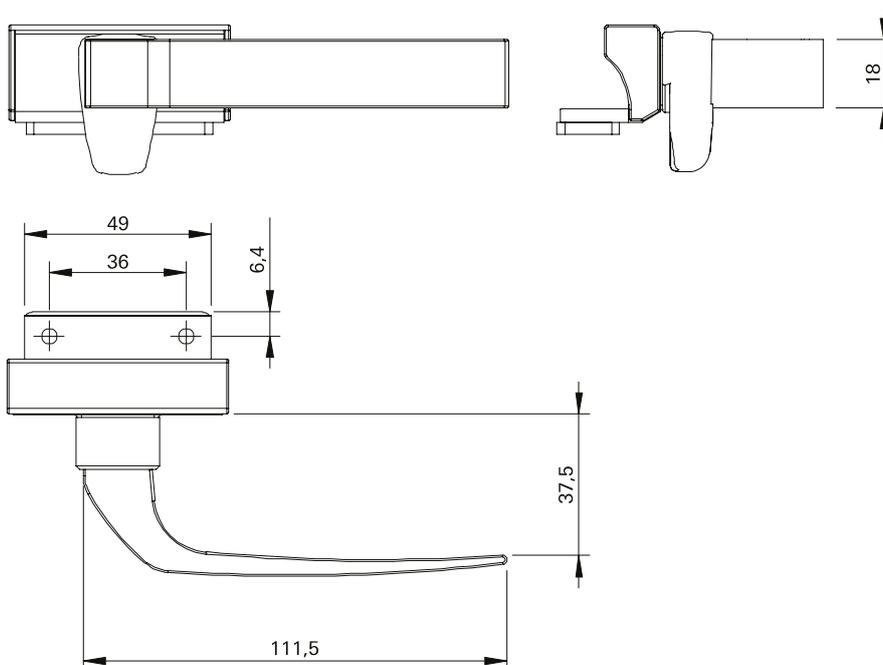
■ **Fastening**

Stainless steel screws M5 x 18

■ **Packaging**

1 handle (L or R) plus fastening screws

FMA103
OO Handle - Inside Fixing



				N°
Maxi OO Handle	111,5mm	-	Left/Right	FMA103

Armoni design optional, page 88.

■ **Composition**

Base and handle: aluminium
 Trims and spur: nylon

■ **Fastening**

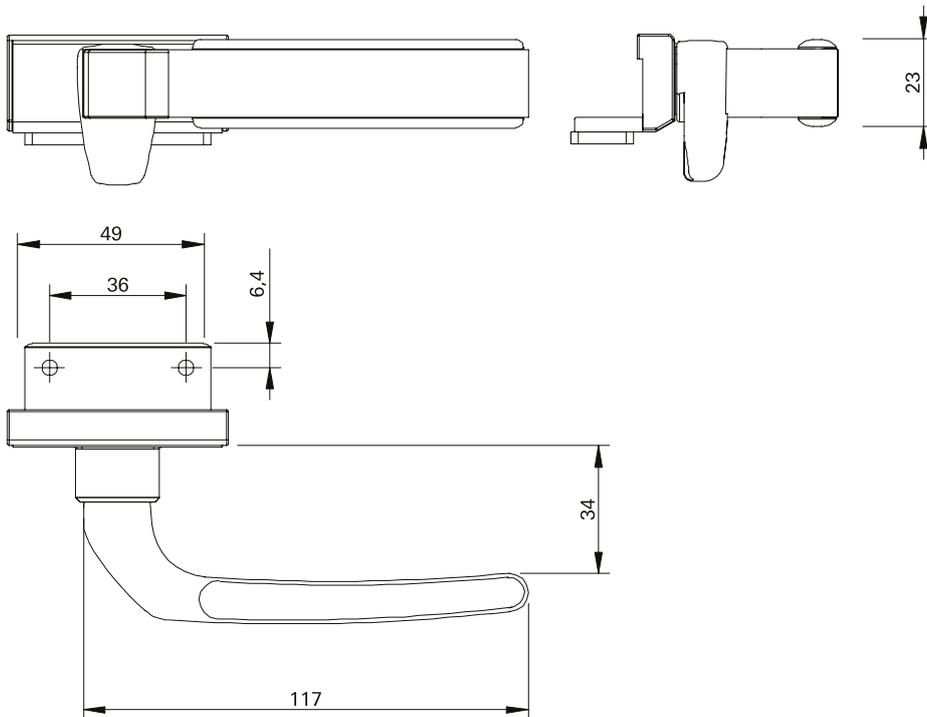
Stainless steel screws M5 x 18

■ **Packaging**

1 handle (L or R) plus fastening screws



FMA104
OO Handle - Inside Fixing

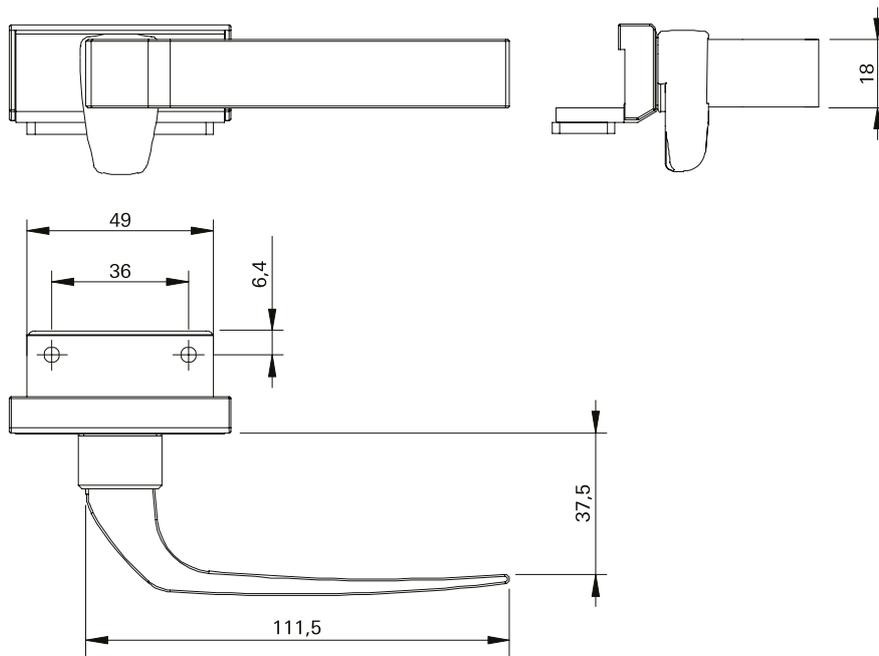


				Nº
Saturno OO Handle	117mm	-	Left/Right	FMA104

Armoni design optional, page 88.

- **Composition**
 Base and handle: aluminium
 Trims and spur: nylon
- **Fastening**
 Stainless steel screws M5 x 18
- **Packaging**
 1 handle (L or R) plus fastening screws

FMA105
OO Handle - Inside Fixing



				N°
Maxi OO Handle	111,5mm	-	Left/Right	FMA105

Armoni design optional, page 88.

■ **Composition**

Base and handle: aluminium
 Trims and spur: nylon

■ **Fastening**

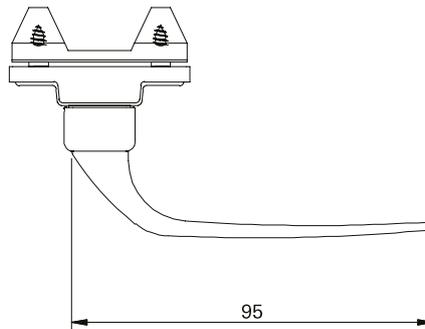
Stainless steel screws M5 x 18

■ **Packaging**

1 handle (L or R) plus fastening screws



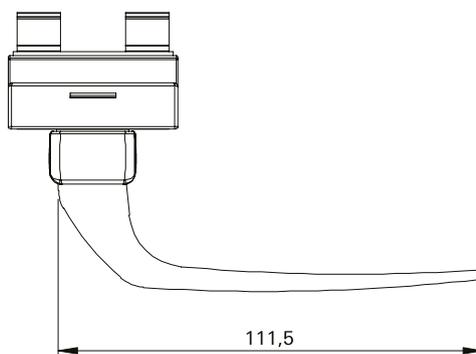
FMA108
OO Handle - Front Fixing



				Nº
Mini OO Handle	95mm	-	Left/Right	FMA108

- **Composition**
Base and handle: aluminium
Trims and spur: nylon
- **Fastening**
Stainless steel screws 3,9 x 16
- **Packaging**
1 handle (L or R) plus fastening screws

FMA110
OO Handle - Inside Fixing



				Nº
Maxi OO Handle	111,5mm	-	Left/Right	FMA110

Armoni design optional, page 88.

■ **Composition**

Base and handle: aluminium
 Trims and spur: nylon

■ **Fastening**

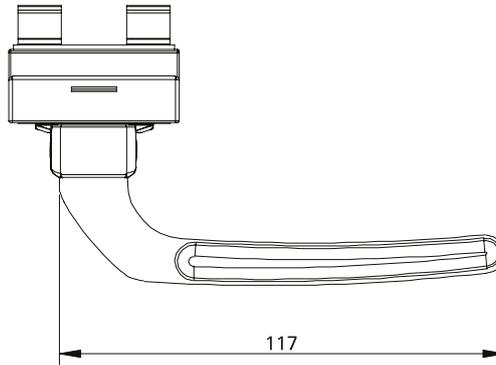
Stainless steel screws M4 x 6

■ **Packaging**

1 handle (L or R) plus fastening screws



FMA111
OO Handle - Inside Fixing

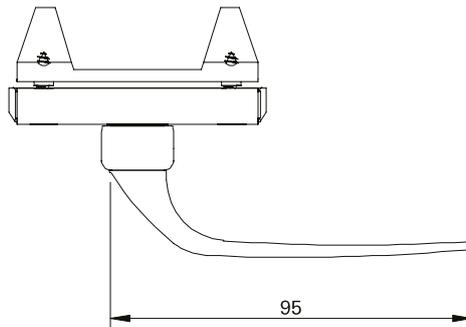


				N°
Saturno OO Handle	117mm	-	Left/Right	FMA111

Armoni design optional, page 88.

- **Composition**
Base and handle: aluminium
Trims and spur: nylon
- **Fastening**
Stainless steel screws M4 x 6
- **Packaging**
1 handle (L or R) plus fastening screws

FMA117
OO Handle - Front Fixing

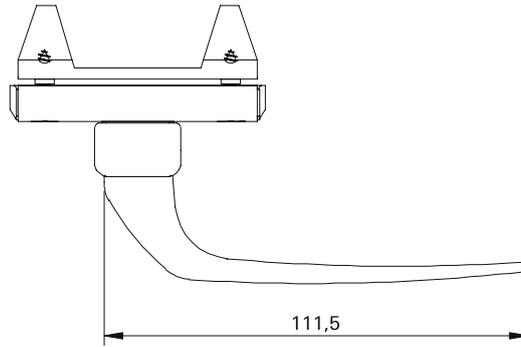


				Nº
Mini OO Handle	95mm	-	Left/Right	FMA117

- **Composition**
Base and handle: aluminium
Trims and spur: nylon
- **Fastening**
Stainless steel screws 4,2 x 19
- **Packaging**
1 handle (L or R) plus fastening screws



FMA118
OO Handle - Front Fixing

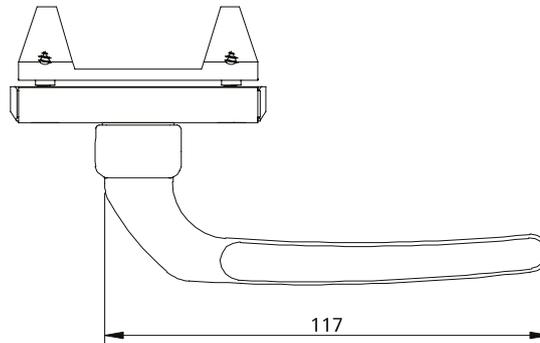


				N°
Maxi OO Handle	111,5mm	-	Left/Right	FMA118

Armoni design optional, page 88.

- **Composition**
 Base and handle: aluminium
 Trims and spur: nylon
- **Fastening**
 Stainless steel screws 4,2 x 19
- **Packaging**
 1 handle (L or R) plus fastening screws

FMA119
OO Handle - Front Fixing



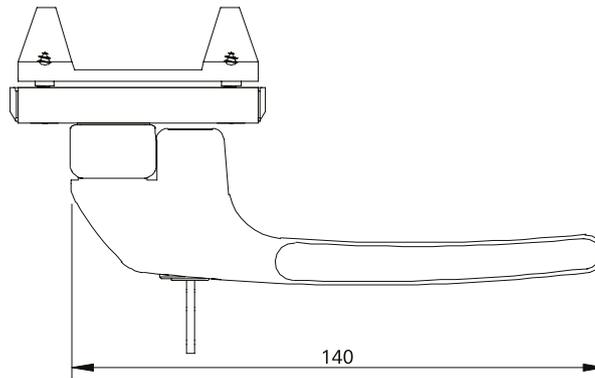
				N°
Saturno OO Handle	117mm	-	Left/Right	FMA119

Armoni design optional, page 88.

- **Composition**
 Base and handle: aluminium
 Trims and spur: nylon
- **Fastening**
 Stainless steel screws 4,2 x 19
- **Packaging**
 1 handle (L or R) plus fastening screws



FMA120N
 OO Handle - Front Fixing



				Nº
Saturno OO Handle	140mm	✓	Left/Right	FMA120N

■ **Composition**

Base and handle: aluminium
 Trims and spur: nylon
 Cylinder zamak; chrome key

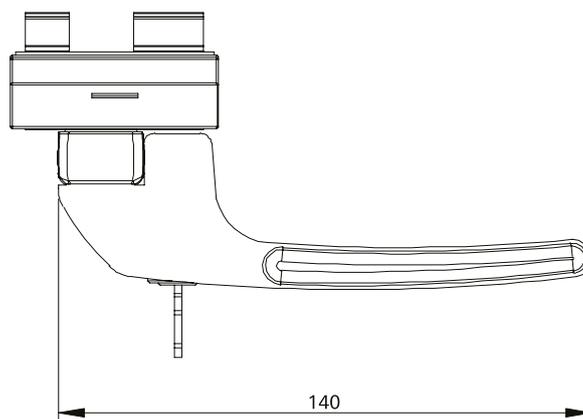
■ **Fastening**

Stainless steel screws 4,2 x 19

■ **Packaging**

1 handle (L or R) plus fastening screws

FMA121N
OO Handle - Inside Fixing



Saturno OO Handle	140mm	✓	Left/Right	FMA121N

■ **Composition**

Base and handle: aluminium
 Trims and spur: nylon
 Cylinder zamak; chrome key

■ **Fastening**

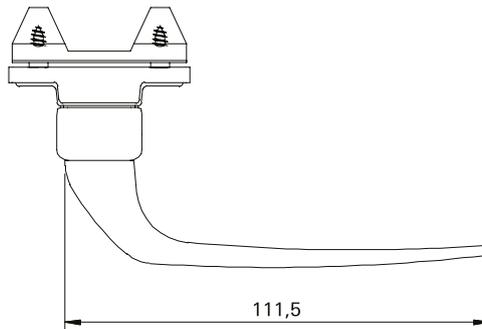
Stainless steel screws M4 x 6

■ **Packaging**

1 handle (L or R) plus fastening screws



FMA122
OO Handle - Front Fixing

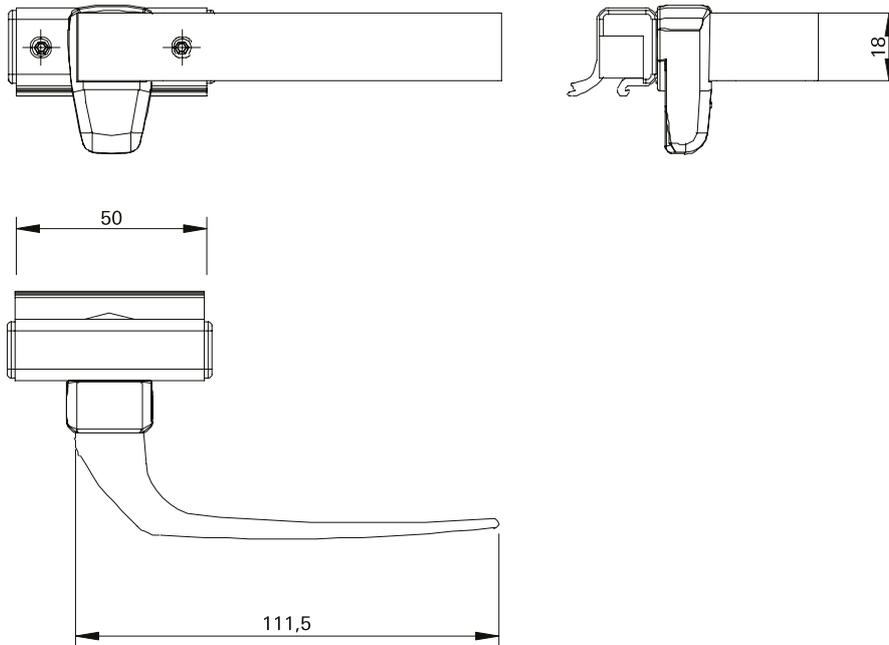


				Nº
Maxi OO Handle	111,5mm	-	Left/Right	FMA122

Armoni design optional, page 88.

- **Composition**
Base and handle: aluminium
Trims and spur: nylon
- **Fastening**
Stainless steel screws 3,9 x 16
- **Packaging**
1 handle (L or R) plus fastening screws

FMA124
OO Handle - Front Fixing



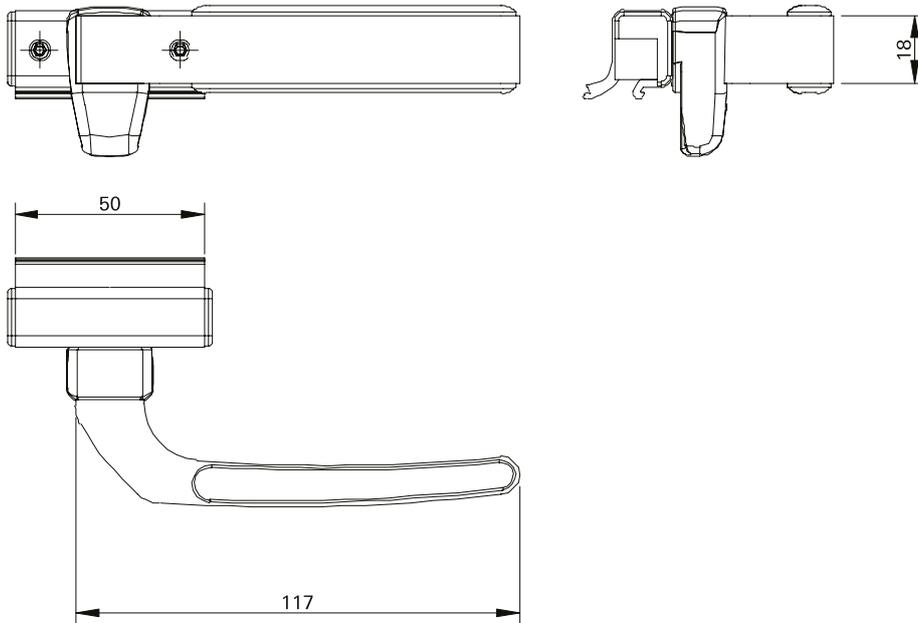
Maxi OO Handle	111,5mm	-	Left/Right	FMA124

Armoni design optional, page 88.

- **Composition**
 Base and handle: aluminium
 Trims and spur: nylon
- **Fastening**
 Stainless steel screws M6 x 14
- **Packaging**
 1 handle (L or R) plus fastening screws



FMA125
OO Handle - Front Fixing

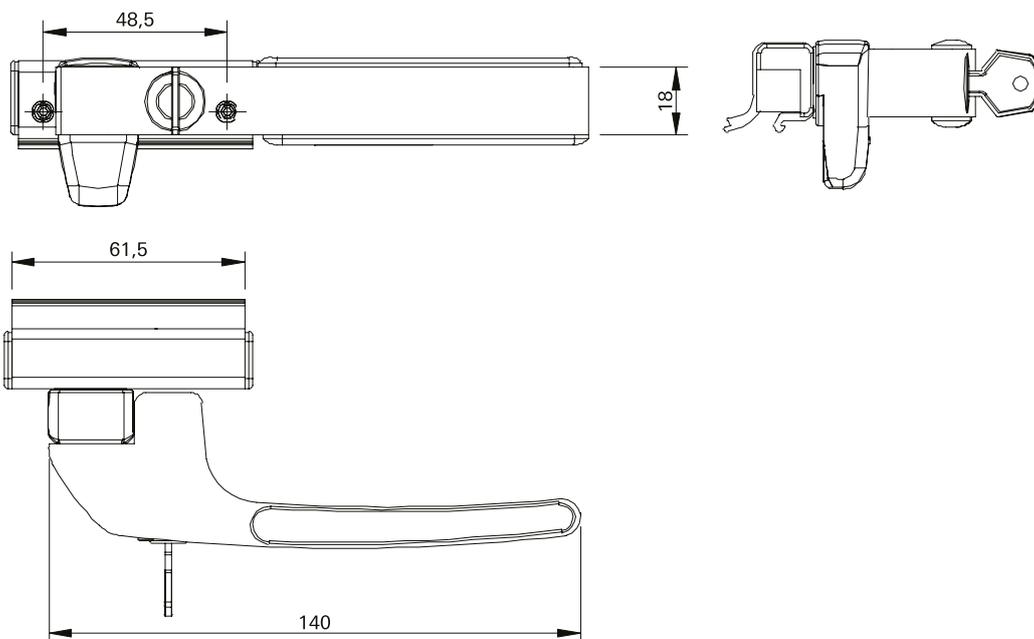


				N°
Saturno OO Handle	117mm	-	Left/Right	FMA125

Armoni design optional, page 88.

- **Composition**
 Base and handle: aluminium
 Trims and spur: nylon
- **Fastening**
 Stainless steel screws M6 x 14
- **Packaging**
 1 handle (L or R) plus fastening screws

FMA126N
 OO Handle - Front Fixing



Saturno OO Handle	140mm	✓	Left/Right	FMA126N

■ **Composition**

Base and handle: aluminium
 Trims and spur: nylon
 Cylinder zamak; chrome key

■ **Fastening**

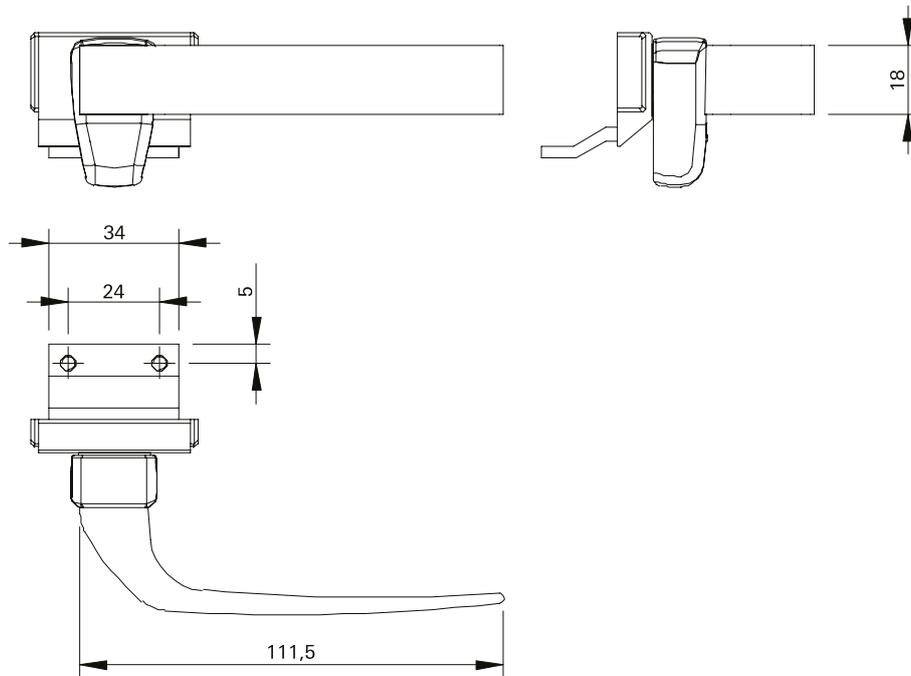
Stainless steel screws M6 x 14

■ **Packaging**

1 handle (L or R) plus fastening screws



FMA127
OO Handle - Inside Fixing



				N ^o
Maxi OO Handle	111,5mm	-	Left/Right	FMA127

Armoni design optional, page 88.

■ **Composition**

Base and handle: aluminium
 Trims and spur: nylon

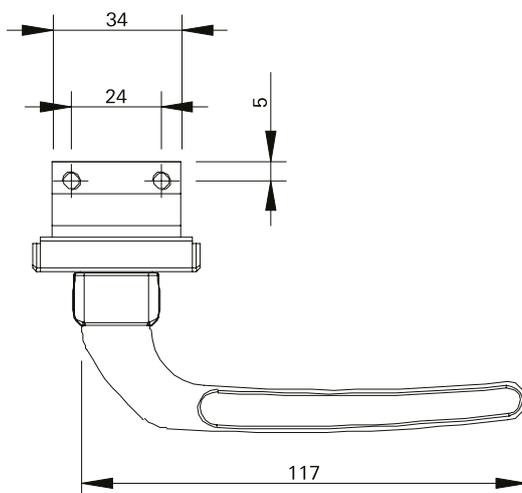
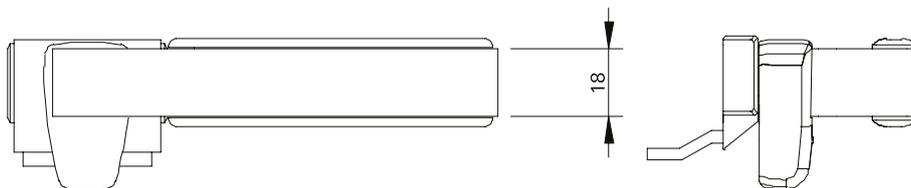
■ **Fastening**

Stainless steel screws M5 x 12

■ **Packaging**

1 handle (L or R) plus fastening screws

FMA128
OO Handle - Inside Fixing



Saturno OO Handle	117mm	-	Left/Right	FMA128

Armoni design optional, page 88.

■ **Composition**

Base and handle: aluminium
 Trims and spur: nylon

■ **Fastening**

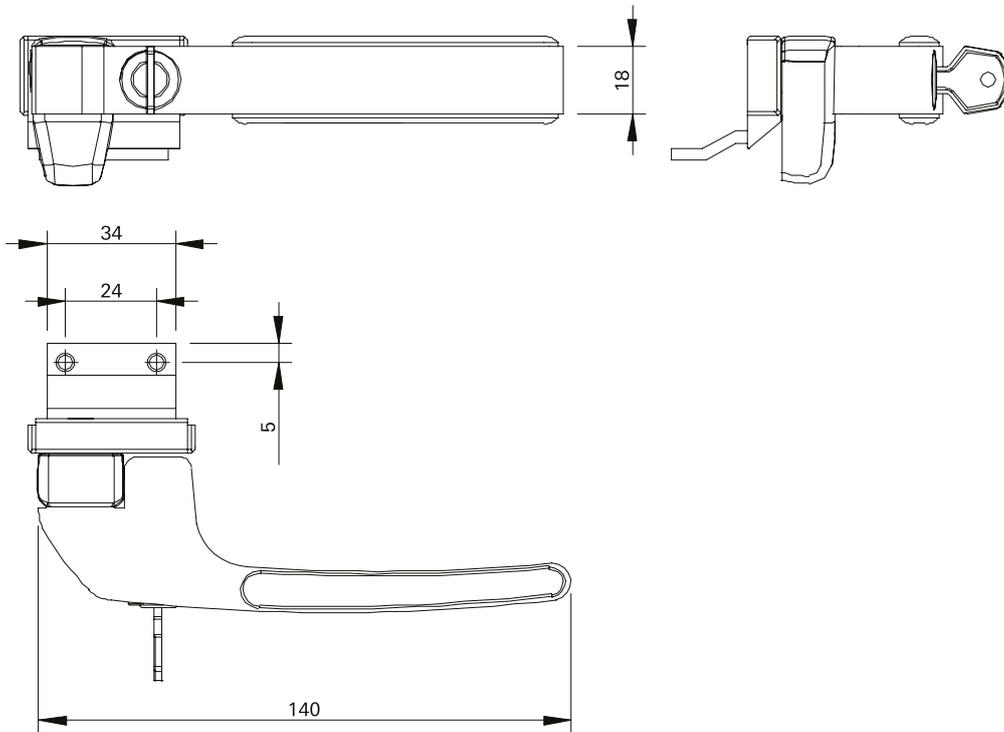
Stainless steel screws M5 x 12

■ **Packaging**

1 handle (L or R) plus fastening screws



FMA129N
OO Handle - Inside Fixing



				N°
Saturno OO Handle	140mm	✓	Left/Right	FMA129N

■ **Composition**

Base and handle: aluminium
 Trims and spur: nylon
 Cylinder zamak; chrome key

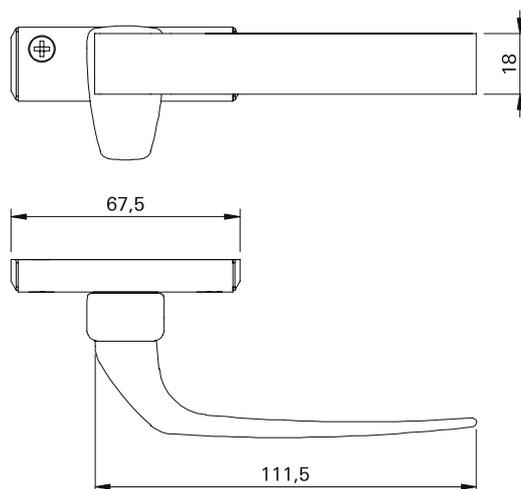
■ **Fastening**

Stainless steel screws M5 x 8

■ **Packaging**

1 handle (L or R) plus fastening screws

FMA130
OO Handle - Front Fixing



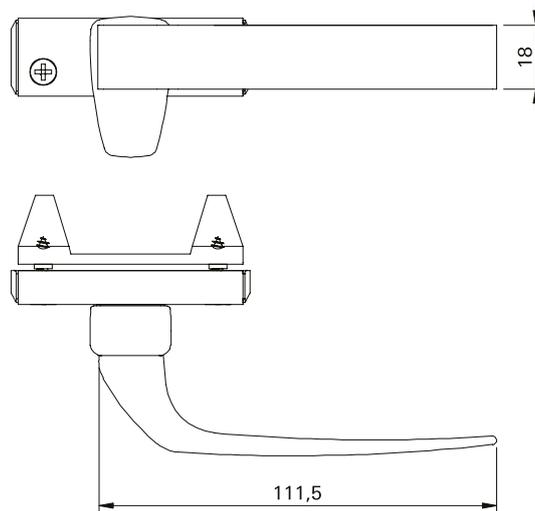
Maxi OO Handle	111,5mm	-	Left/Right	FMA130

Armoni design optional, page 88.

- **Composition**
 Base and handle: aluminium
 Trims and spur: nylon
- **Fastening**
 Stainless steel screws M5 x 16
- **Packaging**
 1 handle (L or R) plus fastening screws



FMA131
OO Handle - Front Fixing



				N°
Maxi OO Handle	111,5mm	-	Left/Right	FMA131

Armoni design optional, page 88.

■ **Composition**

Base and handle: aluminium
 Trims and spur: nylon

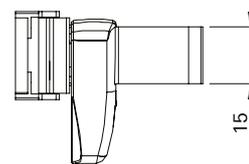
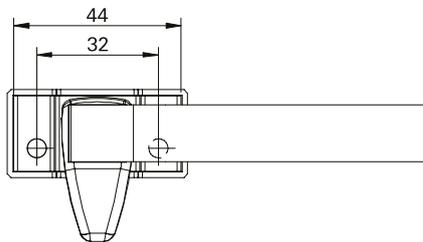
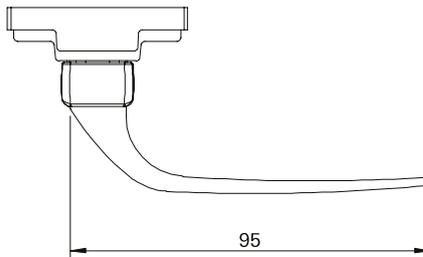
■ **Fastening**

Stainless steel screws 4,2 x 19

■ **Packaging**

1 handle (L or R) plus fastening screws

FMA132
OO Handle - Front Fixing

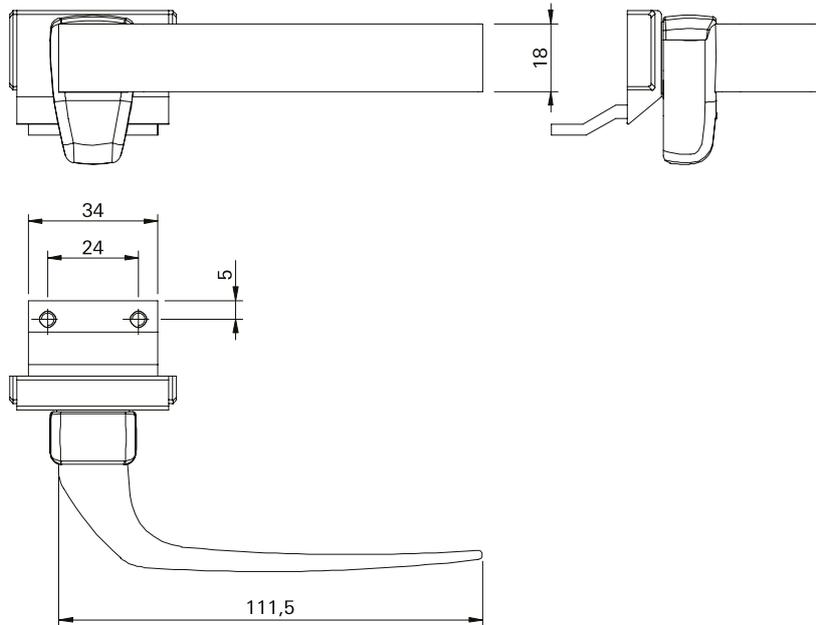


				Nº
Mini OO Handle	95mm	-	Left/Right	FMA132

- **Composition**
 Base and handle: aluminium
 Trims and spur: nylon
- **Fastening**
 Stainless steel screws 4,2 x 16
- **Packaging**
 1 handle (L or R) plus fastening screws



FMA135
OO Handle - Inside Fixing



				N°
Maxi OO Handle	111,5mm	-	Left/Right	FMA135

Armoni design optional, page 88.

■ **Composition**

Base and handle: aluminium
 Trims and spur: nylon

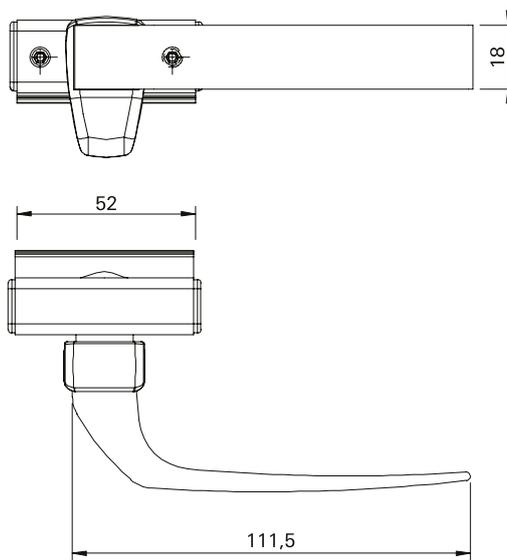
■ **Fastening**

Stainless steel screws M5 x 12

■ **Packaging**

1 handle (L or R) plus fastening screws

FMA142
OO Handle - Front Fixing



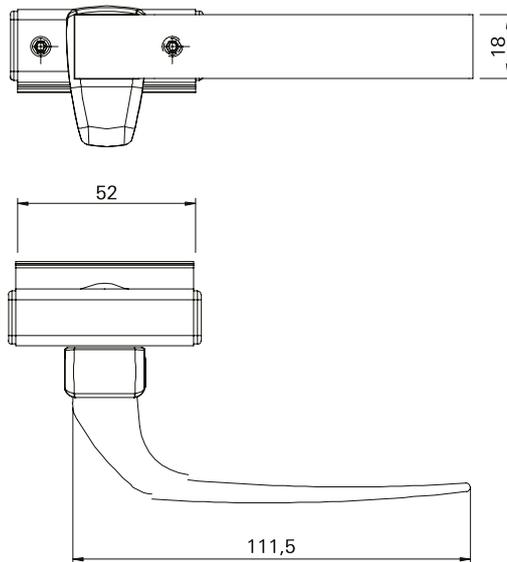
Maxi OO Handle	111,5mm	-	Left/Right	FMA142

Armoni design optional, page 88.

- **Composition**
 Base and handle: aluminium
 Trims and spur: nylon
- **Fastening**
 Stainless steel screws M6 x 14
- **Packaging**
 1 handle (L or R) plus fastening screws



FMA143
OO Handle - Front Fixing



				N°
Maxi OO Handle	111,5mm	-	Left/Right	FMA143

Armoni design optional, page 88.

■ **Composition**

Base and handle: aluminium
 Trims and spur: nylon

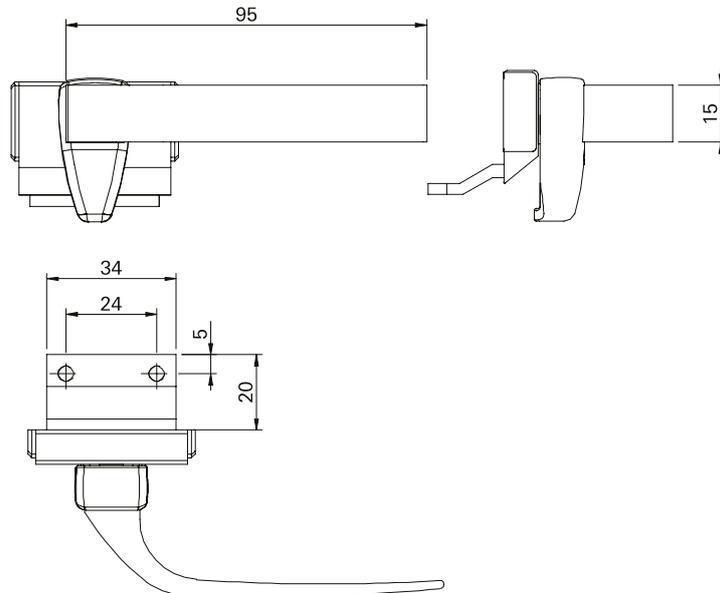
■ **Fastening**

Stainless steel screws M6 x 14

■ **Packaging**

1 handle (L or R) plus fastening screws

FMA145
OO Handle - Inside Fixing

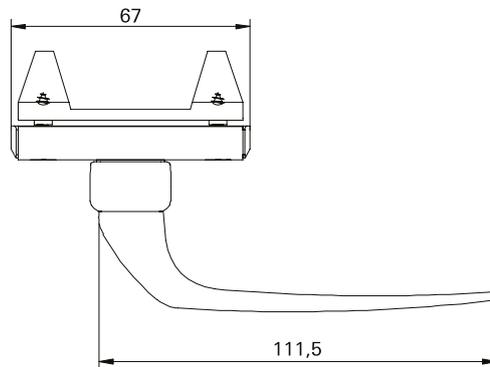
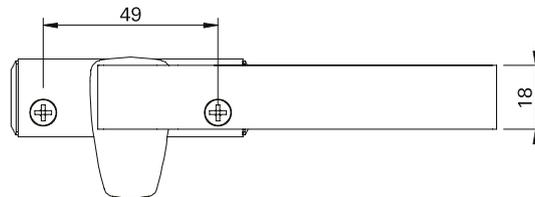


				N°
Mini OO Handle	95mm	-	Left/Right	FMA145

- **Composition**
Base and handle: aluminium
Trims and spur: nylon
- **Fastening**
Stainless steel screws M5 x 12
- **Packaging**
1 handle (L or R) plus fastening screws



FMA149
OO Handle - Front Fixing



				Nº
Maxi OO Handle	111,5mm	-	Left/Right	FMA149

Armoni design optional, page 88.

■ **Composition**

Base and handle: aluminium
 Trims and spur: nylon

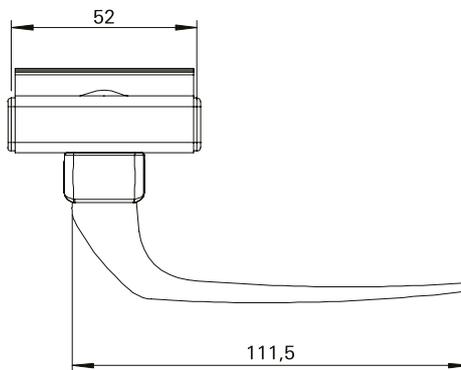
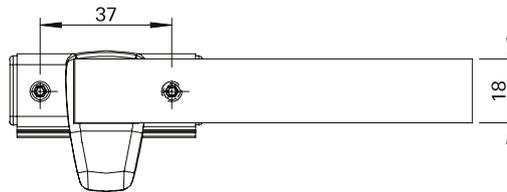
■ **Fastening**

Stainless steel screws 4,2 x 19

■ **Packaging**

1 handle (L or R) plus fastening screws

FMA150
OO Handle - Front Fixing



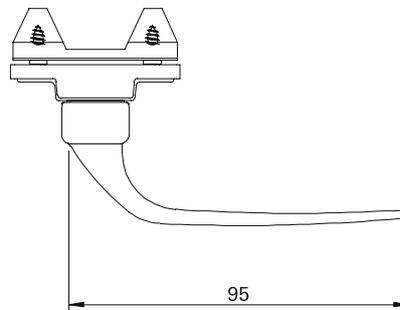
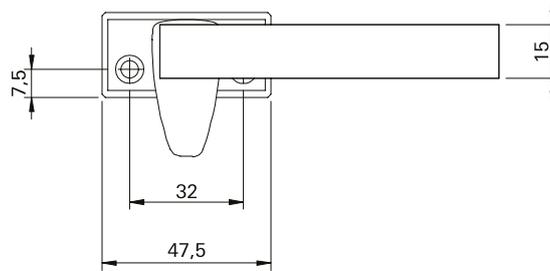
				N°
Maxi OO Handle	111,5mm	-	Left/Right	FMA150

Armoni design optional, page 88.

- **Composition**
 Base and handle: aluminium
 Trims and spur: nylon
- **Fastening**
 Stainless steel screws M6 x 14
- **Packaging**
 1 handle (L or R) plus fastening screws



FMA151
OO Handle - Front Fixing



				Nº
Mini OO Handle	95mm	-	Left/Right	FMA151

■ **Composition**

Base and handle: aluminium
Trims and spur: nylon

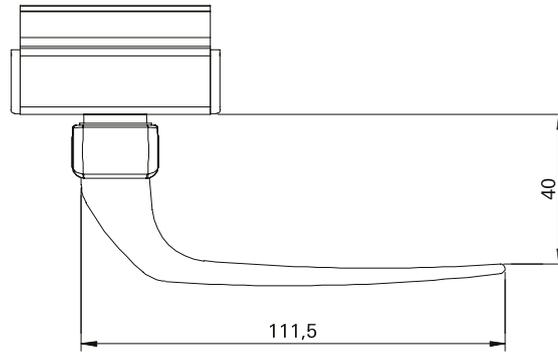
■ **Fastening**

Stainless steel screws 3,9 x 16

■ **Packaging**

1 handle (L or R) plus fastening screws

FMA154
OO Handle - Front Fixing



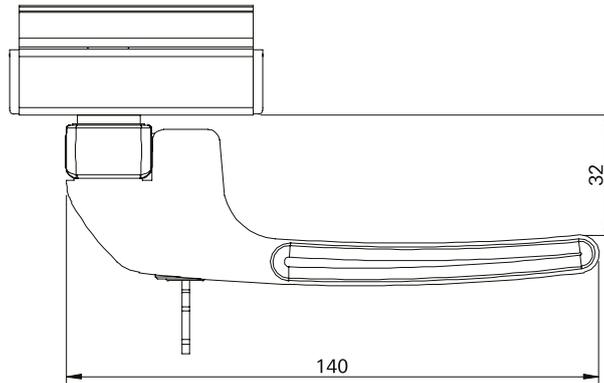
Maxi OO Handle	111,5mm	-	Left/Right	FMA154

Armoni design optional, page 88.

- **Composition**
 Base and handle: aluminium
 Trims and spur: nylon
- **Fastening**
 Stainless steel screws M6 x 16
- **Packaging**
 1 handle (L or R) plus fastening screws



FMA155N
OO Handle - Front Fixing



				Nº
Saturno OO Handle	140mm	✓	Left/Right	FMA155N

■ **Composition**

Base and handle: aluminium
 Trims and spur: nylon
 Cylinder zamak; chrome key

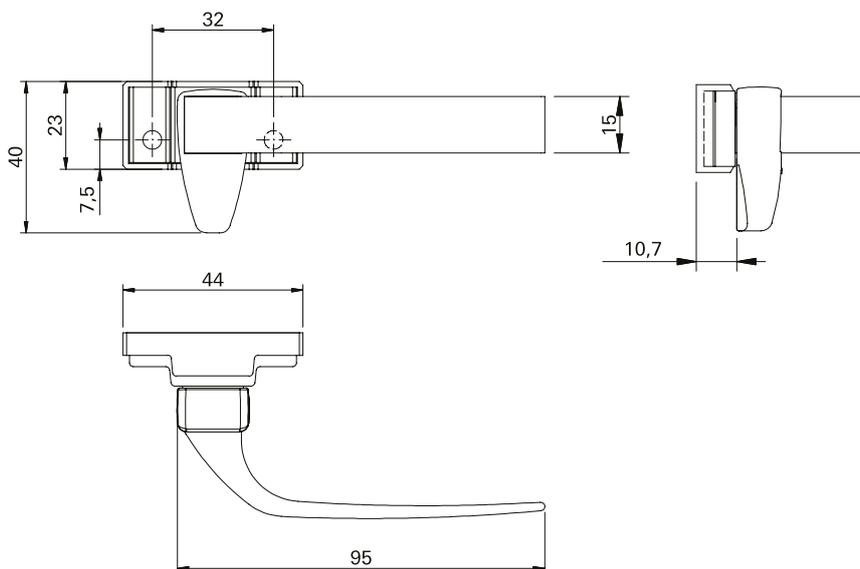
■ **Fastening**

Stainless steel screws M6 x 16

■ **Packaging**

1 handle (L or R) plus fastening screws

FMA162
OO Handle - Inside Fixing



				N°
Mini OO Handle	95mm	-	Left/Right	FMA162

■ **Composition**

Base and handle: aluminium
 Trims and spur: nylon

■ **Fastening**

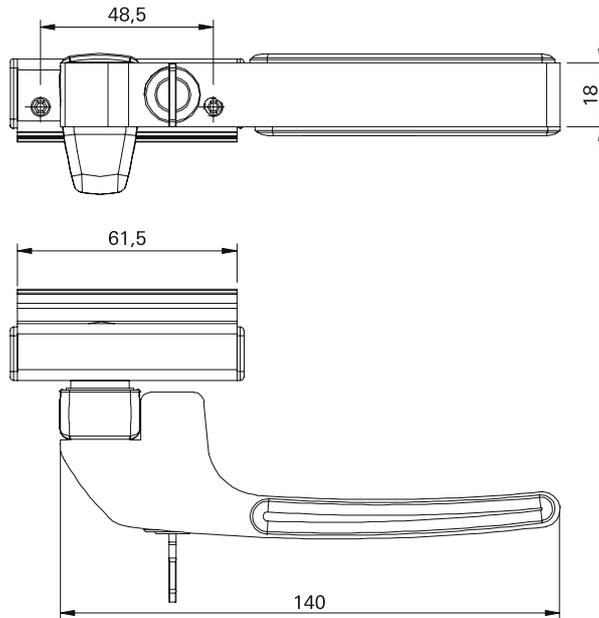
Stainless steel screws M4 x 10

■ **Packaging**

1 handle (L or R) plus fastening screws



FMA166N
OO Handle - Front Fixing



Saturno OO Handle	140mm	✓	Left/Right	FMA166N

■ **Composition**

Base and handle: aluminium
 Trims and spur: nylon
 Cylinder zamak; chrome key

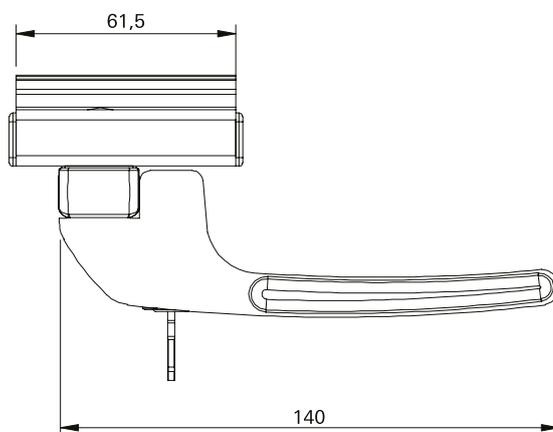
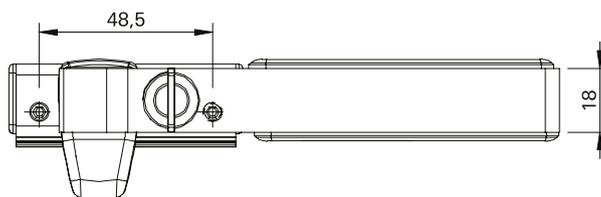
■ **Fastening**

Stainless steel screws M6 x 14

■ **Packaging**

1 handle (L or R) plus fastening screws

FMA167N
OO Handle - Front Fixing



				Nº
Saturno OO Handle	140mm	✓	Left/Right	FMA167N

■ **Composition**

Base and handle: aluminium
 Trims and spur: nylon
 Cylinder zamak; chrome key

■ **Fastening**

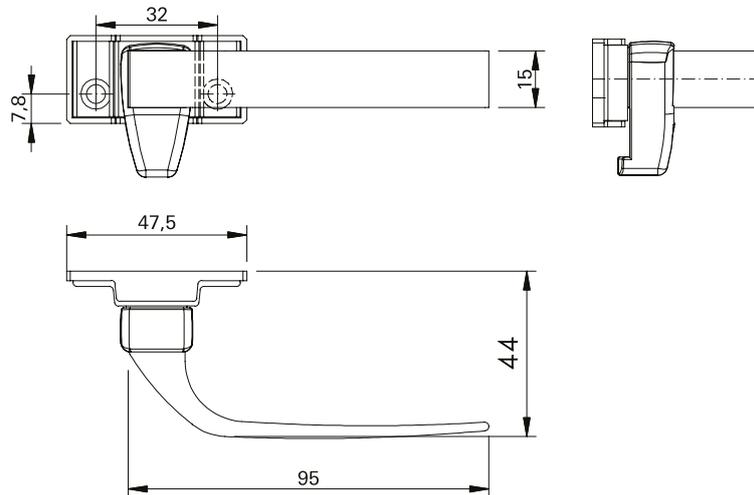
Stainless steel screws M6 x 14

■ **Packaging**

1 handle (L or R) plus fastening screws



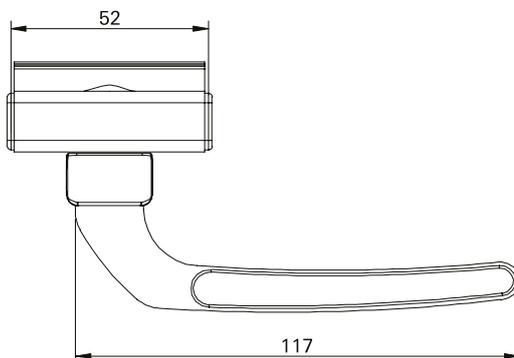
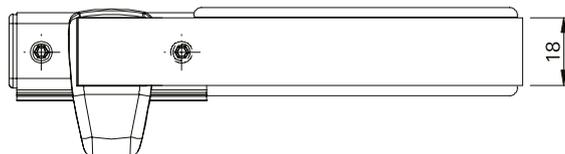
FMA187
OO Handle - Front Fixing



Mini OO Handle	95mm	-	Left/Right	FMA187

- **Composition**
Base and handle: aluminium
Trims and spur: nylon
- **Fastening**
Stainless steel screws M4 x 10
- **Packaging**
1 handle (L or R) plus fastening screws

FMA190
OO Handle - Front Fixing



Saturno OO Handle	117mm	-	Left/Right	FMA190

Armoni design optional, page 88.

■ **Composition**

Base and handle: aluminium
 Trims and spur: nylon

■ **Fastening**

Stainless steel screws M6 x 14

■ **Packaging**

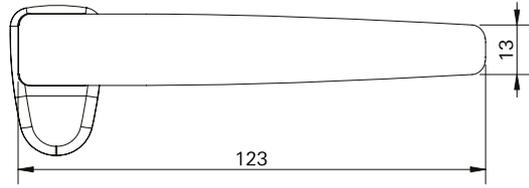
1 handle (L or R) plus fastening screws



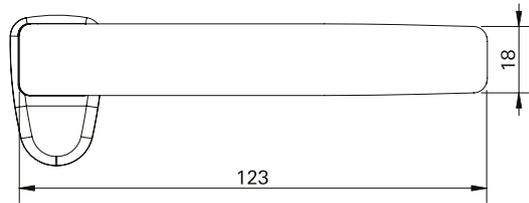
Window Handles
Armoni



ARM01

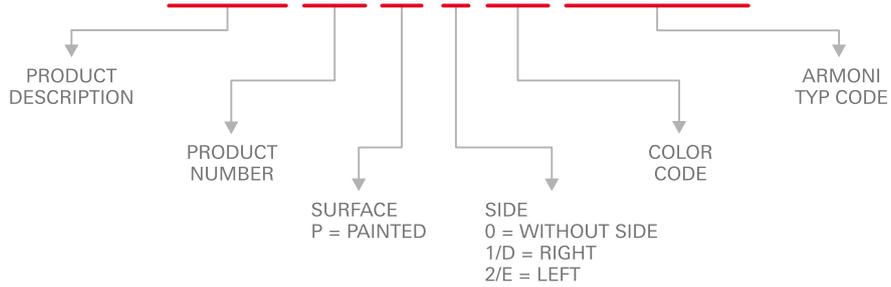


ARM02



Local product code formation

FMA 03 P 1 21 ARM01



EXAMPLES:

FMA03P121ARM02

FMA04P121ARM02

NOTE: Standard numeric Roto partnumbers available for some items. Creation upon request.
Just only for handles without lock.



Inline



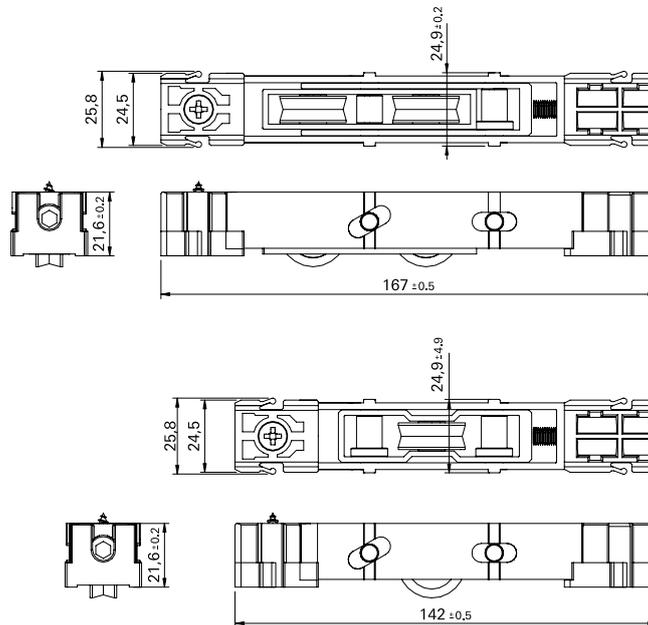
ROL129N | ROL128N
Inline Rollers



- **ROL129N**
Strong Fit Single Roller - Max. 150kg sash weight
- **ROL128N**
Strong Fit Tandem Roller - Max. 300kg sash weight

Product description

- Adjustable height
- With bearing
- No profile drilling required



■ **Composition**

Structure: aluminum
Guides: synthetic material (nylon)
Bearing: steel
Adjustment screws: stainless steel M6 x 25
Adjustment axis: stainless steel

■ **Fastening**

Fixing screws: stainless steel 4,8 x 16

■ **Packaging**

2 rollers plus fastening/adjustment screws

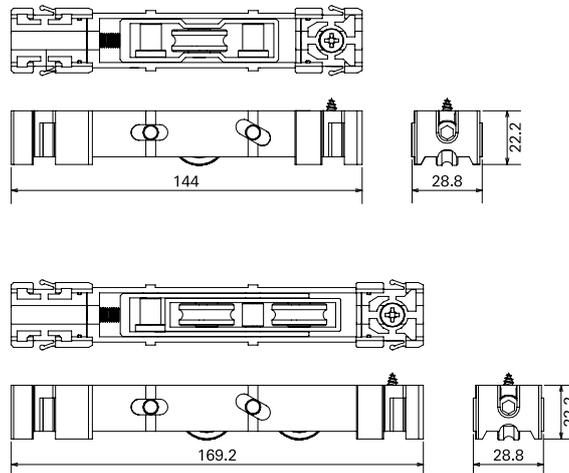
ROL136 | ROL137
Inline Rollers



- **ROL136**
Strong Fit Single Roller - Max. 150kg sash weight
- **ROL137**
Strong Fit Tandem Roller - Max. 300kg sash weight

Product description

- Adjustable height
- With bearing
- No profile drilling required



■ **Composition**

Structure: aluminum
Guides: synthetic material (nylon)
Bearing: steel
Adjustment screws: stainless steel M6 x 25
Adjustment axis: stainless steel

■ **Fastening**

Fixing screws: stainless steel 4,8 x 16

■ **Packaging**

2 rollers plus fastening/adjustment screws



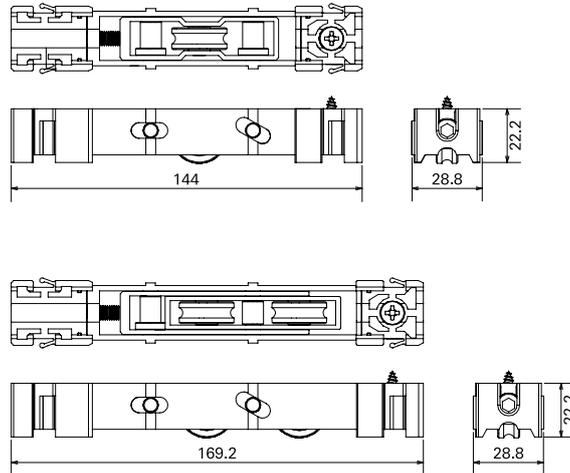
ROL138 | ROL139
Inline Rollers



- **ROL138**
Strong Fit Single Roller - Max. 150kg sash weight
- **ROL139**
Strong Fit Tandem Roller - Max. 300kg sash weight

Product description

- Adjustable height
- With bearing
- No profile drilling required



■ **Composition**

Structure: aluminum
Guides: synthetic material (nylon)
Bearing: steel
Adjustment screws: stainless steel M6 x 25
Adjustment axis: stainless steel

■ **Fastening**

Fixing screws: stainless steel 4,8 x 16

■ **Packaging**

2 rollers plus fastening/adjustment screws

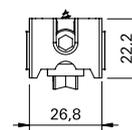
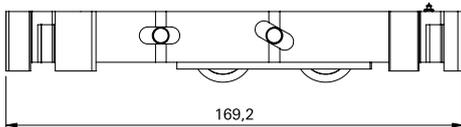
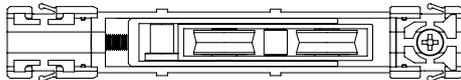
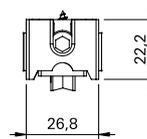
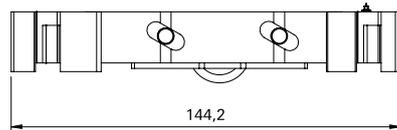
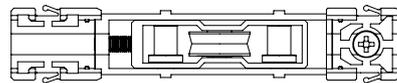
ROL140 | ROL141
Inline Rollers



- **ROL140**
Strong Fit Single Roller - Max. 150kg sash weight
- **ROL141**
Strong Fit Tandem Roller - Max. 300kg sash weight

Product description

- Adjustable height
- With bearing
- No profile drilling required



■ **Composition**

Structure: aluminum
Guides: synthetic material (nylon)
Bearing: steel
Adjustment screws: stainless steel M6 x 25
Adjustment axis: stainless steel

■ **Fastening**

Fixing screws: stainless steel 4,8 x 16

■ **Packaging**

2 rollers plus fastening/adjustment screws

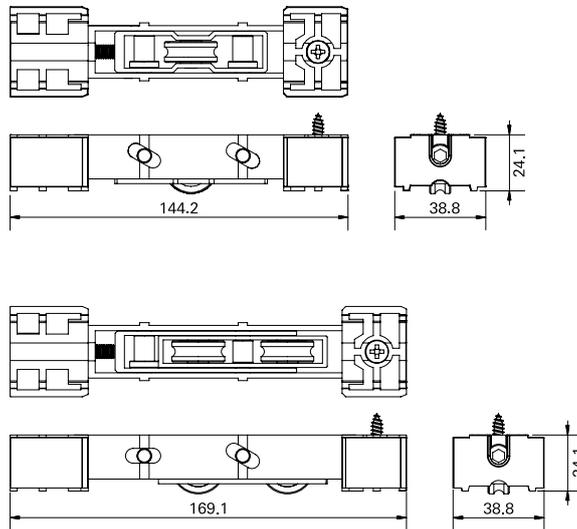
ROL142 | ROL143
Inline Rollers



- **ROL142**
Strong Fit Single Roller - Max. 150kg sash weight
- **ROL143**
Strong Fit Tandem Roller - Max. 300kg sash weight

Product description

- Adjustable height
- With bearing
- No profile drilling required



■ **Composition**

Structure: aluminum
Guides: synthetic material (nylon)
Bearing: steel
Adjustment screws: stainless steel M6 x 25
Adjustment axis: stainless steel

■ **Fastening**

Fixing screws: stainless steel 4,8 x 16

■ **Packaging**

2 rollers plus fastening/adjustment screws

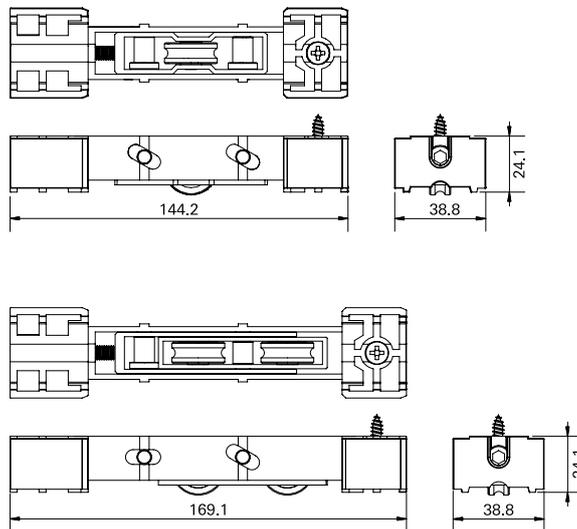
ROL144 | ROL145
Inline Rollers



- **ROL144**
Strong Fit Single Roller - Max. 150kg sash weight
- **ROL145**
Strong Fit Tandem Roller - Max. 300kg sash weight

Product description

- Adjustable height
- With bearing
- No profile drilling required



■ **Composition**

Structure: aluminum
Guides: synthetic material (nylon)
Bearing: steel
Adjustment screws: stainless steel M6 x 25
Adjustment axis: stainless steel

■ **Fastening**

Fixing screws: stainless steel 4,8 x 16

■ **Packaging**

2 rollers plus fastening/adjustment screws



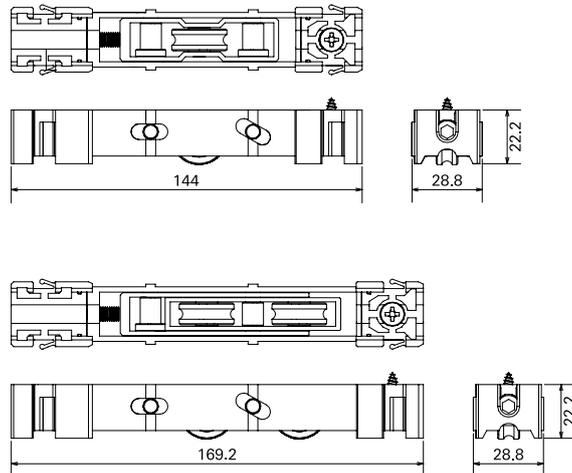
ROL146 | ROL147
Inline Rollers



- **ROL146**
Strong Fit Single Roller - Max. 150kg sash weight
- **ROL147**
Strong Fit Tandem Roller - Max. 300kg sash weight

Product description

- Adjustable height
- With bearing
- No profile drilling required



■ **Composition**

Structure: aluminum
Guides: synthetic material (nylon)
Bearing: steel
Adjustment screws: stainless steel M6 x 25
Adjustment axis: stainless steel

■ **Fastening**

Fixing screws: stainless steel 4,8 x 16

■ **Packaging**

2 rollers plus fastening/adjustment screws

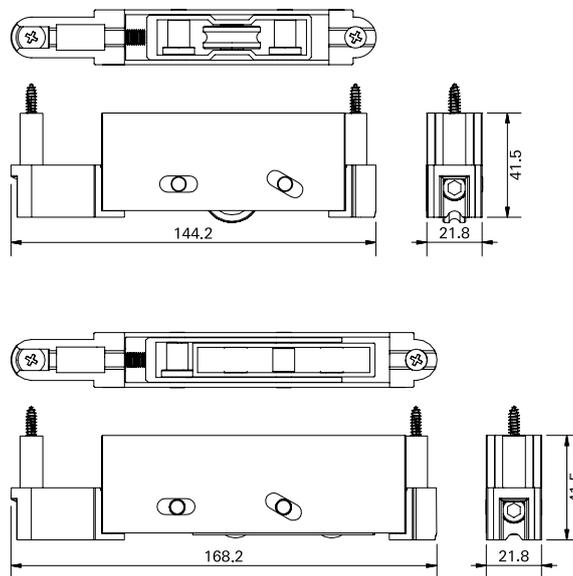
ROL148 | ROL149
Inline Rollers



- **ROL148**
Strong Fit Single Roller - Max. 150kg sash weight
- **ROL149**
Strong Fit Tandem Roller - Max. 300kg sash weight

Product description

- Adjustable height
- With bearing
- No profile drilling required



■ **Composition**

Structure: aluminum
Guides: synthetic material (nylon)
Bearing: steel
Adjustment screws: stainless steel M6 x 25
Adjustment axis: stainless steel

■ **Fastening**

Fixing screws: stainless steel 4,8 x 16

■ **Packaging**

2 rollers plus fastening/adjustment screws

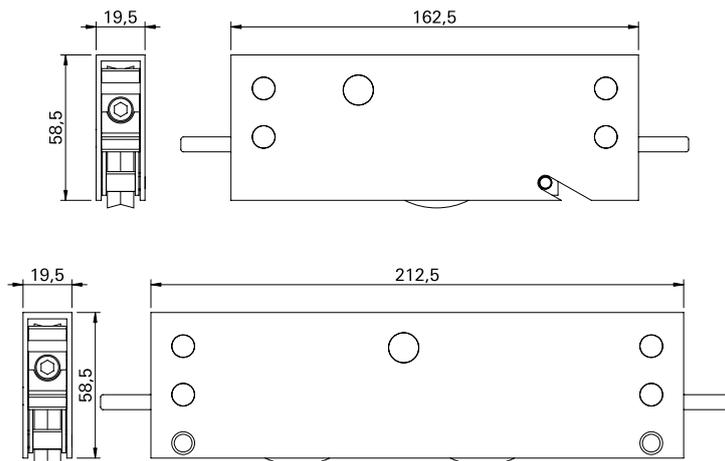
ROL80N | ROL81N
Inline Rollers



- **ROL80N**
Strong Single Roller - Max. 130kg sash weight
- **ROL81N**
Strong Tandem Roller - Max. 260kg sash weight

Product description

- Adjustable height
- With bearing
- Profile drilling required



■ **Composition**

Trestle, wheel support, aluminum base and axles
Wheel w/ nylon- and fiber-coated shielded bearing

■ **Fastening**

Stainless screws

■ **Packaging**

2 rollers plus fastening/adjustment screws

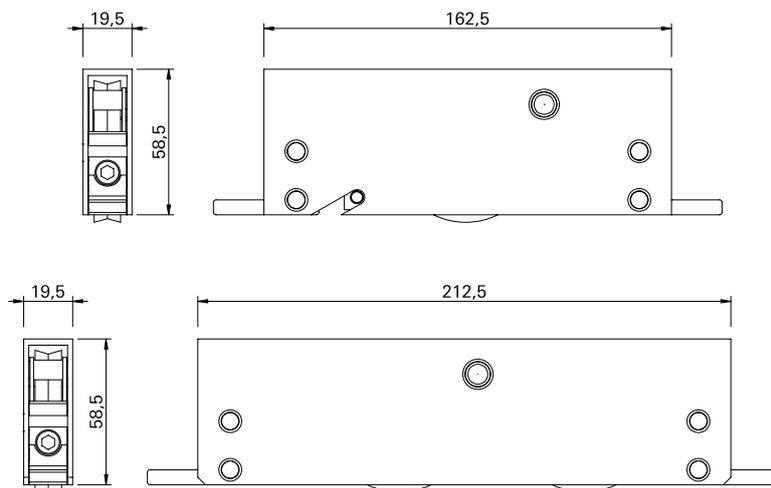
ROL82N | ROL83N
Inline Rollers



- **ROL82N**
Strong Single Roller - Max. 130kg sash weight
- **ROL83N**
Strong Tandem Roller - Max. 260kg sash weight

Product description

- Adjustable height
- With bearing
- Profile drilling required



■ **Composition**

Trestle, wheel support, aluminum base and axles
Wheel w/ nylon- and fiber-coated shielded bearing

■ **Fastening**

Stainless screws

■ **Packaging**

2 rollers plus fastening/adjustment screws



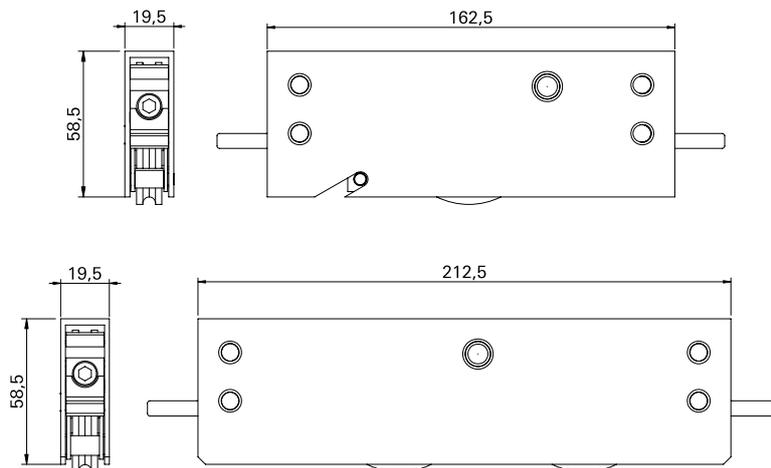
ROL84N | ROL85N
Inline Rollers



- **ROL84N**
Strong Single Roller - Max. 130kg sash weight
- **ROL85N**
Strong Tandem Roller - Max. 260kg sash weight

Product description

- Adjustable height
- With bearing
- Profile drilling required



■ **Composition**

Trestle, wheel support, aluminum base and axles
Wheel w/ nylon- and fiber-coated shielded bearing

■ **Fastening**

Stainless screws

■ **Packaging**

2 rollers plus fastening/adjustment screws

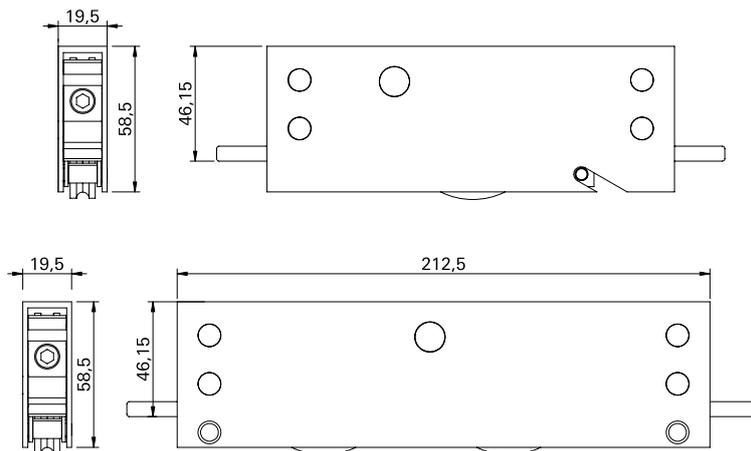
ROL124N | ROL125N
Inline Rollers



- **ROL124N**
Strong Single Roller - Max. 130kg sash weight
- **ROL125N**
Strong Tandem Roller - Max. 260kg sash weight

Product description

- Adjustable height
- With bearing
- Profile drilling required



- **Composition**
Trestle, wheel support, aluminum base and axles
Wheel w/ nylon- and fiber-coated shielded bearing
- **Fastening**
Stainless screws
- **Packaging**
2 rollers plus fastening/adjustment screws

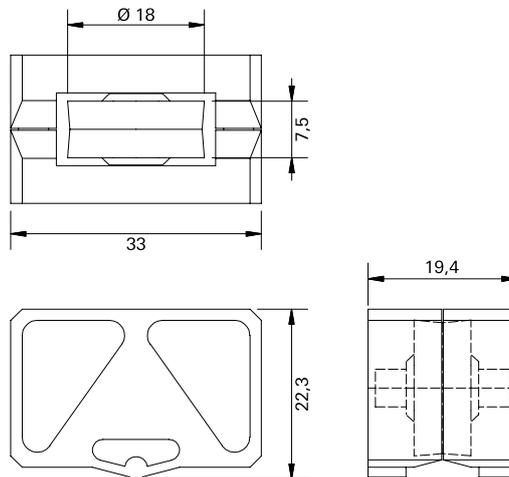
ROL05 | ROL06
Inline Rollers



- **ROL05**
Single Roller without bearing - Max. 15kg sash weight
- **ROL06**
Single Roller with bearing - Max. 40kg sash weight

Product description

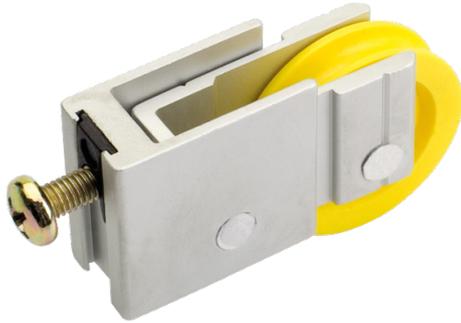
- Fixed height



- **ROL05**
- **Composition**
Nylon wheel, trestle
Aluminum wheel axle
- **Packaging**
100 rollers

- **ROL06**
- **Composition**
Nylon wheel, trestle
Steel/nylon bearing
- **Packaging**
100 rollers

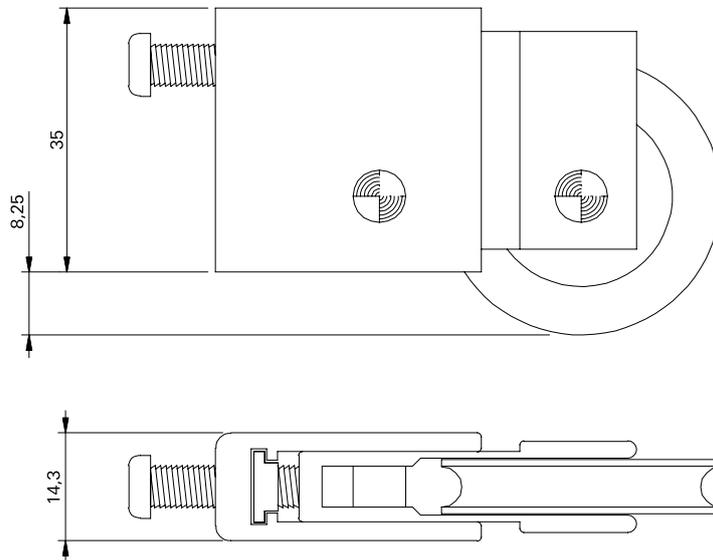
ROL10
Inline Rollers



- **ROL10**
Single Roller - Max. 15kg sash weight

Product description

- Fixed height
- Without bearing



- **Composition**
Aluminum trestle/wheel support/wheel axle
Polyacetal wheel
Nylon bolt brake
- **Fastening**
Carbon M6 x 20 bolt
- **Packaging**
2 rollers plus fastening/adjustment screws

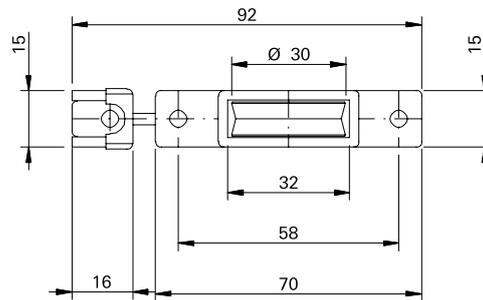
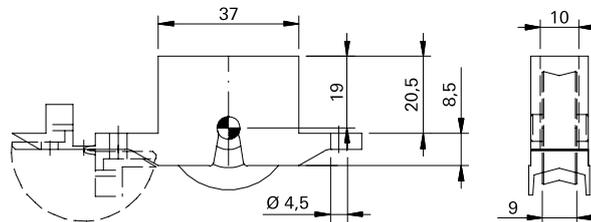
ROL13
Inline Rollers



- **ROL13**
Single Roller - Max. 40kg sash weight

Product description

- Fixed height
- With bearing



- **Composition**
Nylon trestle
Steel/nylon bearing
- **Packaging**
2 rollers

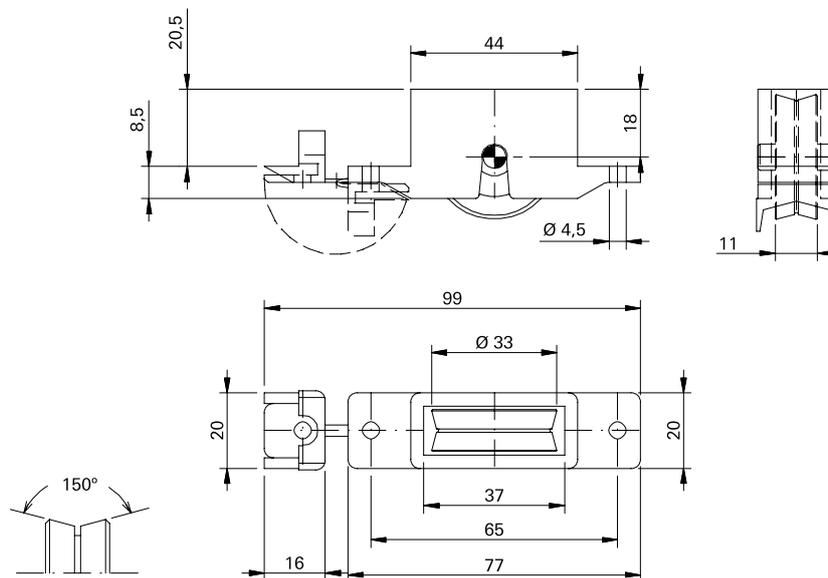
ROL17
Inline Rollers



- **ROL17**
Single Roller - Max. 70kg sash weight

Product description

- Fixed height
- With bearing



- **Composition**
Nylon trestle
Steel/nylon bearing

- **Packaging**
2 rollers

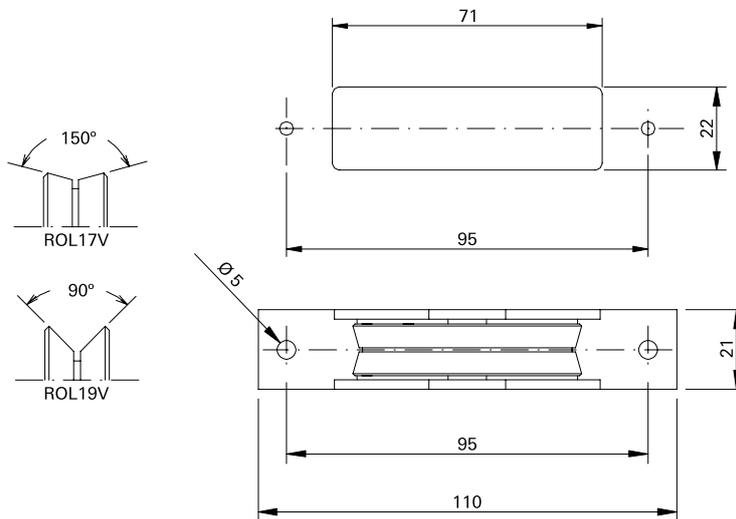
ROL17V | ROL19V
Inline Rollers



- **ROL17V | ROL19V**
Single Roller - Max. 70kg sash weight

Product description

- Fixed height
- With bearing



- **Composition**
Aluminum trestle and axle
Nylon wheel
Steel bearing

- **Packaging**
2 rollers

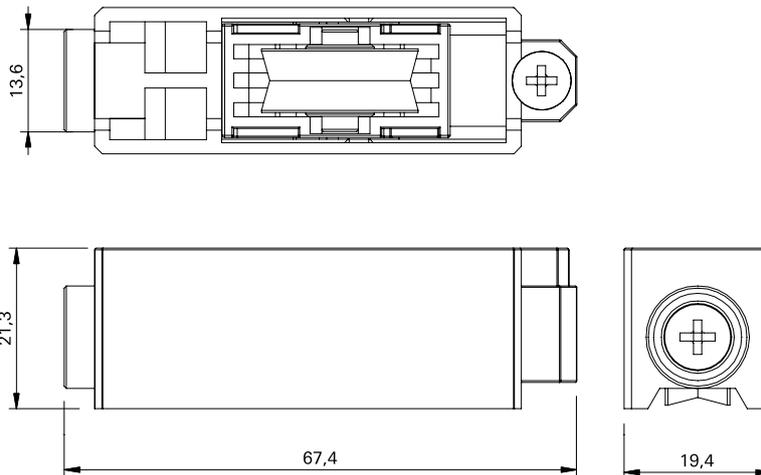
ROL37N | ROL38N
Inline Rollers



- **ROL37N**
Single Roller with bearing - Max. 40kg sash weight
- **ROL38N**
Single Roller without bearing - Max. 15kg sash weight

Product description

- Adjustable height



- **Composition**
Nylon and fiber trestle/ wheel support
Wheels w/ nylon/bichromated steel bearing
- **Fastening**
Stainless 3.9 x 13 screws
Stainless M5 x 20 bolts
- **Packaging**
2 rollers plus fastening/adjustment screws

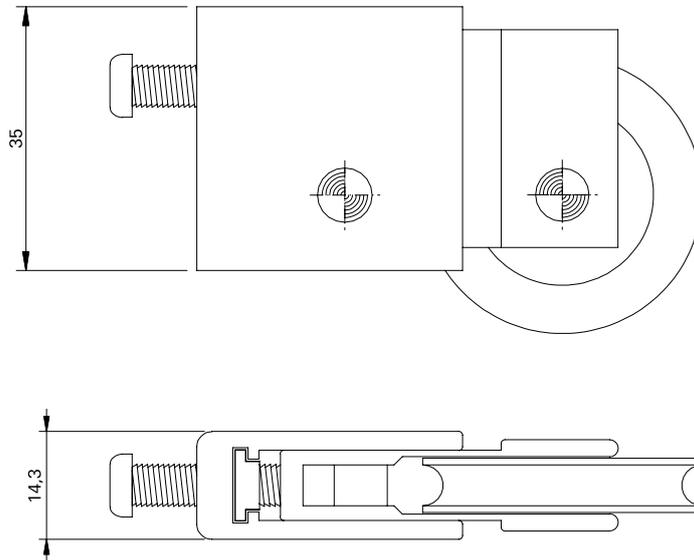
ROL53
Inline Rollers



- **ROL53**
Single Roller - Max. 100kg sash weight

Product description

- Adjustable height
- With bearing



- **Composition**
Aluminum trestle/ wheel support/wheel axle
Polyacetal wheel
Nylon bolt brake
Shielded bearing
- **Fastening**
Carbon M6 x 20 bolt
- **Packaging**
2 rollers plus fastening/adjustment screws

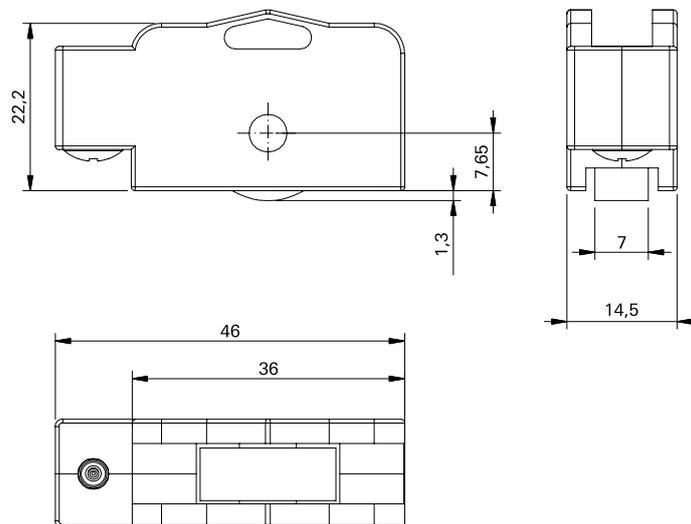
ROL55 | ROL56
Inline Rollers



- **ROL55**
Single Roller without bearing - Max. 15kg sash weight
- **ROL56**
Single Roller with bearing - Max. 30kg sash weight

Product description

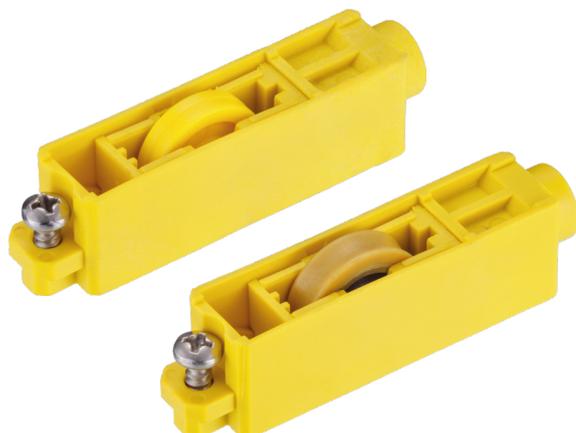
- Fixed height



- **ROL55**
- **Composition**
Nylon trestle/ wheel
- **Fastening**
Stainless Bolt
- **Packaging**
100 rollers plus fastening/adjustment screws

- **ROL56**
- **Composition**
Nylon trestle/ wheel
Steel bearing
- **Fastening**
Stainless 3.9 x 9.5 bolt
- **Packaging**
100 rollers plus fastening/adjustment screws

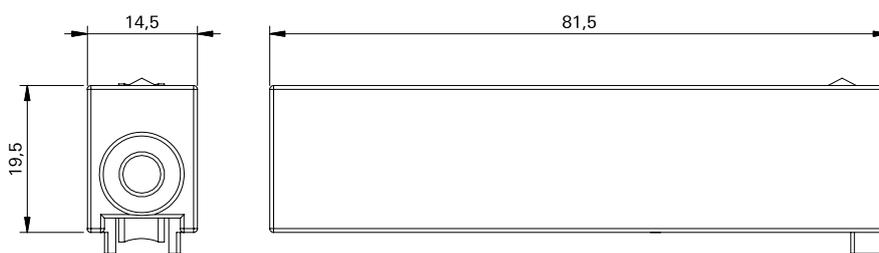
ROL57N | ROL58N
Inline Rollers



- **ROL57N**
Single Roller without bearing - Max. 15kg sash weight
- **ROL58N**
Single Roller with bearing - Max. 30kg sash weight

Product description

- Adjustable height



- **Composition**
Nylon trestle, wheel support, wheel
Aluminum wheel axle
- **Fastening**
Stainless 3.9 x 13 screws
Stainless M5 x 20 bolts
- **Packaging**
2 rollers plus fastening/adjustment screws

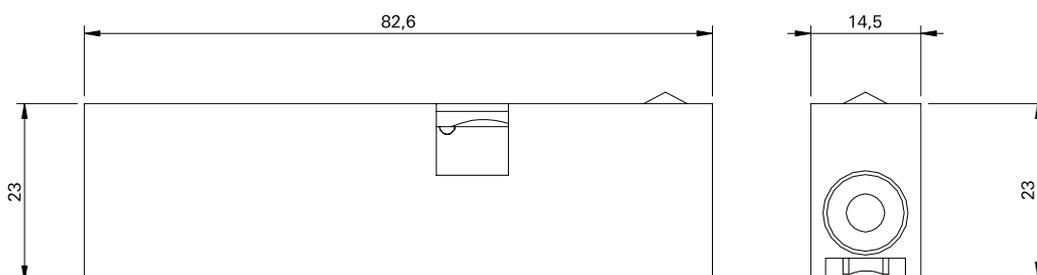
ROL59
Inline Rollers



- **ROL59**
Single Roller - Max. 40kg sash weight

Product description

- Adjustable height
- With bearing



■ **Composition**

Nylon trestle
Nylon wheel
Zamak wheel
Steel bearing

■ **Fastening**

Stainless 3.9 x 9.5 cm screws
Stainless M5 x 20 bolts

■ **Packaging**

2 rollers plus fastening/adjustment screws

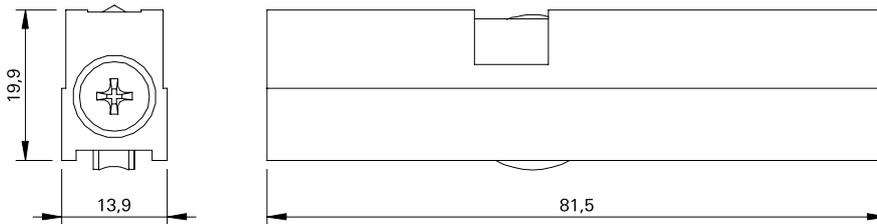
ROL61 | ROL62
Inline Rollers



- **ROL61**
Single Roller without bearing - Max. 15kg sash weight
- **ROL62**
Single Roller with bearing - Max. 30kg sash weight

Product description

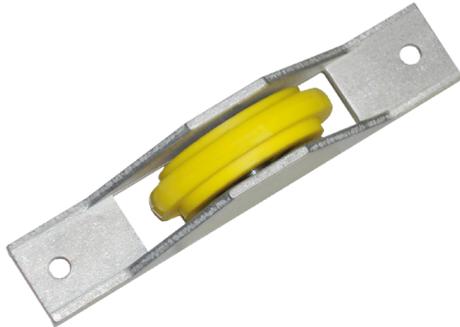
- Adjustable height



- **ROL61**
- **Composition**
Nylon trestle/wheel
Zamak wheel support
Aluminium axle
- **Fastening**
Stainless 3.9 x 9.5 cm screws
Stainless M5 x 20 bolts
- **Packaging**
10 rollers plus fastening/adjustment screws

- **ROL62**
- **Composition**
Nylon trestle/wheel
Zamak wheel support
Steel bearing
- **Fastening**
Stainless 3.9 x 9.5 cm screws
Stainless M5 x 20 bolts
- **Packaging**
10 rollers plus fastening/adjustment screws

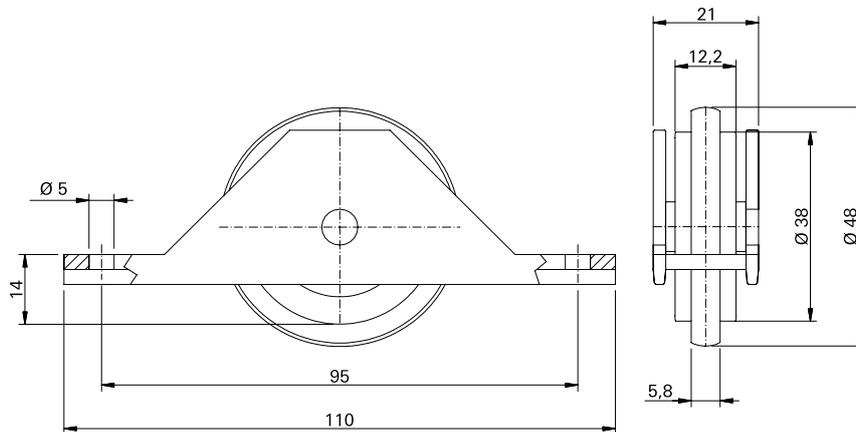
ROL70
Inline Rollers



- **ROL70**
Single Roller - Max. 100kg sash weight

Product description

- Fixed height
- With bearing



- **Composition**
Aluminum trestle and axle
Wheel with shielded bearing
- **Packaging**
2 rollers

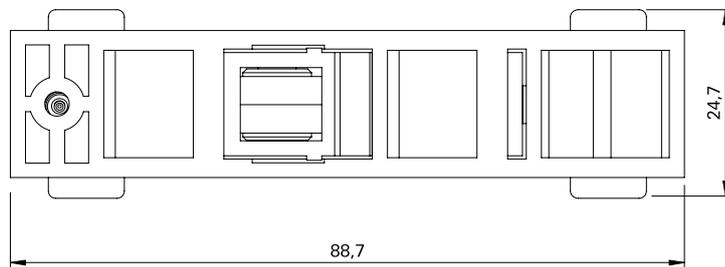
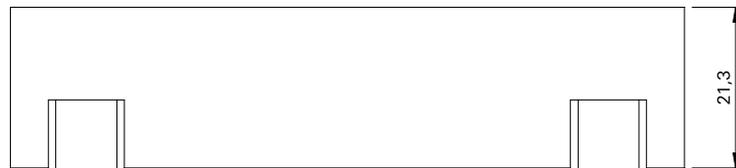
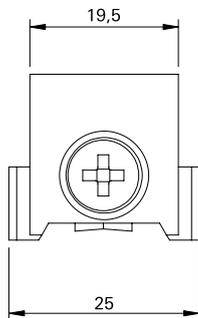
ROL71N
Inline Rollers



- **ROL71N**
Single Roller - Max. 40kg sash weight

Product description

- Adjustable height
- With bearing



- **Composition**
Nylon and fiber trestle/ wheel support
Steel/ nylon bearing
- **Fastening**
Stainless 3.9 x 13 screws
Stainless M5 x 20 bolts
- **Packaging**
2 rollers plus fastening/adjustment screws

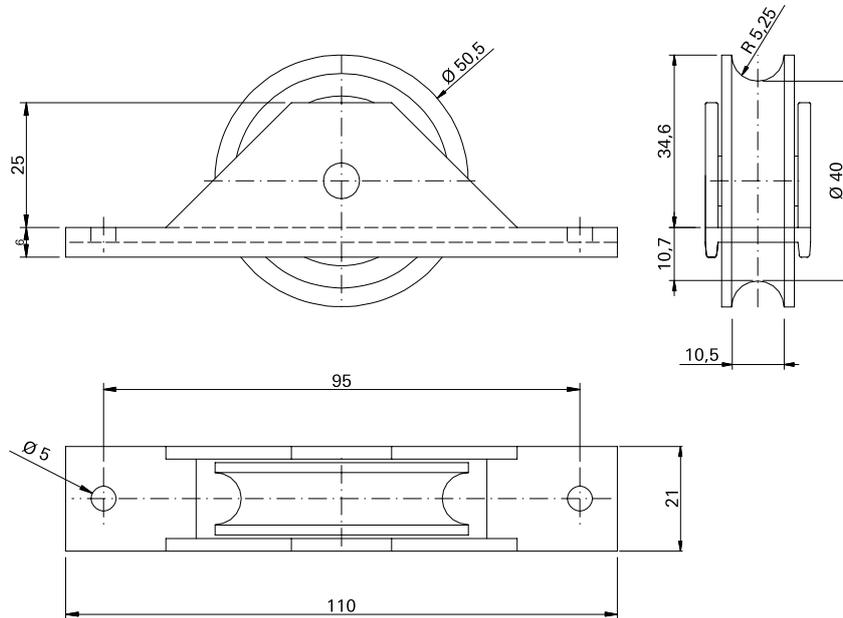
ROL100N
Inline Rollers



- **ROL100N**
Single Roller - Max. 100kg sash weight

Product description

- Fixed height
- With bearing



- **Composition**
Aluminum trestle and axle
Wheel w/ shielded bearing
Finish: polished

- **Packaging**
2 rollers

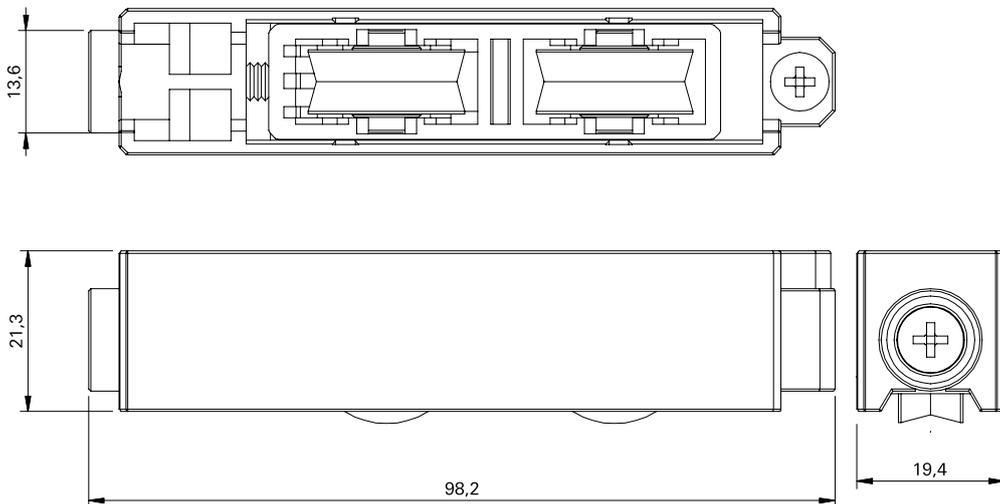
ROL39N
Inline Rollers



- **ROL39N**
Tandem Roller - Max. 80kg sash weight

Product description

- Adjustable height
- With bearing



■ **Composition**

Nylon and fiber trestle/ wheel support
Wheels w/ nylon/bichromated steel bearing

■ **Fastening**

Stainless M5 x 20 screws
Stainless 3.9 x 13 bolts

■ **Packaging**

2 rollers plus fastening/adjustment screws

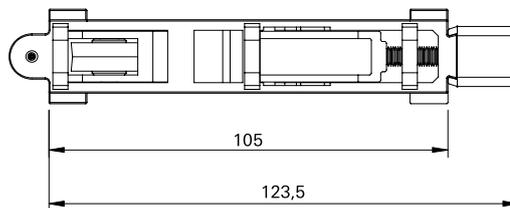
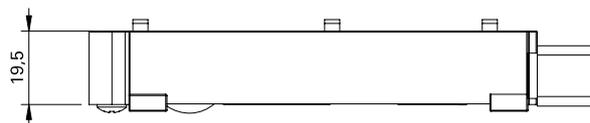
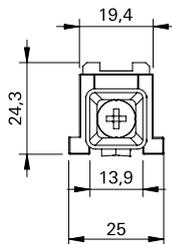
ROL40N
Inline Rollers



- **ROL40N**
Tandem Roller - Max. 80kg sash weight

Product description

- Adjustable height
- With bearing



- **Composition**
Nylon trestle/ wheel support
Steel/ nylon bearing
- **Fastening**
Stainless M5 x 20 screws
Stainless 3.9 x 13 bolts
- **Packaging**
2 rollers plus fastening/adjustment screws

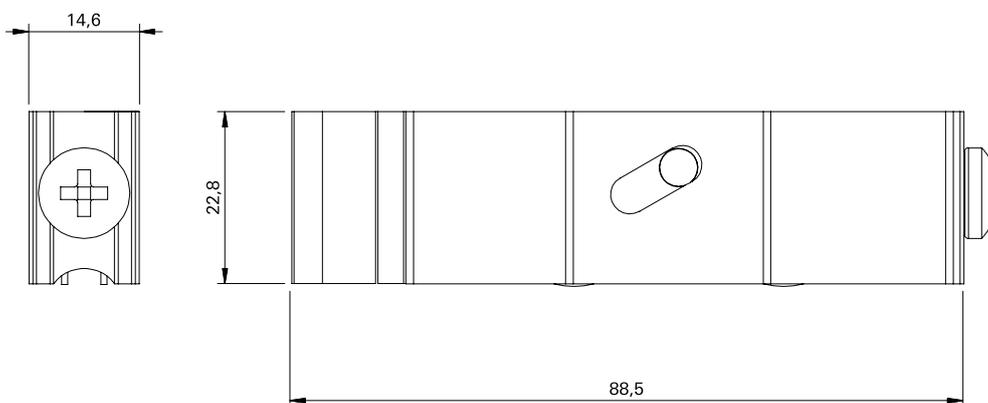
ROL78
Inline Rollers



- **ROL78**
Tandem Roller - Max. 60kg sash weight

Product description

- Adjustable height
- With bearing



- **Composition**
Aluminum trestle, wheel support
Nylon wheel
Steel bearing
- **Fastening**
Galvanized Steel M6 x 20 screws
Stainless 3.9 x 13 bolts
- **Packaging**
2 rollers plus fastening/adjustment screws

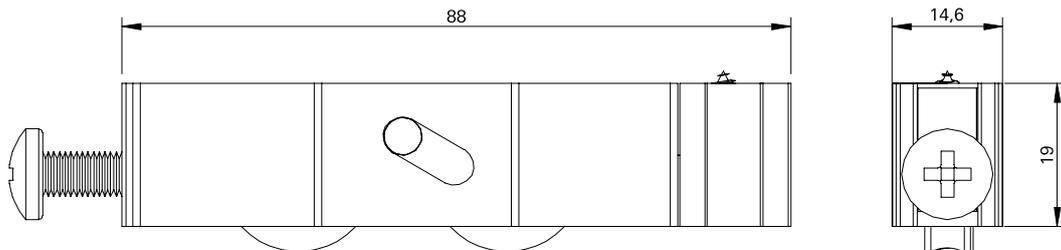
ROL99
Inline Rollers



- **ROL99**
Tandem Roller - Max. 60kg sash weight

Product description

- Adjustable height
- With bearing



- **Composition**
Aluminum trestle and wheel support
Nylon/steel wheel
Nylon sliding block, brake
- **Fastening**
Galvanized Steel M6 x 20 screws
Stainless 3.9 x 13 bolts
- **Packaging**
2 rollers plus fastening/adjustment screws

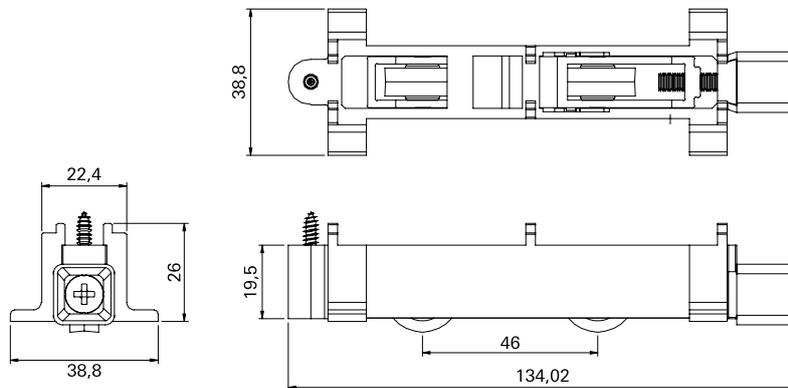
ROL102
Inline Rollers



- **ROL102**
Tandem Roller - Max. 60kg sash weight

Product description

- Adjustable height
- With bearing



■ **Composition**

Nylon trestle, bolt guide
Aluminum wheel support
Nylon/steel wheel

■ **Fastening**

Stainless M5 x 25 screws
Stainless 3.9 x 19 bolts

■ **Packaging**

2 rollers plus fastening/adjustment screws

FEC121N | FEC122N
Inline Handles

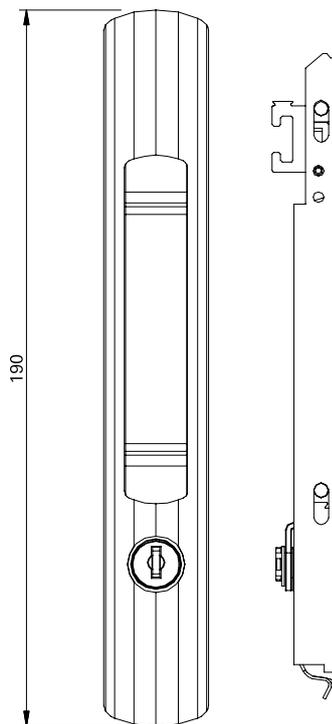
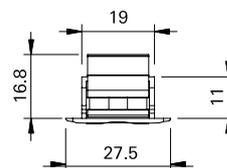


- **FEC121N**
DUO Standard single-point pull handle

- **FEC122N**
DUO Lockable single-point pull handle

Product description

- Length: 192mm
- Automatic function
- Standard locking system - hooks
- Invisible screws fixing



- **FEC121N**
- **Composition**
Aluminum base and bracket
Latch, stainless steel spring
Polyacetal stop pin
- **Fastening**
Stainless M5 x 6 bolts
- **Packaging**
1 handle set plus fastening screws

- **FEC122N**
- **Composition**
Aluminum base and bracket
Latch, stainless steel spring
Steel lock cylinder and spring
Lock support, polyacetal stop pin
- **Fastening**
Stainless M5 x 6 bolts
- **Packaging**
1 handle set plus fastening screws



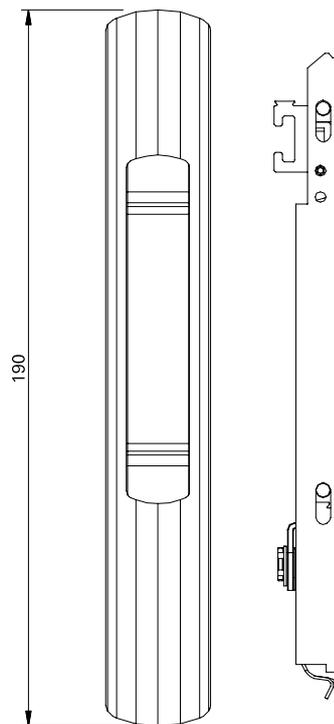
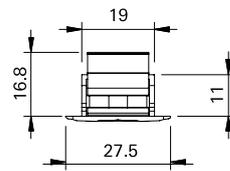
CON11N
Inline Handles



- **CON11N**
DUO - Finger pull handle

Product description

- Length: 192mm
- Invisible screws fixing



- **Composition**
Aluminum base and bracket
Stainless steel latch

- **Packaging**
1 handle

FEC129 | FEC129S
Inline Handles

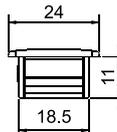


- **FEC129**
Easy Touch - Standard single-point pull handle
- **FEC129S**
Easy Touch - Standard single-point pull handle

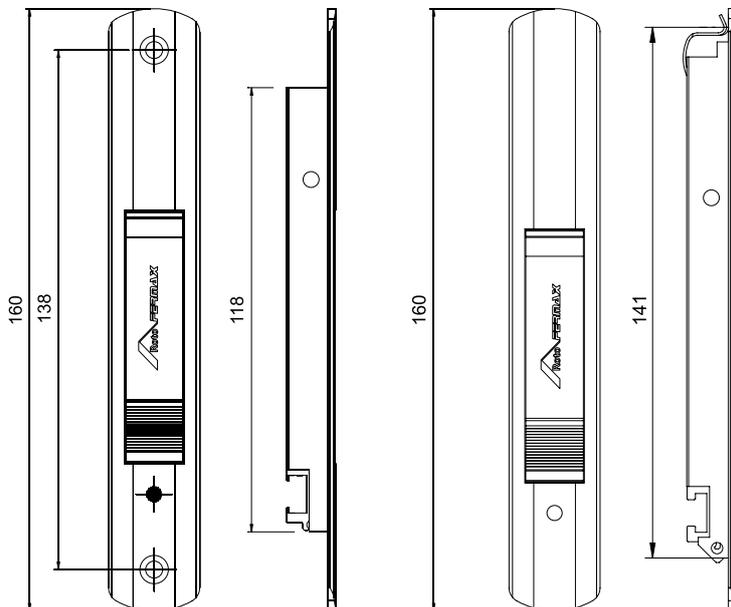
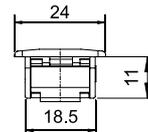
Product description

- One-touch function
- Length: 160mm
- Horizontal locking
- Exterior visible/invisible screw-fixing
- Standard locking system - hooks

■ **FEC129**



■ **FEC129S**



■ **FEC129**

■ **Composition**

- Aluminium base
- Steel spring
- Polyacetal stop pin

■ **Fastening**

- Stainless 4.2 x 8 screws
- Stainless M6 x 6 bolts

■ **Packaging**

- 1 handle set plus fastening screws

■ **FEC129S**

■ **Composition**

- Aluminium base
- Steel spring
- Polyacetal stop pin

■ **Fastening**

- Stainless M6 x 6 bolts

■ **Packaging**

- 1 handle set plus fastening screws



FEC131 | FEC132 | FEC133
Inline Handles

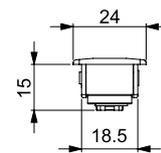


- **FEC131**
Easy Touch - Standard single-point pull handle
- **FEC132**
Easy Touch - Lockable single-point pull handle
- **FEC133**
Easy Touch - Push button single-point pull handle

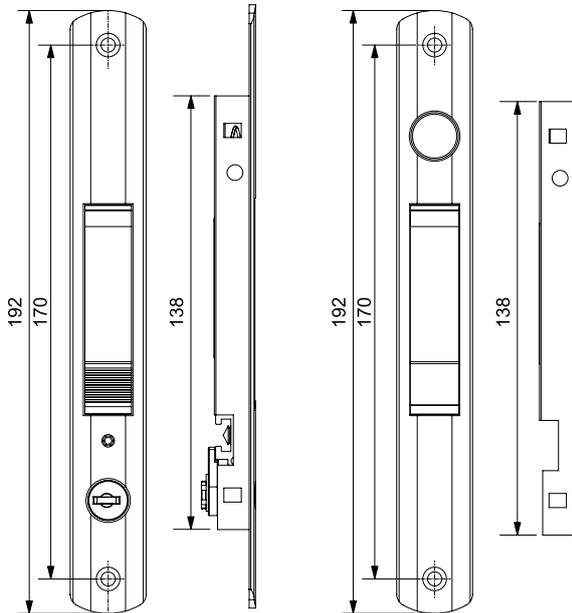
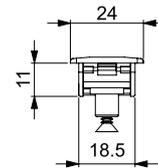
Product description

- One-touch function
- Length: 192mm
- Horizontal locking
- Exterior visible screw-fixing
- Standard locking system - hooks

■ **FEC131 | FEC132**



■ **FEC133**



- **FEC131**
- **Composition**
Aluminium base
Steel spring
Zamak lock cylinder
Support, nylon lock latch
- **Fastening**
Stainless 4.2 x 8 screws
- **Packaging**
1 handle set plus fastening screws

- **FEC132**
- **Composition**
Aluminium base
Steel spring
Steel spring
Nickel-plated zamak clamp
Aluminium latch
- **Fastening**
Stainless Bolts
- **Packaging**
1 handle set plus fastening screws

- **FEC133**
- **Composition**
Aluminium base
Steel spring
Nylon activator button and support
Polyacetal stop pin
- **Fastening**
Stainless 4.2 x 8 screws
Stainless 3.9 x 16 bolts
- **Packaging**
1 handle set plus fastening screws

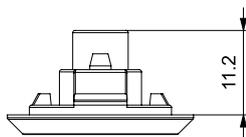
BAC01 | BAC02 | BAC03
Inline Handles



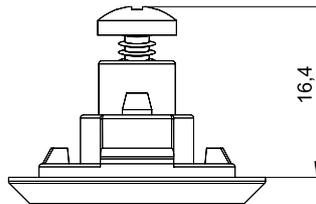
- **BAC01 | BAC02 | BAC03**
Easy Touch - Outside push button

Product description

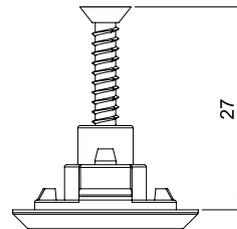
- Outside sash installation
- Color: black | white
- Standard locking system - hooks



■ **BAC01**



■ **BAC02**



■ **BAC03**

- **Composition**
Nylon framework
- **Packaging**
1 button



CON09 | CON09S
Inline Handles

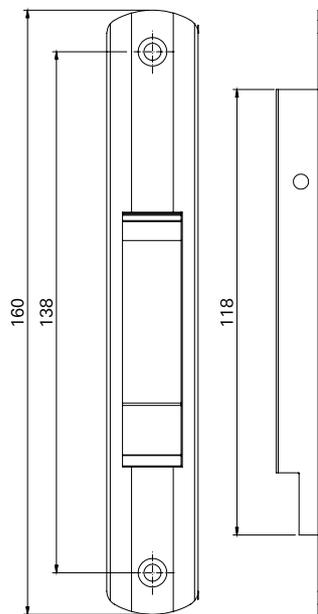
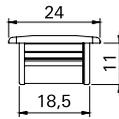


- **CON09**
Easy Touch Finger Pull Handle - exterior visible screw-fixing
- **CON09S**
Easy Touch Finger Pull Handle - exterior invisible screw-fixing

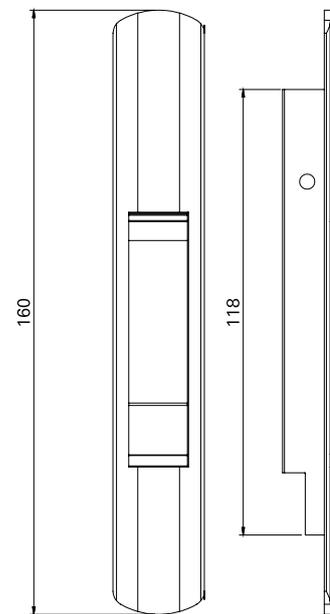
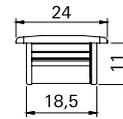
Product description

- Length: 160mm

■ **CON09**



■ **CON09S**



■ **CON09**

■ **Composition**

Aluminum base and bracket

■ **Fastening**

Stainless 4.2 x 8 screws

■ **Packaging**

1 handle set plus fastening screws

■ **CON09S**

■ **Composition**

Aluminum base and bracket

Nylon latch

■ **Packaging**

1 handle

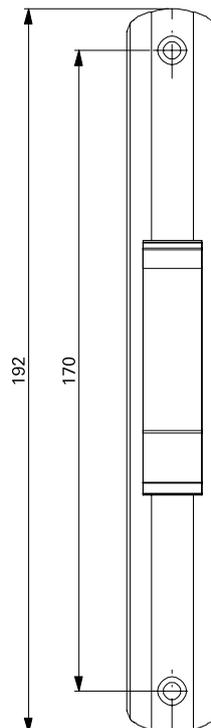
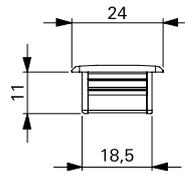
CON13
Inline Handles



- **CON13**
Easy Touch Finger Pull Handle

Product description

- Length: 192mm
- Exterior visible screw-fixing



- **Composition**
Aluminum base and bracket
- **Fastening**
Stainless 4.2 x 8 screws
- **Packaging**
1 handle set plus fastening screws



FEC93 | FEC94
Inline Handles

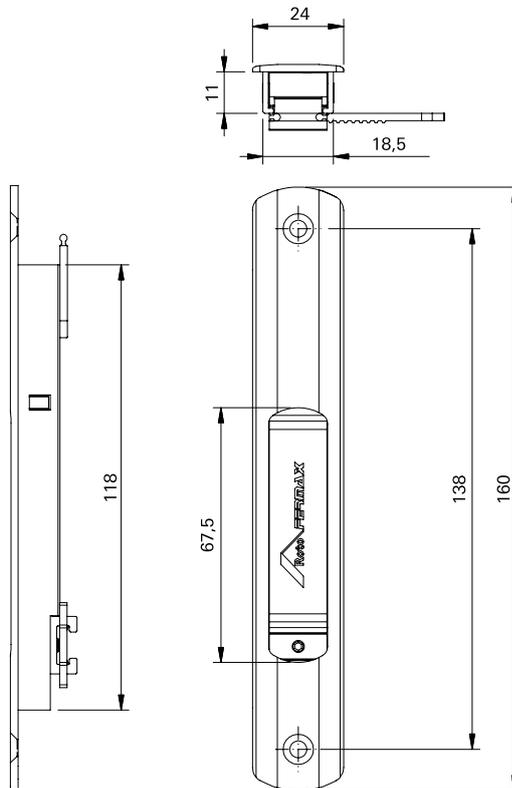


- **FEC93**
Standard single-point pull handle

- **FEC94**
Lockable single-point pull handle

Product description

- Length: 160mm
- Manual function
- Exterior visible screw-fixing
- Standard locking system - hooks



- **FEC93**
- **Composition**
Aluminum base and bracket
- **Fastening**
Stainless 4.2 x 8 screws
Stainless M5 x 6 bolts
- **Packaging**
1 handle set plus fastening screws

- **FEC94**
- **Composition**
Aluminum base and bracket
Brass key
- **Fastening**
Stainless steel lock panel
Stainless 4.2 x 8 screws
Stainless M5 x 6 bolt
- **Packaging**
1 handle set plus fastening screws

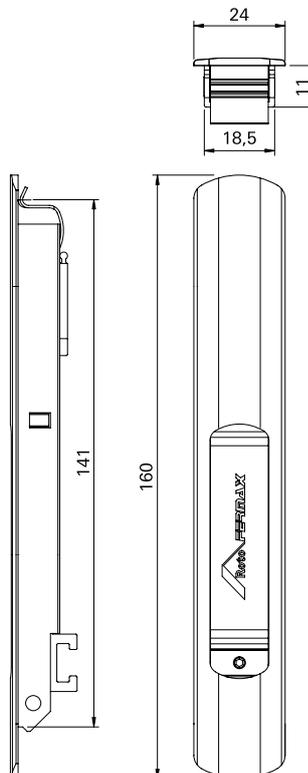
FEC16S | FEC19S
Inline Handles



- **FEC16S**
Standard single-point pull handle
- **FEC19S**
Lockable single-point pull handle

Product description

- Length: 160mm
- Manual function
- Exterior invisible screw-fixing
- Standard locking system - hooks



■ **Composition**

Structure and handle: aluminium
Trims: polyamide 6.6

■ **Fastening**

Stainless steel screws M6 x 6 + 4,2 x 8

■ **Packaging**

1 handle set plus fastening screws



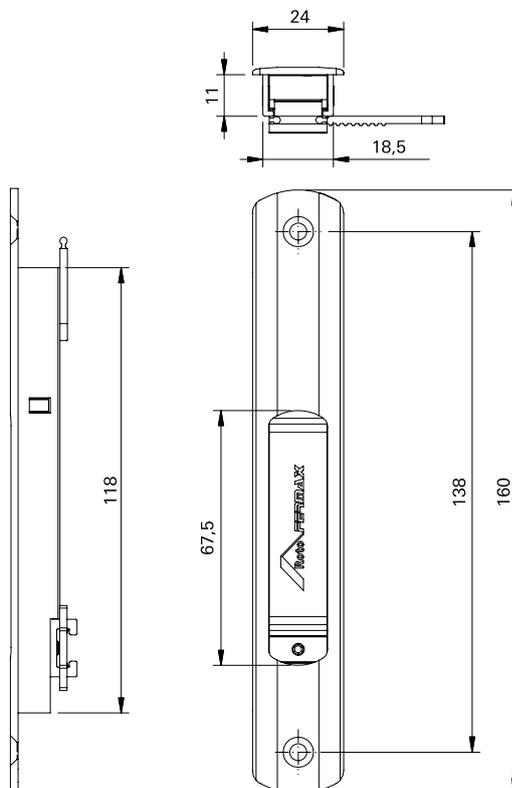
FEC125 | FEC126
Inline Handles



- **FEC125**
Standard single-point pull handle
- **FEC126**
Lockable single-point pull handle

Product description

- Length: 160mm
- Automatic function
- Exterior visible screw-fixing
- Standard locking system - hooks



- **Composition**
Structure and handle: aluminium
Trims: polyamide 6.6
- **Fastening**
Stainless steel screws M6 x 6 + 4,2 x 8
- **Packaging**
1 handle set plus fastening screws

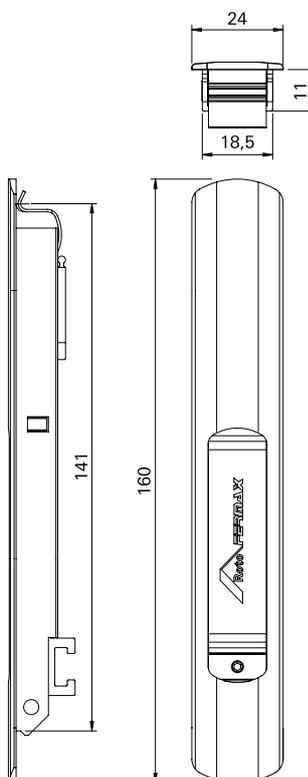
FEC37S | FEC38S
Inline Handles



- **FEC37S**
Standard single-point pull handle
- **FEC38S**
Lockable single-point pull handle

Product description

- Length: 160mm
- Automatic function
- Exterior invisible screw-fixing
- Standard locking system - hooks



■ **Composition**

Structure and handle: aluminium
Trims: polyamide 6.6

■ **Fastening**

Stainless steel screws M6 x 6 + 4,2 x 8

■ **Packaging**

1 handle set plus fastening screws



FEC95 | FEC96
Inline Handles

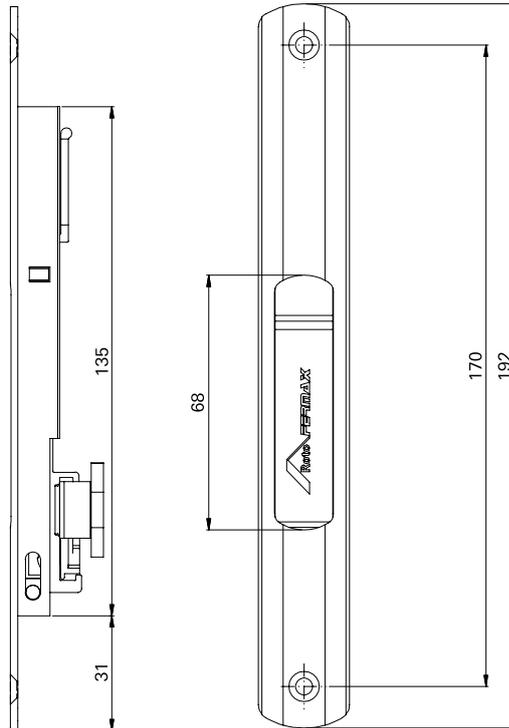
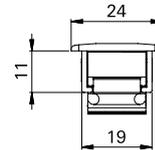


- **FEC95**
Standard single-point pull handle

- **FEC96**
Lockable single-point pull handle

Product description

- Length: 192mm
- Manual function
- Exterior visible screw-fixing
- Standard locking system - hooks



- **FEC95**
- **Composition**
Aluminum base and bracket
- **Fastening**
Stainless 4.2 x 8 screws
Stainless M5 x 10 bolt
- **Packaging**
1 handle set plus fastening screws

- **FEC96**
- **Composition**
Aluminum base and bracket
Brass key
- **Fastening**
Stainless steel lock panel
Stainless 4.2 x 8 screws
Stainless M5 x 10 bolt
- **Packaging**
1 handle set plus fastening screws

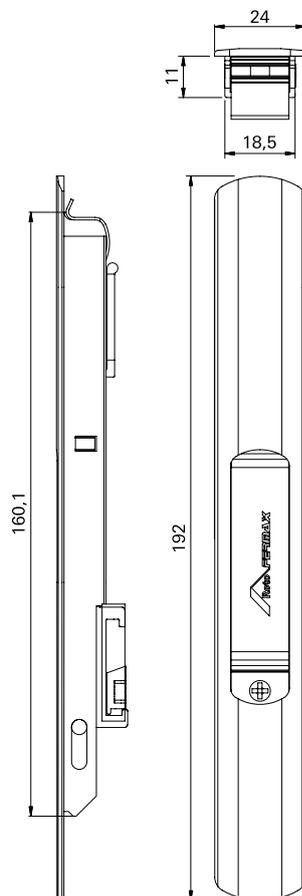
FEC42S | FEC44S
Inline Handles



- **FEC42S**
Standard single-point pull handle
- **FEC44S**
Lockable single-point pull handle

Product description

- Length: 192mm
- Manual function
- Exterior invisible screw-fixing
- Standard locking system - hooks



- **Composition**
Structure and handle: aluminium
Trims: polyamide 6.6
- **Fastening**
Stainless steel screws M6 x 6 + 4,2 x 8
- **Packaging**
1 handle set plus fastening screws



FEC127 | FEC128
Inline Handles

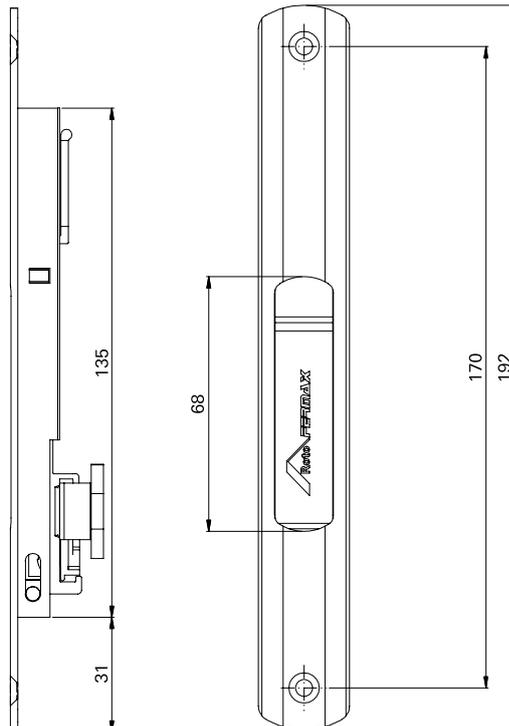
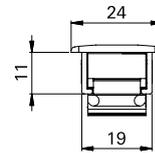


- **FEC127**
Standard single-point pull handle

- **FEC128**
Lockable single-point pull handle

Product description

- Length: 192mm
- Automatic function
- Exterior visible screw-fixing
- Standard locking system - hooks



- **Composition**
Structure and handle: aluminium
Trims: polyamide 6.6
- **Fastening**
Stainless steel screws M6 x 6 + 4,2 x 8
- **Packaging**
1 handle set plus fastening screws

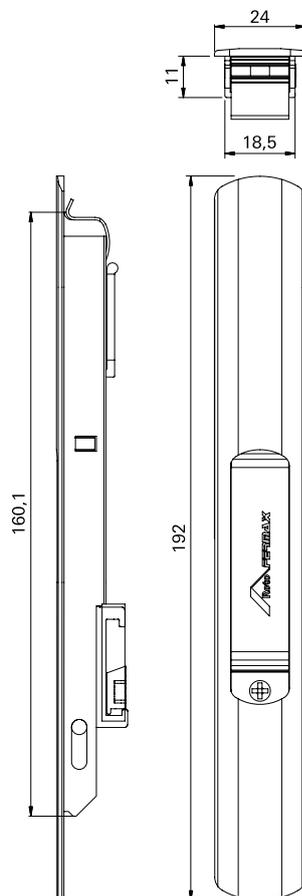
FEC43S | FEC45S
Inline Handles



- **FEC43S**
Standard single-point pull handle
- **FEC45S**
Lockable single-point pull handle

Product description

- Length: 192mm
- Automatic function
- Exterior invisible screw-fixing
- Standard locking system - hooks



- **Composition**
Structure and handle: aluminium
Trims: polyamide 6.6
- **Fastening**
Stainless steel screws M6 x 6 + 4,2 x 8
- **Packaging**
1 handle set plus fastening screws



CON04 | CON04S
Inline Handles

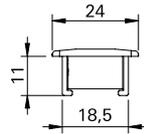


- **CON04**
Standard Finger Pull Handle - exterior visible screw-fixing
- **CON04S**
Standard Finger Pull Handle - exterior invisible screw-fixing

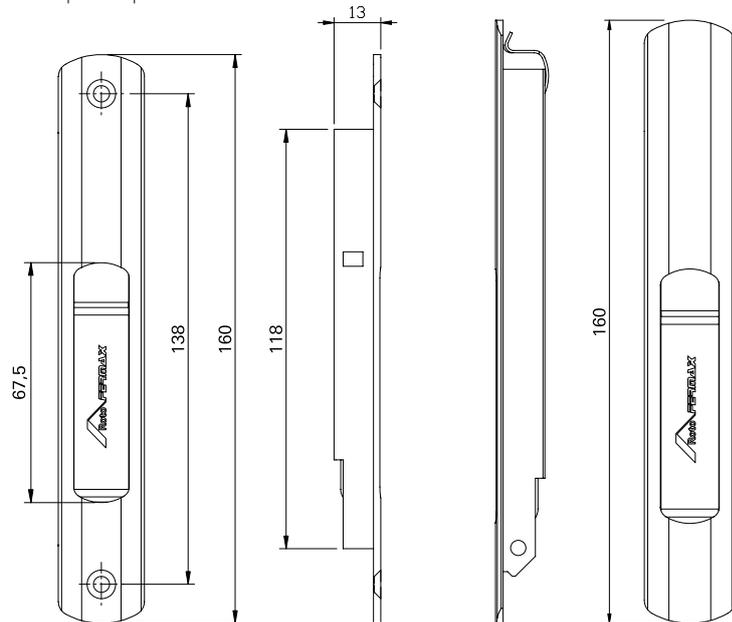
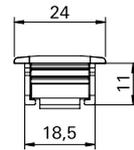
Product description

- Length: 160mm

■ **CON04**



■ **CON04S**



- **CON04**
- **Composition**
Aluminum base and bracket
- **Fastening**
Stainless 4.2 x 8 screws
- **Packaging**
1 handle set plus fastening screws

- **CON04S**
- **Composition**
Aluminum base and bracket
- **Fastening**
Nylon latch
- **Packaging**
1 handle set plus fastening screws

CON06 | CON06S
Inline Handles

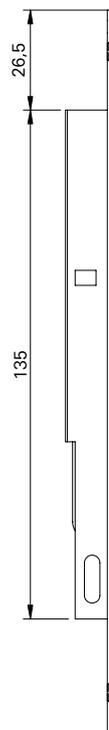
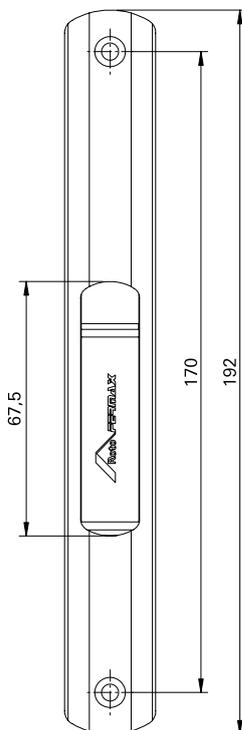
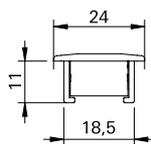


- **CON06**
Standard single-point pull handle
- **CON06S**
Lockable single-point pull handle

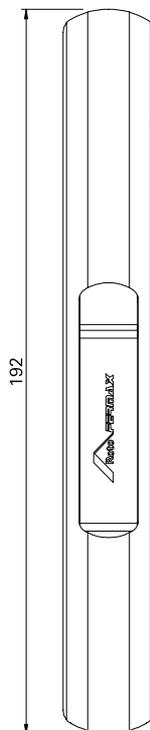
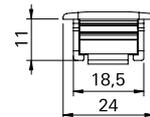
Product description

- Length: 192mm

■ **CON06**



■ **CON06S**



- **CON06**
- **Composition**
Aluminium base
- **Fastening**
Stainless Bolts
- **Packaging**
1 handle set plus fastening screws

- **CON06S**
- **Composition**
Aluminum base and bracket
- **Fastening**
Stainless 4.2 x 8 screws
- **Packaging**
1 handle set plus fastening screws



PUX11N | PUX12N | PUX14N
Inline Handles

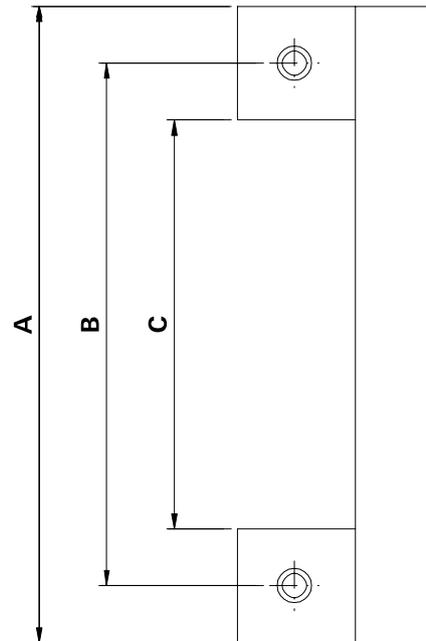
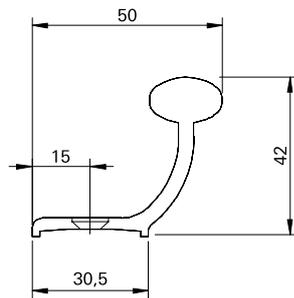


- **PUX11N**
Standard Pull handle - 168mm
- **PUX12N**
Standard Pull handle - 200mm
- **PUX14N**
Standard Pull handle - 250mm

Product description

- Exterior visible screws fixing

Material N°	Length		
	A	B	C
PUX11N	168	138	108
PUX12N	200	170	138
PUX14N	250	170	108



- **Composition**
Aluminum cable, support, rivet
Stainless steel pin
Nylon finish caps
- **Fastening**
Stainless 3/16" x 1 1/2" bolts
- **Packaging**
1 handle set plus fastening screws

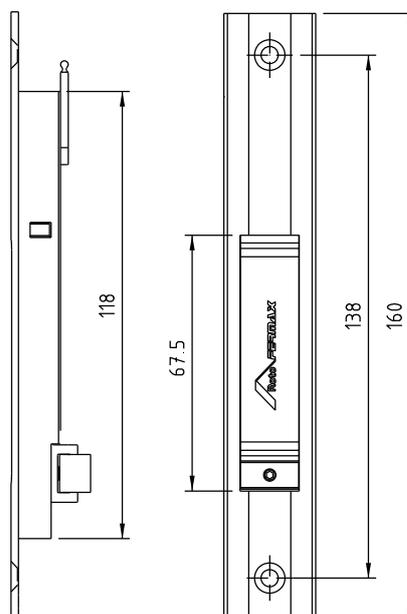
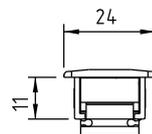
FEC149 | FEC152 | FEC150 | FEC151 | CON14
 Inline Handles



- **FEC149**
Keyless manual - With apparent screw
- **FEC152**
Keyless manual - With apparent screw
- **FEC150**
Keyless Automatic - With apparent screw
- **FEC151**
Keyless Automatic - With apparent screw
- **CON14**
Recessed grip - With apparent screw

Product Description

- Length: 160mm
- Manual / Automatic Function
- Fixing with exposed screws



■ **FEC149 | FEC152 | FEC150 | FEC151**

■ **Composition**

- Aluminum base
- Aluminum actuator
- Carbon steel spring
- Chrome key

■ **Fastening**

- Stainless steel apparent screws

■ **Packaging**

- Package with 01 piece

■ **CON14**

■ **Composition**

- Aluminum base and support

■ **Fastening**

- Exposed screws

■ **Packaging**

- Package with 01 piece

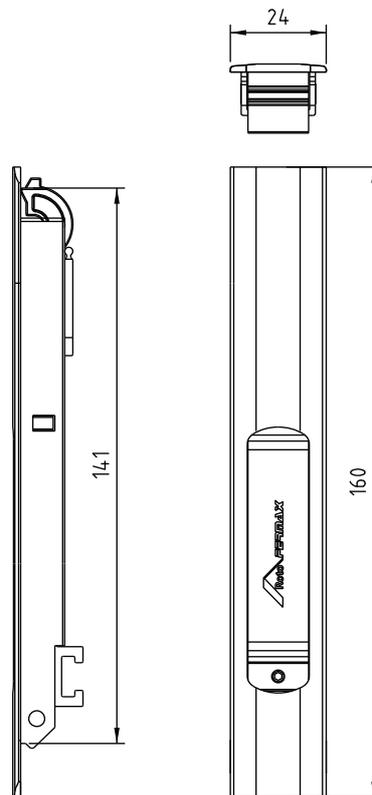
FEC160 | FEC158 | FEC6161 | FEC159 | CON16
Inline Handles



- **FEC160**
Keyless manual - No apparent screw
- **FEC158**
Keyless manual - No apparent screw
- **FEC161**
Keyless automatic - No apparent screw
- **FEC159**
Keyless automatic - No apparent screw
- **CON16**
Recessed grip - No apparent screw

Product Description

- Length: 160mm
- Manual / Automatic Function
- Fixing with exposed screws



■ **FEC160 | FEC158 | FEC161 | FEC159**

■ **Composition**

- Aluminum base
- Aluminum actuator
- Carbon steel spring
- Chrome key

■ **Fastening**

- No visible screws

■ **Packaging**

- Package with 01 piece

■ **CON16**

■ **Composition**

- Aluminum base and support

■ **Fastening**

- No visible screws

■ **Packaging**

- Package with 01 piece

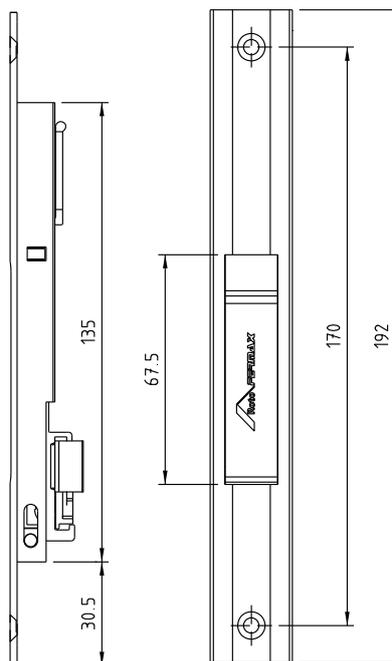
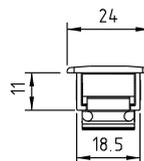
FEC153 | FEC156 | FEC154 / FEC155 | FEC157 | CON15
Inline Handles



- **FEC153**
Keyless manual - With apparent screw
- **FEC156**
Keyless manual - With apparent screw
- **FEC154 / FEC155**
Keyless Automatic -With apparent screw
- **FEC157**
Keyless Automatic - With apparent screw
- **CON15**
Recessed grip - With apparent screw

Product Description

- Length: 192mm
- Manual / Automatic Function
- Fixing with exposed screws



■ **FEC153 | FEC156 | FEC154 / FEC155 | FEC157**

- **Composition**
Aluminum base
Aluminum actuator
Carbon steel spring
Chrome key
- **Fastening**
Stainless steel apparent screws
- **Packaging**
Package with 01 piece

■ **CON15**

- **Composition**
Aluminum base and support
- **Fastening**
Exposed screws
- **Packaging**
Package with 01 piece



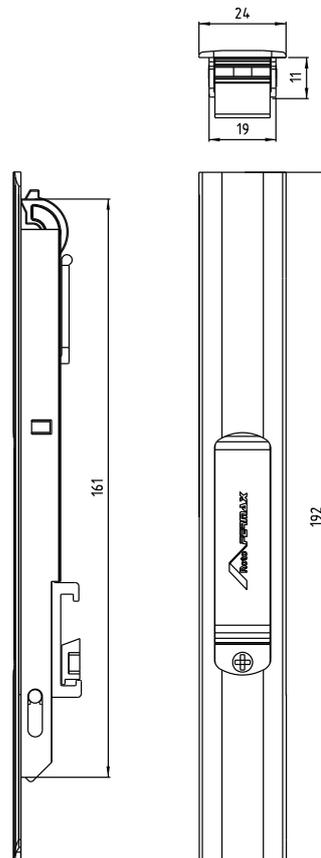
FEC165 | FEC162 | FEC164 / FEC166 | FEC163 | CON17
Inline Handles



- **FEC165**
Keyless manual - No apparent screw
- **FEC162**
Keyless manual - No apparent screw
- **FEC164 / FEC166**
Keyless automatic - No apparent screw
- **FEC163**
Keyless automatic - No apparent screw
- **CON17**
Recessed grip - No apparent screw

Product Description

- Length: 1160mm
- Manual / Automatic Function
- Fixing without visible screws



■ **FEC165 | FEC162 | FEC164 / FEC166 | FEC163**

■ **Composition**

Aluminum base
Aluminum actuator
Carbon steel spring
Chrome key

■ **Fastening**

No visible screws

■ **Packaging**

Package with 01 piece

■ **CON17**

■ **Composition**

Aluminum base and support

■ **Fastening**

No visible screws

■ **Packaging**

Package with 01 piece

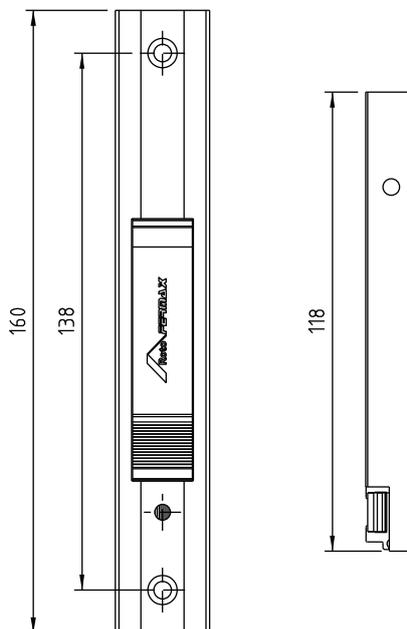
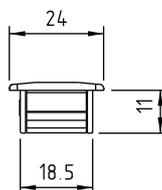
FEC167 / FEC168 | CON18
Inline Handles



- **FEC167 / FEC168**
Easy Touch - With apparent screw
- **CON18**
Recessed grip - With apparent screw

Product Description

- Length: 160mm
- Easy Touch function
- Fixing with exposed screws



- **FEC167 / FEC168**
- **Composition**
Aluminum base
Aluminum actuator
Carbon steel spring
- **Fastening**
Stainless steel apparent screws
- **Packaging**
Package with 01 piece

- **CON18**
- **Composition**
Aluminum base and support
- **Fastening**
Exposed screws
- **Packaging**
Package with 01 piece



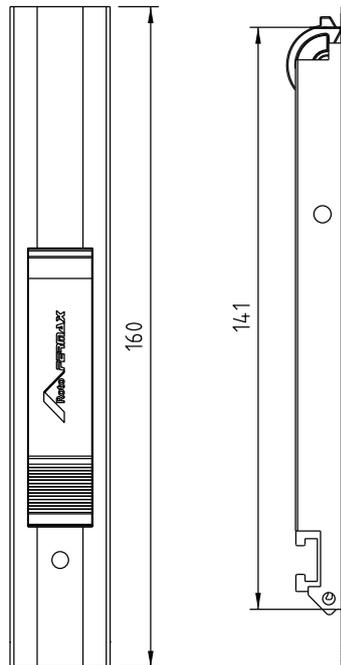
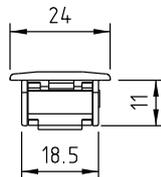
FEC169 / FEC170 | CON19
Inline Handles



- **FEC169 / FEC170**
Easy Touch - No apparent screw
- **CON19**
Recessed grip - No apparent screw

Product Description

- Length: 160mm
- Easy Touch function
- Fixing without visible screws



- **FEC169 / FEC170**
- **Composition**
Aluminum base
Aluminum actuator
Carbon steel spring
- **Fastening**
No visible screws
- **Packaging**
Package with 01 piece

- **CON19**
- **Composition**
Aluminum base and support
- **Fastening**
No visible screws
- **Packaging**
Package with 01 piece

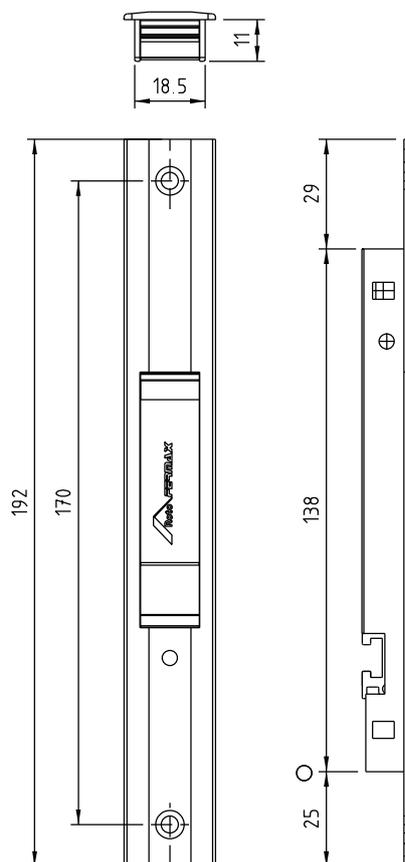
FEC173 / FEC174 | FEC175 / FEC176 | FEC177 | CON21
Inline Handles



- **FEC173 / FEC174**
Easy Touch - With key - Apparent screw
- **FEC175 / FEC176**
Easy Touch - Keyless - Apparent screw
- **FEC177**
Easy Touch - With integrated button - Apparent screw
- **CON21**
Recessed grip - With apparent screw

Product Description

- Length: 192mm
- Easy Touch function
- Fixing with exposed screws



- **FEC173 / FEC174 | FEC175 / FEC176 | FEC177**
- **Composition**
Aluminum base
Aluminum actuator
Carbon steel spring
- **Fastening**
Stainless steel apparent screws
- **Packaging**
Package with 01 piece

- **CON21**
- **Composition**
Aluminum base and support
- **Fastening**
Exposed screws
- **Packaging**
Package with 01 piece



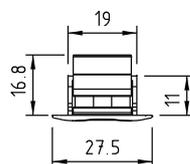
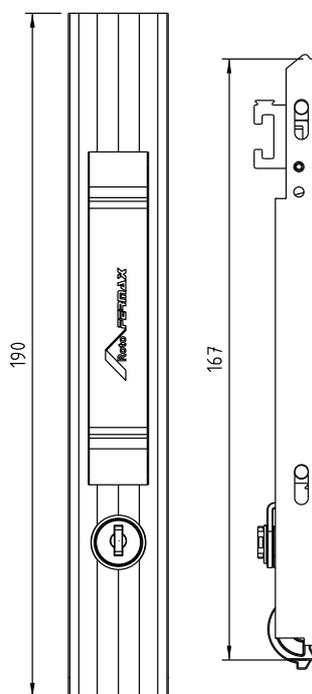
FEC172 | FEC171 | CON20
Inline Handles



- **FEC172**
Easy Touch - Keyless - No apparent screw
- **FEC171**
Easy Touch - With key - No apparent screw
- **CON20**
Recessed grip - No apparent screw

Product Description

- Length: 190mm
- Easy Touch function
- Fixing without visible screws



- **FEC172 / FEC171**
- **Composition**
Aluminum base
Aluminum actuator
Carbon steel spring
- **Fastening**
No visible screws
- **Packaging**
Package with 01 piece

- **CON20**
- **Composition**
Aluminum base and support
- **Fastening**
No visible screws
- **Packaging**
Package with 01 piece

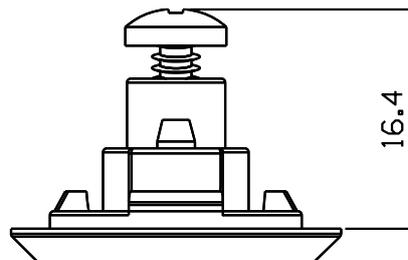
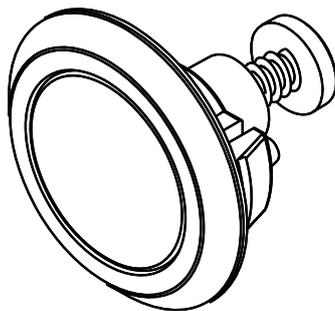
BAC02
Inline Handles



- **BAC02**
Easy Touch - External button

Product Description

- Outside sash installation
- Color: White
- Standard locking system - hooks



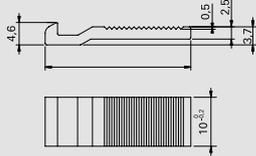
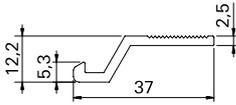
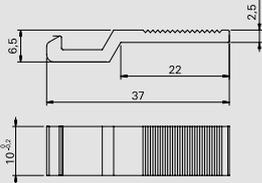
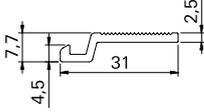
- **BAC02**
- **Composition**
Nylon framework
- **Packaging**
1 button



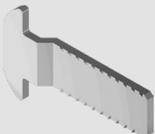
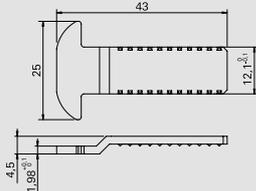
HOOKS
 For Standard Single-point lockings

Material N°	Image	Technical Drawing	Composition
LIN01			aluminium
LIN02			stainless steel
LIN03			zamac
LIN04			zamac
LIN05			stainless steel
LIN06			stainless steel
LIN07			stainless steel
LIN21			stainless steel

HOOKS
 For Easy Touch Single-point lockings

Material N°	Image	Technical Drawing	Composition
LIN18			aluminium
LIN19			aluminium
LIN20			aluminium
LIN24			aluminium

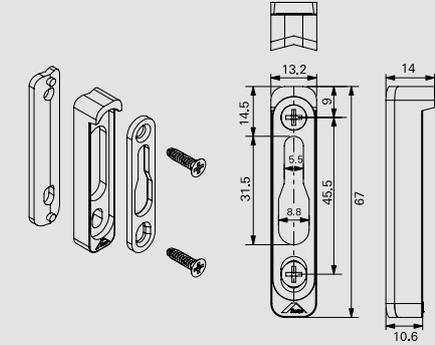
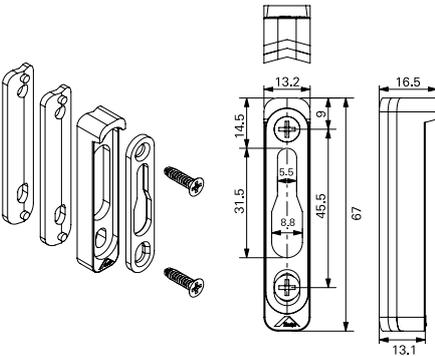
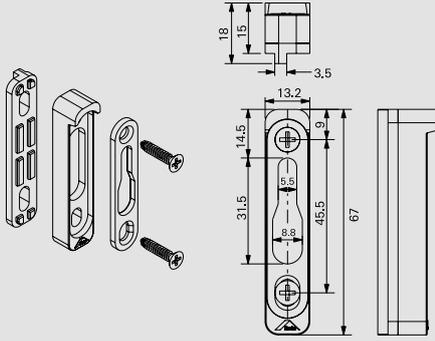
HOOKS
 For DUO Single-point lockings

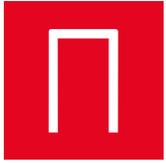
Material N°	Image	Technical Drawing	Composition
LIN27			zamac

STRIKERS
New Strikers for sliding espagnolette

Material N°	Image	Technical Drawing	Composition
2040175 2040267			Stainless Steel SS304 and Polyamide
2040268 2040294			Stainless Steel SS304 and Polyamide
2040295 2040296			Stainless Steel SS304 and Polyamide
2040297 2040298			Stainless Steel SS304 and Polyamide

STRIKERS
 New Strikers for sliding espagnolette

Material N°	Image	Technical Drawing	Composition
2040299 2040300			Stainless Steel SS304 and Polyamide
2040301 2040302			Stainless Steel SS304 and Polyamide
2040303 2040304			Stainless Steel SS304 and Polyamide



Door



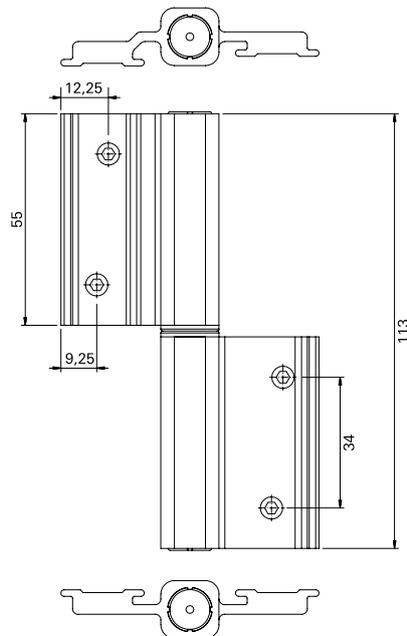
DOB03 | DOB04
Door Hinge



- **DOB03**
Centered Butt hinge for doors - 2 parts
- **DOB04**
Off Center Butt hinge for doors - 2 parts

Product description

- Maximum door dimension: 900 x 2100mm
- Weight up for hinge: 10 kg
- Can be used on the right and left side



- **Composition**
Structure and Axle: aluminium
Add-ons: polyamide 6.6
- **Fastening**
Stainless steel screws M6 x 8
- **Packaging**
1 hinge plus fastening screws



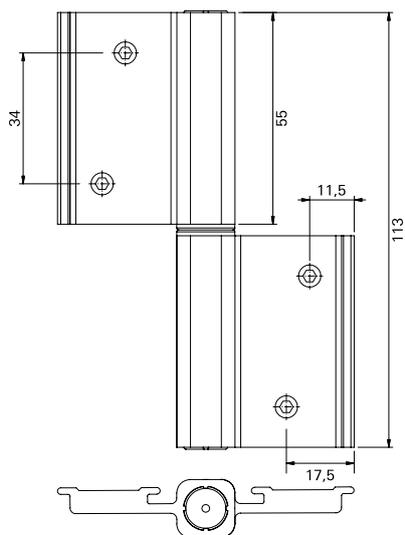
DOB05
Door Hinge



- **DOB05**
Butt hinge for doors - 2 parts

Product description

- Maximum door dimension: 900 x 2100mm
- Weight up for hinge: 10 kg
- Can be used on the right and left side



- **Composition**
Structure and Axle: aluminium
Add-ons: polyamide 6.6
- **Fastening**
Stainless steel screws M6 x 8
- **Packaging**
1 hinge plus fastening screws

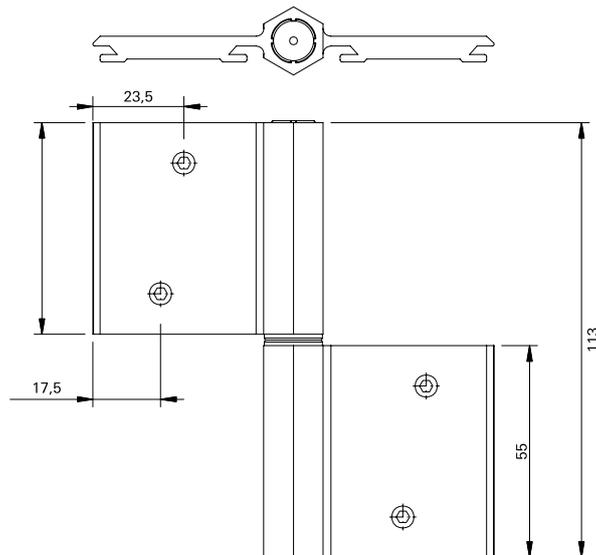
DOB15
Door Hinge



- **DOB15**
Butt hinge for doors - 2 parts

Product description

- Maximum door dimension: 900 x 2100mm
- Weight up for hinge: 10 kg
- Can be used on the right and left side



- **Composition**
Structure and Axle: aluminium
Add-ons: polyamide 6.6
- **Fastening**
Stainless steel screws M6 x 8
- **Packaging**
1 hinge plus fastening screws



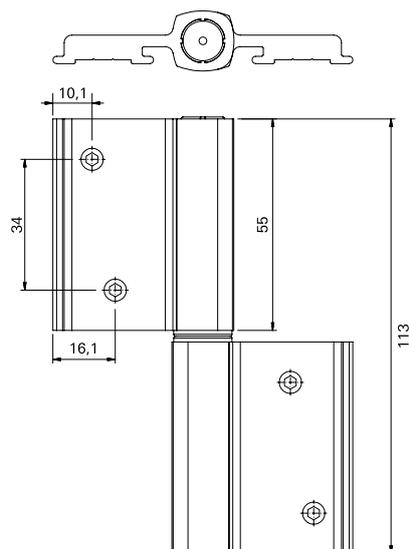
DOB16
Door Hinge



- **DOB16**
Butt hinge for doors - 2 parts

Product description

- Mmaximum door dimension: 900 x 2100mm
- Weight up for hinge: 10 kg
- Can be used on the right and left side



- **Composition**
Structure and Axle: aluminium
Add-ons: polyamide 6.6
- **Fastening**
Stainless steel screws M6 x 8
- **Packaging**
1 hinge plus fastening screws

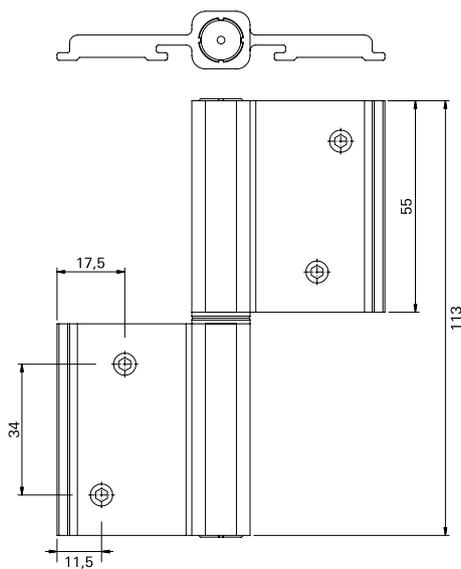
DOB17
Door Hinge



- **DOB17**
Butt hinge for doors - 2 parts

Product description

- Maximum door dimension: 900 x 2100mm
- Weight up for hinge: 10 kg
- Can be used on the right and left side



- **Composition**
Structure and Axle: aluminium
Add-ons: polyamide 6.6
- **Fastening**
Stainless steel screws M6 x 8
- **Packaging**
1 hinge plus fastening screws



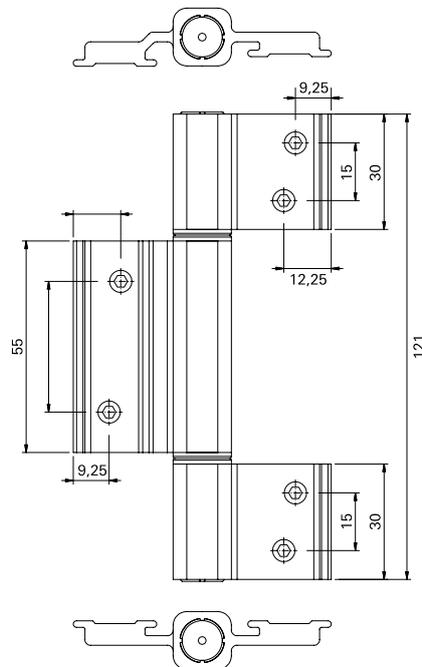
DOB19 | DOB20
Door Hinge



- **DOB19**
Centered Butt hinge for doors - 3 parts
- **DOB20**
Off Center Butt hinge for doors - 3 parts

Product description

- Maximum door dimension: 900 x 2100mm
- Weight up for hinge: 20 kg
- Can be used on the right and left side



- **Composition**
Structure and Axle: aluminium
Add-ons: polyamide 6.6
- **Fastening**
Stainless steel screws M6 x 8
- **Packaging**
1 hinge plus fastening screws

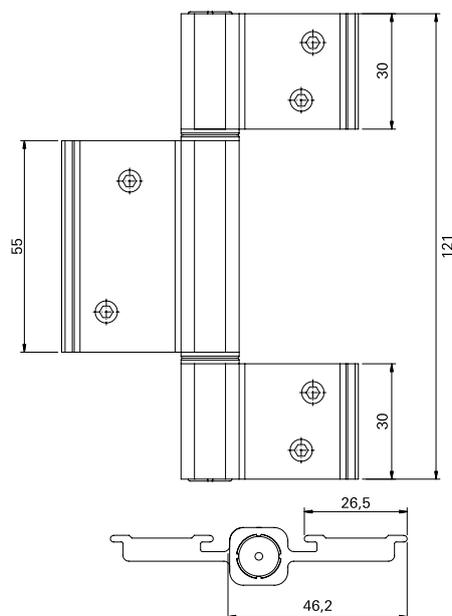
DOB21
Door Hinge



- **DOB21**
Butt hinge for doors - 3 parts

Product description

- Maximum door dimension: 900 x 2100mm
- Weight up for hinge: 20 kg
- Can be used on the right and left side



- **Composition**
Structure and Axle: aluminium
Add-ons: polyamide 6.6
- **Fastening**
Stainless steel screws M6 x 8
- **Packaging**
1 hinge plus fastening screws



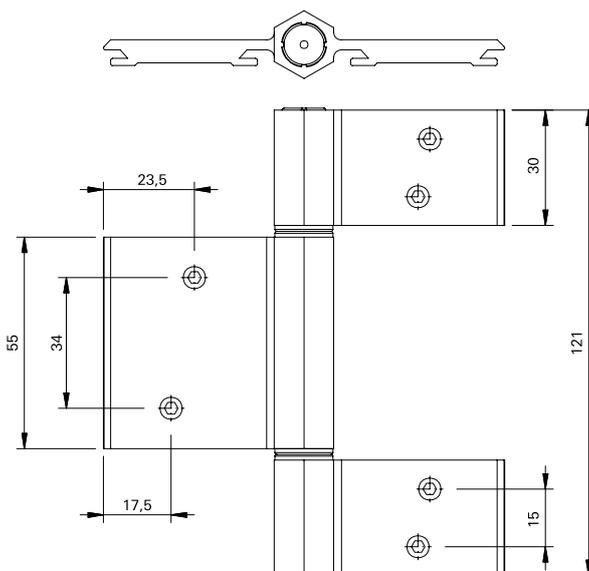
DOB22
Door Hinge



- **DOB22**
Butt hinge for doors - 3 parts

Product description

- Maximum door dimension: 900 x 2100mm
- Weight up for hinge: 20 kg
- Can be used on the right and left side



- **Composition**
Structure and Axle: aluminium
Add-ons: polyamide 6.6
- **Fastening**
Stainless steel screws M6 x 8
- **Packaging**
1 hinge plus fastening screws

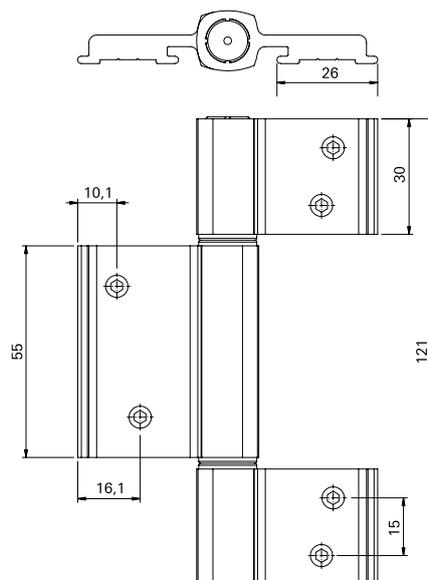
DOB23
Door Hinge



- **DOB23**
Butt hinge for doors - 3 parts

Product description

- Maximum door dimension: 900 x 2100mm
- Weight up for hinge: 20 kg
- Can be used on the right and left side



- **Composition**
Structure and Axle: aluminium
Add-ons: polyamide 6.6
- **Fastening**
Stainless steel screws M6 x 8
- **Packaging**
1 hinge plus fastening screws



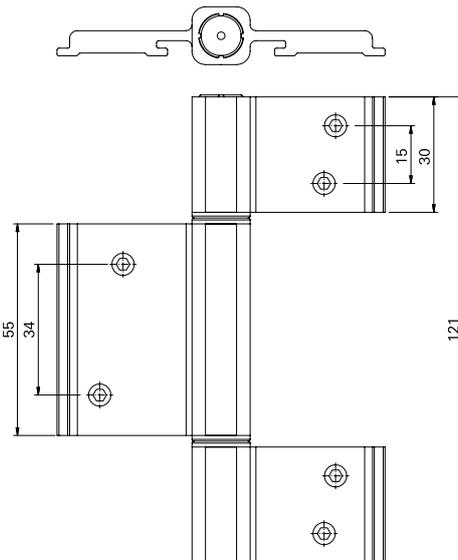
DOB24
Door Hinge



- **DOB24**
Butt hinge for doors - 3 parts

Product description

- Maximum door dimension: 900 x 2100mm
- Weight up for hinge: 20 kg
- Can be used on the right and left side



- **Composition**
Structure and Axle: aluminium
Add-ons: polyamide 6.6
- **Fastening**
Stainless steel screws M6 x 8
- **Packaging**
1 hinge plus fastening screws

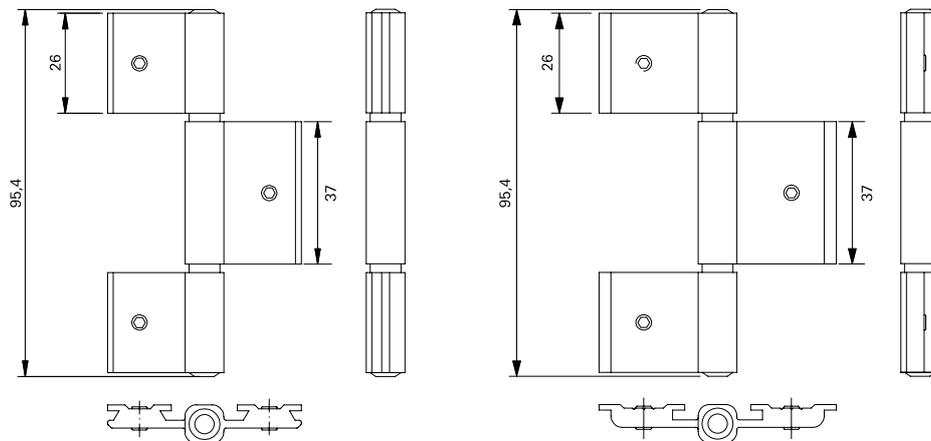
DOB08 | DOB12
Door Hinge



- **DOB08 | DOB12**
Butt hinge for Fold doors - 3 parts

Product description

- Maximum door dimension: 900 x 2100mm
- Weight up for hinge: 20 kg
- Can be used on the right and left side



- **Composition**
Structure and Axle: aluminium
Add-ons: polyamide 6.6
- **Fastening**
Stainless steel screws M6 x 6
- **Packaging**
1 hinge plus fastening screws



DOB09 | DOB13
Door Hinge

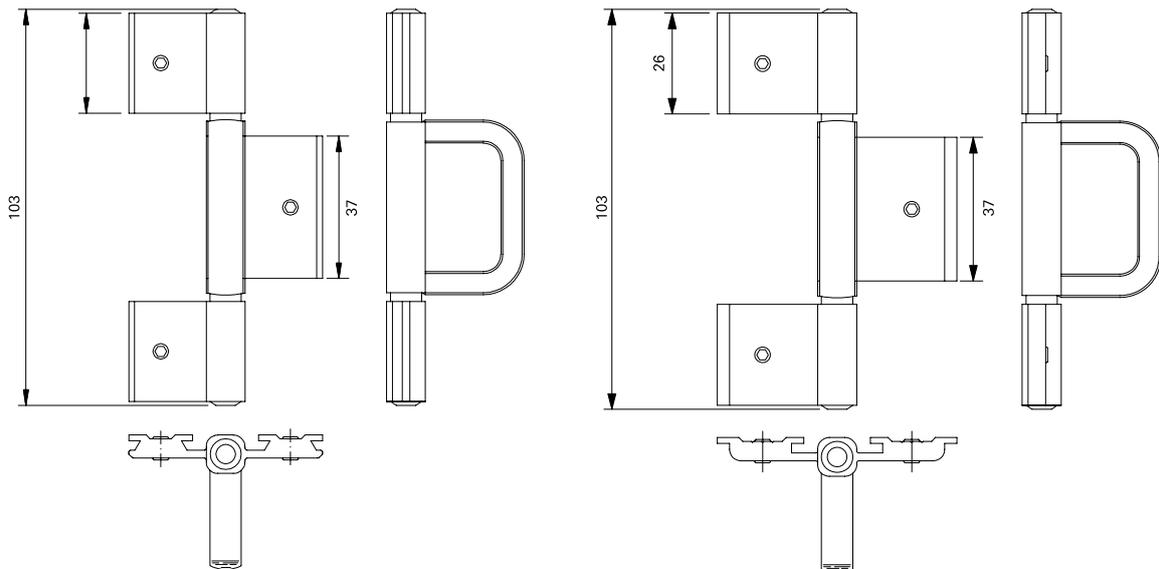


■ **DOB09 | DOB13**

Butt hinge with handle for Fold doors - 3 parts

Product description

- Maximum door dimension: 900 x 2100mm
- Weight up for hinge: 20 kg
- Can be used on the right and left side



■ **Composition**

Structure and Axle: aluminium
Add-ons: polyamide 6.6

■ **Fastening**

Stainless steel screws M6 x 6

■ **Packaging**

1 hinge plus fastening screws

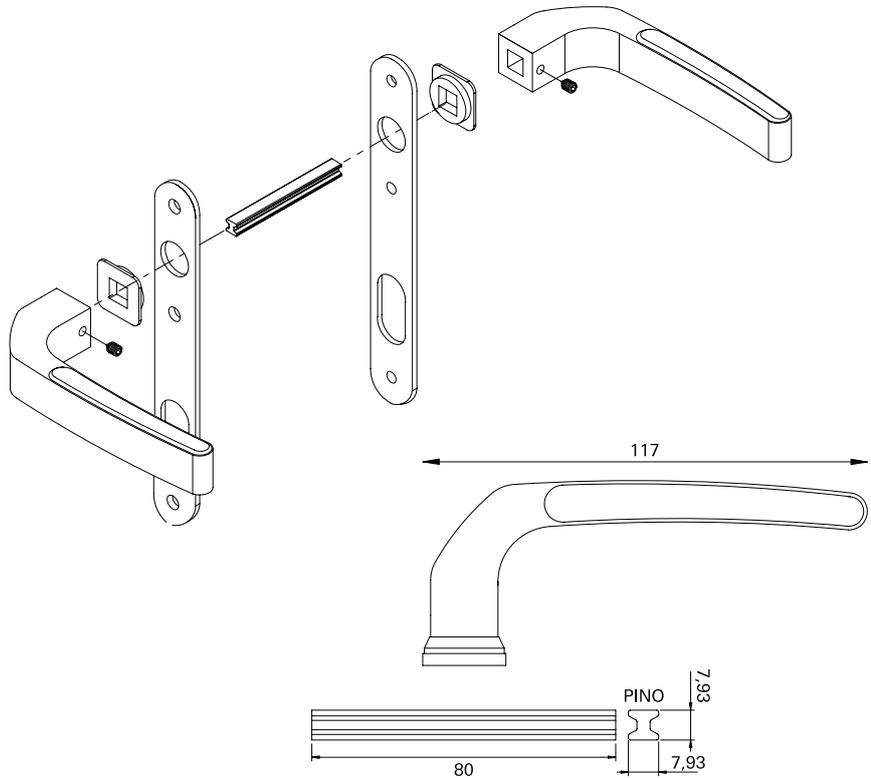
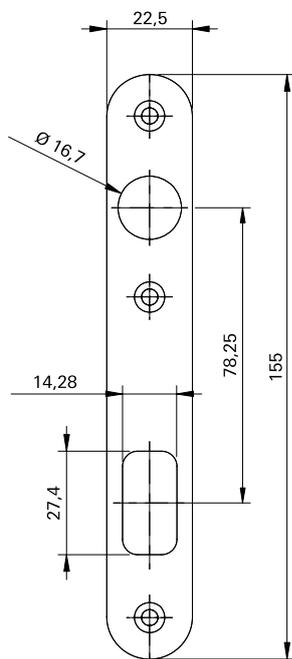
CMF03
Door Handle



■ **CMF03**
Door Handle

Product description

- Compatible for MMF01 Locks
- Armoni Handle design options > page 168



■ **Composition**

Aluminum mirror and cable
Nylon brackets
Steel pin

■ **Fastening**

Stainless 4.2 x 8 screws

■ **Packaging**

1 handle set plus fastening screws



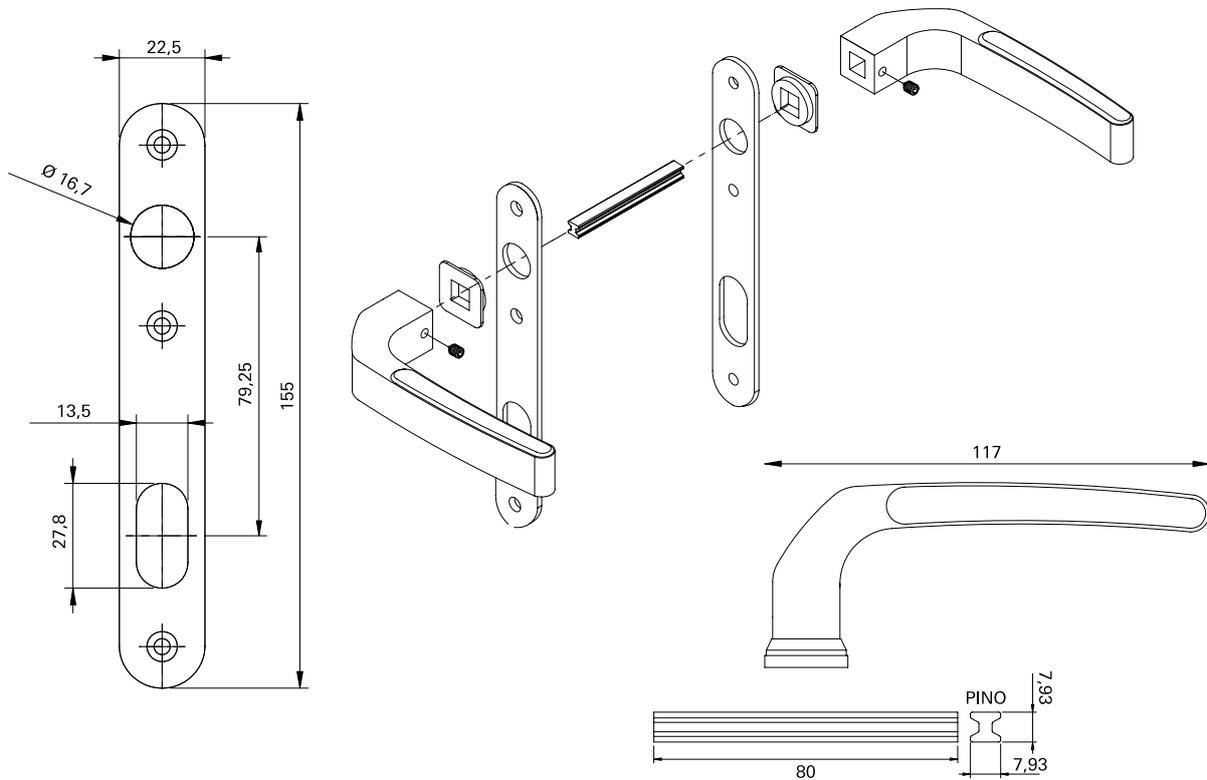
**CMF04
Door Handle**



■ **CMF04**
Door Handle

Product description

- Compatible for MMF01 Locks
- Armoni Handle design options > page 168



■ **Composition**

Aluminum mirror and cable
Nylon brackets
Steel pin

■ **Fastening**

Stainless 4.2 x 8 screws

■ **Packaging**

1 handle set plus fastening screws

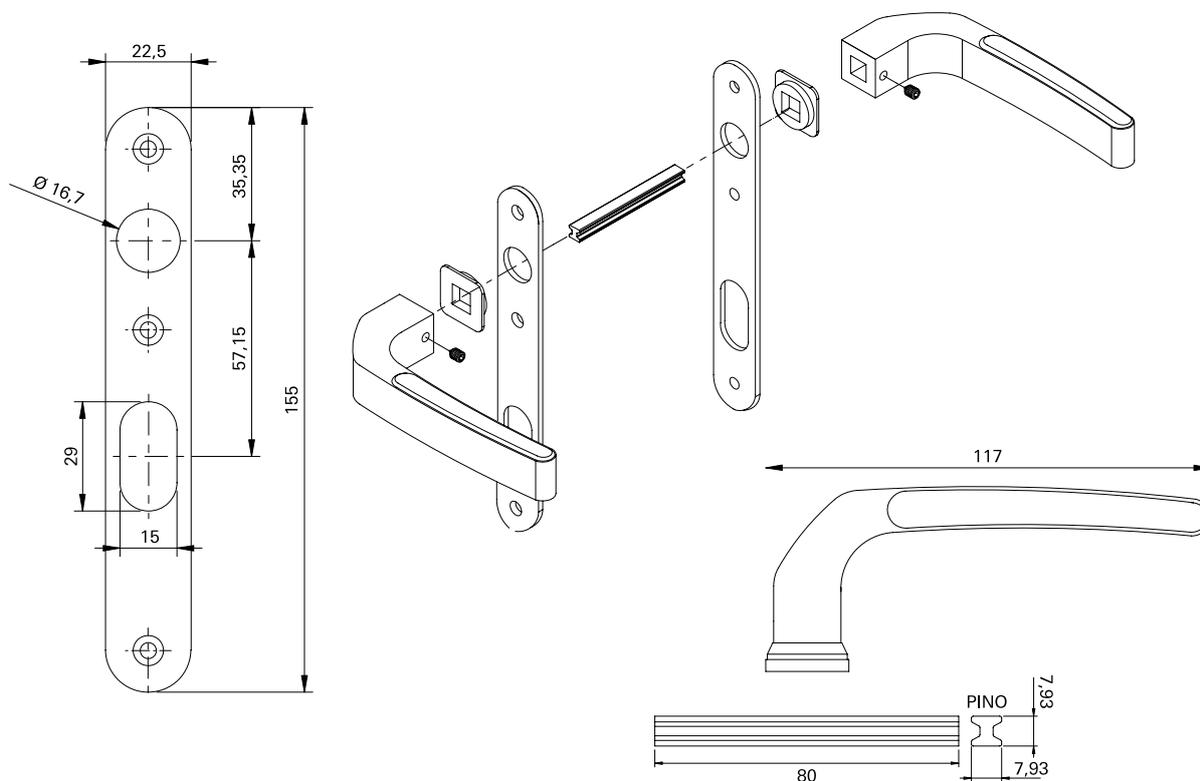
**CMF09
Door Handle**



■ **CMF09**
Door Handle

Product description

- Compatible for MMF01 Locks
- Armoni Handle design options > page 168



■ **Composition**

Aluminum mirror and cable
Nylon brackets
Steel pin

■ **Fastening**

Stainless 4.2 x 8 screws

■ **Packaging**

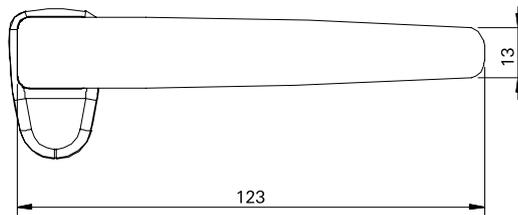
1 handle set plus fastening screws



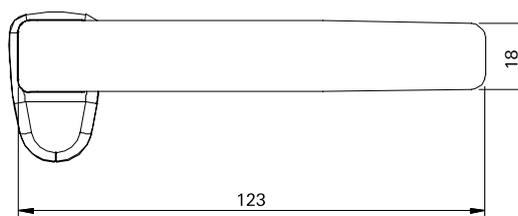
Door Handles
Armoni Design



■ ARM01



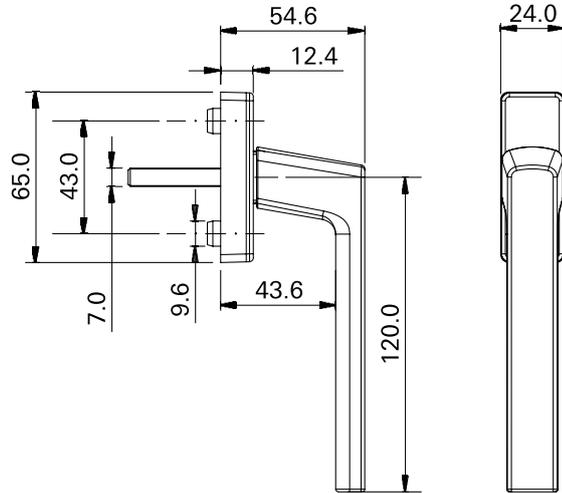
■ ARM02



■ Note

The technical characteristics of CMF03 | CMF04 | CMF09 are not changed, only the handles design.
Standard numeric Roto partnumbers available for some items. Creation upon request.

**20345 - 120mm
Inline Handles**



					Nº
Standard cable	120mm	24mm	White 9003	Inside	2034517P
Standard cable	120mm	24mm	White 9016	Inside	2034515P
Standard cable	120mm	24mm	Brown	Inside	2034518P
Standard cable	120mm	24mm	Silver	Inside	2034524P
Standard cable	120mm	24mm	Black	Inside	2034514P
Standard cable	120mm	30mm	White 9003	Inside	2034527P
Standard cable	120mm	30mm	White 9016	Inside	2034526P
Standard cable	120mm	30mm	Brown	Inside	2034528P
Standard cable	120mm	30mm	Silver	Inside	2034529P
Standard cable	120mm	30mm	Black	Inside	2034525P
Standard cable	120mm	35mm	White 9003	Inside	2034532P
Standard cable	120mm	35mm	White 9016	Inside	2034531P
Standard cable	120mm	35mm	Brown	Inside	2034533P
Standard cable	120mm	35mm	Silver	Inside	2034534P
Standard cable	120mm	35mm	Black	Inside	2034530P

■ **Composition**

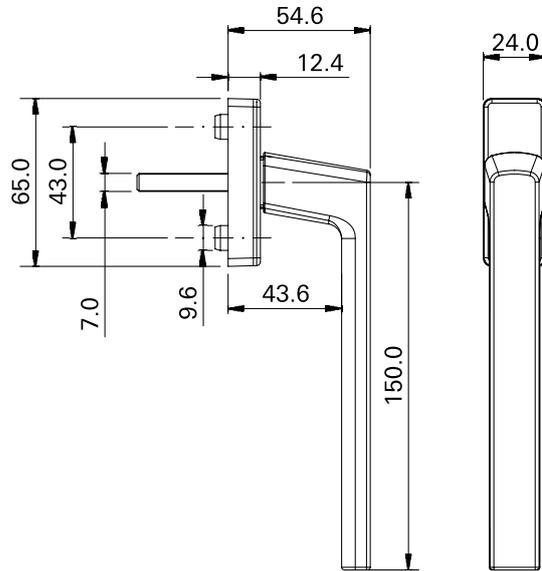
Aluminum cover and cable
Nylon brackets
Steel pin

■ **Packaging**

Package with 01 piece



20345 - 150mm
Inline Handles



				Nº
Standard cable 150mm	24mm	White 9003	Inside	2034537P
Standard cable 150mm	24mm	White 9016	Inside	2034536P
Standard cable 150mm	24mm	Brown	Inside	2034539P
Standard cable 150mm	24mm	Silver	Inside	2034538P
Standard cable 150mm	24mm	Black	Inside	2034535P
Standard cable 150mm	30mm	White 9003	Inside	2034542P
Standard cable 150mm	30mm	White 9016	Inside	2034541P
Standard cable 150mm	30mm	Brown	Inside	2034544P
Standard cable 150mm	30mm	Silver	Inside	2034540P
Standard cable 150mm	30mm	Black	Inside	2034543P
Standard cable 150mm	35mm	White 9003	Inside	2034547P
Standard cable 150mm	35mm	White 9016	Inside	2034546P
Standard cable 150mm	35mm	Brown	Inside	2034549P
Standard cable 150mm	35mm	Silver	Inside	2034545P
Standard cable 150mm	35mm	Black	Inside	2034548P

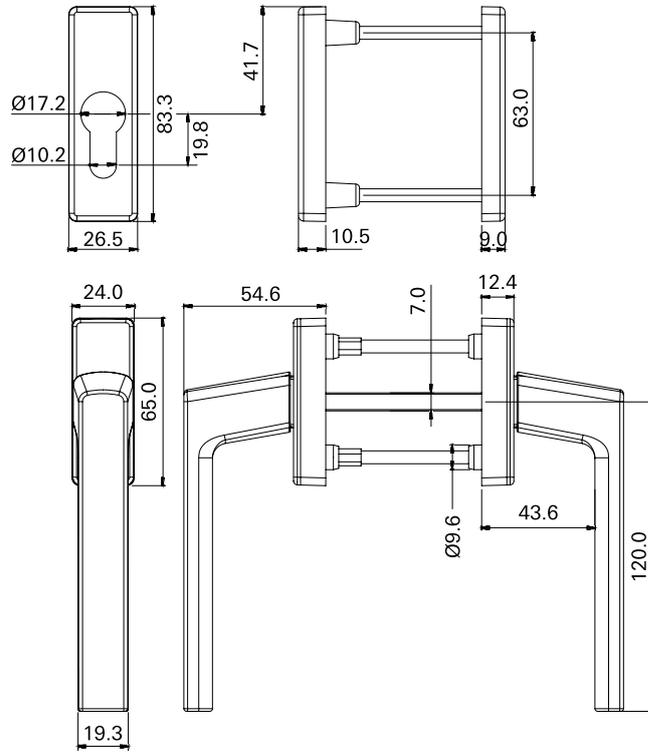
■ **Composition**

- Aluminum cover and cable
- Nylon brackets
- Steel pin

■ **Packaging**

- Package with 01 piece

Handle set with escutvheon - 120mm
Door Handle



				
Standard cable 120mm	150mm	Black	Inside / Outside	2034550P
Standard cable 120mm	150mm	White 9016	Inside / Outside	2034551P
Standard cable 120mm	150mm	White 9003	Inside / Outside	2034552P
Standard cable 120mm	150mm	Silver	Inside / Outside	2034553P
Standard cable 120mm	150mm	Brown	Inside / Outside	2034554P

■ **Composition**

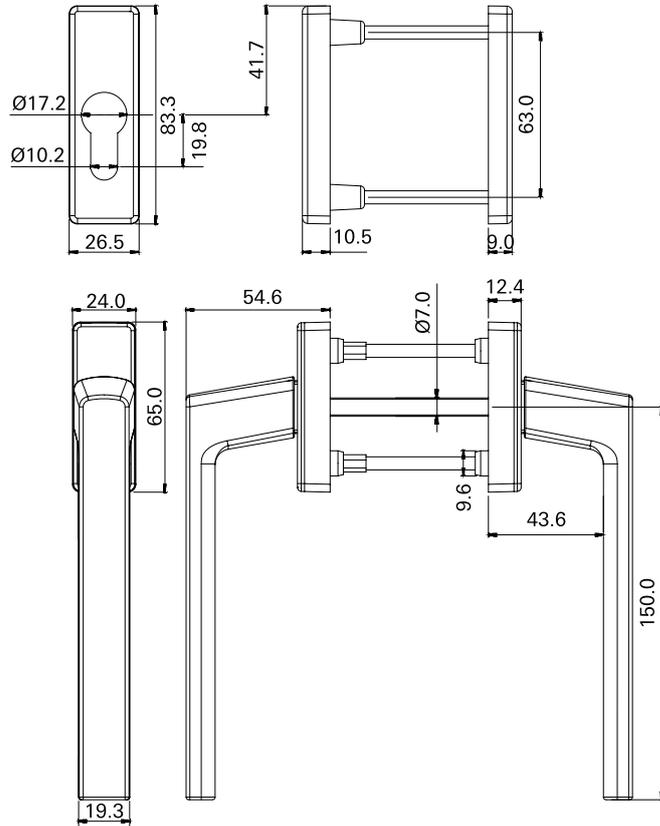
Aluminum cover and cable
Nylon brackets
Steel pin

■ **Packaging**

Package with 01 piece



Handle set with escutvheon - 150mm
Door Handle



				Nº
Standard cable 150mm	150mm	Black	Inside / Outside	2034555P
Standard cable 150mm	150mm	White 9016	Inside / Outside	2034556P
Standard cable 150mm	150mm	White 9003	Inside / Outside	2034557P
Standard cable 150mm	150mm	Silver	Inside / Outside	2034558P
Standard cable 150mm	150mm	Brown	Inside / Outside	2034559P

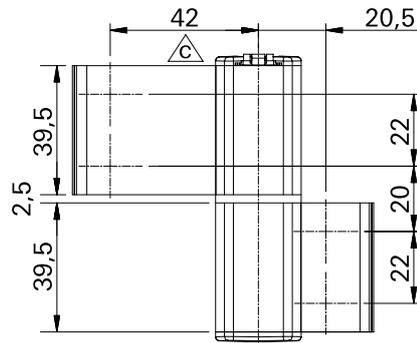
■ **Composition**

Aluminum cover and cable
Nylon brackets
Steel pin

■ **Packaging**

Package with 01 piece

Hinge AT90
Door Hinge



- **AT90**
Hinge for doors

Product Description

- maximum load 60kg
- Color: Black (cod. 487497) and White (cod. 2044230P)
- Inside and Outside application

- **Composition**
Aluminum structure

- **Packaging**
Package with 01 hinge

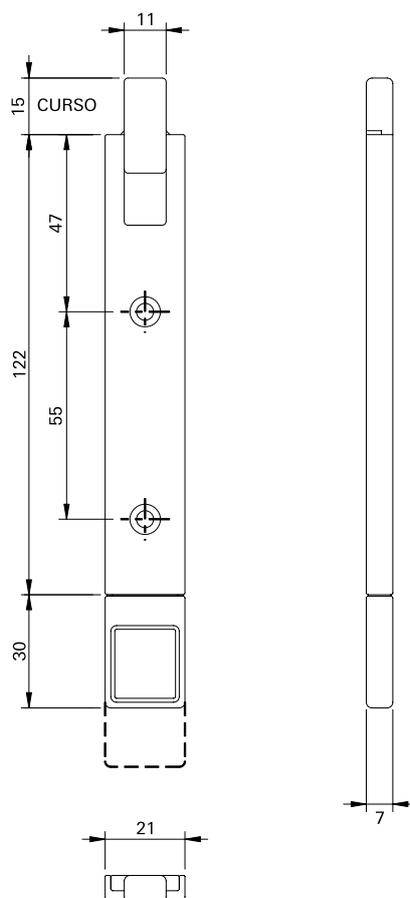
FEC14
Door Flush Bolt



■ **FEC14**
Door Flush Bolt

Product description

- Application: used most often on French doors



■ **Composition**

Structure and handle: aluminium
Guides: polyamide 6.6

■ **Fastening**

Stainless steel screws 4,2 x 16 x 6

■ **Packaging**

1 handle plus fastening screws

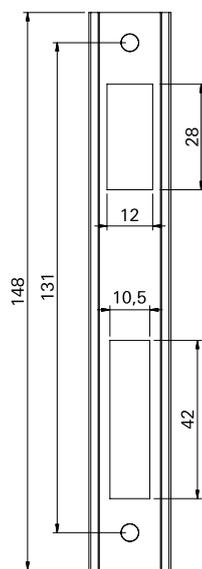
CTE01 | CTE02 | CTE07 | CTE09
Door Striker Plate



- **CTE01 | CTE02 | CTE07 | CTE09**
Door Striker Plate

Product description

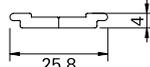
- Compatible for MMF01 Locks
- Can be used on the right and left side



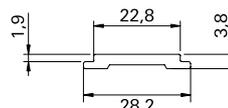
Material N°	"A"
CTE01	21,5
CTE02	25,8
CTE07	28,2
CTE09	24,7



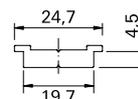
CTE01



CTE02



CTE07



CTE09

■ **Composition**

Structure: aluminium

■ **Fastening**

Stainless steel screws M6 x 6

■ **Packaging**

1 Stricke Plate plus fastening screws



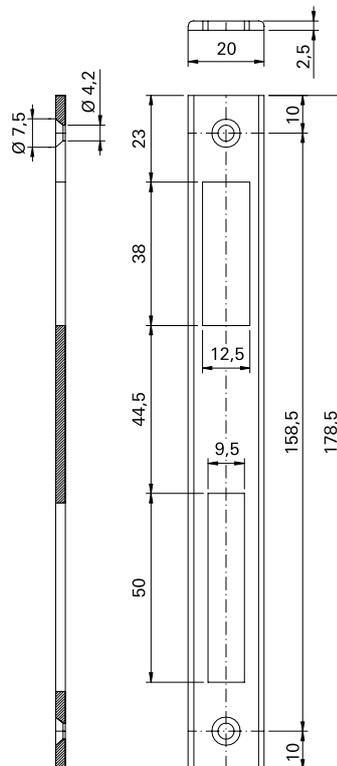
CTE15
Door Striker Plate



- **CTE15**
Door Striker Plate

Product description

- Compatible for Tubular Frame Locks
- Can be used on the right and left side



- **Composition**
Structure: aluminium
- **Fastening**
Stainless steel screws M6 x 6
- **Packaging**
1 Stricke Plate plus fastening screws



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