



# Roto Handles

Handles for all opening types

## german made

### What does that mean?



The company Roto with headquarters in Leinfelden-Echterdingen near Stuttgart is a German group of companies. Roto has grown robustly – organically and consistently.

Our common values represent an identity that has enabled Roto, as a German company, to become a service leader. The value structure of our company is based on three pillars:

- Continuity, consistency and reliability
- Experience, ambition to succeed and vision
- Knowledge, ability and German engineering skills

As a technological pioneer, Roto develops intelligent product solutions that feature impressively precise technology and long service life.

Production and environmental management as well as logistics, irrespective of the manufacturing country, are based on German values such as reliability, thoroughness and vision.

German precision in design and development as well as quality and process management guarantee that we can provide outstanding performance and high-quality services – worldwide.

The consistent implementation of German values in quality specifications and standards ensures that our partners and customers can place their trust in us. This is “german made”.

## Company



The company Roto, based in Leinfelden-Echterdingen near Stuttgart, is a German group of companies that is wholly owned by families descended from the company's founder, Wilhelm Frank.

The group comprises three independent divisions which develop and produce hardware systems, roof windows and stairs for the construction industry and offer sophisticated services relating to windows and doors.

The Roto name has represented an inventive spirit and technological progress in compatible components for the construction industry since 1935.

The Roto Group is active all over the world with an extensive business portfolio and around 5000 employees.

Roto works on the basis of clear management and conduct principles to secure the position of the group as a success story and to ensure continued success.

Roto is inspired by the needs and expectations of customers, whether you are a builder, planner, architect, manufacturer or retailer of windows and doors, or manufacturer or specialist retailer for roofing.

# Roto | Window and Door Technology

Worldwide



## Europe



**Roto Frank Austria GmbH**

Kalsdorf (AT)



**Roto Frank Belarus**

Minsk (BY)



**Roto Frank S.A.**

Zaventem (BE)



**Roto Frank GmbH**

Dietikon (CH)



**Roto Frank Fenster- und Türtechnologie GmbH**

Leinfelden / Velbert (DE)



**Roto Frank Estonia**

Tallinn (EE)



**Roto Frank S.A.**

Lliçà de Vall (ES)



**Roto Frank Ferrures S.A.S.**

Saint-Avoid (FR)



**Roto Elzett Certa Kft.**

Lövő / Sopron (HU)



**Roto Frank Italia**

San Donà di Piave (IT)



**Roto Frank Lithuania**

Vilnius (LT)



**Roto Frank Latvija**

Jūrmala (LV)





**Roto Frank**  
Warsaw (PL)



**Roto Romania S.R.L.**  
Bucharest (RO)



**OOO Roto Frank**  
Noginsk (RU)



**Roto Frank Ltd. Sti.**  
Istanbul (TR)



**Roto Frank Okucia Budowl-  
ane Sp. z o.o.**  
Kiev (UA)



## Asia



**Roto Frank Building Materi-  
als Co. Ltd.**  
Beijing (CN)



**Roto Frank Indonesia**  
Jakarta (ID)



**Roto Frank Asia – Pacific Li-  
aison Office India**  
Mumbai (IN)



**Roto Frank Asia-Pacific Pte.  
Ltd.**  
Singapore (SG)



**Roto Frank Asia-Pacific Pte.  
Ltd.**  
Hanoi (VN)



## America



**Roto Frank Latina SA**  
Buenos Aires (ARG)



**Roto Frank Brasil Ltd.**  
São José (BR)



**Fermax Componentes Ltd.**  
Colombo (BR)



**Roto Fasco Canada Inc.**  
Mississauga, Ontario (CA)



**Roto Frank Chile**  
Santiago (CL)



**Roto Frank of America Inc.**  
Chester (US)



= Sales    = Production / sales



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# 1 Information

## 1.1 General



### INFO

All dimensions stated in millimetres. Other values are specified.

The following markings are used in this document.

### 1.1.1 Material

Symbol	Meaning
Material	
	Timber
	PVC
	Aluminium
	Timber and aluminium
	Timber and PVC
	Timber, PVC and aluminium
	Timber, timber-aluminium

### 1.1.2 Opening types

Symbol	Meaning
	Turning
	Tilting
	Turning and tilting
	Outwards turning
	Tilting and sliding
	Sliding outwards



Symbol	Meaning
	Sliding
	Folding and sliding
	Lifting

### 1.1.3 Product features

Symbol	Meaning
	Hardware axis
	Description
	DIN
	Distance
	Rebate depth
	Colour code, standard
	Colour code, Roto
	Colour
	Information
	Length
	Material
	Material number
	Maximum
	Minimum
	Surface



Symbol	Meaning
	Roto logo
	Number of screws
	Type of screws
	Security class
	Spindle length
	Depth
	Packaging unit
	Fork length

### 1.1.4 Surface names

Abbreviation	Meaning
anod.	Anodised
powd-c	Powder-coated
wet p	Wet painted
met p	Metallised
galv.	Galvanised

### 1.1.5 Surfaces

#### Anodising method (anod.)

A surface technology process for creating an oxidic protective layer on aluminium through anodic oxidation. Through conversion of the top metal layer, this produces a thin oxide layer of 5 to 25 micrometers which protects deeper layers from corrosion as long as there are no gaps in this layer, for example due to mechanical damage.

#### Powder coating (powd-c)

With the powder coating, an electrically charged powder cloud is firstly created. The charged particles are transported to the workpiece surface. This is where they accumulate, electrostatically adhere and form the powder coating layer. When the workpiece is then heated, the paint particles of the powder coating melt to form a homogeneous surface.

#### Wet coating

With this coating method, the liquid spray material is sprayed using compressed air. This creates a gentle jet of coating with minimal paint mist. This method is ideal for low and extra-low quantities. The quantity of material applied can be tailored to the object to be coated and the spray material extremely precisely and flexibly.

#### Metal-plating (met p)

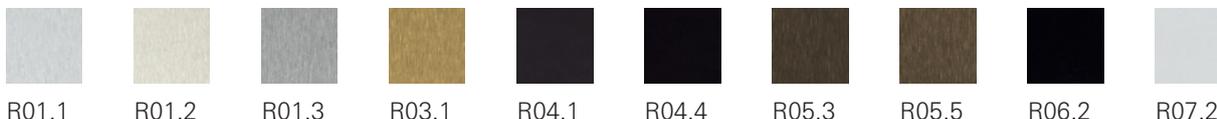
Electroplated metallic top layer for an especially decorative appearance and corrosion protection. Only use components with this surface in indoor areas.



## 1.1.6 Colours

Colour code, Roto	Colour code, standard	Colour
R01.1	–	Natural silver
R01.2	–	Nickel silver
R01.3	–	Titanium
R01.4	–	Chrome
R01.5	–	Silver
R02.2	RAL 7016	Anthracite grey
R03.1	–	Brass matt
R03.2	–	Brass, polished
R03.3	–	Gold
R03.4	–	Stainless-steel design
R04.1	RAL 8019	Grey brown
R04.3	–	Olive brown
R04.4	RAL 8022	Black brown
R05.3	–	Medium bronze
R05.4	–	Dark bronze
R05.5	–	Bronze
R06.2M	RAL 9005, matt	Jet black, matt
R06.2	RAL 9005	Jet black
R06.4M	–	Black, matt
R07.1	RAL 9010	Pure white
R07.2	RAL 9016	Traffic white
R07.3	RAL 9001	Cream
SP. COL.	SP. COL.	Special colour
R00.0	Untreated	Uncoated

### Colour examples



R01.1 R01.2 R01.3 R03.1 R04.1 R04.4 R05.3 R05.5 R06.2 R07.2



### INFO

Colours may deviate in the illustration.

## 1.1.7 Abbreviations

Abbreviation	Meaning
HA	Hardware axis
DIN L / R	DIN left / right
T&T	Tilt&Turn hardware
Anod.	Anodised
SRW	Sash rebate width
SRH	Sash rebate height
S.kg	Sash weight
Y	Yes
VT	Vertical tilting
KU	Couplable
met p	Metal-plated
mm	Millimetres
CL	Centre lock
N	No
wet p	Wet-painted
Nm	Newton metres
LMD	Lifting mishandling device
Not sh.	Not shown

## Information

### General

#### Copyright protection



Abbreviation	Meaning
powd-c	Powder-coated
RC	Resistance class
SEC	Security
NDHS	Narrow door handle set

### 1.1.8 Copyright protection

The contents of this document are copyright-protected. This content can be used when working with the hardware. Any other use is not permitted without written permission of the manufacturer.



## 1.2 Roto Handles

### 1.2.1 Design lines

Roto offers an extensive range of handles in various colours and technical variants for every product range.



#### Roto Line

Roto Line promises a classic appearance in its most attractive form.

The combination of the harmonious line layout and high-quality aluminium elements ensures convenient handle operation.



#### Roto Swing

Roto Swing impresses as an exclusive and individual design element.

The continuous further development of the window handles underlines the successive transformation from a simple handle to a visible highlight on the window.

In addition to the high level of operating convenience and the long-lasting quality and functionality, the unusual shaping is a focal point.

The curved design of the Roto Swing is what gives it the special “swing” – providing advantages when it comes to appearance and ergonomics at the same time.



#### Roto Samba

Roto Samba strikes the perfect balance between a classic and modern appearance.

According to the design principle of “form follows function”, the Roto Samba boasts a perfect ergonomic shape with the back of the handle having a semicircular form and the front being curved for resting your thumb there. A recess for the index finger ensures a defined handle position and makes the handle comfortable to hold.

This means that the handle can be conveniently gripped in any position and is therefore easy to use.



#### Roto Freestyle

Roto Freestyle promises a modern appearance in its most attractive form.

The combination of the dynamic line layout and high-quality aluminium elements ensures convenient handle operation.



## 1.2.2 Ten-year performance warranty

A high-quality Roto product always signifies the fulfilment of a quality promise made to our customers. The best proof of this is a ten-year performance warranty for many of our door and window handles (if the relevant maintenance guidelines are adhered to; please refer to the following guideline → *from page 16*).

Using multiple tests, these Roto door and window handles are checked to ensure that they function permanently without any problems. Endurance tests and static load tests which realistically reconstruct the demanding “everyday” use of a door and window handle are carried out depending on requirements, with some of these tests even exceeding the tests and requirements stipulated by RAL-GZ 607/9.

The handles are tested on their own in the test cycles as part of the durability test in accordance with RAL-GZ 607/9. Operation of door and window handles (in corresponding operational cycles) is tested on the products in which these handles are installed (door and window element) under realistic conditions. This means that, besides purely the actuation function, the durable connection between the handle and the product in which it is installed is also tested.

By offering a ten-year performance warranty, Roto by far exceeds the two-year warranty period stipulated by the German Civil Code (BGB) and the four-year warranty period required by German Construction Contract Procedures (VOB) in the property sector.

### Warranty service

Beyond the statutory liability for defects on the part of the seller, Roto guarantees that door and window handles that are used properly will remain fully functional if the requirements below are met. The warranty covers the function of Roto door and window handles and includes all defects that are verifiably caused by production or material defects.

The performance warranty covers the following features:

- Transfer of the turning movement to the door lock or the window’s Tilt&Turn hardware
- Blocking mechanism (on window handles with the following special functions: lockable, automatic locking, Secustik®)

### Warranty exclusion

All individual parts which can be replaced, e.g. screws, connecting pins, etc., are excluded from this warranty. Furthermore, no liability shall be accepted for damage or loss caused by:

- Unsuitable or improper use,
- Incorrect or negligent treatment,
- Failure to follow installation and care instructions, making changes and attempts by the warrantee to carry out repairs themselves,
- Chemical and physical influences on the material surface that do not occur when the product is used as intended, e.g. damage caused by sharp objects,
- Elements which are not in proper working order (door, window) and / or hardware components (e.g. lock, hinge, etc.)

### Warranty conditions

Our warranty service consists exclusively of repairing the product free of charge or supplying a replacement free of charge that is equivalent to or is the same type and same value as the previous handle. This service is provided to the first end customer within the warranty period at our discretion. Costs, fees, postage and similar charged to the warrantee shall not be reimbursed. The warranty claim is only valid on presentation of the product and proof that the defect in functionality occurred within the warranty period. This proof can be provided by presenting the proof of purchase in particular. We therefore recommend keeping your proof of purchase in a safe place at least until the warranty period expires.

### Warranty period

The warranty period is ten years for handles covered by our quality promise and begins on the day the handle is purchased by the first end consumer. In the event of complaints, please contact the seller or manufacturer directly, presenting the product and your proof of purchase.

## 1.2.3 Product liability guidelines

In accordance with the German Product Liability Act (Produkthaftungsgesetz), Roto as a manufacturer is liable for ensuring that its products offer the expected level of safety and security after being presented. In this regard, the fol-



lowing specifications, as well as the content and information in the additional referenced documents, must be observed. Failure to observe these discharges Roto from its liability.

### **Product information**

Roto handles are hardware components which can be used to carry out opening and closing movements and/or blocking processes on balcony doors and window elements in high-rise buildings / residential buildings. The mounting material supplied must strictly be used.

When installing hardware components in aluminium profiles, Roto recommends using mounting material which is made from stainless steel or has a zinc flake coating. Contact corrosion may occur if different mounting material is used.

Products used in harsh, corrosive environments are special hardware components; they may only be used after prior consultation with Roto.

### **Stipulated use**

A locking system is only used as stipulated if

- The locking system is put together correctly by experts and consists of permissible hardware, locking components (e.g. key, cylinder) and accessories (e.g. striker plate),
- The information, instructions and notes contained in these guidelines, this catalogue and other technical documents are observed,
- The applicable mandatory legal provisions and standards are complied with,
- The locking system is installed by experts, taking into account the information, instructions and notes provided by Roto for this purpose, and
- The maintenance and care instructions are followed.

The length of time for which a product remains fit for use depends on

- How often it is used,
- The way in which it is used,
- Environment and care.

A handle must be replaced if, despite maintenance and care work being carried out, the function can no longer be guaranteed or if the surface poses a risk of injury.

The locking systems are configured for mounting profile cylinders.

The locking systems are not suitable for adapting to shape changes and changes to the sealing closure as a result of temperature differences or changes to the building.

The specific hardware as a whole (locking system) must be put together from genuine Roto parts by experts. If third-party parts are also used, Roto assumes no liability for any resultant malfunctions or damage.

Windows and balcony doors for wet rooms and for use in environments with aggressive, corrosive constituents in the air require special hardware.

### **Misuse (incorrect handling or handling contrary to the stipulated use)**

If the stipulated use is not complied with, this constitutes misuse or incorrect use of the product, which discharges Roto from its liability.

This applies to the following cases in particular:

- Auxiliary tools are used for operation (e.g. pliers or added-on lengths of pipe),
- Additional loads (retaining forces and support forces) are introduced (e.g. placing an object beneath a door handle to block the door),
- Forces exceeding standard hand force impact the handle (e.g. attempting to prevent blocking of the Tilt&Turn hardware using increased force or using door handles for support, e.g. in the case of children),
- External objects and/or objects not suitable for the door are introduced (e.g. pins from third-party manufacturers or a combination of product parts from third-party manufacturers with those from Roto),
- Incidents occur which affect functionality (e.g. attempts to break in or out using tools on lockable window handles),
- The surface is damaged by sharp objects,
- The introduction of external and/or unsuitable objects into the hardware system or the striker plate prevents them from operating properly,

## Information

### Roto Handles

#### Quality assurance requirement



- Work is performed on the hardware system or striker plate or they are otherwise impaired in such a way that the structure, mode of operation or correct functioning is impacted.

Please refer to the product-specific documents for more information on misuse.

#### Product maintenance

Ensure that the hardware components and mounting material are fitted correctly so that they function properly.

Maintenance must be performed on all movable parts at least once per year – or more often depending on use.

Hardware systems must be treated with care products recommended by Roto depending on use.

As a general rule, they must never be treated with strong acids or alkalis. Contamination with mortar and similar materials must always be avoided. Only cleaning agents which do not contain any corrosive substances should be used.

#### Duty to provide information and issue instructions

The following documents are available to provide information to dealers, planning engineers, architects, advisory institutes, fabricators, builders and users:

- Catalogues and brochures,
- Texts for invitation of tenders,
- Purchasing information,
- Quotation documents,
- Installation, operation and care instructions.

Roto is also on hand to give advice if required.

For selecting Roto hardware systems and for installation, operation and care,

- architects, planning engineers and advisory institutes are obligated to request all of the necessary product information from Roto and to observe this information;
- specialist dealers are obligated to observe the product information and instructions in the documents and, in particular, to request all of the necessary instructions from Roto and to pass these on to the fabricators;
- fabricators are obligated to observe all production information and, in particular, to request operation and care instructions from Roto and to pass these on to the customers and users.

## 1.2.4 Quality assurance requirement

RAL-GZ 607/9 and the DIN standards DIN EN 13126-3 and DIN 18267 are authoritative (guiding principles) for window hardware systems.

The European standard DIN EN 13126 consists of 19 parts. It covers hardware for windows and balcony doors. Part 3 of this series of standards has been completely revised (edition 04 / 2023) and defines requirements and test procedures for actuation handles, in particular for Tilt&Turn, TiltFirst and Turn-Only hardware, using an eight-digit classification key. Details of the classification key, which has been standardised for all parts of the standard, are given below.

The European standard does not define any requirements for the dimensions of the window handles. These are specified in DIN 18267 (e.g. square spindle  $\square$  7 mm, centre distance of screw fixing 43 mm).

### 1.2.4.1 Classification key in DIN EN 13126-3

Example classification key H2/180-0-3-0-2-3-C1-2: lockable window handle RAL 100 in accordance with EN 13126-3

#### First digit: durability

Example: **H2/180**-0-3-0-2-3-C1-2

Class	Description
H1/90	5000 Turn-Only cycles
H2/90	10,000 Turn-Only cycles
H3/90	20,000 Turn-Only cycles
H1/180	5000 Tilt&Turn cycles



Class	Description
H2/180	10,000 Tilt&Turn cycles
H3/180	20,000 Tilt&Turn cycles

### Second digit: weight

Example: H2/180-**0**-3-0-2-3-C1-2

Class	Description
0	No requirement

### Third digit: corrosion resistance

Example: H2/180-0-**3**-0-2-3-C1-2

Class	Description	DIN EN 1670
0	No defined corrosion resistance	No defined corrosion resistance
1	At least class 1 according to DIN EN 1670	Low resistance
2	At least class 2 according to DIN EN 1670	Moderate resistance
3	At least class 3 according to DIN EN 1670	High resistance
4	At least class 4 according to DIN EN 1670	Very high resistance
5	At least class 5 according to DIN EN 1670	Exceptionally high resistance

### Fourth digit: test size

Example: H2/180-0-3-**0**-2-3-C1-2

Class	Description
0	No requirement

### Fifth digit: protection against burglary

(in accordance with additional test parameters)

Example: H2/180-0-3-0-**2**-3-C1-2

Class	Description
0	No protection
1	35 Nm resistance against twisting-off and forcing-off
2	100 Nm <sup>[1]</sup> Resistance against twisting-off and forcing-off
3	200 Nm <sup>[2]</sup> Resistance against twisting-off and forcing-off

### Sixth digit: key-related security

(in accordance with additional test parameters)

Example: H2/180-0-3-0-2-**3**-C1-2

Class	Description
0	No locking mechanism
1	Deadbolt locking mechanism
2	Keyed locking mechanism with $\geq 25$ locking varieties
3	Keyed locking mechanism with $\geq 100$ locking varieties

### Seventh digit: handle type

(type of actuation handle)

Example: H2/180-0-3-0-2-3-**C1**-2

Class	Description	Handle version
N1	N = without locking function	1 = window handle
N2	N = without locking function	2 = espagnolette handle
C1	C = with locking function	1 = window handle
C2	C = with locking function	2 = espagnolette handle

[1] Alternatively, breaking torque  $\geq 40$  Nm with full blocking function

[2] Alternatively, breaking torque  $\geq 50$  Nm with full blocking function



**Eighth digit: category of use**

Example: H2/180-0-3-0-2-3-C1-2

Class	Description		
1	Cogging torques before and after the durability test	Between-clicks torque	$M_0 \leq 1.4 \text{ Nm}$
		Click-out torque	$M_a \leq 6.0 \text{ Nm}$
		Difference	$M_d \geq 0.4 \text{ Nm}$
	Free play perpendicular and parallel to the mounting plane		$\Delta \leq 6 \text{ mm}$
	Torsional strength 200 N / 85 mm / 30 s	Permissible deformation	$\Delta \leq 5 \text{ mm}$
	Tensile strength of spindle connection		$F \geq 100 \text{ N}$
	Eccentric tensile strength		$F \geq 600 \text{ N}$
2	Cogging torques before and after the durability test	Between-clicks torque	$M_0 \leq 0.8 \text{ Nm}$
		Click-out torque	$M_a \leq 4.0 \text{ Nm}$
		Difference	$M_d \geq 0.8 \text{ Nm}$
	Free play perpendicular and parallel to the mounting plane		$\Delta \leq 4 \text{ mm}$
	Torsional strength 200 N / 85 mm / 30 s	Permissible deformation	$\Delta \leq 5 \text{ mm}$
	Tensile strength of spindle connection		$F \geq 100 \text{ N}$
	Eccentric tensile strength		$F \geq 1200 \text{ N}$

For the example, this means:

	Class	Description		
Durability	H2/180	10,000 Tilt&Turn cycles		
Weight	0	No requirement		
Corrosion resistance	3	At least class 2 according to EN 1670		
Test size	0	No requirement		
Protection against burglary	2	100 Nm, resistance against twisting-off and forcing-off		
Key-related security	3	Keyed locking mechanism with $\geq 100$ locking varieties		
Handle type	C1	C = with locking function 1 = window handle		
Category of use	2	Cogging torques before and after the durability test	Between-clicks torque	$M_0 \leq 0.8 \text{ Nm}$
			Click-out torque	$M_a \leq 4.0 \text{ Nm}$
			Difference	$M_d \geq 0.8 \text{ Nm}$
		Free play perpendicular and parallel to the mounting plane		$\Delta \leq 4 \text{ mm}$
		Torsional strength 200 N / 85 mm / 30 s	Permissible deformation	$\Delta \leq 5 \text{ mm}$
		Tensile strength of spindle connection		$F \geq 100 \text{ N}$
	Eccentric tensile strength		$F \geq 1200 \text{ N}$	

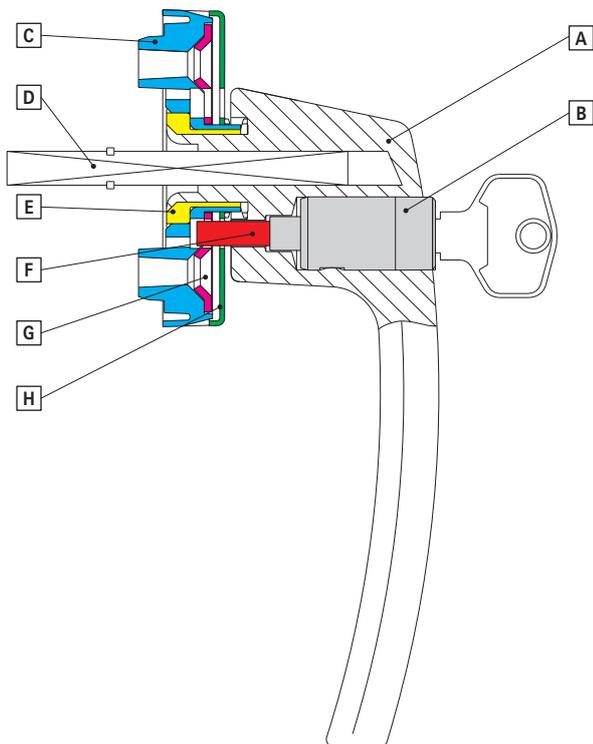


## 1.2.5 Functionality

### 1.2.5.1 Lockable window handle

Roto lockable handles 100 Nm – the convenient security grade:

- Lockable window handle tested to a torque of 100 Nm<sup>[3]</sup>: high mechanical security that provides good burglary protection
- Combined with a suitable window element, it meets the requirements of all resistance classes RC 1–6
- Very convenient due to large turn-key and easy to use push cylinder
- Locks the closed or tilted window rapidly and simply “at the push of a button”
- Meets the requirements of the European standard DIN EN 1627–1630 and can therefore be marketed in all EU member states



Assignment	Meaning
[A]	Window handle
[B]	Locking cylinder with turn-key
[C]	Escutcheon-cover body
[D]	Spindle
[E]	Stop-notch bushing
[F]	Locking pin
[G]	Locking plate
[H]	Cover cap

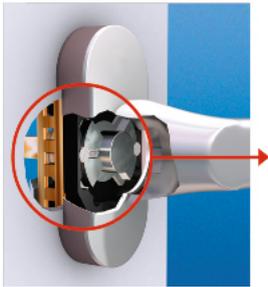
[3] 1 Nm (Newton metre) is the torque which generates a force of 1 N at the pivot point of a lever of 1 m length.



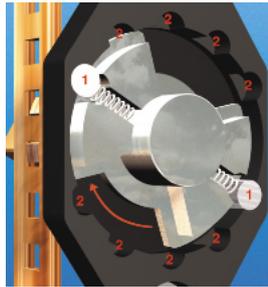
### 1.2.5.2 Secustik®

Secustik® is a registered trademark of HOPPE Holding AG. Secustik® handles have a patented locking mechanism as integrated basic security. This prevents the window hardware from being operated from outside by unauthorised individuals. A coupling element between the handle and the square spindle functions here as a “mechanical diode”. It allows the window handle to be actuated normally from the inside, yet blocks the handle if someone tries to manipulate the window handle from the outside via the hardware. When actuating the Secustik® handles 180° from the locked position to the tilt position, the self-locking mechanism engages with a subtle click into different handle positions. This provides you with excellent added security.

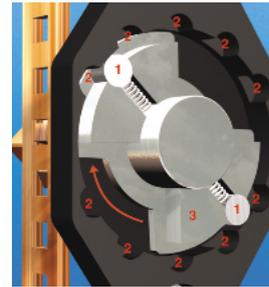
#### How Secustik® technology works



Patented locking mechanism of the Secustik® handle

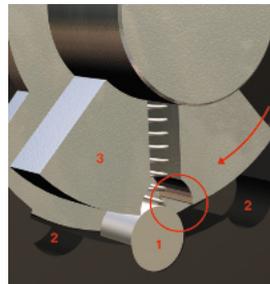


When the handle is turned, the spring-loaded locking bolts [1] engage in special recesses in the housing [2] with a precision click.

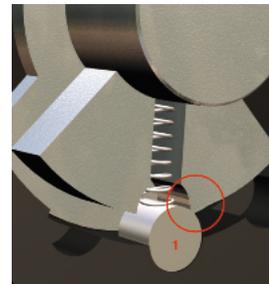


In the course of the rotary movement, the locking bolts [1] are carried by the coupling element [3] to the other recesses [2], where they audibly engage again.

#### This is how Secustik® technology effectively prevents attempted break-ins



In the event of an attempted break-in, the locking bolts [1] are pressed into the recesses in the housing [2] by a second coupling element [3].



In this position, the locking bolts [1] effectively prevent the handle from being turned from the outside. The handle locks and thwarts the break-in attempt.



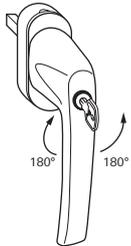
### 1.2.5.3 Tilt-First

#### Locking and unlocking

The key locks or unlocks the handle. If the handle is unlocked, it can be moved freely.

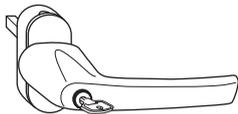
**Lock:** Turn the key 180° counterclockwise.

**Unlock:** Turn the key 180° clockwise.



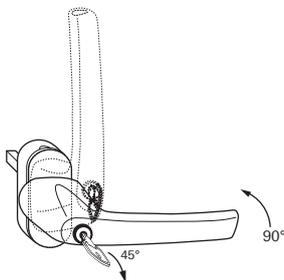
#### Tilt:

Turn the unlocked handle 90° (tilt mode = horizontal), in order to tilt the window. Without the key, the handle cannot be turned and brought into the turn mode (vertical).



#### Turn:

Precondition: The handle is in the tilt mode (horizontal) when the window is closed. Turn the key 45° and hold; simultaneously turn the handle 90° and bring it into the turn mode (vertical). Tilt-First handles should only be operated when the window is closed.



The lockable Roto Tilt-First handle (tilt before turn) locks the window sash in the tilt mode, with the handle in the horizontal position. The lockable handle prevents the possibility of changing from tilting to turning in order to fully open the window. This is only possible after unlocking.

The handle is equipped with a free-running mechanism between the locked position and the tilted position (unlocking the cylinder is not necessary) in order to enable ventilating. A blocking mechanism is located at the limit-stop of 90° tilt position. Continuing to move the handle into the 180° turn position is only possible after unlocking the cylinder.

Furthermore, the handle can be locked in the 0° locked position, thus providing an additional burglar-inhibiting security function. In addition, this innovative handle is equipped with a unique automatic locking function that blocks the opening operation in the 180° turn mode, without locking the cylinder. Important: The Tilt-First (TF) function can only be ensured with Tilt-First hardware or T&T hardware dedicated for this usage.

Each Roto TF window-handle package contains a sticker with information on the Tilt-First function.

### 1.2.6 Care

Hardware systems should be treated with maintenance agents recommended by Roto – depending on demand. Contamination with plaster and similar materials must be avoided in every case. Only cleaning agents which do not contain corrosive materials should be used. Do not treat with strong acids and alkaline solutions.



## 1.3 Storage conditions



### **Protecting components against dirt and dust**

Always keep the containers closed, and always cover open hardware containers or goods stored open (i.e. with a layer of cardboard).

### **Protecting components against mechanical damage**

Only transport and handle the containers using suitable means of transport or conveyance (forklifts, lifting devices and roller belts, etc.). Only stack pallets and cardboard boxes (during transport) to the maximum height specified in the printed instructions on the packaging.

### **Protecting components against direct moisture and wet**

The packaging must remain dry and the components must not get wet. This applies to storage and transport, as well as for unloading and loading procedures. Where appropriate, plastic protective sheets or similar are to be used during outdoor transport (i.e. on-site transport) when raining.

Only store components in suitable closed rooms and not outdoors. Condensation must absolutely be avoided during the entire duration of transport and storage.

### **If containers nevertheless get wet...**

Immediately unpack the components from the wet containers, dry the components and check for damage (signs of corrosion). In any case, repack the usable components when dry with new packaging material



## 1.4 Environment



### **Environmental compatibility of the hardware components**

Our objective is to succeed in manufacturing our hardware components with the lowest possible consumption of energy and operating resources, and we strive to produce extremely durable hardware components. To achieve this, we conserve natural resources, minimise energy consumption and use raw materials in an environmentally friendly manner.

### **Environmental impact resulting from the hardware**

The surface quality of our treated surfaces is abrasion-resistant. No environmental pollution is caused by hardware components when the stipulated use is complied with.

### **Environmental compatibility of the packaging**

We use recyclable disposable packaging made of reinforced cardboard, steel strapping, PVC packaging tape, PE sheeting, timber frames, single-use wooden pallets, cable ties, elastomer cord as well as reusable packaging, reusable boxes from Schäfer, pallet crates and EURO wooden pallets.

### **Environmental compatibility of disposal**

Our hardware is made of materials which enable environmentally friendly material utilisation and can be disposed of as mixed scrap.

### **Returning packaging material**

Our packaging with the INTERSEROH logo is accepted free of charge by every INTERSEROH disposal partner. The directory of your local disposal partners can be requested nationwide from the telephone exchange of ISD INTERSEROH GmbH in Cologne using the following telephone number: +49 2203 9147-322. The Roto INTERSEROH number is 25582.



## 1.5 Certifications

### 1.5.1 Quality management

The certification in accordance with the international standard DIN EN ISO 9001 certifies that Roto plans, documents and appropriately implements the entire development, production and sales process systematically. Starting with development and design through to quality planning, production and assembly right through to sales and customer service.

The certification is an external indication of the quality awareness practised at Roto:

- Roto's objective is to ensure continuous product and service improvements for the benefit of its customers.
- Roto offers its customers innovative, environmentally friendly and technically sophisticated architectural hardware technology.
- Roto products are supplied punctually worldwide with constant guaranteed quality.
- Roto's comprehensive view regards all business activities – including all the activities within the company – to be the key to achieving long-term corporate success.
- Roto employees are supported in their personal development and fulfil Roto's high quality requirements in their day-to-day work. Their work is performance and goal-oriented.

<b>Certificate</b>		 ROSENHEIM
Certificate-No.: 791-9004105-1-3		
<p><b>Subject</b> Quality Management System DIN EN ISO 9001:2015</p> <p><b>Company (Headquarters)</b> Roto Frank Fenster- und Türtechnologie GmbH Wilhelm-Frank Platz 1 DE - 70771 Leinfelden-Echterdingen</p> <p><b>Scope of the headquarters</b> Development, design, production and sales of window and door technology</p> <p><b>Further sites</b> see appendix to the certificate</p> <p><b>Rules for sites certification</b> During the certification-audit it was demonstrated that the company and all sites listed in this certificate have established and are applying a quality management system in accordance with DIN EN ISO 9001:2015 "Quality Management Systems-Requirements".</p> <p> Christian Kehrer Head of Certification and Surveillance Body</p> <p>ift Rosenheim 18.05.2024</p> <p>Initial certification: 18.05.2021 Contract No.: 791 9004105 Valid until: 17.05.2027</p>		<p><b>Basis:</b> ISO 9001</p> <p></p> <p><b>Validity</b> The certificate is valid for three years. During this time the company is surveyed annually. The certificate is only valid in combination with the accompanying certification and surveillance contract. ift-Q.Zert shall be informed immediately in writing of all changes to the qualifications for certification and supplied with copies of all resulting new management documents.</p> <p><b>Notes on Publication</b> The certificate shall only be reproduced unchanged. Regulations for the use of reports are given in the „Allgemeine Bedingungen für die Zertifizierung von Managementsystemen“.</p> <p>The company is entitled to use the "ift-certified" mark in accordance with the ift "Zeichensetzung" (rules on the use of the ift-mark).</p>
<p><small>DM17 - 18.05.2024/01.05.2024</small></p>		 ZERTIFIZIERT CERTIFIED  Identity Check  www.ift-rosenheim.de/ ift-zertifiziert ID: 266-B3DA2
<p><small>ift Rosenheim GmbH Theodor-Geel-Str. 7-9 D 83629 Rosenheim</small></p> <p><small>Contact: Phone +49 8331 261-0 Fax: +49 8331 261-286 info@ift-rosenheim.de www.ift-rosenheim.de</small></p> <p><small>Accredited Certification Body for Management Systems EN ISO/IEC 17021-1</small></p>		 



## 1.5.2 International Technology Centre (ITC)

Roto has owned a modern International Technology Centre (ITC) at its Leinfelden headquarters since October 1996. This facility is available for both our own material and product testing as well as for inspecting finished products made by Roto market partners.

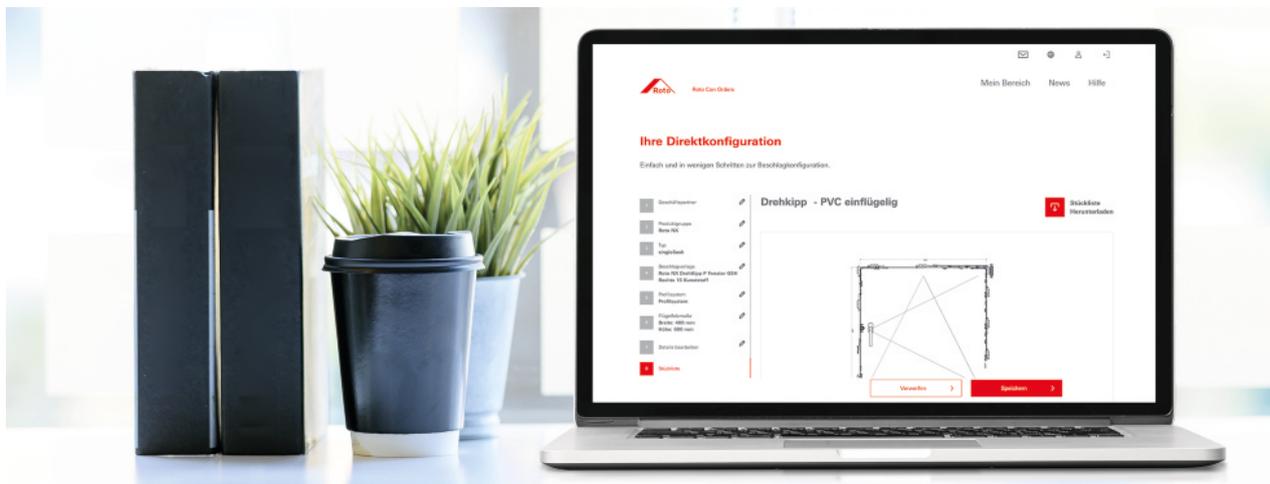


The ITC is accredited in accordance with DIN EN ISO / IEC 17025 and has the expertise required to perform tests in areas including mechanical technological testing of facade elements such as windows, doors and hardware, as well as metallic materials.

Achieving accreditation in accordance with DIN EN ISO / IEC 17025 represents the highest distinction for a test institute in the private sector. The requirements for this are an extensive quality management system, trained personnel, high-quality test rigs and measuring instruments, as well as continuous external monitoring by the accreditation authorities.



## 1.6 Roto Con Orders

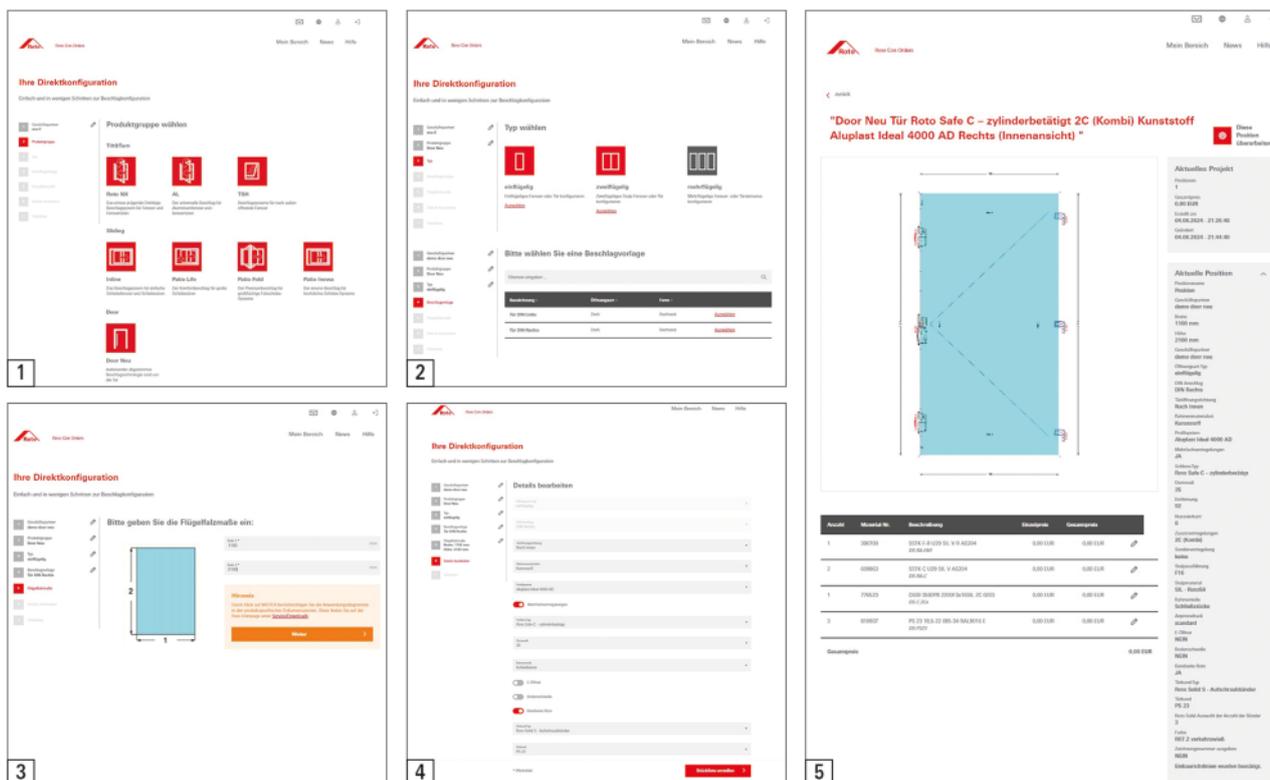


### Just four steps for a finished parts list

Roto Con Orders is the perfect solution for window and door manufacturers, and for dealers. This is because with the high-performance online hardware configurator, an individual configuration of window and door hardware can be generated very easily and in an extremely short time – for all common shapes and opening types. Just a few mouse clicks and a couple of numeric entries, and the individual parts list including a technical illustration of the hardware itemising is finished. The list can be changed, adapted or personalised as desired. It can be exported in various data formats, enabling it to be used for individual offers or orders. Benefit from this efficient Roto online tool, save time during configuration, management and ordering – with Roto Con Orders.

### Hardware configuration has never been this easy

With intuitive menu guidance, you generate an optimum parts list in just four steps:



1. Selection of the product group
2. Selection of the design template
3. Entry of sizes
4. Individual detailed settings and adaptations



5. **Result:** output of a detailed data sheet with a technical illustration and a complete parts list with editable order numbers, descriptions and individual and total prices.

### **Intelligent additional functions simplify your processes**



Roto Con Orders makes it easy for you to simplify and accelerate your processes. A large number of useful functions are available to help you do this:

- Store your own company addresses and logos in the header of your offers
- Create and manage customer-specific projects
- Generate individual customer hardware templates
- Integrate a discount structure system
- Material master management
- Due to its responsive design, it can be used on all devices such as PCs, tablets, and smartphones

### **Get started straight away thanks to web-based solution**

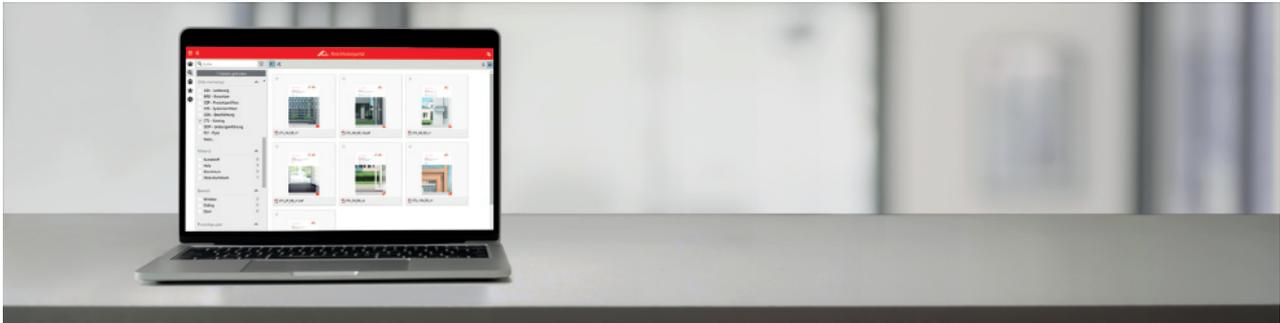
Roto Con Orders is a web-based solution that you can access around the world and around the clock. You only require a computer with a web browser and Internet access for this purpose. To work with the online hardware configurator, please register once with your e-mail address in the portal for dealers and manufacturers at:



[www.roto-frank.com](http://www.roto-frank.com)



## 1.7 Roto media portal



### Simple and quick

The Roto media portal is where all media is available, such as catalogues, installation instructions, brochures and interactive installation videos. Access to this portal is optimised for PCs, laptops and mobile devices.

The clear user interface and the numerous search options ensure that all available media can be found simply and quickly. Content can be read directly in the Roto media portal or downloaded for later.

The Roto media portal can be accessed via the “Downloads” link in the “Service” main menu item on the Roto website or directly using the links below.



[www.roto-frank.com](http://www.roto-frank.com)



## 1.8 Further Roto products

### 1.8.1 Roto Window

**Tilt&Turn** – Tilt&Turn hardware systems for windows and balcony doors

**Timber, PVC and aluminium for a 16 mm hardware groove**



#### Roto NX

The Tilt&Turn hardware system for windows and balcony doors shaping the industry once again



#### Roto NT

The world's biggest selling Tilt&Turn hardware system for windows and balcony doors

#### Aluminium



#### Roto AL

Universal hardware for aluminium windows and balcony doors



#### Roto AL Designo

Concealed hardware for aesthetic aluminium windows and balcony doors

**Outward Opening** – Hardware systems for outward opening windows



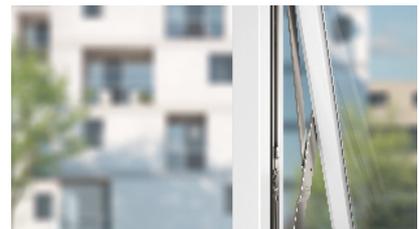
#### Roto FS Kempton

Stainless-steel friction stays for outward opening windows



#### Roto PS Aintree

Parallel stainless-steel friction stays for outward opening windows



#### Roto FRH Uni

Fully reversible hinges for outward opening windows



## 1.8.2 Roto Sliding

**Roto Patio** – High-quality sliding windows and doors



**Roto Patio** Fold

Premium hardware for Fold&Slide systems with a large surface



**Roto Patio** Life

Comfort hardware for large sliding doors



**Roto Patio** Lift

Hardware for versatile use in Lift&Slide systems



**Roto Patio** Alversa

Universal hardware for minimum effort in Parallel Sliding and Tilt&Slide systems



**Roto Patio** Inowa

Intelligent hardware for tightly sealed sliding systems

**Roto Inline** – Basic sliding windows and doors



**Roto Inline**

The hardware system for basic sliding windows and sliding doors



## 1.8.3 Roto Door

**Roto Safe** – The modular multipoint locking system for doors



**Roto Safe H**

Mechanical multipoint lockings for lever-handle-operated doors



**Roto Safe C**

Mechanical multipoint lockings for cylinder-operated doors



**Roto Safe A**

Mechanical-automatic multipoint lockings for doors



**Roto Safe E**

Electromechanical multipoint lockings for doors



**Roto Safe P**

Mechanical multipoint lockings for escape and panic doors

**Roto Solid** – Comprehensive range of door hinges



**Roto Solid S**

Screw-on hinges for doors



**Roto Solid B**

Butt hinges for doors



**Roto Solid C**

Concealed hinges for doors

**Roto Eifel** – Thresholds for doors and balcony doors



**Roto Eifel**

Tailor-made range of thresholds for tightly sealed accessible doors and balcony doors



## 1.8.4 Roto Equipment

**Drive&Control** – Electronic components for windows and doors



**Roto E-Tec Drive**  
The concealed drive for windows



**Roto E-Tec Control**  
Wired sensors for security technology and room climate



**Roto Com-Tec Sensor**  
Wireless sensors integrated in hardware for home security

**Handles** – Handles for all opening types



**Roto Swing**  
The modern handle line



**Roto Line**  
The classic handle line



**Roto Samba**  
The classic yet modern handle line



**Roto Freestyle**  
Solutions for all opening types

**Fix&Glazing** – Installation and glazing solutions for windows and doors



**Roto Glas-Tec**  
Customised solutions for safe glazing



## **1.9 Contact**

### **Roto Frank**

#### **Fenster- und Türtechnologie GmbH**

Wilhelm-Frank-Platz 1

70771 Leinfelden-Echterdingen

Germany

Phone +49 711 7598 0

Fax +49 711 7598 253

info@roto-frank.com

www.roto-frank.com

## Roto NX









**Roto Swing**

Standard	40
Night ventilation	42
Push-to-open	43
Lockable 40 Nm	45
Lockable 40 Nm – TiltFirst	47
Lockable 100 Nm	48
Secustik®	49
Secustik® – night ventilation	51
Handle set with escutcheons	53

Handle set with escutcheons	83
Handle set with escutcheons – flat handle on the outside	84

**Roto Line**

Standard	54
Standard – 160 mm (comfort window)	56
Night ventilation	57
Push-to-open	59
Lockable 40 Nm	61
Lockable 40 Nm – TiltFirst	63
Lockable 100 Nm	65
Lockable 200 Nm	67
Secustik®	68
Secustik® – night ventilation	70
Escutcheon for service handle	71
Handle set with escutcheons	72
Handle set with escutcheons – flat handle on the outside	74
Handle set with escutcheons – long plate on the outside	75

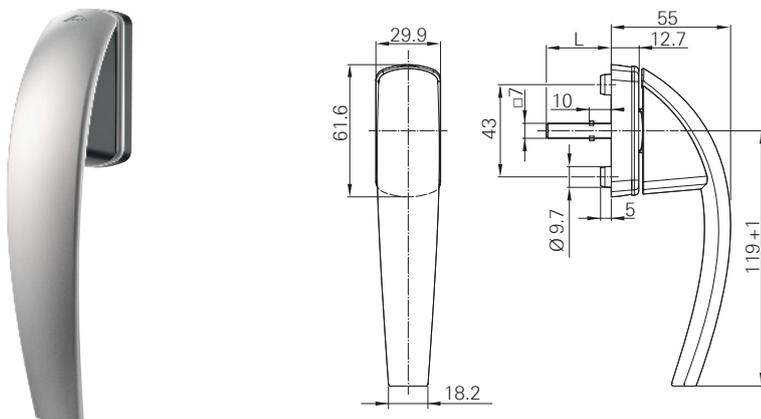
**Roto Samba**

Standard	76
Night ventilation	77
Push-to-open	78
Lockable 40 Nm	79
Lockable 40 Nm – TiltFirst	80
Lockable 100 Nm	81
Secustik®	82

## 2 Roto NX

### 2.1 Roto Swing

#### 2.1.1 Standard

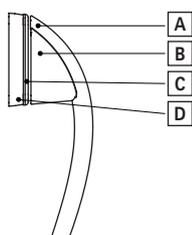


#### Product description

- Basic handle without additional functions
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

#### Scope of delivery

- 1 handle
- 2 fixing screws

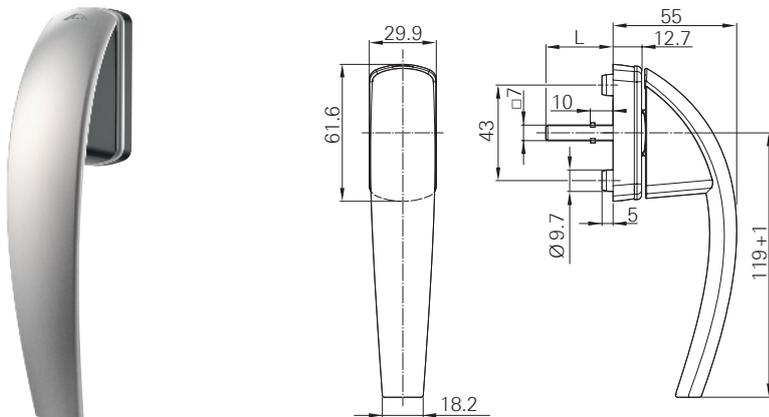


- |                    |   |
|--------------------|---|
| [A] Handle lever   | ✓ |
| [B] Design element | ⓘ |
| [C] Cover          | ⓘ |
| [D] Escutcheon     | ⓘ |



									
32	R01.1	Natural silver	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x40	15 Piece(s)	641112
	R07.2	Traffic white	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x40	15 Piece(s)	641115
37	R01.1	Natural silver	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x45	15 Piece(s)	641117
	R01.2	Nickel silver	[B] Beige, [C] Beige, [D] Beige	anod.	Y	2	M5x45	15 Piece(s)	641119
	R01.3	Titanium	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x45	15 Piece(s)	641120
	R03.1	Brass matt	[B] Pantone 468C, [C] Gold, [D] Pantone 468C	anod.	Y	2	M5x45	15 Piece(s)	641121
	R04.4	Black brown	[B] Brown, [C] Brown, [D] Brown	powd-c	Y	2	M5x45	15 Piece(s)	641122
	R05.3	Medium bronze	[B] Pantone 462C, [C] Medium bronze, [D] Pantone 462C	anod.	Y	2	M5x45	15 Piece(s)	641123
	R05.5	Bronze	[B] Pantone 462C, [C] Bronze, [D] Pantone 462C	anod.	Y	2	M5x45	15 Piece(s)	641124
	R07.2	Traffic white	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x45	15 Piece(s)	641125
			[B] F7503, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x45	15 Piece(s)	641126
43	R01.1	Natural silver	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x50	15 Piece(s)	641127
	R01.3	Titanium	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x50	15 Piece(s)	641130
	R04.4	Black brown	[B] Brown, [C] Brown, [D] Brown	powd-c	Y	2	M5x50	15 Piece(s)	641132
	R05.3	Medium bronze	[B] Pantone 462C, [C] Medium bronze, [D] Pantone 462C	anod.	Y	2	M5x50	15 Piece(s)	641133
	R07.2	Traffic white	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x50	15 Piece(s)	641135

## 2.1.2 Night ventilation

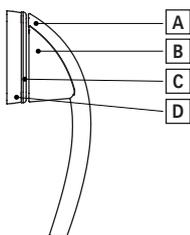


### Product description

- Basic handle without additional functions
- 90° lock-in position, 45° lock-in position for night ventilation
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

### Scope of delivery

- 1 handle
- 2 fixing screws



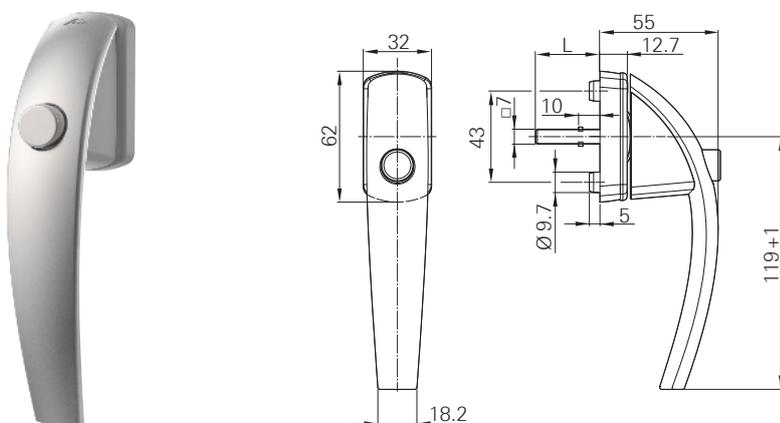
- [A] Handle lever
- [B] Design element
- [C] Cover
- [D] Escutcheon

32	R01.1	Natural silver	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x45	15 Piece(s)	613997	
	R01.3	Titanium	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x45	15 Piece(s)	613999	
	R03.1	Brass matt	[B] Pantone 468C, [C] Gold, [D] Pantone 468C	anod.	Y	2	M5x45	15 Piece(s)	614000	
	R05.5	Bronze	[B] Pantone 462C, [C] Bronze, [D] Pantone 462C	anod.	Y	2	M5x45	15 Piece(s)	614001	
	R07.2	Traffic white	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x45	15 Piece(s)	614002	
37	R01.1	Natural silver	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x45	15 Piece(s)	607855	
	R01.2	Nickel silver	[B] Beige, [C] Beige, [D] Beige	anod.	Y	2	M5x45	15 Piece(s)	615684	
	R01.3	Titanium	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x45	15 Piece(s)	607854	
	R03.1	Brass matt	[B] Pantone 468C, [C] Gold, [D] Pantone 468C	anod.	Y	2	M5x45	15 Piece(s)	615685	
	R04.4	Black brown	[B] Brown, [C] Brown, [D] Brown	powd-c	Y	2	M5x45	15 Piece(s)	615686	
	R05.3	Medium bronze	[B] Pantone 462C, [C] Medium bronze, [D] Pantone 462C	anod.	Y	2	M5x45	15 Piece(s)	613862	
	R05.5	Bronze	[B] Pantone 462C, [C] Bronze, [D] Pantone 462C	anod.	Y	2	M5x45	15 Piece(s)	615687	
R07.2	Traffic white	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x45	15 Piece(s)	607853		



									Nº
43	R01.1	Natural silver	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x50	15 Piece(s)	607856
	R01.3	Titanium	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x50	15 Piece(s)	607858
	R04.4	Black brown	[B] Brown, [C] Brown, [D] Brown	powd-c	Y	2	M5x50	15 Piece(s)	632281
	R05.3	Medium bronze	[B] Pantone 462C, [C] Medium bronze, [D] Pantone 462C	anod.	Y	2	M5x50	15 Piece(s)	632282
	R05.5	Bronze	[B] Pantone 462C, [C] Bronze, [D] Pantone 462C	anod.	Y	2	M5x50	15 Piece(s)	632283
	R07.2	Traffic white	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x50	15 Piece(s)	607857

### 2.1.3 Push-to-open

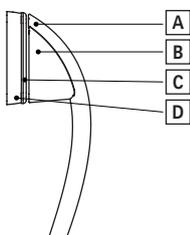


#### Product description

- Handle with push-to-open mechanism
- The push function makes locking and unlocking possible
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

#### Scope of delivery

- 1 handle
- 2 fixing screws



- [A] Handle lever
- [B] Design element
- [C] Cover
- [D] Escutcheon

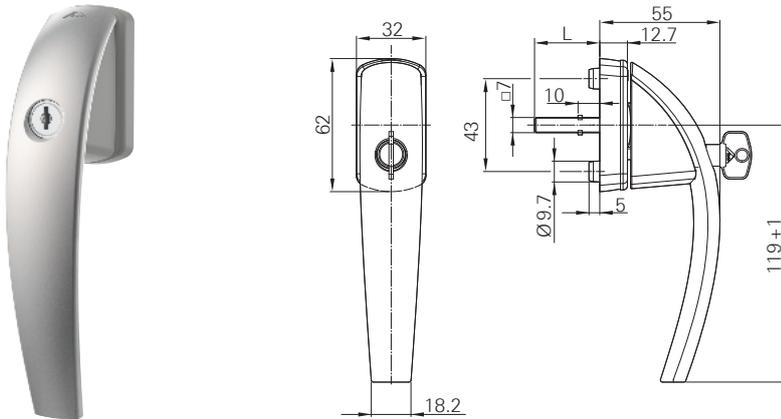
									Nº
37	R01.1	Natural silver	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x45	15 Piece(s)	632330
	R01.3	Titanium	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x45	15 Piece(s)	632332
	R05.3	Medium bronze	[B] Pantone 462C, [C] Medium bronze, [D] Pantone 462C	anod.	Y	2	M5x45	15 Piece(s)	632335
	R05.5	Bronze	[B] Pantone 462C, [C] Bronze, [D] Pantone 462C	anod.	Y	2	M5x45	15 Piece(s)	632336
	R07.2	Traffic white	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x45	15 Piece(s)	632337

**Roto NX**  
**Roto Swing**  
 Push-to-open

									
43	R01.1	Natural silver	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x50	15 Piece(s)	632338
	R01.3	Titanium	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x50	15 Piece(s)	632340
	R05.3	Medium bronze	[B] Pantone 462C, [C] Medium bronze, [D] Pantone 462C	anod.	Y	2	M5x50	15 Piece(s)	632343
	R05.5	Bronze	[B] Pantone 462C, [C] Bronze, [D] Pantone 462C	anod.	Y	2	M5x50	15 Piece(s)	632344
	R07.2	Traffic white	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x50	15 Piece(s)	632345



## 2.1.4 Lockable 40 Nm

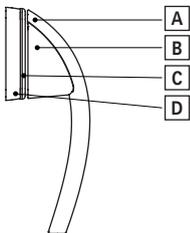


### Product description

- Lockable handle with tested torque 40 Nm (basic security)
- Closure: rotary cylinder with reversible key
- Can be operated when the handle is unlocked
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

### Scope of delivery

- 1 handle
- 1 key
- 2 fixing screws



- [A] Handle lever ✓
- [B] Design element ⓘ
- [C] Cover ⓘ
- [D] Escutcheon ⓘ

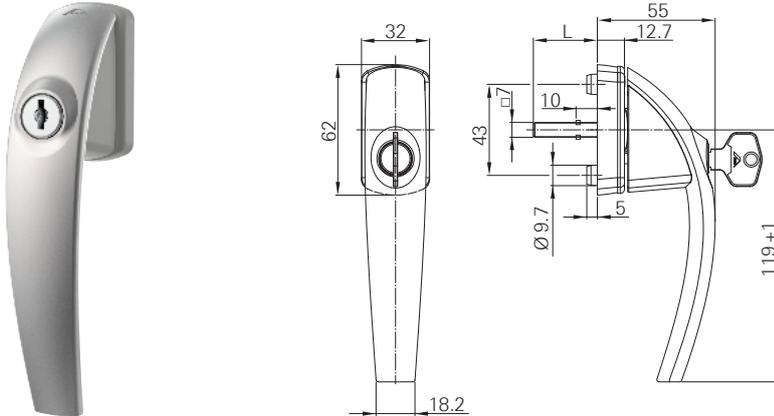
32	R01.1	Natural silver	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x40	15 Piece(s)	632284	
	R01.3	Titanium	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x40	15 Piece(s)	632286	
37	R01.1	Natural silver	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x45	15 Piece(s)	632291	
	R01.3	Titanium	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x45	15 Piece(s)	632292	
	R04.4	Black brown	[B] Brown, [C] Brown, [D] Brown	powd-c	Y	2	M5x45	15 Piece(s)	632294	
	R05.3	Medium bronze	[B] Pantone 462C, [C] Medium bronze, [D] Pantone 462C	anod.	Y	2	M5x45	15 Piece(s)	613860	
	R05.5	Bronze	[B] Pantone 462C, [C] Bronze, [D] Pantone 462C	anod.	Y	2	M5x45	15 Piece(s)	632295	
	R07.2	Traffic white	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x45	15 Piece(s)	632296	

**Roto NX**  
**Roto Swing**  
 Lockable 40 Nm

									
43	R01.1	Natural silver	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x50	15 Piece(s)	632297
	R01.3	Titanium	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x50	15 Piece(s)	632298
	R04.4	Black brown	[B] Brown, [C] Brown, [D] Brown	powd-c	Y	2	M5x50	15 Piece(s)	632300
	R05.3	Medium bronze	[B] Pantone 462C, [C] Medium bronze, [D] Pantone 462C	anod.	Y	2	M5x50	15 Piece(s)	632301
	R05.5	Bronze	[B] Pantone 462C, [C] Bronze, [D] Pantone 462C	anod.	Y	2	M5x50	15 Piece(s)	632302
R07.2	Traffic white	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x50	15 Piece(s)	632303	



## 2.1.5 Lockable 40 Nm – TiltFirst



### Product description

- For window systems with the TiltFirst application (tilting before turning)
- Closure: rotary cylinder with reversible key
- Can be locked in the 0° and 90° position
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

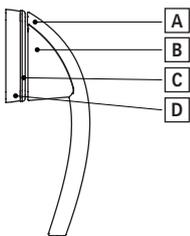
### Scope of delivery

- 1 handle
- 1 key
- 2 fixing screws



### INFO

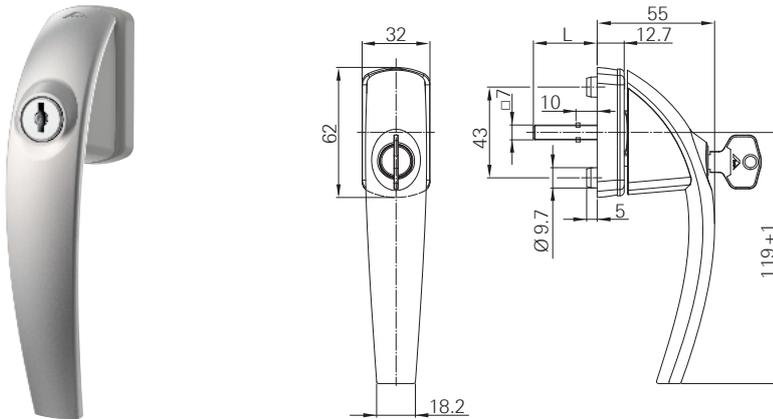
Further information on TiltFirst → *from page 23.*



- |                    |   |
|--------------------|---|
| [A] Handle lever   | ✓ |
| [B] Design element | ⓘ |
| [C] Cover          | ⓘ |
| [D] Escutcheon     | ⓘ |

37	R01.1	Natural silver	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x45	15 Piece(s)	641137	
	R01.3	Titanium	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x45	15 Piece(s)	641138	
	R05.5	Bronze	[B] Pantone 462C, [C] Bronze, [D] Pantone 462C	anod.	Y	2	M5x45	15 Piece(s)	641141	
	R07.2	Traffic white	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x45	15 Piece(s)	641142	
43	R01.1	Natural silver	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x50	15 Piece(s)	641143	
	R01.3	Titanium	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x50	15 Piece(s)	641144	
	R04.4	Black brown	[B] Brown, [C] Brown, [D] Brown	powd-c	Y	2	M5x50	15 Piece(s)	641146	
	R05.3	Medium bronze	[B] Pantone 462C, [C] Medium bronze, [D] Pantone 462C	anod.	Y	2	M5x50	15 Piece(s)	641147	
	R07.2	Traffic white	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x50	15 Piece(s)	641149	

## 2.1.6 Lockable 100 Nm



### Product description

- Lockable handle with tested torque 100 Nm
- Closure: push cylinder with reversible key
- Simple and quick locking by pressing the cylinder
- Meets the requirements of DIN EN 1627-1630, RC 1 – RC 6
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

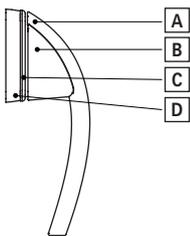
### Scope of delivery

- 1 handle
- 1 key
- 2 fixing screws



### INFO

Further information on lockable handles → *from page 21.*



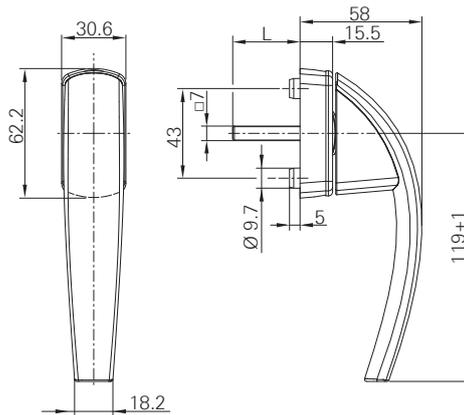
- |                    |  |
|--------------------|--|
| [A] Handle lever   |  |
| [B] Design element |  |
| [C] Cover          |  |
| [D] Escutcheon     |  |

32	R01.1	Natural silver	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x40	15 Piece(s)	632304
37			[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x45	15 Piece(s)	632311
	R01.3	Titanium	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x45	15 Piece(s)	632313
	R04.4	Black brown	[B] Brown, [C] Brown, [D] Brown	powd-c	Y	2	M5x45	15 Piece(s)	632315
	R05.3	Medium bronze	[B] Pantone 462C, [C] Medium bronze, [D] Pantone 462C	anod.	Y	2	M5x45	15 Piece(s)	632316
	R05.5	Bronze	[B] Pantone 462C, [C] Bronze, [D] Pantone 462C	anod.	Y	2	M5x45	15 Piece(s)	632317
	R07.2	Traffic white	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x45	15 Piece(s)	632318



									Nº
43	R01.1	Natural silver	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x50	15 Piece(s)	632319
	R01.3	Titanium	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x50	15 Piece(s)	632321
	R07.2	Traffic white	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x50	15 Piece(s)	632326

### 2.1.7 Secustik®



#### Product description

- Handle with automatic locking
- Protection against being tampered with from the outside
- Patented locking mechanism to provide built-in basic security
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

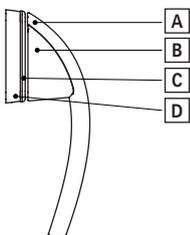
#### Scope of delivery

- 1 handle
- 2 fixing screws



#### INFO

Further information on Secustik® → *from page 22*



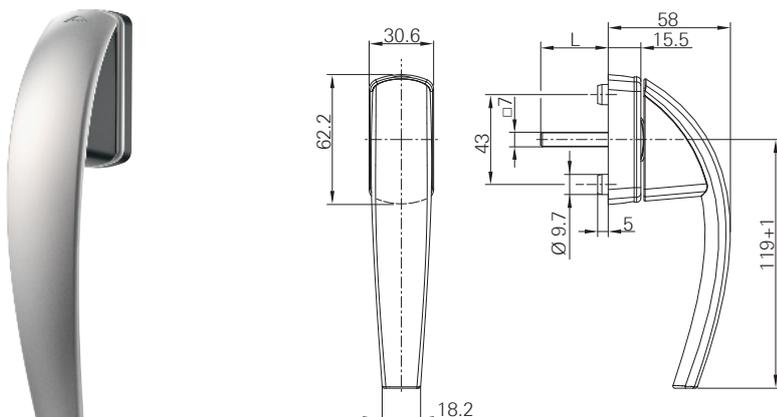
- [A] Handle lever
- [B] Design element
- [C] Cover
- [D] Escutcheon

									Nº
32	R01.1	Natural silver	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x40	15 Piece(s)	641082
	R01.3	Titanium	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x40	15 Piece(s)	641084
	R07.2	Traffic white	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x40	15 Piece(s)	641095

									
37	R01.1	Natural silver	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x50	15 Piece(s)	641096
	R01.3	Titanium	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x50	15 Piece(s)	641098
	R03.1	Brass matt	[B] Pantone 468C, [C] Gold   Pantone 468C	anod.	Y	2	M5x50	15 Piece(s)	641099
	R04.4	Black brown	[B] Brown, [C] Brown, [D] Brown	powd-c	Y	2	M5x50	15 Piece(s)	641100
	R05.3	Medium bronze	[B] Pantone 462C, [C] Medium bronze, [D] Pantone 462C	anod.	Y	2	M5x50	15 Piece(s)	641101
	R05.5	Bronze	[B] Pantone 462C, [C] Bronze, [D] Pantone 462C	anod.	Y	2	M5x50	15 Piece(s)	641102
	R07.2	Traffic white	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x50	15 Piece(s)	641103
43	R01.1	Natural silver	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x55	15 Piece(s)	641104
	R01.3	Titanium	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x55	15 Piece(s)	641106
	R03.1	Brass matt	[B] Pantone 468C, [C] Gold, [D] Pantone 468C	anod.	Y	2	M5x55	15 Piece(s)	641107
	R04.4	Black brown	[B] Brown, [C] Brown, [D] Brown	powd-c	Y	2	M5x55	15 Piece(s)	641108
	R05.3	Medium bronze	[B] Pantone 462C, [C] Medium bronze, [D] Pantone 462C	anod.	Y	2	M5x55	15 Piece(s)	641109
	R05.5	Bronze	[B] Pantone 462C, [C] Bronze, [D] Pantone 462C	anod.	Y	2	M5x55	15 Piece(s)	641110
	R07.2	Traffic white	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x55	15 Piece(s)	641111



## 2.1.8 Secustik® – night ventilation



### Product description

- Handle with automatic locking
- Protection against being tampered with from the outside
- Patented locking mechanism to provide built-in basic security
- 90° lock-in position, 45° lock-in position for night ventilation
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

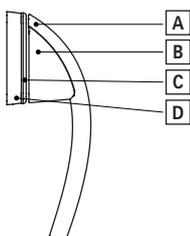
### Scope of delivery

- 1 handle
- 2 fixing screws



### INFO

Further information on Secustik® → *from page 22*



- [A] Handle lever ✓
- [B] Design element ⓘ
- [C] Cover ⓘ
- [D] Escutcheon ⓘ

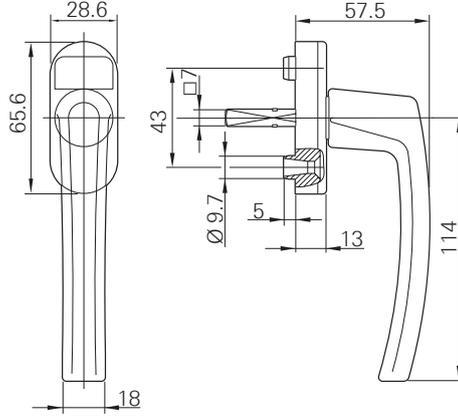
32	Traffic white	R07.2	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x40	15 Piece(s)	613855
37	Natural silver	R01.1	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x50	15 Piece(s)	613580
	Nickel silver	R01.2	[B] Beige, [C] Beige, [D] Beige	anod.	Y	2	M5x50	15 Piece(s)	613823
	Titanium	R01.3	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x50	15 Piece(s)	613581
	Brass matt	R03.1	[B] Pantone 468C, [C] Gold, [D] Pantone 468C	anod.	Y	2	M5x50	15 Piece(s)	613824
	Black brown	R04.4	[B] Brown, [C] Brown, [D] Brown	powd-c	Y	2	M5x50	15 Piece(s)	613835
	Medium bronze	R05.3	[B] Pantone 462C, [C] Medium bronze, [D] Pantone 462C	anod.	Y	2	M5x50	15 Piece(s)	613861
	Bronze	R05.5	[B] Pantone 462C, [C] Bronze, [D] Pantone 462C	anod.	Y	2	M5x50	15 Piece(s)	613836
Traffic white	R07.2	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x50	15 Piece(s)	613582	

									
43	Natural silver	R01.1	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x55	15 Piece(s)	632004
	Nickel silver	R01.2	[B] Beige, [C] Beige, [D] Beige	anod.	Y	2	M5x55	15 Piece(s)	632035
	Titanium	R01.3	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x55	15 Piece(s)	632037
	Black brown	R04.4	[B] Brown, [C] Brown, [D] Brown	powd-c	Y	2	M5x55	15 Piece(s)	632040
	Medium bronze	R05.3	[B] Pantone 462C, [C] Medium bronze, [D] Pantone 462C	anod.	Y	2	M5x55	15 Piece(s)	632042
	Bronze	R05.5	[B] Pantone 462C, [C] Bronze, [D] Pantone 462C	anod.	Y	2	M5x55	15 Piece(s)	632043
	Traffic white	R07.2	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x55	15 Piece(s)	632044



## 2.2 Roto Line

### 2.2.1 Standard



#### Product description

- Basic handle without additional functions
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

#### Scope of delivery

- 1 handle
- For fixing screws, see table



#### INFO

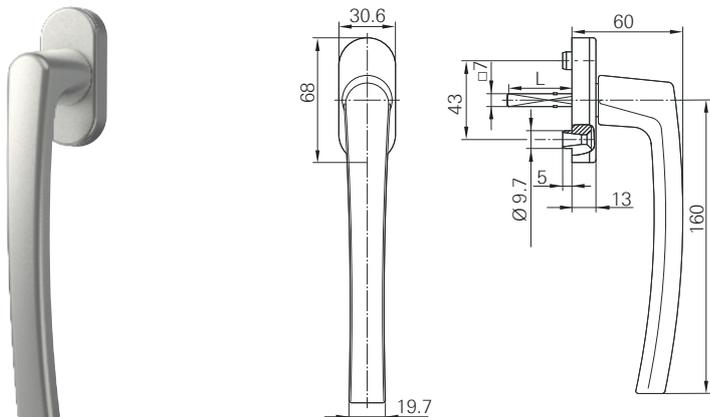
A flush-encased gearbox is required for use in aluminium profiles .

24	R01.1	Natural silver	anod.	Y	2	M5x35	20 Piece(s)	799867	
			anod.	N	2	M5x35	20 Piece(s)	858981	
	R01.3	Titanium	anod.	Y	-	-	20 Piece(s)	341748	
	R06.2M	Jet black, matt	powd-c	Y	2	M5x35	20 Piece(s)	2033353	
	R07.2	Traffic white	powd-c	Y	2	M5x35	20 Piece(s)	2043566	
			powd-c	N	2	M5x35	20 Piece(s)	858980	
30	R01.1	Natural silver	anod.	Y	-	-	20 Piece(s)	227897	
			anod.	N	-	-	20 Piece(s)	228079	
	R01.2	Nickel silver	anod.	Y	-	-	20 Piece(s)	227899	
	R01.3	Titanium	anod.	Y	-	-	20 Piece(s)	227781	
			anod.	N	2	M5x40	20 Piece(s)	339532	
	R04.1	Grey brown	powd-c	N	2	M5x40	20 Piece(s)	482542	
	R05.3	Medium bronze	anod.	Y	-	-	20 Piece(s)	227903	
	R05.5	Bronze	anod.	Y	-	-	20 Piece(s)	227905	
			anod.	N	-	-	20 Piece(s)	228088	
	R07.2	Traffic white	powd-c	Y	-	-	20 Piece(s)	2033350	
powd-c			N	2	M5x40	20 Piece(s)	228176		
32	R01.1	Natural silver	anod.	N	2	M5x40	20 Piece(s)	618706	
	R01.3	Titanium	anod.	N	2	M5x40	20 Piece(s)	618708	
	R03.2	Brass, polished	anod.	N	-	-	20 Piece(s)	245628	
	R05.3	Medium bronze	anod.	N	2	M5x40	20 Piece(s)	618707	
	R07.2	Traffic white	powd-c	N	2	M5x40	20 Piece(s)	618709	



								N <sup>o</sup>
35	R01.1	Natural silver	anod.	Y	-	-	20 Piece(s)	2033336
			anod.	N	2	M5x45	20 Piece(s)	2033337
	R01.2	Nickel silver	anod.	Y	-	-	20 Piece(s)	227909
			anod.	N	2	M5x45	20 Piece(s)	263704
	R01.3	Titanium	anod.	Y	-	-	20 Piece(s)	227796
			anod.	N	2	M5x45	20 Piece(s)	255369
	R03.1	Brass matt	anod.	Y	-	-	20 Piece(s)	227911
			anod.	N	2	M5x45	20 Piece(s)	482544
	R03.2	Brass, polished	anod.	Y	-	-	20 Piece(s)	227801
	R04.1	Grey brown	powd-c	Y	-	-	20 Piece(s)	2043563
			powd-c	N	2	M5x45	20 Piece(s)	256230
	R05.3	Medium bronze	anod.	Y	-	-	20 Piece(s)	227913
			anod.	N	2	M5x45	20 Piece(s)	348329
	R05.5	Bronze	anod.	Y	-	-	20 Piece(s)	227915
			anod.	N	-	-	20 Piece(s)	228098
	R06.2	Jet black	powd-c	Y	-	-	20 Piece(s)	2043562
R07.1	Pure white	powd-c	Y	-	-	20 Piece(s)	2043564	
R07.2	Traffic white	powd-c	Y	2	M5x45	20 Piece(s)	2033352	
		powd-c	N	2	M5x45	20 Piece(s)	2033351	
R07.3	Cream	powd-c	Y	-	-	20 Piece(s)	227810	
		powd-c	N	-	-	20 Piece(s)	341745	
37	R01.1	Natural silver	anod.	N	2	M5x45	20 Piece(s)	2008980
	R01.3	Titanium	anod.	N	2	M5x45	20 Piece(s)	384344
	R04.1	Grey brown	powd-c	N	2	M5x45	20 Piece(s)	858973
	R05.3	Medium bronze	anod.	N	2	M5x45	20 Piece(s)	618710
	R07.2	Traffic white	powd-c	N	2	M5x45	20 Piece(s)	2033371
40	R01.1	Natural silver	anod.	N	2	M5x50	20 Piece(s)	2033349
			anod.	Y	-	-	20 Piece(s)	262935
	R01.3	Titanium	anod.	N	2	M5x50	20 Piece(s)	330870
			anod.	Y	-	-	20 Piece(s)	330867
	R04.1	Grey brown	powd-c	N	2	M5x50	20 Piece(s)	330867
	R05.3	Medium bronze	anod.	N	-	-	20 Piece(s)	364502
	R06.2M	Jet black, matt	powd-c	N	-	-	20 Piece(s)	2043572
R07.2	Traffic white	powd-c	N	2	M5x50	20 Piece(s)	2043569	
R07.3	Cream	powd-c	N	-	-	20 Piece(s)	349652	
43	R01.1	Natural silver	anod.	Y	2	M5x50	20 Piece(s)	799870
			anod.	N	2	M5x50	20 Piece(s)	594323
			anod.	N	2	M5x55	20 Piece(s)	618711
	R01.2	Nickel silver	anod.	Y	-	-	20 Piece(s)	571693
			anod.	N	2	M5x50	20 Piece(s)	594324
	R01.3	Titanium	anod.	Y	-	-	20 Piece(s)	571694
			anod.	N	2	M5x50	20 Piece(s)	594325
			anod.	N	2	M5x55	20 Piece(s)	618713
	R03.1	Brass matt	anod.	Y	-	-	20 Piece(s)	572415
			anod.	N	2	M5x50	20 Piece(s)	594326
	R03.2	Brass, polished	anod.	Y	-	-	20 Piece(s)	572420
	R04.1	Grey brown	powd-c	Y	-	-	20 Piece(s)	572416
			powd-c	N	2	M5x50	20 Piece(s)	594327
	R05.3	Medium bronze	anod.	Y	-	-	20 Piece(s)	572417
			anod.	N	2	M5x50	20 Piece(s)	594328
			anod.	N	2	M5x55	20 Piece(s)	618712
	R05.5	Bronze	anod.	Y	-	-	20 Piece(s)	572418
			anod.	N	2	M5x50	20 Piece(s)	594329
R07.2	Traffic white	powd-c	Y	-	-	20 Piece(s)	2043567	
		powd-c	N	2	M5x50	20 Piece(s)	594330	
		powd-c	N	2	M5x55	20 Piece(s)	2043568	
45	R01.1	Natural silver	anod.	N	-	-	20 Piece(s)	347442
	R07.2	Traffic white	powd-c	N	2	M5x55	20 Piece(s)	256232

## 2.2.2 Standard – 160 mm (comfort window)



### Product description

- Basic handle without additional functions
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

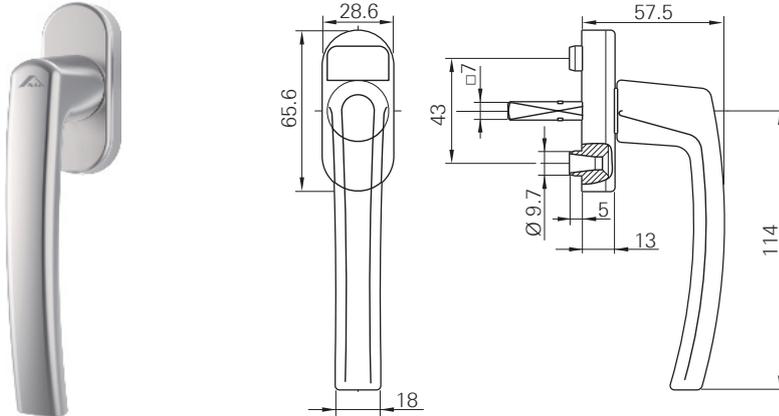
### Scope of delivery

- 1 handle

35	R01.1	Natural silver	anod.	Y	-	-	1 Piece(s)	211598
	R01.2	Nickel silver	anod.	Y	-	-	1 Piece(s)	211599
	R01.3	Titanium	anod.	Y	-	-	1 Piece(s)	288728
	R01.5	Silver	anod.	Y	-	-	1 Piece(s)	623491
	R05.3	Medium bronze	anod.	Y	-	-	1 Piece(s)	211597
	R05.4	Dark bronze	anod.	Y	-	-	1 Piece(s)	288727
	R06.2M	Jet black, matt	powd-c	Y	-	-	1 Piece(s)	794352
	R07.2	Traffic white	powd-c	Y	-	-	1 Piece(s)	211596
43	R01.1	Natural silver	anod.	Y	-	-	1 Piece(s)	601161
	R01.2	Nickel silver	anod.	Y	-	-	1 Piece(s)	601162
	R01.3	Titanium	anod.	Y	-	-	1 Piece(s)	601163
	R05.3	Medium bronze	anod.	Y	-	-	1 Piece(s)	601164
	R05.4	Dark bronze	anod.	Y	-	-	1 Piece(s)	601165
	R07.2	Traffic white	powd-c	Y	-	-	1 Piece(s)	601166



## 2.2.3 Night ventilation



### Product description

- Basic handle without additional functions
- 90° lock-in position
- 45° lock-in position for night ventilation
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

### Scope of delivery

- 1 handle
- For fixing screws, see table



### INFO

A flush-encased gearbox is required for use in aluminium profiles .

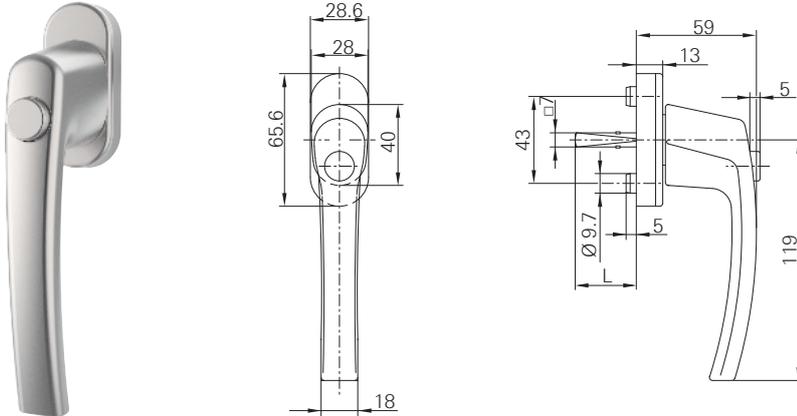
									Nº
30	R01.1	Natural silver	anod.	Y	-	-	20 Piece(s)	339455	
	R01.2	Nickel silver	anod.	Y	-	-	20 Piece(s)	339456	
	R01.3	Titanium	anod.	Y	-	-	20 Piece(s)	339457	
	R03.1	Brass matt	anod.	Y	-	-	20 Piece(s)	339458	
	R04.1	Grey brown	powd-c	Y	-	-	20 Piece(s)	339459	
	R05.3	Medium bronze	anod.	Y	-	-	20 Piece(s)	339460	
	R05.5	Bronze	anod.	Y	-	-	20 Piece(s)	339461	
35	R07.2	Traffic white	powd-c	Y	-	-	20 Piece(s)	227895	
	R01.1	Natural silver	anod.	Y	-	-	20 Piece(s)	2033338	
	R01.2	Nickel silver	anod.	Y	-	-	20 Piece(s)	339463	
	R01.3	Titanium	anod.	Y	-	-	20 Piece(s)	339474	
	R03.1	Brass matt	anod.	Y	-	-	20 Piece(s)	339475	
	R04.1	Grey brown	powd-c	Y	-	-	20 Piece(s)	339476	
	R05.3	Medium bronze	anod.	Y	-	-	20 Piece(s)	339477	
	R05.5	Bronze	anod.	Y	-	-	20 Piece(s)	339478	
R07.2	Traffic white	powd-c	Y	-	-	20 Piece(s)	2033370		

**Roto NX**  
**Roto Line**  
 Night ventilation

								Nº
37	R01.1	Natural silver	anod.	N	-	-	20 Piece(s)	373935
			anod.	Y	2	M5x45	20 Piece(s)	2004063
	R01.3	Titanium	anod.	N	2	M5x45	20 Piece(s)	524319
			anod.	Y	2	M5x45	20 Piece(s)	2004065
	R03.1	Brass matt	anod.	Y	2	M5x45	20 Piece(s)	2004851
	R05.5	Bronze	anod.	N	2	M5x45	20 Piece(s)	488271
			anod.	Y	2	M5x45	20 Piece(s)	2004064
	R06.2M	Jet black, matt	powd-c	Y	2	M5x45	20 Piece(s)	2004852
	R07.2	Traffic white	powd-c	N	2	M5x45	20 Piece(s)	2043565
			powd-c	Y	2	M5x45	20 Piece(s)	2033369
R07.3	Cream	powd-c	N	2	M5x45	20 Piece(s)	524367	
		powd-c	Y	2	M5x45	20 Piece(s)	2004061	
40	R01.1	Natural silver	anod.	Y	-	-	20 Piece(s)	473235
	R01.2	Nickel silver	anod.	Y	-	-	20 Piece(s)	473236
	R01.3	Titanium	anod.	Y	-	-	20 Piece(s)	473237
	R03.1	Brass matt	anod.	Y	-	-	20 Piece(s)	473238
	R03.2	Brass, polished	anod.	Y	-	-	20 Piece(s)	473239
	R04.1	Grey brown	powd-c	Y	-	-	20 Piece(s)	473240
	R05.3	Medium bronze	anod.	Y	-	-	20 Piece(s)	473241
	R05.5	Bronze	anod.	Y	-	-	20 Piece(s)	473242
	R07.2	Traffic white	powd-c	Y	-	-	20 Piece(s)	473243
R07.3	Cream	powd-c	N	-	-	20 Piece(s)	373950	
43	R01.1	Natural silver	anod.	Y	2	M5x50	20 Piece(s)	787945
	R01.3	Titanium	anod.	Y	2	M5x50	20 Piece(s)	2004853
	R05.5	Bronze	anod.	Y	2	M5x50	20 Piece(s)	787952
	R06.2M	Jet black, matt	powd-c	Y	2	M5x50	20 Piece(s)	2004854
	R07.2	Traffic white	powd-c	Y	2	M5x50	20 Piece(s)	2043570
	R07.3	Cream	powd-c	Y	2	M5x50	20 Piece(s)	2004067



## 2.2.4 Push-to-open



### Product description

- Handle with push-to-open mechanism
- The push function makes locking and unlocking possible
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

### Scope of delivery

- 1 handle
- For fixing screws, see table



### INFO

A flush-encased gearbox is required for use in aluminium profiles .

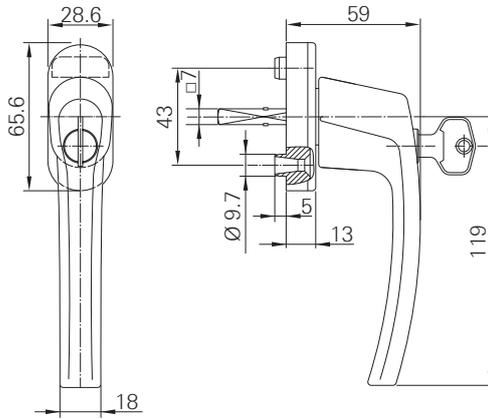
24	R01.1	Natural silver	anod.	N	2	M5x35	20 Piece(s)	858988	
	R07.2	Traffic white	powd-c	N	2	M5x35	20 Piece(s)	858987	
30	R01.1	Natural silver	anod.	N	–	–	15 Piece(s)	228135	
	R07.2	Traffic white	powd-c	N	–	–	15 Piece(s)	228049	
32	R01.1	Natural silver	anod.	N	2	M5x40	15 Piece(s)	618740	
	R01.3	Titanium	anod.	N	2	M5x40	15 Piece(s)	618742	
	R05.3	Medium bronze	anod.	N	2	M5x40	15 Piece(s)	618741	
	R07.2	Traffic white	powd-c	N	2	M5x40	15 Piece(s)	618807	
35	R01.1	Natural silver	anod.	N	–	–	15 Piece(s)	228140	
	R01.3	Titanium	anod.	N	–	–	15 Piece(s)	228050	
	R03.1	Brass matt	anod.	N	–	–	15 Piece(s)	228142	
	R04.1	Grey brown	powd-c	N	–	–	15 Piece(s)	228052	
	R05.3	Medium bronze	anod.	N	–	–	15 Piece(s)	228143	
	R05.5	Bronze	anod.	N	–	–	15 Piece(s)	228144	
	R07.2	Traffic white	powd-c	N	–	–	15 Piece(s)	228054	

**Roto NX**  
**Roto Line**  
 Push-to-open

								N <sup>o</sup>
37	R01.1	Natural silver	anod.	N	2	M5x45	15 Piece(s)	384435
			anod.	Y	2	M5x45	15 Piece(s)	2004427
	R01.3	Titanium	anod.	N	2	M5x45	15 Piece(s)	385079
			anod.	Y	2	M5x45	15 Piece(s)	2004430
	R03.1	Brass matt	anod.	Y	2	M5x45	15 Piece(s)	2004428
	R04.1	Grey brown	powd-c	N	2	M5x45	20 Piece(s)	858977
	R05.3	Medium bronze	anod.	N	2	M5x45	15 Piece(s)	618743
	R05.5	Bronze	anod.	Y	2	M5x45	15 Piece(s)	2004429
	R06.2M	Jet black, matt	powd-c	Y	2	M5x45	15 Piece(s)	2004426
	R07.2	Traffic white	powd-c	N	2	M5x45	15 Piece(s)	384437
			powd-c	Y	2	M5x45	15 Piece(s)	2004425
	R07.3	Cream	powd-c	N	2	M5x45	20 Piece(s)	858976
powd-c			Y	2	M5x45	15 Piece(s)	2004424	
43	R01.1	Natural silver	anod.	N	2	M5x50	15 Piece(s)	598416
			powd-c	Y	2	M5x50	15 Piece(s)	2004435
			anod.	N	2	M5x55	15 Piece(s)	618744
	R01.3	Titanium	anod.	N	2	M5x55	15 Piece(s)	618766
			anod.	Y	2	M5x50	15 Piece(s)	2004438
	R03.1	Brass matt	anod.	Y	2	M5x50	15 Piece(s)	2004436
	R05.5	Bronze	anod.	N	2	M5x50	15 Piece(s)	598421
			anod.	Y	2	M5x50	15 Piece(s)	2004437
	R06.2M	Jet black, matt	powd-c	Y	2	M5x50	15 Piece(s)	2004434
	R07.2	Traffic white	powd-c	N	2	M5x50	15 Piece(s)	598422
			powd-c	Y	2	M5x50	15 Piece(s)	2004433
			powd-c	N	2	M5x55	15 Piece(s)	618767
R07.3	Cream	powd-c	Y	2	M5x50	15 Piece(s)	2004432	



## 2.2.5 Lockable 40 Nm



### Product description

- Lockable handle with tested torque 40 Nm (basic security)
- Closure: rotary cylinder with reversible key
- Can be operated when the handle is unlocked
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

### Scope of delivery

- 1 handle
- 1 key
- For fixing screws, see table



### INFO

A flush-encased gearbox is required for use in aluminium profiles .

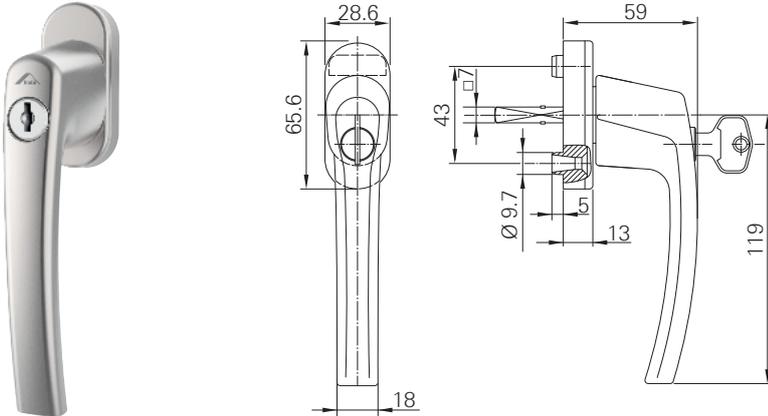
24	R01.1	Natural silver	anod.	Y	-	-	-	-	15 Piece(s)	610560
	R01.5	Silver	anod.	N	-	2	M5x30	15 Piece(s)	640325	
	R06.2	Jet black	powd-c	Y	-	2	M5x40	15 Piece(s)	840755	
	R07.2	Traffic white	powd-c	Y	-	-	-	15 Piece(s)	765011	
30	R01.1	Natural silver	anod.	Y	-	-	-	15 Piece(s)	227962	
			anod.	N	-	-	-	15 Piece(s)	228125	
	R01.3	Titanium	anod.	Y	-	-	-	15 Piece(s)	227863	
			anod.	N	-	-	-	15 Piece(s)	228035	
	R05.3	Medium bronze	anod.	Y	-	-	-	15 Piece(s)	227965	
	R05.5	Bronze	anod.	Y	-	-	-	15 Piece(s)	227966	
	R06.2M	Jet black, matt	powd-c	N	-	-	M5x50	15 Piece(s)	794358	
R07.2	Traffic white	powd-c	Y	-	-	-	15 Piece(s)	227868		
		powd-c	N	-	-	-	15 Piece(s)	228039		
32	R01.1	Natural silver	anod.	N	-	2	M5x40	15 Piece(s)	618768	
	R01.3	Titanium	anod.	N	-	2	M5x40	15 Piece(s)	618770	
	R05.3	Medium bronze	anod.	N	-	2	M5x40	15 Piece(s)	618769	
	R07.2	Traffic white	powd-c	N	-	2	M5x40	15 Piece(s)	618771	

**Roto NX**  
**Roto Line**  
 Lockable 40 Nm

									
35	R01.1	Natural silver	anod.	Y	-	-	-	15 Piece(s)	227967
			anod.	N	-	2	M5x45	15 Piece(s)	280399
	R01.2	Nickel silver	anod.	N	-	-	-	15 Piece(s)	228131
	R01.3	Titanium	anod.	Y	-	-	-	15 Piece(s)	227871
			anod.	N	-	-	-	15 Piece(s)	228040
	R05.3	Medium bronze	anod.	Y	-	-	-	15 Piece(s)	227970
	R05.5	Bronze	anod.	N	-	-	-	15 Piece(s)	228134
			anod.	Y	-	-	-	15 Piece(s)	227971
	R07.1	Pure white	powd-c	N	-	-	-	15 Piece(s)	228043
	R07.2	Traffic white	powd-c	Y	-	-	-	15 Piece(s)	227876
powd-c			N	-	2	M5x45	15 Piece(s)	246638	
R07.3	Cream	powd-c	N	-	-	-	15 Piece(s)	377606	
37	R01.1	Natural silver	anod.	N	-	2	M5x45	15 Piece(s)	384395
			anod.	Y	-	2	M5x45	15 Piece(s)	2004443
	R01.3	Titanium	anod.	N	-	2	M5x45	15 Piece(s)	384438
			anod.	Y	-	2	M5x45	15 Piece(s)	2004446
	R03.1	Brass matt	anod.	Y	-	2	M5x45	15 Piece(s)	2004444
	R05.3	Medium bronze	anod.	N	-	2	M5x45	15 Piece(s)	618772
	R05.5	Bronze	anod.	Y	-	2	M5x45	15 Piece(s)	2004445
	R06.2M	Jet black, matt	powd-c	Y	-	2	M5x45	15 Piece(s)	2004442
R07.2	Traffic white	powd-c	N	-	2	M5x45	15 Piece(s)	384397	
		powd-c	Y	-	2	M5x45	15 Piece(s)	2004441	
R07.3	Cream	powd-c	Y	-	2	M5x45	15 Piece(s)	2004440	
40	R01.1	Natural silver	anod.	N	-	2	M5x50	15 Piece(s)	352026
	R01.3	Titanium	anod.	N	-	2	M5x55	15 Piece(s)	566529
	R04.1	Grey brown	powd-c	N	-	-	-	15 Piece(s)	377609
	R07.2	Traffic white	powd-c	N	-	2	M5x50	15 Piece(s)	331006
			powd-c	N	-	2	M5x55	15 Piece(s)	566528
R07.3	Cream	powd-c	N	-	-	-	15 Piece(s)	377610	
43	R01.1	Natural silver	anod.	N	-	2	M5x50	15 Piece(s)	594339
			anod.	Y	-	2	M5x50	15 Piece(s)	2004451
			anod.	N	-	2	M5x55	15 Piece(s)	618774
	R01.3	Titanium	anod.	N	-	2	M5x50	15 Piece(s)	594341
			anod. powd-c	Y	-	2	M5x50	15 Piece(s)	2004454
			anod.	N	-	2	M5x55	15 Piece(s)	618786
	R03.1	Brass matt	anod.	Y	-	2	M5x50	15 Piece(s)	2004452
	R04.4	Black brown	anod.	Y	-	2	M5x50	15 Piece(s)	2004447
	R05.5	Bronze	anod.	N	-	2	M5x50	15 Piece(s)	594345
			anod.	Y	-	2	M5x50	15 Piece(s)	2004453
	R06.2M	Jet black, matt	powd-c	Y	-	2	M5x50	15 Piece(s)	2004450
	R07.2	Traffic white	powd-c	N	-	2	M5x50	15 Piece(s)	594346
			powd-c	Y	-	2	M5x50	15 Piece(s)	2004449
powd-c			N	-	2	M5x55	15 Piece(s)	618787	
R07.3	Cream	powd-c	Y	-	2	M5x50	15 Piece(s)	2004448	



## 2.2.6 Lockable 40 Nm – TiltFirst



### Product description

- For window systems with the TiltFirst application (tilting before turning)
- Closure: rotary cylinder with reversible key
- Can be locked in the 0° and 90° position
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

### Scope of delivery

- 1 handle
- 1 key
- For fixing screws, see table



### INFO

Further information on TiltFirst → *from page 23.*



### INFO

A flush-encased gearbox is required for use in aluminium profiles .

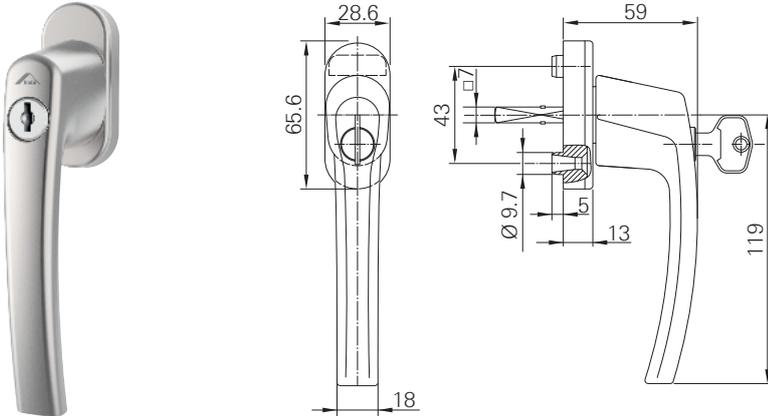
24	R01.1	Natural silver	anod.	Y	2	M5x40	15 Piece(s)	799843	
			anod.	N	2	M5x35	20 Piece(s)	858991	
	R01.3	Titanium	anod.	Y	2	M5x40	15 Piece(s)	799844	
	R06.2M	Jet black, matt	powd-c	Y	2	M5x40	15 Piece(s)	2034596	
	R07.2	Traffic white	powd-c	Y	2	M5x40	15 Piece(s)	799845	
powd-c			N	2	M5x35	20 Piece(s)	858990		
32	R01.1	Natural silver	anod.	N	2	M5x40	15 Piece(s)	618808	
			anod.	Y	2	M5x45	15 Piece(s)	799847	
	R01.2	Nickel silver	anod.	Y	–	–	15 Piece(s)	335310	
	R01.3	Titanium	anod.	Y	2	M5x45	15 Piece(s)	799848	
	R03.1	Brass matt	anod.	Y	–	–	15 Piece(s)	335311	
	R05.4	Dark bronze	anod.	Y	–	–	15 Piece(s)	335312	
	R07.2	Traffic white	powd-c	N	2	M5x40	15 Piece(s)	618811	
powd-c			Y	2	M5x45	15 Piece(s)	799849		

**Roto NX**  
**Roto Line**  
 Lockable 40 Nm – TiltFirst

								Nº
37	R01.1	Natural silver	anod.	N	2	M5x45	15 Piece(s)	618812
			anod.	Y	2	M5x50	15 Piece(s)	799851
	R01.3	Titanium	anod.	N	2	M5x45	15 Piece(s)	618814
	R04.1	Grey brown	powd-c	Y	–	–	15 Piece(s)	347801
			powd-c	N	2	M5x45	20 Piece(s)	858978
	R05.3	Medium bronze	anod.	N	2	M5x45	15 Piece(s)	618813
	R05.5	Bronze	anod.	Y	–	–	15 Piece(s)	494034
	R07.2	Traffic white	powd-c	N	2	M5x45	15 Piece(s)	618815
R07.3	Cream	powd-c	N	2	M5x45	20 Piece(s)	858979	
40	R01.1	Natural silver	anod.	Y	–	–	15 Piece(s)	377611
	R01.3	Titanium	anod.	Y	–	–	15 Piece(s)	377612
	R07.2	Traffic white	powd-c	Y	–	–	15 Piece(s)	377615
43	R01.1	Natural silver	anod.	N	2	M5x50	15 Piece(s)	594355
	R01.3	Titanium	anod.	N	2	M5x50	15 Piece(s)	594357
	R07.2	Traffic white	powd-c	N	2	M5x50	15 Piece(s)	594362
			powd-c	N	2	M5x55	15 Piece(s)	618819



## 2.2.7 Lockable 100 Nm



### Product description

- Lockable handle with tested torque 100 Nm
- Closure: push cylinder with reversible key
- Simple and quick locking by pressing the cylinder
- Meets the requirements of DIN EN 1627-1630, RC 1 – RC 6
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

### Scope of delivery

- 1 handle
- 1 key
- For fixing screws, see table



### INFO

Further information on lockable handles → *from page 21.*



### INFO

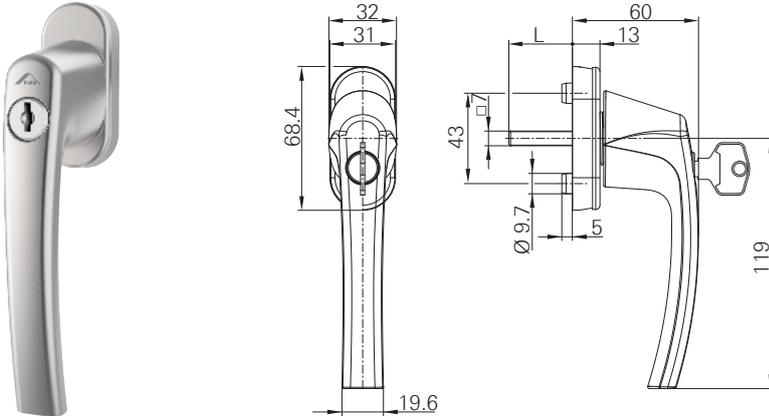
A flush-encased gearbox is required for use in aluminium profiles .

24	R01.1	Natural silver	anod.	N	–	2	M5x35	20 Piece(s)	858985
	R01.3	Titanium	anod.	N	–	2	M5x35	20 Piece(s)	858986
	R07.2	Traffic white	powd-c	N	–	2	M5x35	20 Piece(s)	858984
30	R01.1	Natural silver	anod.	N	–	–	–	15 Piece(s)	333964
	R07.2	Traffic white	powd-c	N	–	–	–	15 Piece(s)	333972
32	R01.1	Natural silver	anod.	Y	–	2	M5x40	15 Piece(s)	635057
			anod.	N	–	2	M5x40	15 Piece(s)	618788
	R01.3	Titanium	anod.	Y	–	2	M5x40	15 Piece(s)	635059
			anod.	N	–	2	M5x40	15 Piece(s)	618790
	R03.1	Brass matt	anod.	Y	–	2	M5x40	15 Piece(s)	635060
	R07.2	Traffic white	powd-c	Y	–	2	M5x40	15 Piece(s)	635064
powd-c			N	–	2	M5x40	15 Piece(s)	618791	

									<b>Nº</b>
35	R01.1	Natural silver	anod.	Y	-	-	-	15 Piece(s)	333973
			anod.	N	-	2	M5x45	15 Piece(s)	347561
	R01.2	Nickel silver	anod.	N	-	-	-	15 Piece(s)	333984
	R01.3	Titanium	anod.	N	-	-	-	15 Piece(s)	333985
	R04.1	Grey brown	powd-c	N	-	-	-	15 Piece(s)	333987
	R05.3	Medium bronze	anod.	N	-	-	-	15 Piece(s)	333988
	R07.1	Pure white	powd-c	N	-	-	-	15 Piece(s)	333990
37	R01.1	Natural silver	anod.	Y	-	2	M5x45	15 Piece(s)	635065
			anod.	N	-	2	M5x45	15 Piece(s)	384422
	R01.2	Nickel silver	anod.	Y	-	2	M5x45	15 Piece(s)	635066
			anod.	N	-	2	M5x45	15 Piece(s)	635067
	R03.1	Brass matt	anod.	Y	-	2	M5x45	15 Piece(s)	635068
			anod.	N	-	2	M5x45	15 Piece(s)	385078
	R04.1	Grey brown	powd-c	N	-	2	M5x45	20 Piece(s)	858974
	R05.3	Medium bronze	anod.	Y	-	2	M5x45	15 Piece(s)	635069
			anod.	N	-	2	M5x45	15 Piece(s)	618792
	R07.2	Traffic white	powd-c	N	-	2	M5x45	15 Piece(s)	635071
powd-c			N	-	2	M5x45	15 Piece(s)	384424	
R07.3	Cream	powd-c	N	-	2	M5x45	20 Piece(s)	858975	
40	R01.1	Natural silver	anod.	N	-	2	M5x50	15 Piece(s)	623134
	R01.3	Titanium	anod.	N	-	2	M5x50	15 Piece(s)	331004
	R07.2	Traffic white	powd-c	N	-	2	M5x50	15 Piece(s)	623175
43	R01.1	Natural silver	anod.	Y	-	-	-	15 Piece(s)	572421
			anod.	Y	-	2	M5x50	15 Piece(s)	635072
			anod.	N	-	2	M5x55	15 Piece(s)	618793
	R01.2	Nickel silver	anod.	Y	-	-	-	15 Piece(s)	572422
	R01.3	Titanium	anod.	Y	-	-	-	15 Piece(s)	572423
			anod.	Y	-	2	M5x50	15 Piece(s)	635074
			anod.	N	-	2	M5x55	15 Piece(s)	618805
	R04.1	Grey brown	powd-c	Y	-	2	M5x50	15 Piece(s)	635076
	R05.3	Medium bronze	anod.	Y	-	-	-	15 Piece(s)	572427
			anod.	Y	-	2	M5x50	15 Piece(s)	635077
			anod.	N	-	2	M5x55	15 Piece(s)	618794
	R07.2	Traffic white	powd-c	Y	-	-	-	15 Piece(s)	572429
			powd-c	Y	-	2	M5x50	15 Piece(s)	635079
powd-c			N	-	2	M5x50	15 Piece(s)	594354	
powd-c			N	-	2	M5x55	15 Piece(s)	618806	



## 2.2.8 Lockable 200 Nm



### Product description

- Lockable handle with tested torque 200 Nm
- Closure: push cylinder with reversible key
- Simple and quick locking by pressing the cylinder
- Meets the requirements of DIN EN 1627-1630, RC 1 – RC 6
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

### Scope of delivery

- 1 handle
- 1 key



### INFO

Further information on lockable handles → *from page 21.*

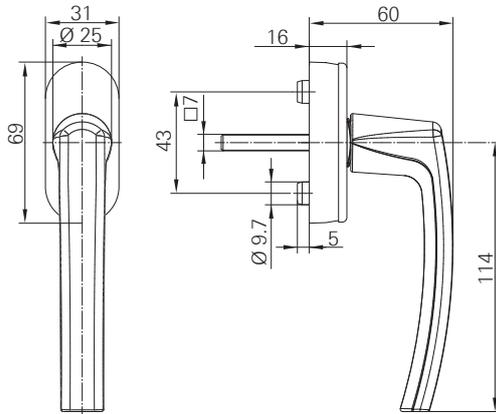


### INFO

A flush-encased gearbox is required for use in aluminium profiles .

35	R01.1	Natural silver	anod.	Y	-	-	15 Piece(s)	227947
	R01.3	Titanium	anod.	Y	-	-	15 Piece(s)	227840
	R05.3	Medium bronze	anod.	Y	-	-	15 Piece(s)	227950
	R05.5	Bronze	anod.	Y	-	-	15 Piece(s)	227951
	R07.2	Traffic white	powd-c	Y	-	-	15 Piece(s)	227844

## 2.2.9 Secustik®



### Product description

- Handle with automatic locking
- Protection against being tampered with from the outside
- Patented locking mechanism to provide built-in basic security
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

### Scope of delivery

- 1 handle
- For fixing screws, see table



### INFO

Further information on Secustik® → *from page 22*



### INFO

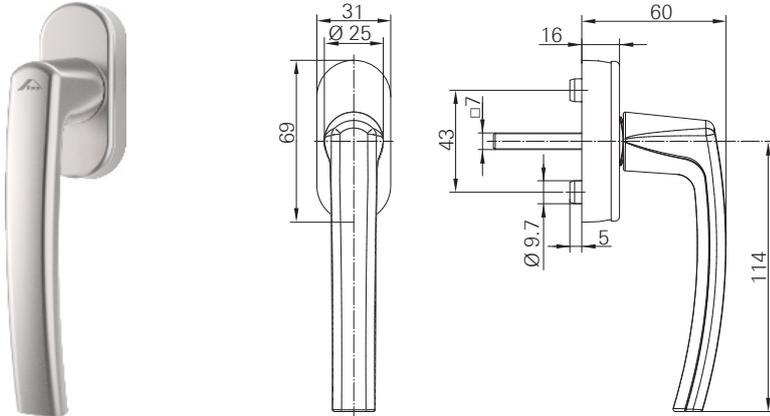
A flush-encased gearbox is required for use in aluminium profiles .

24	R01.1	Natural silver	anod.	Y	2	M5x35	20 Piece(s)	799579	
	R01.3	Titanium	anod.	Y	2	M5x35	20 Piece(s)	738921	
	R06.2M	Jet black, matt	powd-c	Y	2	M5x35	20 Piece(s)	794357	
	R07.2	Traffic white	powd-c	Y	2	M5x40	20 Piece(s)	799790	
32	R01.1	Natural silver	anod.	N	2	M5x40	20 Piece(s)	618714	
	R01.3	Titanium	anod.	N	2	M5x40	20 Piece(s)	618736	
	R04.1	Grey brown	powd-c	N	-	-	20 Piece(s)	351759	
	R05.3	Medium bronze	anod.	N	2	M5x40	20 Piece(s)	618735	
	R05.5	Bronze	anod.	N	2	M5x40	20 Piece(s)	623781	
	R06.2M	Jet black, matt	powd-c	N	-	-	20 Piece(s)	794349	
	R07.2	Traffic white	powd-c	N	2	M5x40	20 Piece(s)	618737	
35	R01.1	Natural silver	anod.	N	-	-	20 Piece(s)	775044	
	R05.4	Dark bronze	anod.	Y	-	-	20 Piece(s)	627465	
	R05.5	Bronze	anod.	N	-	-	20 Piece(s)	775135	
	R07.2	Traffic white	powd-c	Y	-	-	20 Piece(s)	627468	
powd-c			N	-	-	20 Piece(s)	775043		



	 Roto				 #			Nº
37	R01.1	Natural silver	anod.	Y	2	M5x50	20 Piece(s)	799795
			anod.	N	2	M5x45	20 Piece(s)	384419
			anod.	N	2	M5x50	20 Piece(s)	570401
	R01.3	Titanium	anod.	Y	2	M5x50	20 Piece(s)	799796
			anod.	N	2	M5x45	20 Piece(s)	384439
			anod.	N	2	M5x50	20 Piece(s)	487658
	R03.1	Brass matt	anod.	N	2	M5x50	20 Piece(s)	629478
	R04.1	Grey brown	powd-c	N	2	M5x50	20 Piece(s)	570402
	R05.3	Medium bronze	anod.	N	2	M5x50	20 Piece(s)	618738
	R05.5	Bronze	anod.	N	-	-	20 Piece(s)	351742
	R06.2M	Jet black, matt	powd-c	N	2	M5x50	20 Piece(s)	643331
	R07.2	Traffic white	powd-c	N	2	M5x45	20 Piece(s)	384421
powd-c			Y	2	M5x50	20 Piece(s)	799797	
powd-c			N	2	M5x50	20 Piece(s)	487657	
40	R01.1	Natural silver	anod.	Y	-	-	20 Piece(s)	627460
			anod.	N	-	-	20 Piece(s)	363584
	R01.2	Nickel silver	anod.	Y	-	-	20 Piece(s)	627456
	R01.3	Titanium	anod.	Y	-	-	20 Piece(s)	627458
	R03.1	Brass matt	anod.	Y	-	-	20 Piece(s)	627455
			anod.	N	-	-	20 Piece(s)	640188
	R04.1	Grey brown	powd-c	N	-	-	20 Piece(s)	363617
	R05.4	Dark bronze	anod.	Y	-	-	20 Piece(s)	627457
	R05.5	Bronze	anod.	Y	-	-	20 Piece(s)	627454
			anod.	N	-	-	20 Piece(s)	363619
	R07.1	Pure white	powd-c	N	-	-	20 Piece(s)	640189
	R07.2	Traffic white	powd-c	Y	-	-	20 Piece(s)	498770
powd-c			N	2	M5x55	20 Piece(s)	566530	
R07.3	Cream	powd-c	Y	-	-	20 Piece(s)	498771	
		powd-c	N	-	-	20 Piece(s)	640263	
43	R01.1	Natural silver	anod.	N	2	M5x55	20 Piece(s)	594331
	R01.3	Titanium	anod.	N	2	M5x55	20 Piece(s)	594333
	R04.1	Grey brown	powd-c	N	2	M5x55	20 Piece(s)	594335
	R05.3	Medium bronze	anod.	N	2	M5x55	20 Piece(s)	594336
	R05.5	Bronze	anod.	N	2	M5x55	20 Piece(s)	594337
	R07.2	Traffic white	powd-c	Y	2	M5x55	20 Piece(s)	799801
powd-c			N	2	M5x55	20 Piece(s)	594338	

## 2.2.10 Secustik® – night ventilation



### Product description

- Handle with automatic locking
- Protection against being tampered with from the outside
- Patented locking mechanism to provide built-in basic security
- 90° lock-in position
  - 45° lock-in position for night ventilation
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

### Scope of delivery

- 1 handle
- For fixing screws, see table



### INFO

Further information on Secustik® → *from page 22*



### INFO

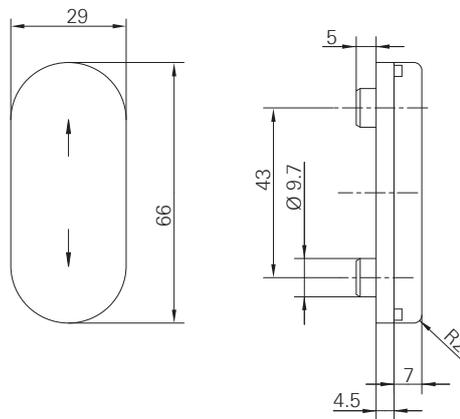
A flush-encased gearbox is required for use in aluminium profiles .

32	R01.1	Natural silver	anod.	Y	2	M5x45	20 Piece(s)	616693	
	R01.3	Titanium	anod.	Y	2	M5x45	20 Piece(s)	616694	
	R05.3	Medium bronze	anod.	Y	2	M5x45	20 Piece(s)	616696	
	R05.5	Bronze	anod.	Y	2	M5x45	20 Piece(s)	616697	
	R07.2	Traffic white	powd-c	Y	2	M5x45	20 Piece(s)	616698	
37	R01.1	Natural silver	anod.	Y	2	M5x50	20 Piece(s)	616699	
	R01.2	Nickel silver	anod.	Y	2	M5x50	20 Piece(s)	616700	
	R01.3	Titanium	anod.	Y	2	M5x50	20 Piece(s)	616701	
	R04.1	Grey brown	powd-c	Y	2	M5x50	20 Piece(s)	607384	
	R05.3	Medium bronze	anod.	Y	2	M5x50	20 Piece(s)	616702	
	R05.5	Bronze	anod.	Y	2	M5x50	20 Piece(s)	616703	
	R07.2	Traffic white	powd-c	Y	2	M5x50	20 Piece(s)	607395	
R03.1	Brass matt	anod.	Y	2	M5x50	20 Piece(s)	635031		



								N <sup>o</sup>
43	R01.1	Natural silver	anod.	Y	2	M5x55	20 Piece(s)	635032
	R01.2	Nickel silver	anod.	Y	2	M5x55	20 Piece(s)	635033
	R01.3	Titanium	anod.	Y	2	M5x55	20 Piece(s)	635034
	R03.1	Brass matt	anod.	Y	2	M5x55	20 Piece(s)	635035
	R04.1	Grey brown	powd-c	N	2	M5x55	20 Piece(s)	635036
	R05.3	Medium bronze	anod.	Y	2	M5x55	20 Piece(s)	635037
	R05.5	Bronze	anod.	Y	2	M5x55	20 Piece(s)	635038
R07.2	Traffic white	powd-c	Y	2	M5x55	20 Piece(s)	635039	

## 2.2.11 Escutcheon for service handle



### Product description

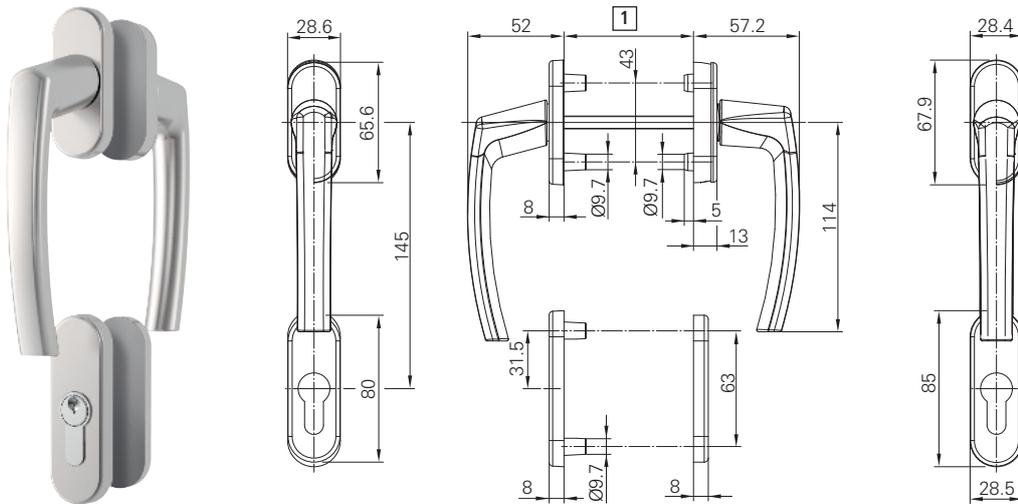
- Handle hole cover escutcheon with vertically sliding cover
- In conjunction with Roto Line service handle → *from page 102.*

### Scope of delivery

- 1 escutcheon

				N <sup>o</sup>
R01.1	Natural silver	anod.	20 Piece(s)	228100
R01.2	Nickel silver	anod.	20 Piece(s)	228101
R01.3	Titanium	anod.	20 Piece(s)	228010
R03.1	Brass matt	anod.	20 Piece(s)	228102
R04.1	Grey brown	powd-c	20 Piece(s)	228012
R05.3	Medium bronze	anod.	20 Piece(s)	228103
R05.5	Bronze	anod.	20 Piece(s)	228104
R07.2	Traffic white	powd-c	20 Piece(s)	228014

## 2.2.12 Handle set with escutcheons



[1] Door leaf thickness depending on spindle length:

Spindle length 100 mm = 48 to 83 mm

Spindle length 127 mm = 52 to 110 mm



### Product description

- Handle set with escutcheon version
- Outside: handle securely pinned
- Inside and outside: standard handle with profile cylinder escutcheon
- Concealed screw fixing
- 90° lock-in position
- Ten-year performance warranty

### Scope of delivery

- 2 handles
- 2 profile cylinder escutcheons
- 4 fixing screws, can be shortened



### INFO

Profile cylinder is not included in the scope of delivery.



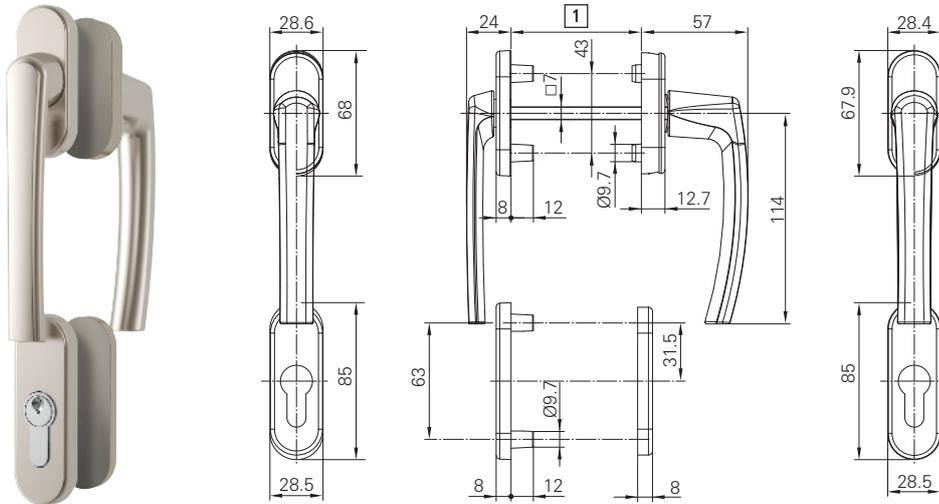
### INFO

A flush-encased gearbox is required for use in aluminium profiles .



								N <sup>o</sup>
100	R01.1	Natural silver	anod.	Y	4	M5x100	1 Piece(s)	228292
			anod.	N	4	M5x100	1 Piece(s)	228380
	R01.2	Nickel silver	anod.	Y	4	M5x100	1 Piece(s)	228293
			anod.	N	4	M5x100	1 Piece(s)	228381
	R01.3	Titanium	anod.	Y	4	M5x100	1 Piece(s)	228233
			anod.	N	4	M5x100	1 Piece(s)	228333
	R03.1	Brass matt	anod.	Y	4	M5x100	1 Piece(s)	228294
			anod.	N	4	M5x100	1 Piece(s)	228382
	R04.1	Grey brown	powd-c	Y	4	M5x100	1 Piece(s)	228235
			powd-c	N	4	M5x100	1 Piece(s)	228335
	R05.3	Medium bronze	anod.	Y	4	M5x100	1 Piece(s)	228295
			anod.	N	4	M5x100	1 Piece(s)	228383
	R05.5	Bronze	anod.	Y	4	M5x100	1 Piece(s)	228296
			anod.	N	4	M5x100	1 Piece(s)	228384
	R06.2M	Jet black, matt	powd-c	N	4	M5x100	1 Piece(s)	794348
	R07.1	Pure white	powd-c	Y	4	M5x100	1 Piece(s)	228236
powd-c			N	4	M5x100	1 Piece(s)	228336	
R07.2	Traffic white	powd-c	Y	4	M5x100	1 Piece(s)	228237	
		powd-c	N	4	M5x100	1 Piece(s)	228337	
127	R01.1	Natural silver	anod.	N	4	M5x110	1 Piece(s)	601694
	R01.3	Titanium	anod.	N	4	M5x110	1 Piece(s)	601706
	R07.2	Traffic white	powd-c	N	4	M5x110	1 Piece(s)	601711

### 2.2.13 Handle set with escutcheons – flat handle on the outside



[1] Door leaf thickness depending on spindle length:

Spindle length 100 mm = 48 to 83 mm

Spindle length 127 mm = 52 to 110 mm



#### Product description

- Handle set with escutcheon version
- Outside: handle securely pinned
- Outside: flat handle with profile cylinder escutcheon
- Inside: standard handle with profile cylinder escutcheon
- Concealed screw fixing
- 90° lock-in position
- Ten-year performance warranty

#### Scope of delivery

- 2 handles (flat handle, standard handle)
- 2 profile cylinder escutcheons
- 4 fixing screws, can be shortened



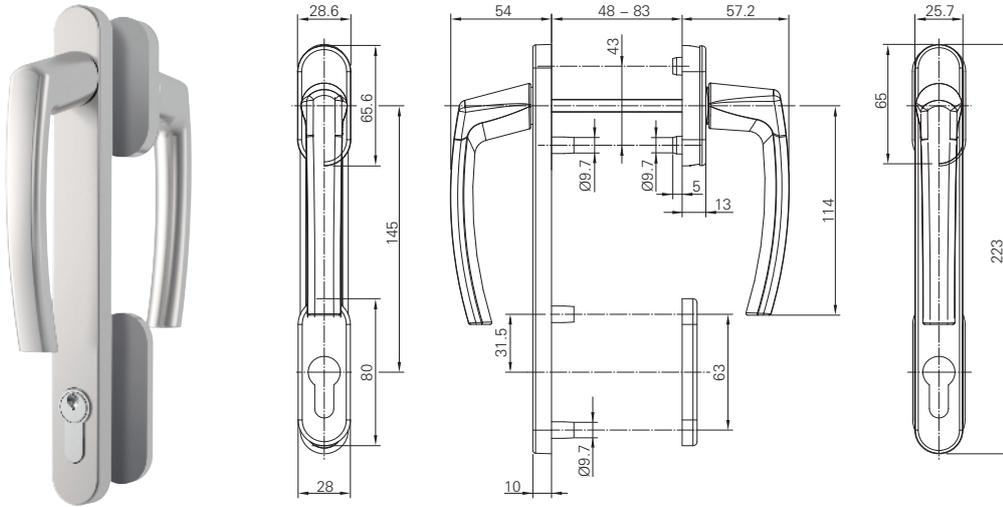
#### INFO

Profile cylinder is not included in the scope of delivery.

100	R01.1	Natural silver	anod.	Y	4	M5x100	1 Piece(s)	228302	
			anod.	N	4	M5x100	1 Piece(s)	228390	
	R01.3	Titanium	anod.	Y	4	M5x100	1 Piece(s)	228245	
			anod.	N	4	M5x100	1 Piece(s)	228345	
	R04.1	Grey brown	powd-c	N	4	M5x100	1 Piece(s)	228347	
	R05.3	Medium bronze	anod.	Y	4	M5x100	1 Piece(s)	228305	
			anod.	N	4	M5x100	1 Piece(s)	228393	
	R05.5	Bronze	anod.	Y	4	M5x100	1 Piece(s)	228306	
anod.			N	4	M5x100	1 Piece(s)	228394		
R07.2	Traffic white	powd-c	Y	4	M5x100	1 Piece(s)	228249		
		powd-c	N	4	M5x100	1 Piece(s)	228349		
127	R01.1	Natural silver	anod.	N	4	M5x110	1 Piece(s)	601712	
	R01.3	Titanium	anod.	N	4	M5x110	1 Piece(s)	601714	
	R06.2M	Jet black, matt	powd-c	N	4	M5x110	1 Piece(s)	794354	
	R07.2	Traffic white	powd-c	N	4	M5x110	1 Piece(s)	601729	



## 2.2.14 Handle set with escutcheons – long plate on the outside



### Product description

- Outside: standard handle with long plate, securely pinned
- Inside: standard handle with profile cylinder escutcheon
- Concealed screw fixing
- 90° lock-in position
- Ten-year performance warranty

### Scope of delivery

- 2 handles
- 1 profile cylinder escutcheon
- 4 fixing screws



### INFO

Profile cylinder is not included in the scope of delivery.



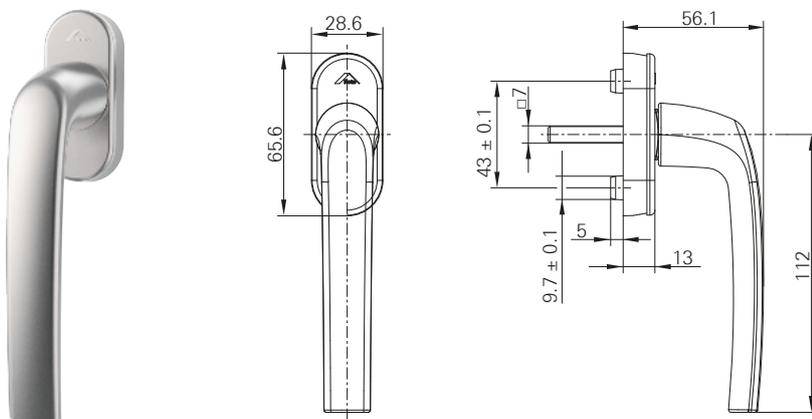
### INFO

A flush-encased gearbox is required for use in aluminium profiles .

100	R01.1	Natural silver	anod.	N	4	M5x100	1 Piece(s)	228385
	R01.3	Titanium	anod.	N	4	M5x100	1 Piece(s)	228339
	R07.2	Traffic white	powd-c	N	4	M5x100	1 Piece(s)	228343

## 2.3 Roto Samba

### 2.3.1 Standard



#### Product description

- Basic handle without additional functions
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

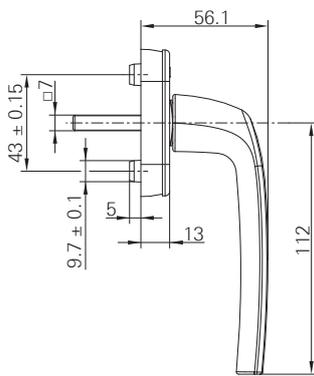
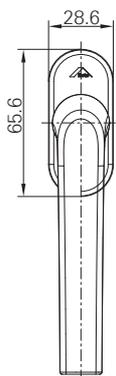
#### Scope of delivery

- 1 handle
- 2 fixing screws

32	R01.1	Natural silver	anod.	Y	2	M5x40	100 Piece(s)	639648	
	R01.3	Titanium	anod.	Y	2	M5x40	100 Piece(s)	639667	
	R03.1	Brass matt	anod.	Y	2	M5x40	100 Piece(s)	639651	
	R04.1	Grey brown	powd-c	Y	2	M5x40	100 Piece(s)	810076	
	R05.5	Bronze	anod.	Y	2	M5x40	100 Piece(s)	639654	
	R07.2	Traffic white	powd-c	Y	2	M5x40	100 Piece(s)	810075	
37	R01.1	Natural silver	anod.	Y	2	M5x45	100 Piece(s)	639649	
	R01.3	Titanium	anod.	Y	2	M5x45	100 Piece(s)	639668	
	R03.1	Brass matt	anod.	Y	2	M5x45	100 Piece(s)	639652	
	R04.1	Grey brown	powd-c	Y	2	M5x45	100 Piece(s)	787954	
	R05.5	Bronze	anod.	Y	2	M5x45	100 Piece(s)	639665	
	R07.2	Traffic white	powd-c	Y	2	M5x45	100 Piece(s)	787955	
43	R01.1	Natural silver	anod.	Y	2	M5x50	100 Piece(s)	639650	
	R01.3	Titanium	anod.	Y	2	M5x50	100 Piece(s)	639669	
	R03.1	Brass matt	anod.	Y	2	M5x50	100 Piece(s)	639653	
	R04.1	Grey brown	powd-c	Y	2	M5x50	100 Piece(s)	787956	
	R05.5	Bronze	anod.	Y	2	M5x50	100 Piece(s)	639666	
	R07.2	Traffic white	powd-c	Y	2	M5x50	100 Piece(s)	787957	



## 2.3.2 Night ventilation



### Product description

- Basic handle without additional functions
- 90° lock-in position, 45° lock-in position for night ventilation
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

### Scope of delivery

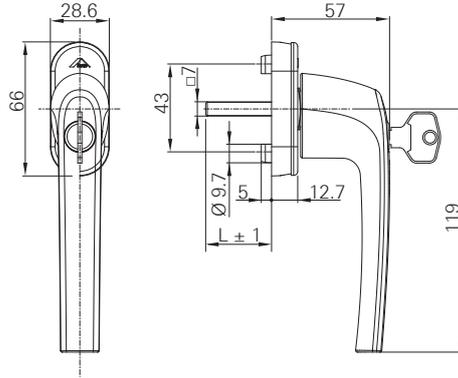
- 1 handle
- 2 fixing screws

32	R01.1	Natural silver	anod.	Y	2	M5x40	100 Piece(s)	639676	
	R01.3	Titanium	anod.	Y	2	M5x40	100 Piece(s)	639695	
	R05.5	Bronze	anod.	Y	2	M5x40	100 Piece(s)	639682	
	R07.2	Traffic white	powd-c	Y	2	M5x40	100 Piece(s)	639670	
37	R01.1	Natural silver	anod.	Y	2	M5x45	100 Piece(s)	639677	
	R01.3	Titanium	anod.	Y	2	M5x45	100 Piece(s)	639696	
	R03.1	Brass matt	anod.	Y	2	M5x45	100 Piece(s)	639680	
	R04.1	Grey brown	powd-c	Y	2	M5x45	100 Piece(s)	787958	
	R05.5	Bronze	anod.	Y	2	M5x45	100 Piece(s)	639683	
	R07.2	Traffic white	powd-c	Y	2	M5x45	100 Piece(s)	787959	
43	R01.1	Natural silver	anod.	Y	2	M5x50	100 Piece(s)	639678	
	R01.3	Titanium	anod.	Y	2	M5x50	100 Piece(s)	639697	
	R03.1	Brass matt	anod.	Y	2	M5x50	100 Piece(s)	639681	
	R04.1	Grey brown	powd-c	Y	2	M5x50	100 Piece(s)	787960	
	R05.5	Bronze	anod.	Y	2	M5x50	100 Piece(s)	639684	
	R07.2	Traffic white	powd-c	Y	2	M5x50	100 Piece(s)	787961	





### 2.3.4 Lockable 40 Nm



#### Product description

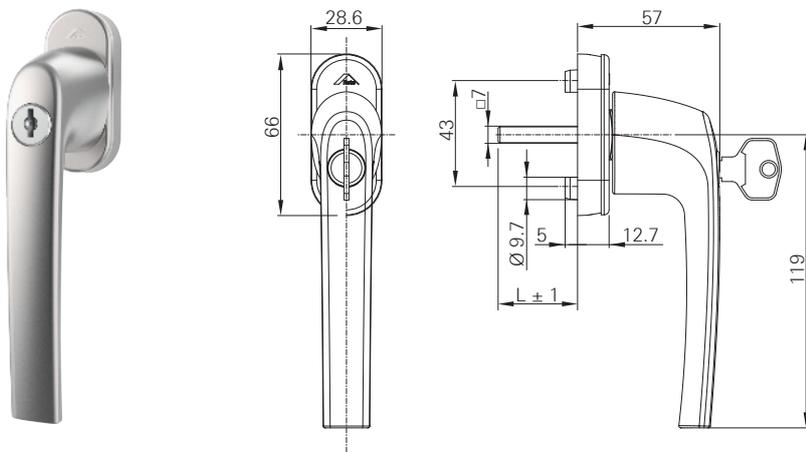
- Lockable handle with tested torque 40 Nm (basic security)
- Closure: rotary cylinder with reversible key
- Can be operated when the handle is unlocked
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

#### Scope of delivery

- 1 handle
- 1 key
- 2 fixing screws

32	R01.1	Natural silver	anod.	Y	2	M5x40	40 Piece(s)	639693	
	R05.5	Bronze	anod.	Y	2	M5x40	40 Piece(s)	639741	
	R07.2	Traffic white	powd-c	Y	2	M5x40	40 Piece(s)	639718	
37	R01.1	Natural silver	anod.	Y	2	M5x45	40 Piece(s)	639694	
	R01.3	Titanium	anod.	Y	2	M5x45	40 Piece(s)	639745	
	R04.1	Grey brown	powd-c	Y	2	M5x45	40 Piece(s)	639722	
	R05.5	Bronze	anod.	Y	2	M5x45	40 Piece(s)	639742	
	R07.2	Traffic white	powd-c	Y	2	M5x45	40 Piece(s)	639719	
43	R01.1	Natural silver	anod.	Y	2	M5x50	40 Piece(s)	639735	
	R01.3	Titanium	anod.	Y	2	M5x50	40 Piece(s)	639746	
	R04.1	Grey brown	powd-c	Y	2	M5x50	40 Piece(s)	639723	
	R05.5	Bronze	anod.	Y	2	M5x50	40 Piece(s)	639743	
	R07.2	Traffic white	powd-c	Y	2	M5x50	40 Piece(s)	639720	

### 2.3.5 Lockable 40 Nm – TiltFirst



#### Product description

- For window systems with the TiltFirst application (tilting before turning)
- Closure: rotary cylinder with reversible key
- Can be locked in the 0° and 90° position
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

#### Scope of delivery

- 1 handle
- 1 key
- 2 fixing screws



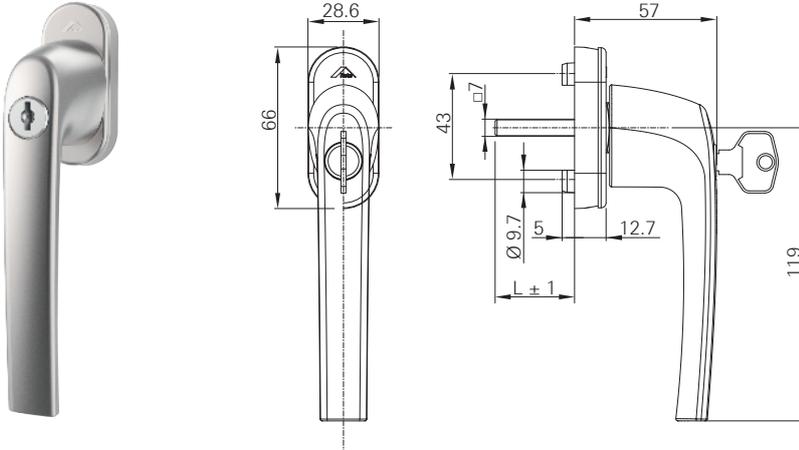
#### INFO

Further information on TiltFirst → *from page 23.*

37	R01.1	Natural silver	anod.	Y	2	M5x45	40 Piece(s)	639772
	R01.3	Titanium	anod.	Y	2	M5x45	40 Piece(s)	639781
	R07.2	Traffic white	powd-c	Y	2	M5x45	40 Piece(s)	639766
43	R01.1	Natural silver	anod.	Y	2	M5x50	40 Piece(s)	639773
	R07.2	Traffic white	powd-c	Y	2	M5x50	40 Piece(s)	639767



### 2.3.6 Lockable 100 Nm



#### Product description

- Lockable handle with tested torque 100 Nm
- Closure: push cylinder with reversible key
- Simple and quick locking by pressing the cylinder
- Meets the requirements of DIN EN 1627-1630, RC 1 – RC 6
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

#### Scope of delivery

- 1 handle
- 1 key
- 2 fixing screws

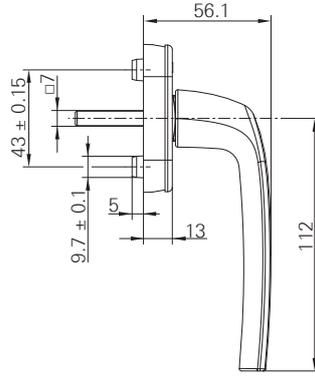
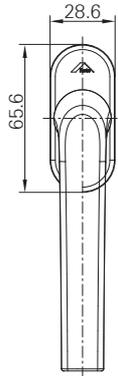


#### INFO

Further information on lockable handles → *from page 21.*

32	R01.1	Natural silver	anod.	Y	2	M5x40	40 Piece(s)	639753
	R07.2	Traffic white	powd-c	Y	2	M5x40	40 Piece(s)	639747
37	R01.1	Natural silver	anod.	Y	2	M5x45	40 Piece(s)	639754
	R01.3	Titanium	anod.	Y	2	M5x45	40 Piece(s)	639763
	R04.1	Grey brown	powd-c	Y	2	M5x45	40 Piece(s)	639751
	R05.5	Bronze	anod.	Y	2	M5x45	40 Piece(s)	639760
	R07.2	Traffic white	powd-c	Y	2	M5x45	40 Piece(s)	639748
43	R01.1	Natural silver	anod.	Y	2	M5x50	40 Piece(s)	639755
	R01.3	Titanium	anod.	Y	2	M5x50	40 Piece(s)	639764
	R04.1	Grey brown	powd-c	Y	2	M5x50	40 Piece(s)	639752
	R07.2	Traffic white	powd-c	Y	2	M5x50	40 Piece(s)	639749

### 2.3.7 Secustik®



#### Product description

- Handle with automatic locking
- Protection against being tampered with from the outside
- Patented locking mechanism to provide built-in basic security
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

#### Scope of delivery

- 1 handle
- 2 fixing screws



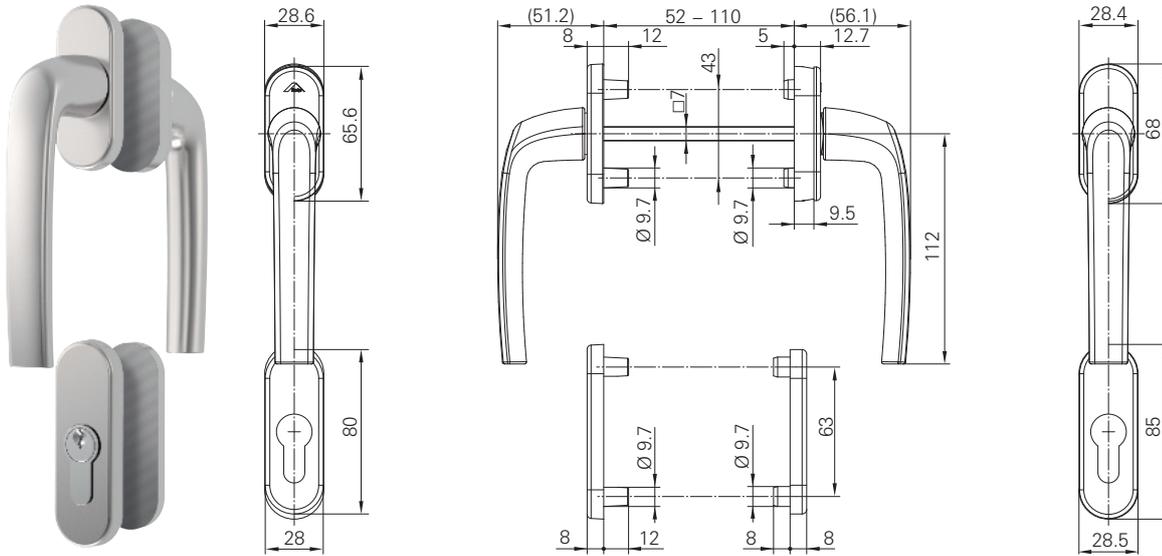
#### INFO

Further information on Secustik® → *from page 22*

32	R01.1	Natural silver	anod.	Y	2	M5x40	80 Piece(s)	639704
	R01.3	Titanium	anod.	Y	2	M5x40	80 Piece(s)	639715
	R04.1	Grey brown	powd-c	Y	2	M5x40	80 Piece(s)	639701
	R05.5	Bronze	anod.	Y	2	M5x40	80 Piece(s)	639712
	R07.2	Traffic white	powd-c	Y	2	M5x40	80 Piece(s)	639698
37	R01.1	Natural silver	anod.	Y	2	M5x50	80 Piece(s)	639706
	R01.3	Titanium	anod.	Y	2	M5x50	80 Piece(s)	639716
	R03.1	Brass matt	anod.	Y	2	M5x50	80 Piece(s)	639710
	R04.1	Grey brown	powd-c	Y	2	M5x50	80 Piece(s)	639702
	R05.5	Bronze	anod.	Y	2	M5x50	80 Piece(s)	639713
R07.2	Traffic white	powd-c	Y	2	M5x50	80 Piece(s)	639699	
43	R01.1	Natural silver	anod.	Y	2	M5x55	80 Piece(s)	639707
	R01.3	Titanium	anod.	Y	2	M5x55	80 Piece(s)	639717
	R03.1	Brass matt	anod.	Y	2	M5x55	80 Piece(s)	639711
	R04.1	Grey brown	powd-c	Y	2	M5x55	80 Piece(s)	639703
	R05.5	Bronze	anod.	Y	2	M5x55	80 Piece(s)	639714
	R07.2	Traffic white	powd-c	Y	2	M5x55	80 Piece(s)	639700



### 2.3.8 Handle set with escutcheons



#### Product description

- Handle set with escutcheon version
- Outside: handle securely pinned
- Inside and outside: standard handle with profile cylinder escutcheon
- Concealed screw fixing
- 90° lock-in position
- Ten-year performance warranty

#### Scope of delivery

- 2 handles
- 2 profile cylinder escutcheons
- 4 fixing screws, can be shortened



#### INFO

Profile cylinder is not included in the scope of delivery.

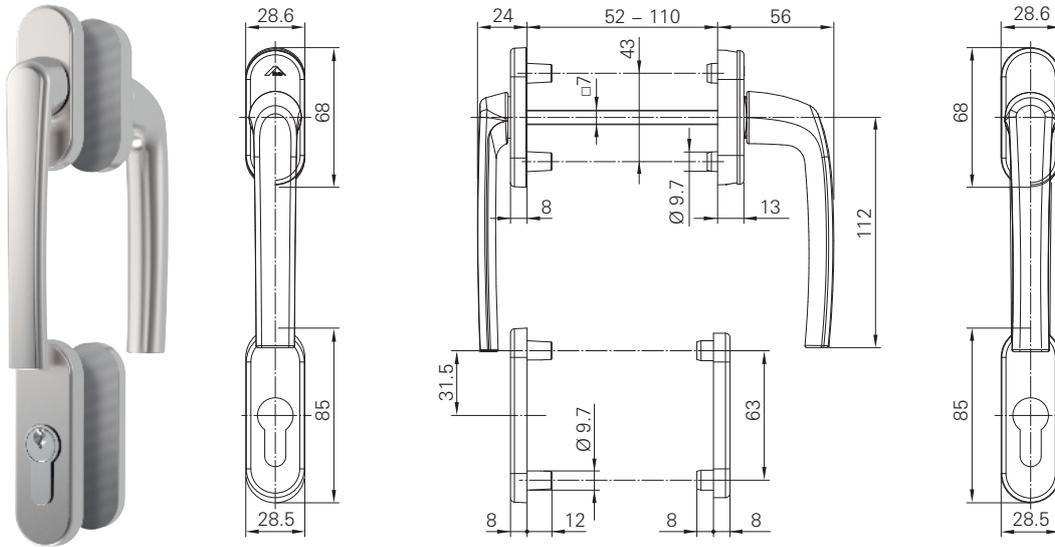


#### INFO

A flush-encased gearbox is required for use in aluminium profiles .

127	R01.1	Natural silver	anod.	Y	2	M5x110	1 Piece(s)	639815
	R01.3	Titanium	anod.	Y	2	M5x110	1 Piece(s)	639818
	R04.1	Grey brown	powd-c	Y	2	M5x110	1 Piece(s)	639814
	R07.2	Traffic white	powd-c	Y	2	M5x110	1 Piece(s)	639813

### 2.3.9 Handle set with escutcheons – flat handle on the outside



#### Product description

- Handle set with escutcheon version
- Outside: handle securely pinned
- Outside: flat handle with profile cylinder escutcheon
- Inside: standard handle with profile cylinder escutcheon
- Concealed screw fixing
- 90° lock-in position
- Ten-year performance warranty

#### Scope of delivery

- 2 handles
- 2 profile cylinder escutcheons
- 4 fixing screws



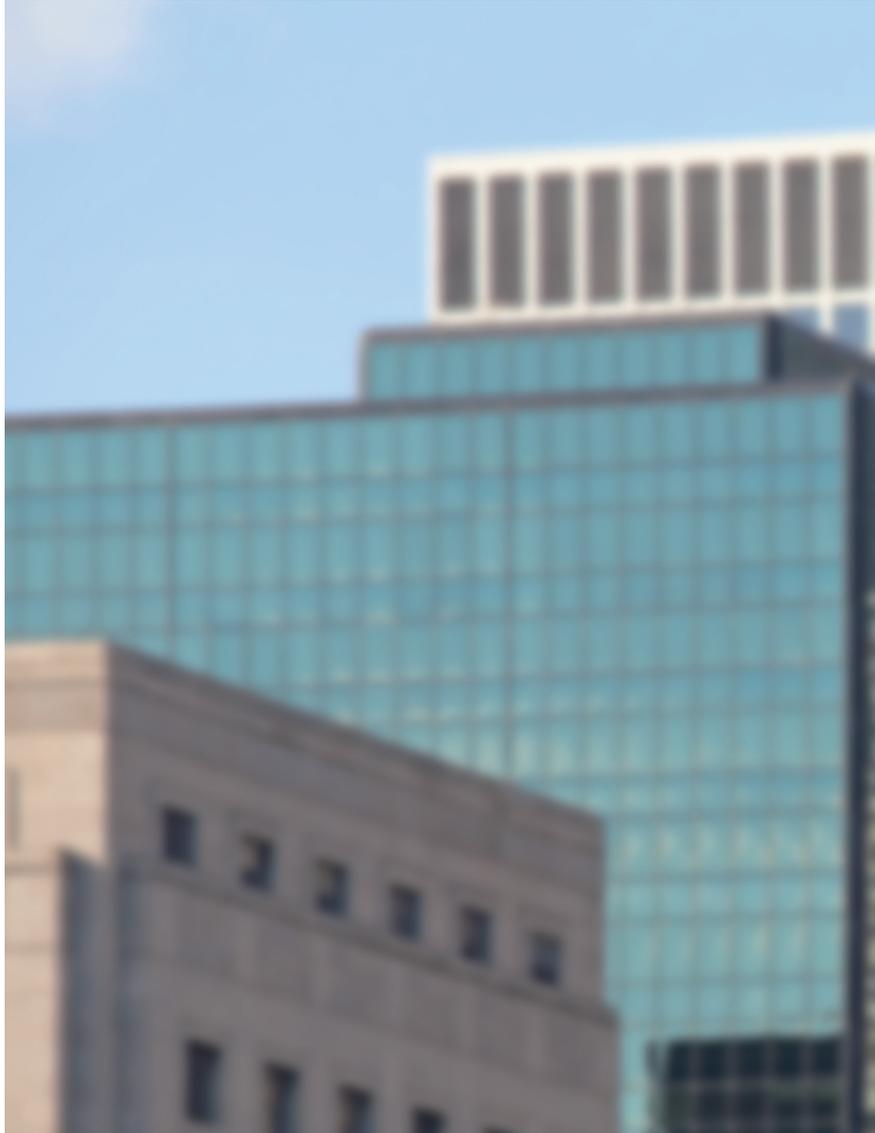
#### INFO

Profile cylinder is not included in the scope of delivery.

127	R01.1	Natural silver	anod.	Y	2	M5x110	1 Piece(s)	640333	
	R01.3	Titanium	anod.	Y	2	M5x110	1 Piece(s)	640335	
	R04.1	Grey brown	powd-c	Y	2	M5x110	1 Piece(s)	640332	
	R07.2	Traffic white	powd-c	Y	2	M5x110	1 Piece(s)	640331	



## Roto AL







**Roto Line**

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Lockable 40 Nm	91
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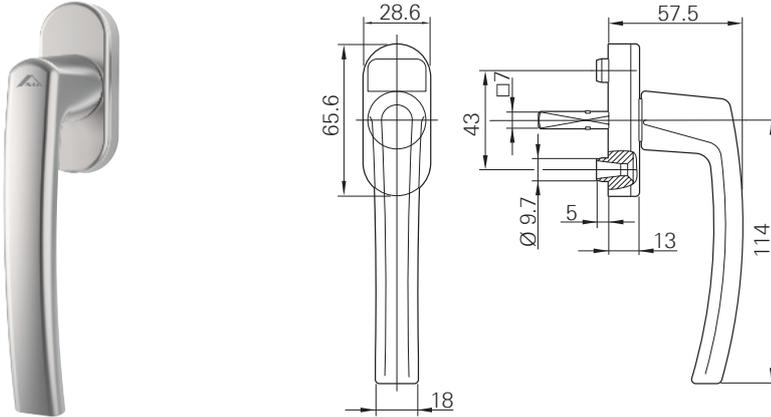
**Roto Freestyle**

Geared-handle	111
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## 3 Roto AL

### 3.1 Roto Line

#### 3.1.1 Standard



#### Product description

- Basic handle without additional functions
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

#### Scope of delivery

- 1 handle
- For fixing screws, see table



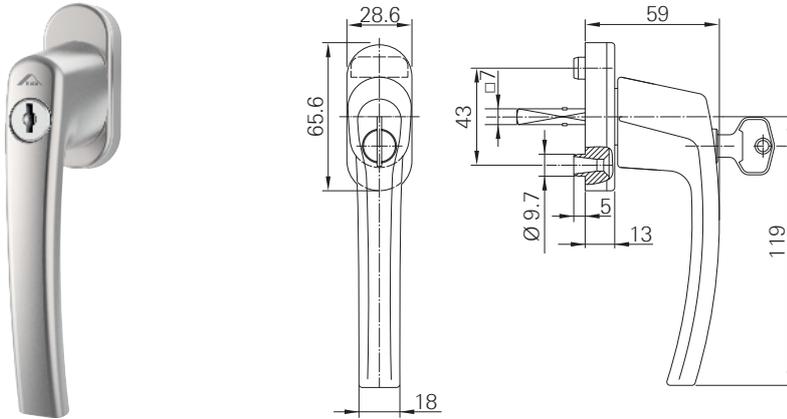
#### INFO

A flush-encased gearbox is required for use in aluminium profiles .

24	R01.1	Natural silver		-	anod.	Y	-	-	20 Piece(s)	262466
	R01.1	Natural silver		-	anod.	Y	2	M5x35	20 Piece(s)	799867
	R01.1	Natural silver		-	anod.	N	2	M5x35	20 Piece(s)	858981
	R01.3	Titanium		-	anod.	Y	-	-	20 Piece(s)	341748
	R06.2M	Jet black, matt		-	powd-c	Y	2	M5x30	20 Piece(s)	857277
	R06.2M	Jet black, matt		-	powd-c	Y	2	M5x35	20 Piece(s)	2033353
	R07.2	Traffic white		-	powd-c	Y	2	M5x35	20 Piece(s)	2043566
	R07.2	Traffic white		-	powd-c	N	2	M5x35	20 Piece(s)	858980
SF	Special colour	Escutcheon: Jet black		powd-c	Y	2	M5x35	20 Piece(s)	788812	



### 3.1.2 Lockable 40 Nm



#### Product description

- Lockable handle with tested torque 40 Nm (basic security)
- Closure: rotary cylinder with reversible key
- Can be operated when the handle is unlocked
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

#### Scope of delivery

- 1 handle
- 1 key
- For fixing screws, see table

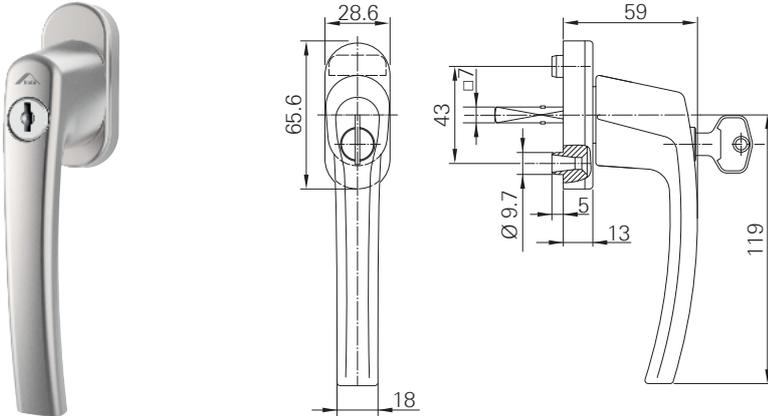


#### INFO

A flush-encased gearbox is required for use in aluminium profiles .

24	R01.1	Natural silver	anod.	Y	-	-	15 Piece(s)	610560
	R01.5	Silver	anod.	N	2	M5x30	15 Piece(s)	640325
	R06.2	Jet black	powd-c	Y	2	M5x40	15 Piece(s)	840755
	R07.2	Traffic white	powd-c	Y	-	-	15 Piece(s)	765011

### 3.1.3 Lockable 40 Nm – TiltFirst



#### Product description

- For window systems with the TiltFirst application (tilting before turning)
- Closure: rotary cylinder with reversible key
- Can be locked in the 0° and 90° position
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

#### Scope of delivery

- 1 handle
- 1 key
- For fixing screws, see table



#### INFO

Further information on TiltFirst → *from page 23.*



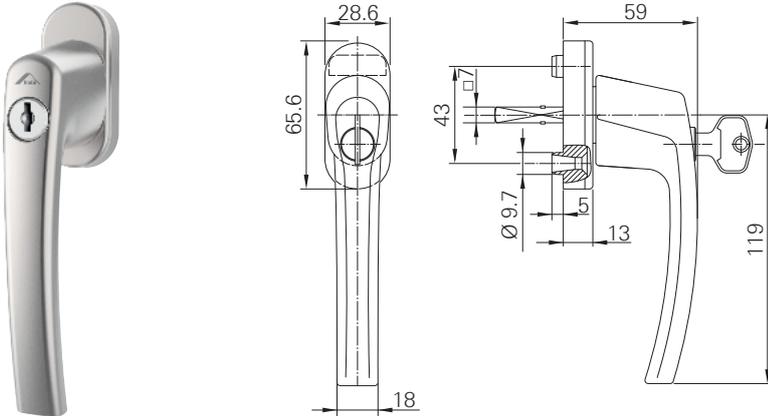
#### INFO

A flush-encased gearbox is required for use in aluminium profiles .

24	R01.1	Natural silver		–	anod.	Y	2	M5x40	15 Piece(s)	799843
	R01.1	Natural silver		–	anod.	Y	2	M5x30	15 Piece(s)	820885
	R01.1	Natural silver		–	anod.	N	2	M5x35	20 Piece(s)	858991
	R01.3	Titanium		–	anod.	Y	2	M5x40	15 Piece(s)	799844
	R07.2	Traffic white		–	powd-c	Y	2	M5x40	15 Piece(s)	799845
	R07.2	Traffic white		–	powd-c	Y	2	M5x30	15 Piece(s)	820886
	R07.2	Traffic white		–	powd-c	N	2	M5x35	20 Piece(s)	858990
	SF	Special colour	Escutcheon: Steel grey		anod.	Y	2	M5x35	15 Piece(s)	800422
SF	Special colour	Escutcheon: Jet black		powd-c	Y	2	M5x35	15 Piece(s)	788850	



### 3.1.4 Lockable 100 Nm



#### Product description

- Lockable handle with tested torque 100 Nm
- Closure: push cylinder with reversible key
- Simple and quick locking by pressing the cylinder
- Meets the requirements of DIN EN 1627-1630, RC 1 – RC 6
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

#### Scope of delivery

- 1 handle
- 1 key
- For fixing screws, see table



#### INFO

Further information on lockable handles → *from page 21.*

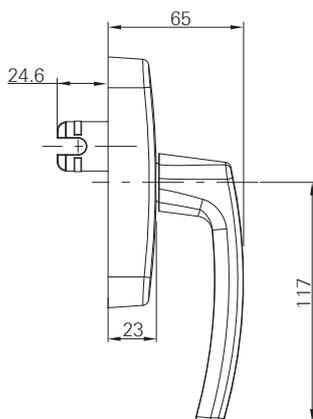
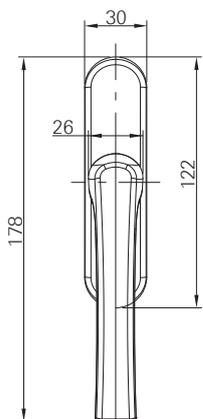


#### INFO

A flush-encased gearbox is required for use in aluminium profiles .

24	R01.1	Natural silver	anod.	Y	2	M5x30	20 Piece(s)	819857
	R01.1	Natural silver	anod.	N	2	M5x35	20 Piece(s)	858985
	R01.3	Titanium	anod.	N	2	M5x35	20 Piece(s)	858986
	R07.2	Traffic white	powd-c	Y	2	M5x30	20 Piece(s)	819856
	R07.2	Traffic white	powd-c	N	2	M5x35	20 Piece(s)	858984

### 3.1.5 Geared-handle



#### Product description

- Basic handle without additional functions
- 90° lock-in position

#### Scope of delivery

- 1 geared-handle with handle

26	R01.1	Natural silver	anod.	Y	-	-	10 Piece(s)	238671
	R01.5	Silver	powd-c	Y	-	-	10 Piece(s)	377474
			powd-c	N	-	-	10 Piece(s)	384503
	R01.5M	Matt silver	powd-c	Y	-	-	10 Piece(s)	2036789
			powd-c	N	-	-	10 Piece(s)	2036790
	R05.4	Dark bronze	powd-c	Y	-	-	10 Piece(s)	377478
			powd-c	N	-	-	10 Piece(s)	384504
	R06.2	Jet black	powd-c	Y	-	-	10 Piece(s)	385190
	R06.2M	Jet black, matt	powd-c	Y	-	-	10 Piece(s)	377475
			powd-c	N	-	-	10 Piece(s)	384505
	R07.1	Pure white	powd-c	Y	-	-	10 Piece(s)	377476
			powd-c	N	-	-	10 Piece(s)	384506
	R07.2	Traffic white	powd-c	Y	-	-	10 Piece(s)	377477
			powd-c	N	-	-	10 Piece(s)	384507
R03.3	Gold	met p	N	-	-	10 Piece(s)	457093	
R03.4	Stainless-steel design	met p	Y	-	-	10 Piece(s)	335880	
SF	Special colour	wet p powd-c	Y	-	-	10 Piece(s)	377479	
		wet p powd-c	N	-	-	10 Piece(s)	384508	
R00.0	Uncoated	-	N	-	-	10 Piece(s)	632981	
32	R01.5M	Matt silver	powd-c	Y	-	-	10 Piece(s)	2036746
	R06.2M	Jet black, matt	powd-c	Y	-	-	10 Piece(s)	384084
	R07.1	Pure white	powd-c	Y	-	-	10 Piece(s)	384095
	R07.2	Traffic white	anod.	Y	-	-	10 Piece(s)	384096
	R00.0	Uncoated	-	N	-	-	10 Piece(s)	814535

Accessories for geared-handles → *from page 104.*

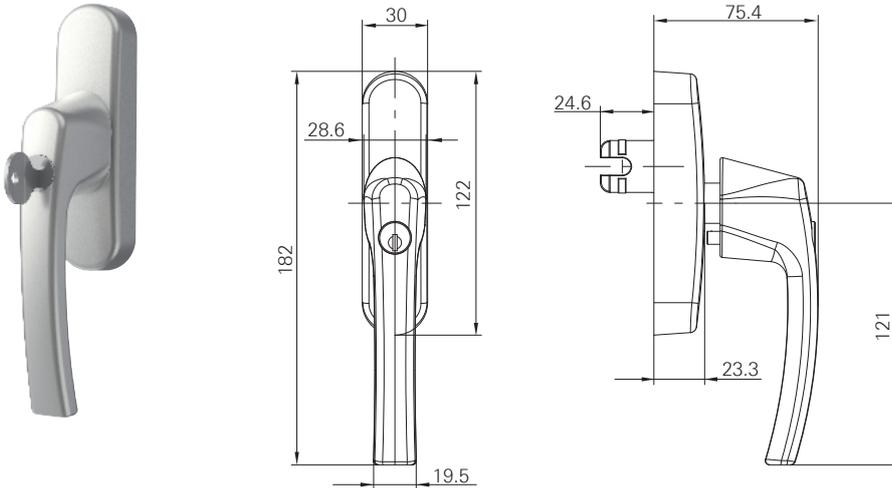
Fork for geared-handle → *from page 104*, other fork lengths are available upon request.



**i INFO**

The uncoated handle is not supplied assembled.

**3.1.6 Geared-handle – lockable 100 Nm**



**Product description**

- Lockable handle with tested torque 100 Nm
- Closure: cylinder with reversible key
- 90° lock-in position

**Scope of delivery**

- 1 geared-handle with handle
- 2 keys

26	R01.5	Silver	powd-c	Y	-	-	10 Piece(s)	378843
	R01.5M	Matt silver	powd-c	Y	-	-	10 Piece(s)	2036937
			powd-c	N	-	-	10 Piece(s)	2036938
	R03.4	Stainless-steel design	Nickel-plated	Y	-	-	10 Piece(s)	335881
	R05.4	Dark bronze	powd-c	Y	-	-	10 Piece(s)	378917
	R06.2M	Jet black, matt	powd-c	Y	-	-	10 Piece(s)	378844
	R06.2	Jet black	powd-c	Y	-	-	10 Piece(s)	385193
	R07.1	Pure white	powd-c	Y	-	-	10 Piece(s)	378915
			powd-c	N	-	-	10 Piece(s)	384521
	R07.2	Traffic white	powd-c	Y	-	-	10 Piece(s)	378916
SF	Special colour	wet p powd-c	Y	-	-	10 Piece(s)	378918	
		wet p powd-c	N	-	-	10 Piece(s)	384523	
R00.0	Uncoated	-	N	-	-	10 Piece(s)	238700	
		-	N	-	-	10 Piece(s)	238700	
32	R01.5	Silver	anod.	Y	-	-	10 Piece(s)	384099

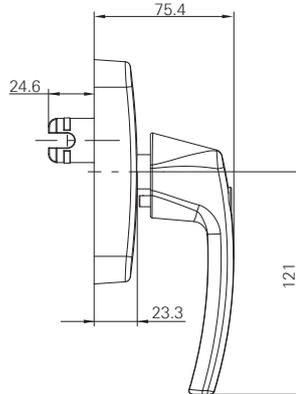
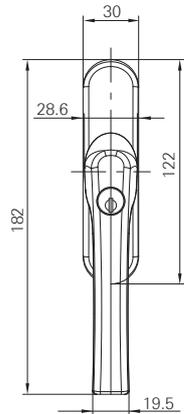
Accessories for geared-handles → *from page 104.*

Fork for geared-handle → *from page 104,* other fork lengths are available upon request.

**i INFO**

The uncoated handle is not supplied assembled.

### 3.1.7 Geared-handle – lockable 100 Nm – TiltFirst



#### Product description

- Lockable handle with tested torque 100 Nm
- Closure: push cylinder with reversible key
- Simple and quick locking by pressing the cylinder
- For window systems with the TiltFirst application (tilting before turning)
- 90° lock-in position

#### Scope of delivery

- 1 handle
- 2 keys



#### INFO

Further information on TiltFirst → *from page 23.*

26	R01.5	Silver	powd-c	Y	-	-	10 Piece(s)	378919
	R01.5M	Matt silver	powd-c	Y	-	-	10 Piece(s)	2036949
	R05.4	Dark bronze	powd-c	Y	-	-	10 Piece(s)	378923
	R06.2M	Jet black, matt	powd-c	Y	-	-	10 Piece(s)	378920
	R06.2	Jet black	powd-c	Y	-	-	10 Piece(s)	385215
	R07.2	Traffic white	powd-c	Y	-	-	10 Piece(s)	378922
	R07.1	Pure white	powd-c	Y	-	-	10 Piece(s)	378921
	SF	Special colour	wet p powd-c	Y	-	-	10 Piece(s)	378924
R00.0	Uncoated	-	-	N	-	-	10 Piece(s)	238716

Accessories for geared-handles → *from page 104.*

Fork for geared-handle → *from page 104*, other fork lengths are available upon request.

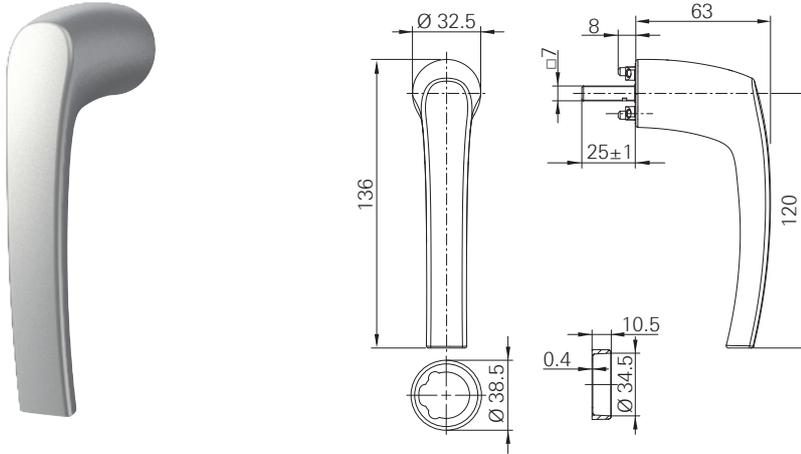


#### INFO

The uncoated handle is not supplied assembled.



### 3.1.8 Without escutcheon



#### Product description

- Basic handle without additional functions
- Can be optionally combined with colour-coordinated ring escutcheon
- Concealed screw fixing
- 90° lock-in position

#### Scope of delivery

- 1 handle
- 2 fixing screws
- 1 transport safety device

25	R01.5	Silver	powd-c	N	2	M4x12.5	10 Piece(s)	377908	
	R01.5M	Matt silver	powd-c	N	2	M4x12.5	10 Piece(s)	2037024	
	R03.4	Stainless-steel design	met p	N	2	M4x12.5	10 Piece(s)	619288	
	R05.4	Dark bronze	anod.	N	2	M4x12.5	10 Piece(s)	377912	
	R06.2M	Jet black, matt	powd-c	N	2	M4x12.5	10 Piece(s)	377909	
	R07.1	Pure white	powd-c	N	2	M4x12.5	10 Piece(s)	377910	
	R07.2	Traffic white	powd-c	N	2	M4x12.5	10 Piece(s)	377911	
	SF	Special colour	wet p powd-c	N	2	M4x12.5	10 Piece(s)	377913	

Accessories for handle without escutcheon → *from page 107.*

### 3.1.9 Without escutcheon – set



#### Product description

- Basic handle without additional functions
- Concealed screw fixing
- 90° lock-in position
- Aluminium ring escutcheon
- Mounting plate for attaching handles without escutcheons to aluminium profiles

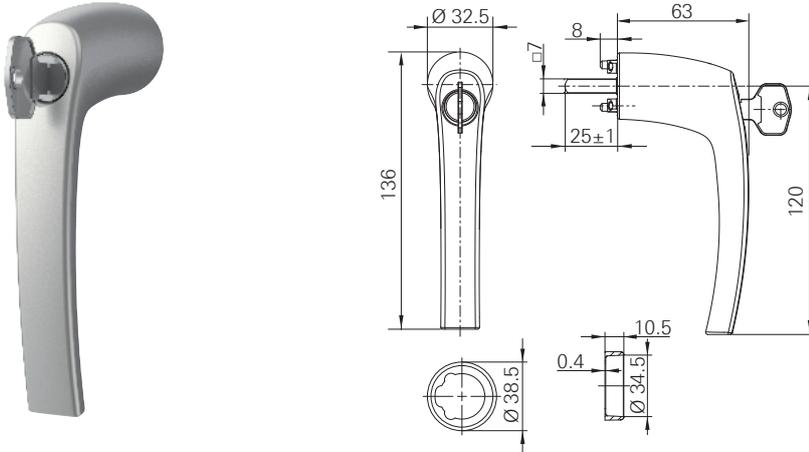
#### Scope of delivery

- 1 handle
- 2 fixing screws
- 1 transport safety device
- 1 ring
- 1 mounting plate

						<b>N<sup>o</sup></b>
R01.5	25	Silver	anod.	N	10 Piece(s)	857302
R01.5M		Matt silver	powd-c	N	10 Piece(s)	2037035
R05.4		Dark bronze	anod.	N	10 Piece(s)	857303
R06.2M		Jet black, matt	powd-c	N	10 Piece(s)	857304
R07.2		Traffic white	powd-c	N	10 Piece(s)	857315



### 3.1.10 Without escutcheon – lockable 40 Nm



#### Product description

- Lockable handle with tested torque 40 Nm
- Closure: rotary cylinder with reversible key
- Can be operated when the handle is unlocked
- 90° lock-in position

#### Scope of delivery

- 1 handle
- 1 key
- 2 fixing screws
- 1 transport safety device

25	R01.5	Silver	powd-c	N	2	M4x12.5	10 Piece(s)	377914
	R01.5M	Matt silver	powd-c	N	2	M4x12.5	10 Piece(s)	2037026
	R03.4	Stainless-steel design	anod.	N	2	M4x12.5	10 Piece(s)	619289
	R05.4	Dark bronze	anod.	N	2	M4x12.5	10 Piece(s)	377918
	R06.2	Jet black	powd-c	N	2	M4x12.5	10 Piece(s)	377915
	R07.2	Traffic white	powd-c	N	2	M4x12.5	10 Piece(s)	377917
	SF	Special colour	wet p powd-c	N	2	M4x12.5	10 Piece(s)	377919

Accessories for handle without escutcheon → *from page 107.*

### 3.1.11 Without escutcheon – set – lockable 40 Nm



#### Product description

- Lockable handle with tested torque 40 Nm
- Closure: rotary cylinder with reversible key
- Can be operated when the handle is unlocked
- 90° lock-in position
- Aluminium ring escutcheon
- Mounting plate for attaching handles without escutcheons to aluminium profiles

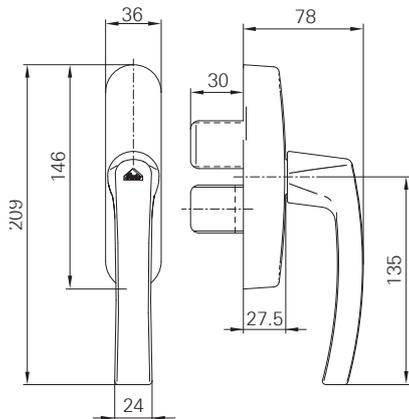
#### Scope of delivery

- 1 handle
- 2 fixing screws
- 1 key
- 1 transport safety device
- 1 ring
- 1 mounting plate

25	R01.5	Silver	N	anod.	10 Piece(s)	857317
	R01.5M	Matt silver	N	powd-c	10 Piece(s)	2037036
	R05.4	Dark bronze	N	anod.	10 Piece(s)	857320
	R06.2M	Jet black, matt	N	powd-c	10 Piece(s)	857318
	R07.2	Traffic white	N	powd-c	10 Piece(s)	857319



### 3.1.12 Reverse-action espagnolette



#### Product description

- Reverse-action espagnolette without additional functions
- 90° lock-in position

#### Scope of delivery

- 1 handle with reverse-action espagnolette

30	R01.5	Silver	powd-c	Y	-	-	10 Piece(s)	378925	
	R01.5M	Matt silver	powd-c	Y	-	-	10 Piece(s)	2036748	
	R03.4	Stainless-steel design	Nickel-plated	Y	-	-	10 Piece(s)	457115	
	R05.4	Dark bronze	powd-c	Y	-	-	10 Piece(s)	378929	
	R06.2	Jet black	powd-c	Y	-	-	10 Piece(s)	385217	
	R06.2M	Jet black, matt	powd-c	Y	-	-	10 Piece(s)	378926	
	R07.2	Traffic white	powd-c	Y	-	-	10 Piece(s)	378928	
	SF	Special colour	wet p powd-c	Y	-	-	10 Piece(s)	378930	
R00.0	Uncoated	-	N	-	-	10 Piece(s)	238742		

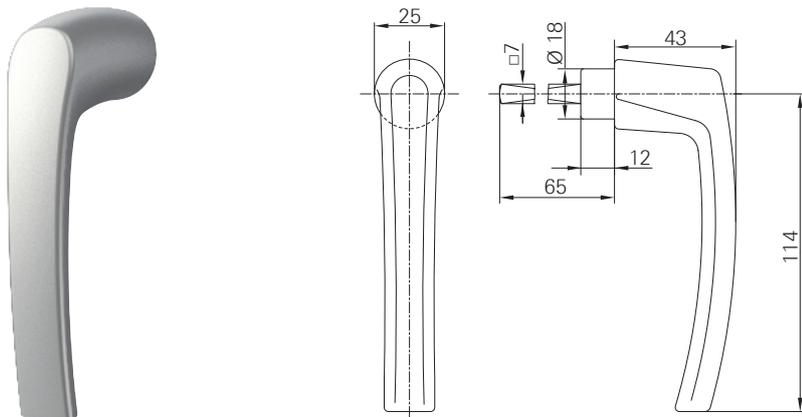
Compatible connector set for reverse-action espagnolette → *from page 109*



#### INFO

The uncoated handle is not supplied assembled.

### 3.1.13 Service handle



#### Product description

- Service handle without additional functions

#### Scope of delivery

- 1 handle
- For fixing screws, see table



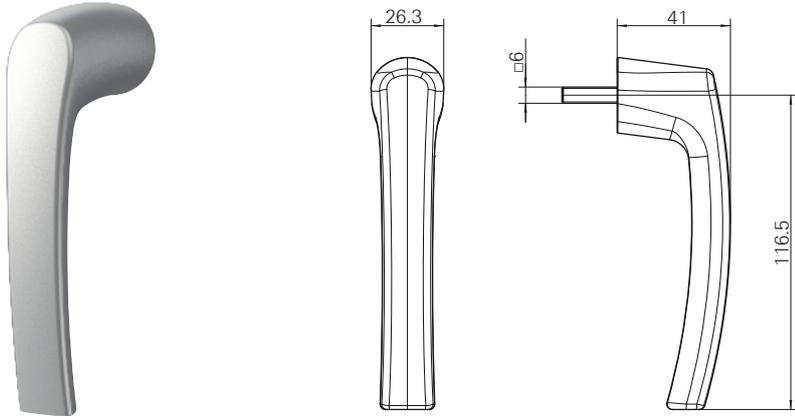
#### INFO

Escutcheon for service handle for use with Roto Line → *from page 71.*

								<b>Nº</b>
65	R07.2	Traffic white	powd-c	N	-	-	30 Piece(s)	257628



### 3.1.14 Service handle – for service gear-handle



#### Product description

- Service handle without additional functions

#### Scope of delivery

- 1 handle



#### INFO

A service gear-handle is required for use with Roto Line. → *from page 110*

20	R01.5M	Matt silver	powd-c	N	-	-	10 Piece(s)	2036983

## 3.1.15 Accessories

### 3.1.15.1 Geared-handle

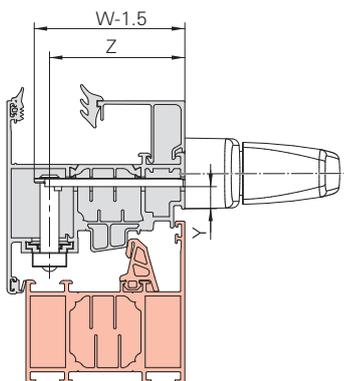
#### 3.1.15.1.1 Fork



#### INFO

Can be used with all Roto Line geared-handles.

#### Geared-handle

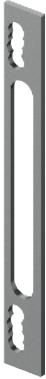


	W (length 1) / Y (length 2)
	Z (minimum)
	Z (maximum)

						Nº
Fork 1	19 / 10	8	12	100 Piece(s)	490240	
Fork 2	32 / 10	21	25	100 Piece(s)	482309	
Fork 3	37 / 10	26	30	100 Piece(s)	482310	
Fork 4	37 / 4	26	30	100 Piece(s)	482311	
Fork 5	46 / 10	35	39	100 Piece(s)	482312	
Fork 6	46 / 4	35	39	100 Piece(s)	482313	
Fork 7	50 / 10	39	43	100 Piece(s)	482314	
Fork 8	53 / 10	42	46	100 Piece(s)	482315	
Fork 9	53 / 4	42	46	100 Piece(s)	482316	
Fork 10	55 / 10	44	48	100 Piece(s)	482317	
Fork 11	60 / 10	49	53	100 Piece(s)	482318	
Fork 12	67 / 10	56	60	100 Piece(s)	490611	



### 3.1.15.1.2 Individual component



#### Product description

- Espagnolette support for mounting geared-handles
- Optional use for thin-walled sash profiles

#### Scope of delivery

- 1 espagnolette support

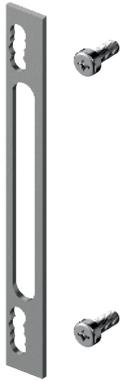


#### INFO

Can be used for all Roto Line geared-handles.

				<b>Nº</b>
Espagnolette support	For Roto Line AL geared-handle	13.5	100 Piece(s)	331937

### 3.1.15.1.3 Set (individual component with screws)



#### Product description

- Espagnolette support for mounting geared-handles
- Optional use for thin-walled sash profiles

#### Scope of delivery

- 1 espagnolette support
- 2 fixing screws



#### INFO

Can be used for all Roto Line geared-handles.

AL espagnolette support set	For Roto Line AL geared-handle	2	M5x12	10 Piece(s)	728853



### 3.1.15.2 Handle without escutcheon

#### 3.1.15.2.1 Ring for handle without escutcheon



##### Product description

- Aluminium ring escutcheon
- In combination with window handles without escutcheon
  - 3.1.8 "Without escutcheon" from page 97
  - 3.1.10 "Without escutcheon – lockable 40 Nm" from page 99
- Colour-coordinated to match the Roto window handles

##### Scope of delivery

- 1 ring

				N <sup>o</sup>
R01.5	Silver	powd-c	10 Piece(s)	377979
R01.5M	Matt silver	powd-c	10 Piece(s)	2037028
R03.4	Stainless-steel design	anod.	10 Piece(s)	619290
R05.4	Dark bronze	anod.	10 Piece(s)	377983
R06.2M	Jet black, matt	powd-c	10 Piece(s)	377980
R07.1	Pure white	powd-c	10 Piece(s)	377981
R07.2	Traffic white	powd-c	10 Piece(s)	377982
SF	Special colour	wet p powd-c	10 Piece(s)	377984

#### 3.1.15.2.2 Mounting plate for handle without escutcheon



##### Product description

- Mounting plate for attaching handles without escutcheons to aluminium profiles

##### Scope of delivery

- 1 mounting plate

					N <sup>o</sup>
Mounting plate for handle without escutcheon	–	–	–	10 Piece(s)	378134

### 3.1.15.2.3 Detachable key



#### Product description

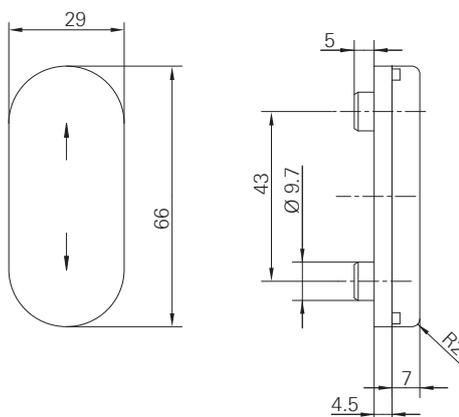
- Removal tool for the transport safety device of the handle without escutcheon
- In conjunction with Roto Line handle without escutcheon
  - 3.1.8 "Without escutcheon" from page 97
  - 3.1.10 "Without escutcheon – lockable 40 Nm" from page 99

#### Scope of delivery

- 1 key

					<b>Nº</b>
Release key for handle without escutcheon	-	-	-	10 Piece(s)	377995

### 3.1.15.3 Escutcheon for service handle



#### Product description

- Handle hole cover escutcheon with vertically sliding cover
- In conjunction with Roto Line service handle → *from page 102.*

#### Scope of delivery

- 1 escutcheon

				<b>Nº</b>
R01.1	Natural silver	anod.	20 Piece(s)	228100
R01.2	Nickel silver	anod.	20 Piece(s)	228101
R01.3	Titanium	anod.	20 Piece(s)	228010
R03.1	Brass matt	anod.	20 Piece(s)	228102
R04.1	Grey brown	powd-c	20 Piece(s)	228012
R05.3	Medium bronze	anod.	20 Piece(s)	228103
R05.5	Bronze	anod.	20 Piece(s)	228104
R07.2	Traffic white	powd-c	20 Piece(s)	228014



### 3.1.15.4 Connector set for reverse-action espagnolette



#### Product description

- Connector set for attaching reverse-action espagnolettes
- Connecting rod is mounted by 6 mm coupling point

#### Scope of delivery

- 1 connector for Roto Line reverse-action espagnolette, top
- 1 connector for Roto Line reverse-action espagnolette, bottom
- 2 fixing screws

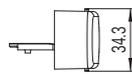
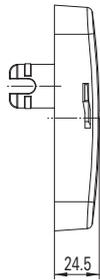
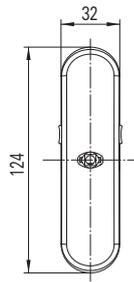


#### INFO

All Roto Line reverse-action espagnolettes can be used → *from page 101.*

Connector set for reverse-action espagnolette	Coupling point, 6 mm	2	M5x12	10 Piece(s)	212325

### 3.1.15.5 Service gear-handle



#### Product description

- Service gear-handle without additional functions
- 90° lock-in position

#### Scope of delivery

- 1 service gear-handle
- without fixing screws



#### INFO

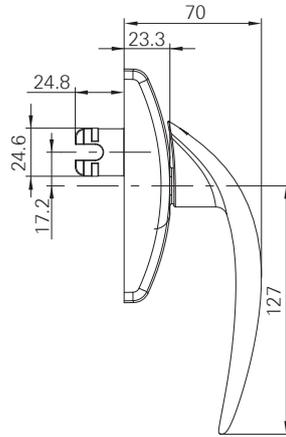
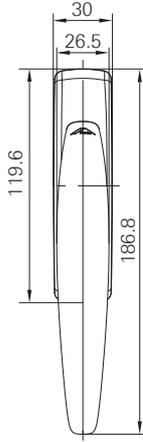
In conjunction with Roto Line service handle → *from page 103*

								Nº
26	R01.5	Silver	powd-c	N	-	-	10 Piece(s)	570459
	R01.5M	Matt silver	powd-c	N	-	-	10 Piece(s)	2036948
	R05.4	Dark bronze	powd-c	N	-	-	10 Piece(s)	570463
	R06.2	Jet black	powd-c	N	-	-	10 Piece(s)	570462
	R07.2	Traffic white	powd-c	N	-	-	10 Piece(s)	570460
	SF	Special colour	wet p powd-c	N	-	-	10 Piece(s)	570464
	R00.0	Uncoated	-	N	-	-	10 Piece(s)	570461



## 3.2 Roto Freestyle

### 3.2.1 Geared-handle



#### Product description

- Basic handle without additional functions for AL 300
- 90° lock-in position

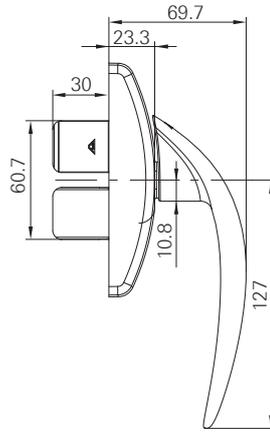
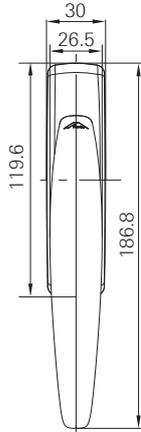
#### Scope of delivery

- 1 handle with geared-handle

								
26	R01.1	Natural silver	powd-c	Y	-	-	10 Piece(s)	572766
	R01.5	Silver	powd-c	Y	-	-	10 Piece(s)	486161
	R03.3	Gold	Nickel-plated	N	-	-	10 Piece(s)	486539
	R05.4	Dark bronze	powd-c	Y	-	-	10 Piece(s)	490169
	R06.2	Jet black	powd-c	Y	-	-	10 Piece(s)	486162
	R07.1	Pure white	powd-c	Y	-	-	10 Piece(s)	566662
	R07.2	Traffic white	powd-c	Y	-	-	10 Piece(s)	486163
	SF	Special colour	wet p powd-c	N	-	-	10 Piece(s)	486165
R00.0	Uncoated	-	Y	-	-	10 Piece(s)	486164	

Accessories for geared-handles → *from page 104.*

### 3.2.2 Reverse-action espagnolette



#### Product description

- Reverse-action espagnolette without additional functions
- 90° lock-in position

#### Scope of delivery

- 1 handle with reverse-action espagnolette

30	R01.5	Silver	powd-c	N	-	-	10 Piece(s)	486277
	R06.2	Jet black	powd-c	N	-	-	10 Piece(s)	490162
	R07.2	Traffic white	powd-c	N	-	-	10 Piece(s)	490163
	R00.0	Uncoated	-	N	-	-	10 Piece(s)	490164

Compatible connector set for reverse-action espagnolette → *from page 109*



## 3.2.3 Accessories

### 3.2.3.1 Geared-handle

#### 3.2.3.1.1 Fork

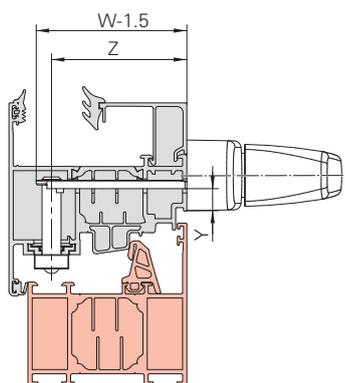


#### INFO

Can be used with all Roto Line geared-handles.



#### Geared-handle



	W (length 1) / Y (length 2)
	Z (minimum)
	Z (maximum)

					Nº
Fork 1	19 / 10	8	12	100 Piece(s)	490240
Fork 2	32 / 10	21	25	100 Piece(s)	482309
Fork 3	37 / 10	26	30	100 Piece(s)	482310
Fork 4	37 / 4	26	30	100 Piece(s)	482311
Fork 5	46 / 10	35	39	100 Piece(s)	482312
Fork 6	46 / 4	35	39	100 Piece(s)	482313
Fork 7	50 / 10	39	43	100 Piece(s)	482314
Fork 8	53 / 10	42	46	100 Piece(s)	482315
Fork 9	53 / 4	42	46	100 Piece(s)	482316
Fork 10	55 / 10	44	48	100 Piece(s)	482317
Fork 11	60 / 10	49	53	100 Piece(s)	482318
Fork 12	67 / 10	56	60	100 Piece(s)	490611

### 3.2.3.1.2 Individual component



#### Product description

- Espagnolette support for mounting geared-handles
- Optional use for thin-walled sash profiles

#### Scope of delivery

- 1 espagnolette support



#### INFO

Can be used for all Roto Line geared-handles.

				<b>Nº</b>
Espagnolette support	For Roto Line AL geared-handle	13.5	100 Piece(s)	331937



### 3.2.3.1.3 T connector set



#### Product description

- Connector set for attaching geared-handles
- Predetermined breaking point to enable the installation of two main corner drives on the central locking system

#### Scope of delivery

- 1 T connector
- 2 fixing screws



#### INFO

All Roto Line geared-handles can be used.

→ 3.1.5 "Geared-handle" from page 94

→ 3.1.6 "Geared-handle – lockable 100 Nm" from page 95

AL T connector set	Coupling point, 10 mm	2	M5x12	10 Piece(s)	728981

### 3.2.3.2 Connector set for reverse-action espagnolette



#### Product description

- Connector set for attaching reverse-action espagnolettes
- Connecting rod is mounted by 6 mm coupling point

#### Scope of delivery

- 1 connector for Roto Line reverse-action espagnolette, top
- 1 connector for Roto Line reverse-action espagnolette, bottom
- 2 fixing screws



#### INFO

All Roto Line reverse-action espagnolettes can be used → from page 101.

Connector set for reverse-action espagnolette	Coupling point, 6 mm	2	M5x12	10 Piece(s)	212325

## Roto Outward Opening







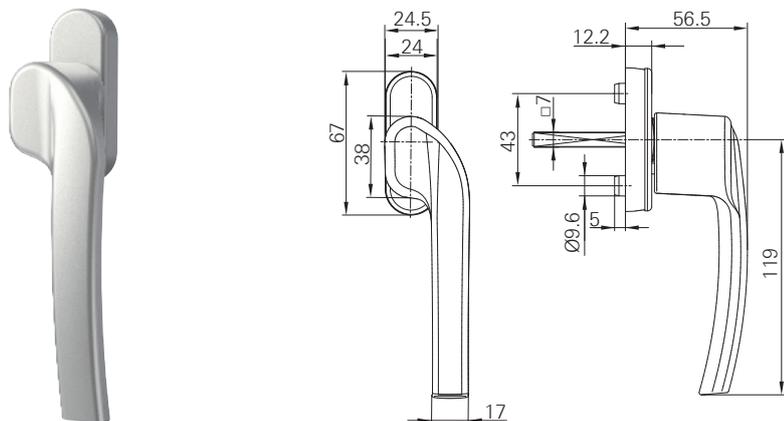
**Roto Line**

Cranked	120
Push-to-open (MK 2)	121
Lockable 40 Nm – cranked	122
Lockable – cranked (MK 2)	123
Lockable (MK3)	124
Geared-handle	125
Geared-handle – cranked	126
Geared-handle – lockable 100 Nm	127
Changeover espagnolette	128
Accessories	129

## 4 Roto Outward Opening

### 4.1 Roto Line

#### 4.1.1 Cranked



DIN right-hand version is shown; DIN left-hand version is a mirror image



#### Product description

- Cranked handle without additional functions
- 90° lock-in position
- Suitable for all frame components

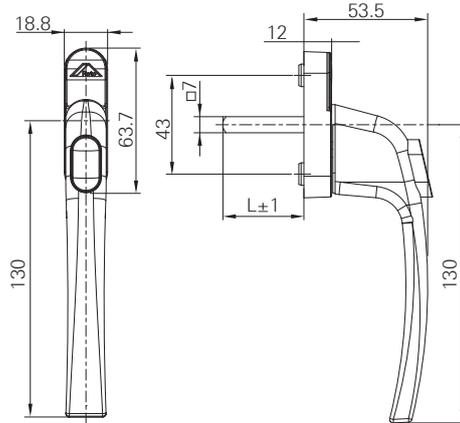
#### Scope of delivery

- 1 handle

									Nº
-	R07.1	Pure white	powd-c	N	-	-	15 Piece(s)	Left	563938
			powd-c	N	-	-	15 Piece(s)	Right	563939
	R06.4M	Black, matt	powd-c	N	-	-	15 Piece(s)	Left	570510
			powd-c	N	-	-	15 Piece(s)	Right	570511
43	R01.1	Natural silver	anod.	N	-	-	15 Piece(s)	Left	375318
			anod.	N	-	-	15 Piece(s)	Right	375811
	R01.3	Titanium	anod.	N	-	-	15 Piece(s)	Left	375319
			anod.	N	-	-	15 Piece(s)	Right	375814
	R07.2	Traffic white	powd-c	N	-	-	15 Piece(s)	Left	375320
			powd-c	N	-	-	15 Piece(s)	Right	375816
	R07.1	Pure white	powd-c	N	-	-	15 Piece(s)	Left	599455
			powd-c	N	-	-	15 Piece(s)	Right	599456



### 4.1.2 Push-to-open (MK 2)



DIN right-hand version is shown; DIN left-hand version is a mirror image



#### Product description

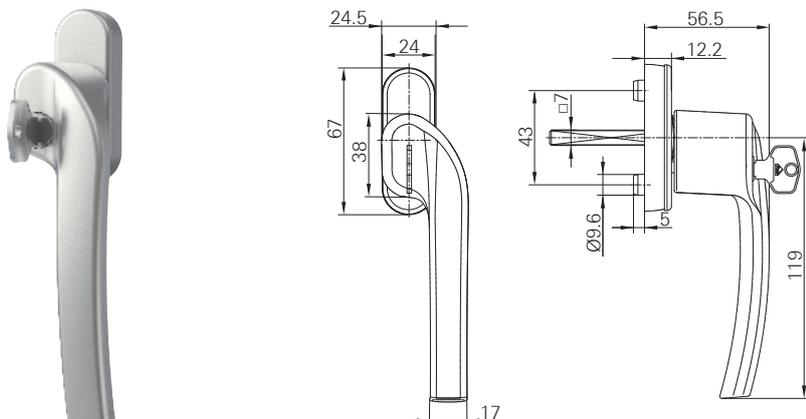
- Handle with push-to-open mechanism
- 90° lock-in position
- Ten-year performance warranty

#### Scope of delivery

- 1 handle

30 mm	R07.2	Traffic white	powd-c	Y	-	-	40 Piece(s)	258401
43 mm	R07.2	Traffic white	powd-c	Y	-	-	40 Piece(s)	280995

### 4.1.3 Lockable 40 Nm – cranked



DIN right-hand version is shown; DIN left-hand version is a mirror image



#### Product description

- Lockable handle with tested torque 40 Nm
- Closure: push cylinder with reversible key
- Simple and quick locking by pressing the cylinder
- Meets the requirements of SKG
- 90° lock-in position
- Ten-year performance warranty

#### Scope of delivery

- 1 handle
- 1 key



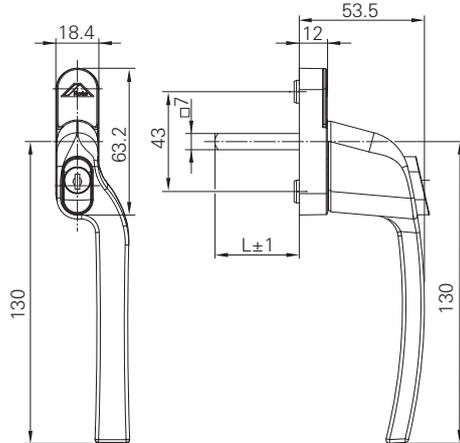
#### INFO

Further information on lockable handles → *from page 21.*

43	R01.1	Natural silver	anod.	N	SKG	–	–	40 Piece(s)	Left	375322
			anod.	Y	SKG	–	–	40 Piece(s)	Right	375819
	R01.3	Titanium	anod.	N	SKG	–	–	40 Piece(s)	Left	375325
			anod.	N	SKG	–	–	40 Piece(s)	Right	375820
	R07.2	Traffic white	powd-c	N	SKG	–	–	40 Piece(s)	Left	375330
			powd-c	N	SKG	–	–	40 Piece(s)	Right	375821



### 4.1.4 Lockable – cranked (MK 2)



DIN right-hand version is shown; DIN left-hand version is a mirror image



#### Product description

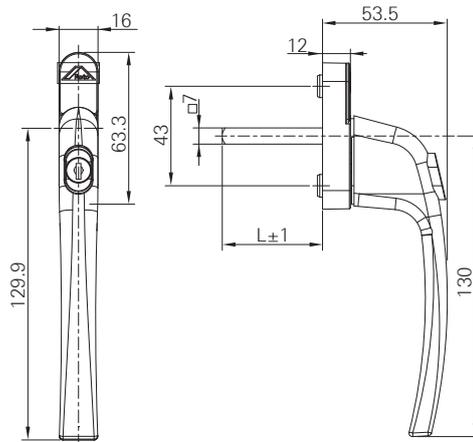
- Cranked handle, lockable
- 90° lock-in position

#### Scope of delivery

- 1 handle
- 1 key

43	R01.1	Natural silver	Y	anod.	-	-	Left	40 Piece(s)	345790
			Y	anod.	-	-	Right	40 Piece(s)	345792
50	R01.4	Chromium	Y	anod.	-	-	Left	40 Piece(s)	2006173
			Y	anod.	-	-	Right	40 Piece(s)	2006174
	R01.4M	Matt chrome	Y	anod.	-	-	Left	40 Piece(s)	2006177
			Y	anod.	-	-	Right	40 Piece(s)	2006178
	R07.2	Traffic white	Y	anod.	-	-	Left	40 Piece(s)	2006175
			Y	anod.	-	-	Right	40 Piece(s)	2006176

### 4.1.5 Lockable (MK3)



#### Product description

- Handle, lockable
- 90° lock-in position

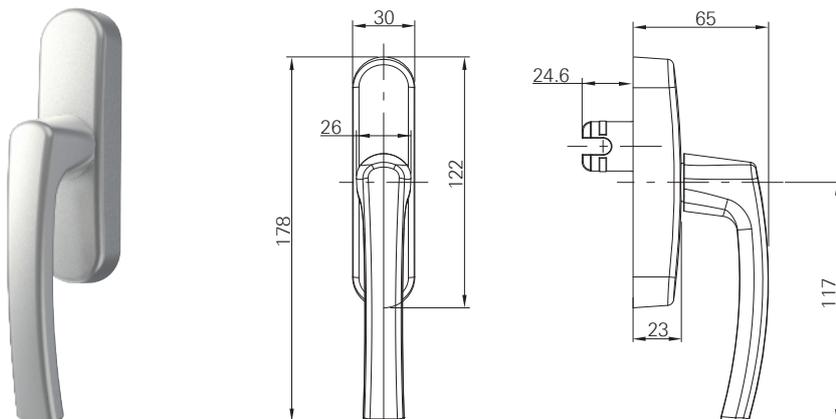
#### Scope of delivery

- 1 handle
- 1 key

								<b>Nº</b>
30	R07.2	Traffic white	powd-c	Y	-	-	40 Piece(s)	335285
43	R01.4	Chromium	anod.	Y	-	-	40 Piece(s)	355532
	R03.3	Gold	anod.	Y	-	-	40 Piece(s)	335288
	R07.2	Traffic white	powd-c	Y	-	-	40 Piece(s)	335284



### 4.1.6 Geared-handle



#### Product description

- Basic handle without additional functions
- 90° lock-in position

#### Scope of delivery

- 1 geared-handle with handle

26	R01.1	Natural silver	anod.	Y	-	-	10 Piece(s)	238671
	R01.5	Silver	powd-c	Y	-	-	10 Piece(s)	377474
	R01.5	Silver	powd-c	N	-	-	10 Piece(s)	384503
	R01.5M	Matt silver	powd-c	Y	-	-	10 Piece(s)	2036789
	R01.5M	Matt silver	powd-c	N	-	-	10 Piece(s)	2036790
	R05.4	Dark bronze	powd-c	Y	-	-	10 Piece(s)	377478
	R05.4	Dark bronze	powd-c	N	-	-	10 Piece(s)	384504
	R06.2	Jet black	powd-c	Y	-	-	10 Piece(s)	385190
	R06.2M	Jet black, matt	powd-c	Y	-	-	10 Piece(s)	377475
	R06.2M	Jet black, matt	powd-c	N	-	-	10 Piece(s)	384505
	R07.1	Pure white	powd-c	Y	-	-	10 Piece(s)	377476
	R07.1	Pure white	powd-c	N	-	-	10 Piece(s)	384506
	R07.2	Traffic white	powd-c	Y	-	-	10 Piece(s)	377477
	R07.2	Traffic white	powd-c	N	-	-	10 Piece(s)	384507
	R03.3	Gold	met p	N	-	-	10 Piece(s)	457093
	R03.4	Stainless-steel design	met p	Y	-	-	10 Piece(s)	335880
	SF	Special colour	wet p powd-c	Y	-	-	10 Piece(s)	377479
	SF	Special colour	wet p powd-c	N	-	-	10 Piece(s)	384508
R00.0	Uncoated	-	N	-	-	10 Piece(s)	632981	

Fork for geared-handle → *from page 129*, other fork lengths are available upon request.

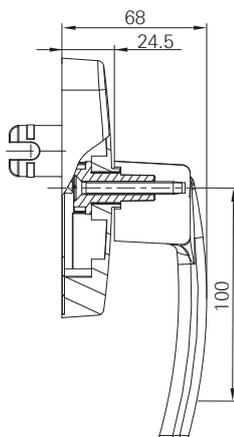
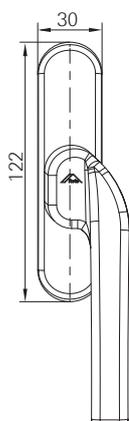
Accessories for geared-handles → *from page 129*.



#### INFO

The uncoated handle is not supplied assembled.

### 4.1.7 Geared-handle – cranked



DIN right-hand version is shown; DIN left-hand version is a mirror image



#### Product description

- Cranked handle without additional functions
- 90° lock-in position

#### Scope of delivery

- 1 handle

26	R01.5	Silver	powd-c	Y	-	-	Left	10 Piece(s)	477855
			powd-c	Y	-	-	Right	10 Piece(s)	477856
	R06.2	Jet black	powd-c	Y	-	-	Left	10 Piece(s)	477857
			powd-c	Y	-	-	Right	10 Piece(s)	477858
	R07.2	Traffic white	powd-c	Y	-	-	Left	10 Piece(s)	477543
			powd-c	Y	-	-	Right	10 Piece(s)	477544
R00.0	Uncoated	-	N	-	-	Left	10 Piece(s)	477859	
32	R01.5	Silver	powd-c	Y	-	-	Left	10 Piece(s)	493977
	R06.2	Jet black	powd-c	Y	-	-	Right	10 Piece(s)	492893

Fork for Roto Line geared-handle → *from page 129*, other fork lengths are available upon request.

Compatible T connectors → *from page 129*.

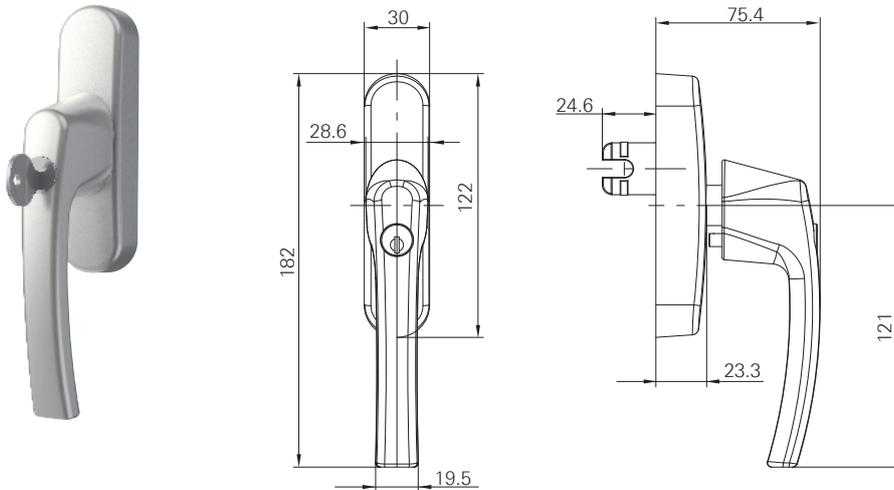


#### INFO

The uncoated handle is not supplied assembled.



### 4.1.8 Geared-handle – lockable 100 Nm



#### Product description

- Lockable handle with tested torque 100 Nm
- Closure: cylinder with reversible key
- 90° lock-in position

#### Scope of delivery

- 1 geared-handle with handle
- 2 keys



#### INFO

Further information on lockable handles → *from page 21.*

								Nº
26	Silver	R01.5	powd-c	Y	-	-	10 Piece(s)	378843
	Matt silver	R01.5M	powd-c	Y	-	-	10 Piece(s)	2036937
	Matt silver	R01.5M	powd-c	N	-	-	10 Piece(s)	2036938
	Stainless-steel design	R03.4	Nickel-plated	Y	-	-	10 Piece(s)	335881
	Dark bronze	R05.4	powd-c	Y	-	-	10 Piece(s)	378917
	Jet black, matt	R06.2M	powd-c	Y	-	-	10 Piece(s)	378844
	Jet black	R06.2	powd-c	Y	-	-	10 Piece(s)	385193
	Pure white	R07.1	powd-c	Y	-	-	10 Piece(s)	378915
	Pure white	R07.1	powd-c	N	-	-	10 Piece(s)	384521
	Traffic white	R07.2	powd-c	Y	-	-	10 Piece(s)	378916
	Special colour	SF	wet p powd-c	Y	-	-	10 Piece(s)	378918
	Special colour	SF	wet p powd-c	N	-	-	10 Piece(s)	384523
	Uncoated	R00.0	-	N	-	-	10 Piece(s)	238700

Fork for geared-handle → *from page 129*, other fork lengths are available upon request.

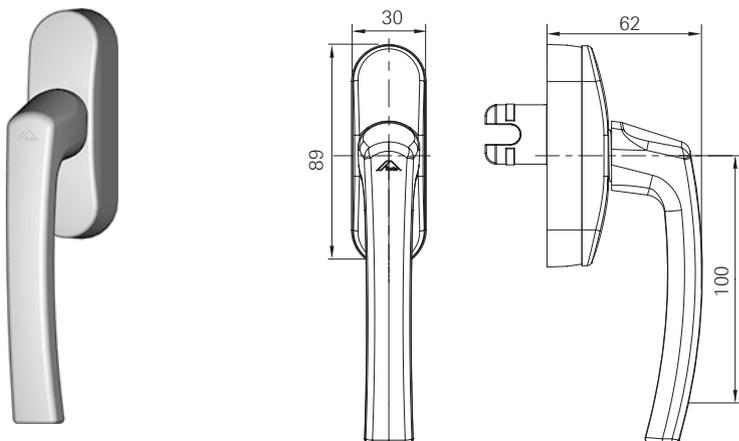
Accessories for geared-handles → *from page 129.*



#### INFO

The uncoated handle is not supplied assembled.

### 4.1.9 Changeover espagnolette



#### Product description

- Basic handle without additional functions
- Can be screwed on from the outside
- 90° lock-in position

#### Scope of delivery

- 1 handle with changeover espagnolette

					<b>N<sup>o</sup></b>
26	R01.5	Silver	Y	10 Piece(s)	491336
	R04.1	Grey brown	Y	10 Piece(s)	491337
	R06.2	Jet black	Y	10 Piece(s)	491338
	R07.2	Traffic white	Y	10 Piece(s)	491335
	R00.0	Untreated	N	10 Piece(s)	491339

Fork for Roto Line changeover espagnolette → *from page 129*, other fork lengths are available upon request.

Compatible T connectors → *from page 129*.



## 4.1.10 Accessories

### 4.1.10.1 Geared-handle

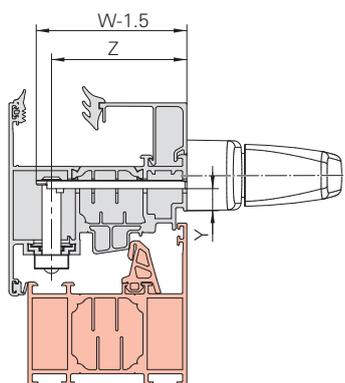
#### 4.1.10.1.1 Fork



#### INFO

Can be used with all Roto Line geared-handles.

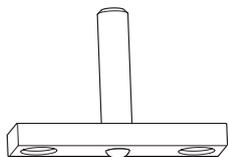
#### Geared-handle



	W (length 1) / Y (length 2)
	Z (minimum)
	Z (maximum)

					Nº
Fork 1	19 / 10	8	12	100 Piece(s)	490240
Fork 2	32 / 10	21	25	100 Piece(s)	482309
Fork 3	37 / 10	26	30	100 Piece(s)	482310
Fork 4	37 / 4	26	30	100 Piece(s)	482311
Fork 5	46 / 10	35	39	100 Piece(s)	482312
Fork 6	46 / 4	35	39	100 Piece(s)	482313
Fork 7	50 / 10	39	43	100 Piece(s)	482314
Fork 8	53 / 10	42	46	100 Piece(s)	482315
Fork 9	53 / 4	42	46	100 Piece(s)	482316
Fork 10	55 / 10	44	48	100 Piece(s)	482317
Fork 11	60 / 10	49	53	100 Piece(s)	482318
Fork 12	67 / 10	56	60	100 Piece(s)	490611

#### 4.1.10.1.2 T connectors



			Nº
	25	200 Piece(s)	739481
	32	200 Piece(s)	739478
	37	200 Piece(s)	739479
	47	200 Piece(s)	739480

#### 4.1.10.1.3 TH connector



		Nº
Coupling point, 10 mm	100 Piece(s)	482264

#### 4.1.10.1.4 Individual component



#### Product description

- Espagnolette support for mounting geared-handles
- Optional use for thin-walled sash profiles

#### Scope of delivery

- 1 espagnolette support



#### INFO

Can be used for all Roto Line geared-handles.

				Nº
Espagnolette support	For Roto Line AL geared-handle	13.5	100 Piece(s)	331937



#### 4.1.10.1.5 Set (individual component with screws)



#### Product description

- Espagnolette support for mounting geared-handles
- Optional use for thin-walled sash profiles

#### Scope of delivery

- 1 espagnolette support
- 2 fixing screws

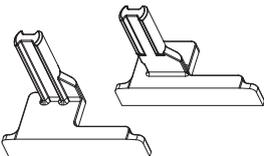


#### INFO

Can be used for all Roto Line geared-handles.

AL espagnolette support set	For Roto Line AL geared-handle	2	M5x12	10 Piece(s)	728853

#### 4.1.10.2 Fork for reverse-action espagnolette conversion set



Fork for reverse-action espagnolette conversion set	1 Piece(s)	524373



#### INFO

Cannot be used with screw-on geared-handle.

## Roto Patio Fold









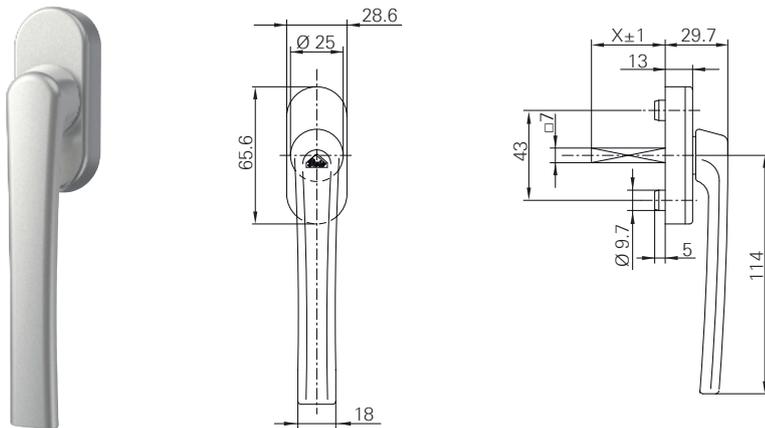
**Roto Line**

Flat handle	136
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Push-to-open	139
Lockable 40 Nm	141
Lockable 100 Nm	143
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Without escutcheon – lockable 40 Nm	151
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Handle set with escutcheons	153
Handle set with escutcheons – flat handle on the outside	155
Accessories	156

## 5 Roto Patio Fold

### 5.1 Roto Line

#### 5.1.1 Flat handle



#### Product description

- Basic handle without additional functions
- 90° lock-in position
- Ten-year performance warranty

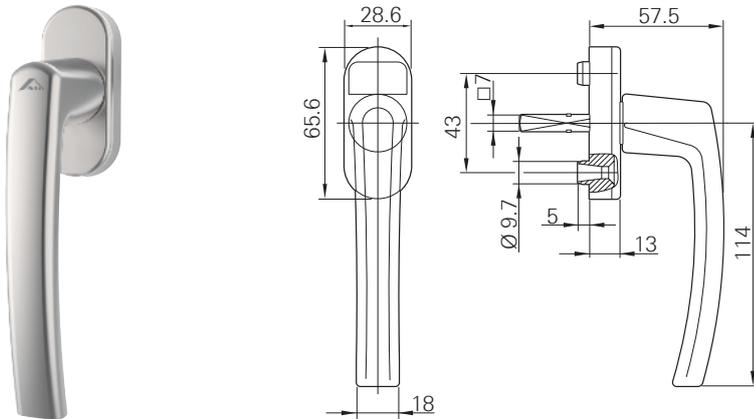
#### Scope of delivery

- 1 handle

35	R01.1	Natural silver	anod.	Y	-	-	20 Piece(s)	336112	
	R01.3	Titanium	anod.	Y	-	-	10 Piece(s)	485766	
	R03.1	Brass matt	anod.	Y	-	-	10 Piece(s)	485765	
	R04.1	Grey brown	powd-c	Y	-	-	10 Piece(s)	485764	
	R04.4	Black brown	powd-c	Y	-	-	10 Piece(s)	490462	
	R05.3	Medium bronze	anod.	Y	-	-	20 Piece(s)	336111	
	R06.2M	Jet black, matt	powd-c	Y	-	-	10 Piece(s)	794355	
R07.2	Traffic white	powd-c	Y	-	-	20 Piece(s)	336110		
55	R01.1	Natural silver	anod.	Y	-	-	10 Piece(s)	490560	
	R05.3	Medium bronze	anod.	Y	-	-	10 Piece(s)	490561	
	R07.2	Traffic white	powd-c	Y	-	-	10 Piece(s)	490562	



## 5.1.2 Standard



### Product description

- Basic handle without additional functions
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

### Scope of delivery

- 1 handle
- For fixing screws, see table



### INFO

A flush-encased gearbox is required for use in aluminium profiles .

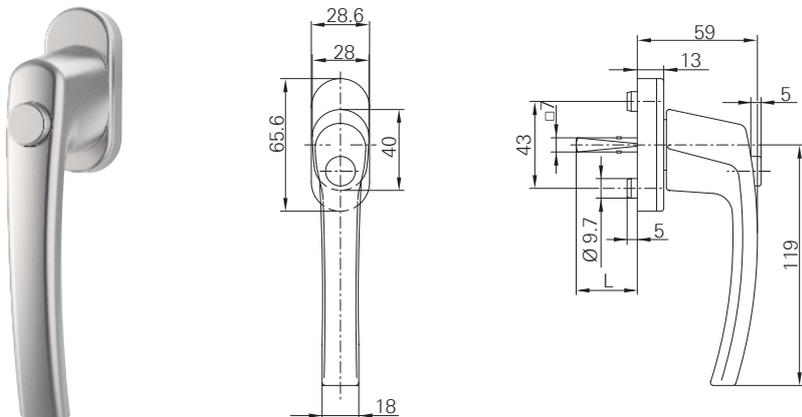
24	R01.1	Natural silver		-	anod.	Y	-	-	20 Piece(s)	262466
	R01.1	Natural silver		-	anod.	Y	2	M5x35	20 Piece(s)	799867
	R01.1	Natural silver		-	anod.	N	2	M5x35	20 Piece(s)	858981
	R01.3	Titanium		-	anod.	Y	-	-	20 Piece(s)	341748
	R06.2M	Jet black, matt		-	powd-c	Y	2	M5x30	20 Piece(s)	857277
	R06.2M	Jet black, matt		-	powd-c	Y	2	M5x35	20 Piece(s)	2033353
	R07.2	Traffic white		-	powd-c	Y	2	M5x35	20 Piece(s)	2043566
	R07.2	Traffic white		-	powd-c	N	2	M5x35	20 Piece(s)	858980
	SF	Special colour	Escutcheon: Jet black		powd-c	Y	2	M5x35	20 Piece(s)	788812
30	R01.1	Natural silver		-	anod.	Y	-	-	20 Piece(s)	227897
	R01.1	Natural silver		-	anod.	N	-	-	20 Piece(s)	228079
	R01.2	Nickel silver		-	anod.	Y	-	-	20 Piece(s)	227899
	R01.3	Titanium		-	anod.	Y	-	-	20 Piece(s)	227781
	R01.3	Titanium		-	anod.	N	2	M5x40	20 Piece(s)	339532
	R04.1	Grey brown		-	powd-c	N	2	M5x40	20 Piece(s)	482542
	R05.3	Medium bronze		-	anod.	Y	-	-	20 Piece(s)	227903
	R05.5	Bronze		-	anod.	Y	-	-	20 Piece(s)	227905
	R05.5	Bronze		-	anod.	N	-	-	20 Piece(s)	228088
	R07.2	Traffic white		-	powd-c	Y	-	-	20 Piece(s)	2033350
R07.2	Traffic white		-	powd-c	N	2	M5x40	20 Piece(s)	228176	
32	R01.1	Natural silver		-	anod.	N	2	M5x40	20 Piece(s)	618706
	R01.3	Titanium		-	anod.	N	2	M5x40	20 Piece(s)	618708
	R03.2	Brass, polished		-	anod.	N	-	-	20 Piece(s)	245628
	R05.3	Medium bronze		-	anod.	N	2	M5x40	20 Piece(s)	618707
	R07.2	Traffic white		-	powd-c	N	2	M5x40	20 Piece(s)	618709

**Roto Patio Fold**  
**Roto Line**  
Standard

									Nº
35	R01.1	Natural silver	-	anod.	Y	-	-	20 Piece(s)	2033336
	R01.1	Natural silver	-	anod.	N	2	M5x45	20 Piece(s)	2033337
	R01.2	Nickel silver	-	anod.	Y	-	-	20 Piece(s)	227909
	R01.2	Nickel silver	-	anod.	N	2	M5x45	20 Piece(s)	263704
	R01.3	Titanium	-	anod.	Y	-	-	20 Piece(s)	227796
	R01.3	Titanium	-	anod.	N	2	M5x45	20 Piece(s)	255369
	R03.1	Brass matt	-	anod.	Y	-	-	20 Piece(s)	227911
	R03.1	Brass matt	-	anod.	N	2	M5x45	20 Piece(s)	482544
	R03.2	Brass, polished	-	anod.	Y	-	-	20 Piece(s)	227801
	R04.1	Grey brown	-	powd-c	Y	-	-	20 Piece(s)	2043563
	R04.1	Grey brown	-	powd-c	N	2	M5x45	20 Piece(s)	256230
	R05.3	Medium bronze	-	anod.	Y	-	-	20 Piece(s)	227913
	R05.3	Medium bronze	-	anod.	N	2	M5x45	20 Piece(s)	348329
	R05.5	Bronze	-	anod.	Y	-	-	20 Piece(s)	227915
	R05.5	Bronze	-	anod.	N	-	-	20 Piece(s)	228098
	R06.2	Jet black	-	powd-c	Y	-	-	20 Piece(s)	2043562
	R07.1	Pure white	-	powd-c	Y	-	-	20 Piece(s)	2043564
	R07.2	Traffic white	-	powd-c	Y	2	M5x45	20 Piece(s)	2033352
R07.2	Traffic white	-	powd-c	N	2	M5x45	20 Piece(s)	2033351	
R07.3	Cream	-	powd-c	Y	-	-	20 Piece(s)	227810	
R07.3	Cream	-	powd-c	N	-	-	20 Piece(s)	341745	
37	R01.1	Natural silver	-	anod.	N	2	M5x45	20 Piece(s)	2008980
	R01.3	Titanium	-	anod.	N	2	M5x45	20 Piece(s)	384344
	R04.1	Grey brown	-	powd-c	N	2	M5x45	20 Piece(s)	858973
	R05.3	Medium bronze	-	anod.	N	2	M5x45	20 Piece(s)	618710
	R07.2	Traffic white	-	powd-c	N	2	M5x45	20 Piece(s)	2033371
40	R01.1	Natural silver	-	anod.	N	2	M5x50	20 Piece(s)	2033349
	R01.3	Titanium	-	anod.	Y	-	-	20 Piece(s)	262935
	R01.3	Titanium	-	anod.	N	2	M5x50	20 Piece(s)	330870
	R04.1	Grey brown	-	powd-c	N	2	M5x50	20 Piece(s)	330867
	R05.3	Medium bronze	-	anod.	N	-	-	20 Piece(s)	364502
	R06.2M	Jet black, matt	-	powd-c	N	-	-	20 Piece(s)	2043572
	R07.2	Traffic white	-	powd-c	N	2	M5x50	20 Piece(s)	2043569
	R07.3	Cream	-	powd-c	N	-	-	20 Piece(s)	349652
43	R01.1	Natural silver	-	anod.	Y	2	M5x50	20 Piece(s)	799870
	R01.1	Natural silver	-	anod.	N	2	M5x50	20 Piece(s)	594323
	R01.1	Natural silver	-	anod.	N	2	M5x55	20 Piece(s)	618711
	R01.2	Nickel silver	-	anod.	Y	-	-	20 Piece(s)	571693
	R01.2	Nickel silver	-	anod.	N	2	M5x50	20 Piece(s)	594324
	R01.3	Titanium	-	anod.	Y	-	-	20 Piece(s)	571694
	R01.3	Titanium	-	anod.	N	2	M5x50	20 Piece(s)	594325
	R01.3	Titanium	-	anod.	N	2	M5x55	20 Piece(s)	618713
	R03.1	Brass matt	-	anod.	Y	-	-	20 Piece(s)	572415
	R03.1	Brass matt	-	anod.	N	2	M5x50	20 Piece(s)	594326
	R03.2	Brass, polished	-	anod.	Y	-	-	20 Piece(s)	572420
	R04.1	Grey brown	-	powd-c	Y	-	-	20 Piece(s)	572416
	R04.1	Grey brown	-	powd-c	N	2	M5x50	20 Piece(s)	594327
	R05.3	Medium bronze	-	anod.	Y	-	-	20 Piece(s)	572417
	R05.3	Medium bronze	-	anod.	N	2	M5x50	20 Piece(s)	594328
	R05.3	Medium bronze	-	anod.	N	2	M5x55	20 Piece(s)	618712
	R05.5	Bronze	-	anod.	Y	-	-	20 Piece(s)	572418
	R05.5	Bronze	-	anod.	N	2	M5x50	20 Piece(s)	594329
	R07.2	Traffic white	-	powd-c	Y	-	-	20 Piece(s)	2043567
	R07.2	Traffic white	-	powd-c	N	2	M5x50	20 Piece(s)	594330
R07.2	Traffic white	-	powd-c	N	2	M5x55	20 Piece(s)	2043568	
45	R01.1	Natural silver	-	anod.	N	-	-	20 Piece(s)	347442
	R07.2	Traffic white	-	powd-c	N	2	M5x55	20 Piece(s)	256232



### 5.1.3 Push-to-open



#### Product description

- Handle with push-to-open mechanism
- The push function makes locking and unlocking possible
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

#### Scope of delivery

- 1 handle
- For fixing screws, see table



#### INFO

A flush-encased gearbox is required for use in aluminium profiles .

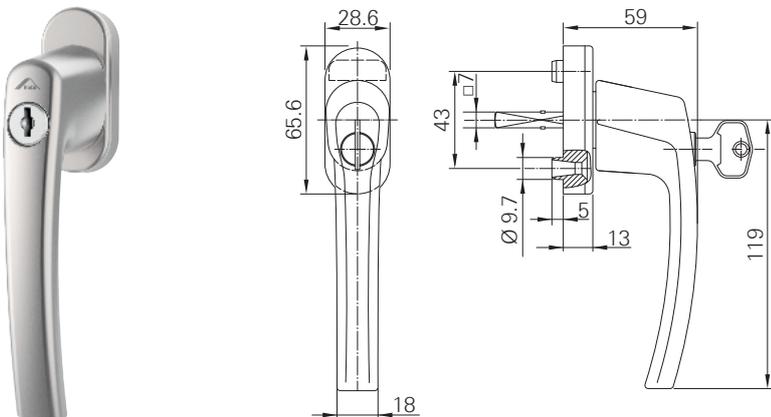
24	R01.1	Natural silver	anod.	N	2	M5x35	20 Piece(s)	858988	
	R07.2	Traffic white	powd-c	N	2	M5x35	20 Piece(s)	858987	
30	R01.1	Natural silver	anod.	N	–	–	15 Piece(s)	228135	
	R07.2	Traffic white	powd-c	N	–	–	15 Piece(s)	228049	
32	R01.1	Natural silver	anod.	N	2	M5x40	15 Piece(s)	618740	
	R01.3	Titanium	anod.	N	2	M5x40	15 Piece(s)	618742	
	R05.3	Medium bronze	anod.	N	2	M5x40	15 Piece(s)	618741	
	R07.2	Traffic white	powd-c	N	2	M5x40	15 Piece(s)	618807	
35	R01.1	Natural silver	anod.	N	–	–	15 Piece(s)	228140	
	R01.3	Titanium	anod.	N	–	–	15 Piece(s)	228050	
	R03.1	Brass matt	anod.	N	–	–	15 Piece(s)	228142	
	R04.1	Grey brown	powd-c	N	–	–	15 Piece(s)	228052	
	R05.3	Medium bronze	anod.	N	–	–	15 Piece(s)	228143	
	R05.5	Bronze	anod.	N	–	–	15 Piece(s)	228144	
	R07.2	Traffic white	powd-c	N	–	–	15 Piece(s)	228054	

**Roto Patio Fold**  
**Roto Line**  
 Push-to-open

								Nº
37	R01.1	Natural silver	anod.	N	2	M5x45	15 Piece(s)	384435
			anod.	Y	2	M5x45	15 Piece(s)	2004427
	R01.3	Titanium	anod.	N	2	M5x45	15 Piece(s)	385079
			anod.	Y	2	M5x45	15 Piece(s)	2004430
	R03.1	Brass matt	anod.	Y	2	M5x45	15 Piece(s)	2004428
	R04.1	Grey brown	powd-c	N	2	M5x45	20 Piece(s)	858977
	R05.3	Medium bronze	anod.	N	2	M5x45	15 Piece(s)	618743
	R05.5	Bronze	anod.	Y	2	M5x45	15 Piece(s)	2004429
	R06.2M	Jet black, matt	powd-c	Y	2	M5x45	15 Piece(s)	2004426
	R07.2	Traffic white	powd-c	N	2	M5x45	15 Piece(s)	384437
			powd-c	Y	2	M5x45	15 Piece(s)	2004425
	R07.3	Cream	powd-c	N	2	M5x45	20 Piece(s)	858976
powd-c			Y	2	M5x45	15 Piece(s)	2004424	
43	R01.1	Natural silver	anod.	N	2	M5x50	15 Piece(s)	598416
			powd-c	Y	2	M5x50	15 Piece(s)	2004435
			anod.	N	2	M5x55	15 Piece(s)	618744
	R01.3	Titanium	anod.	N	2	M5x55	15 Piece(s)	618766
			anod.	Y	2	M5x50	15 Piece(s)	2004438
	R03.1	Brass matt	anod.	Y	2	M5x50	15 Piece(s)	2004436
	R05.5	Bronze	anod.	N	2	M5x50	15 Piece(s)	598421
			anod.	Y	2	M5x50	15 Piece(s)	2004437
	R06.2M	Jet black, matt	powd-c	Y	2	M5x50	15 Piece(s)	2004434
	R07.2	Traffic white	powd-c	N	2	M5x50	15 Piece(s)	598422
			powd-c	Y	2	M5x50	15 Piece(s)	2004433
			powd-c	N	2	M5x55	15 Piece(s)	618767
R07.3	Cream	powd-c	Y	2	M5x50	15 Piece(s)	2004432	



### 5.1.4 Lockable 40 Nm



#### Product description

- Lockable handle with tested torque 40 Nm (basic security)
- Closure: rotary cylinder with reversible key
- Can be operated when the handle is unlocked
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

#### Scope of delivery

- 1 handle
- 1 key
- For fixing screws, see table



#### INFO

A flush-encased gearbox is required for use in aluminium profiles .

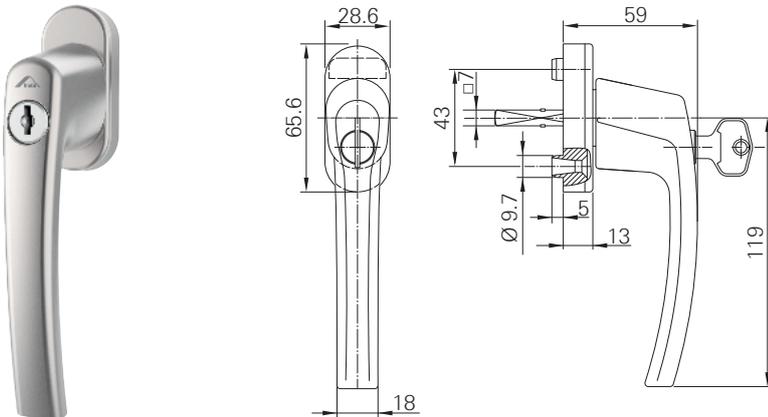
24	R01.1	Natural silver	anod.	Y	-	-	15 Piece(s)	610560	
	R01.5	Silver	anod.	N	2	M5x30	15 Piece(s)	640325	
	R06.2	Jet black	powd-c	Y	2	M5x40	15 Piece(s)	840755	
	R07.2	Traffic white	powd-c	Y	-	-	15 Piece(s)	765011	
30	R01.1	Natural silver	anod.	Y	-	-	15 Piece(s)	227962	
	R01.1	Natural silver	anod.	N	-	-	15 Piece(s)	228125	
	R01.3	Titanium	anod.	Y	-	-	15 Piece(s)	227863	
	R01.3	Titanium	anod.	N	-	-	15 Piece(s)	228035	
	R03.1	Brass matt	anod.	Y	-	-	20 Piece(s)	227964	
	R05.3	Medium bronze	anod.	Y	-	-	15 Piece(s)	227965	
	R05.5	Bronze	anod.	Y	-	-	15 Piece(s)	227966	
	R06.2M	Jet black, matt	powd-c	N	-	M5x50	15 Piece(s)	794358	
	R07.2	Traffic white	powd-c	Y	-	-	15 Piece(s)	227868	
	R07.2	Traffic white	powd-c	N	-	-	15 Piece(s)	228039	
32	R01.1	Natural silver	anod.	N	2	M5x40	15 Piece(s)	618768	
	R01.3	Titanium	anod.	N	2	M5x40	15 Piece(s)	618770	
	R05.3	Medium bronze	anod.	N	2	M5x40	15 Piece(s)	618769	
	R07.2	Traffic white	powd-c	N	2	M5x40	15 Piece(s)	618771	

**Roto Patio Fold**  
**Roto Line**  
 Lockable 40 Nm

								Nº
35	R01.1	Natural silver	anod.	Y	–	–	15 Piece(s)	227967
	R01.1	Natural silver	anod.	N	2	M5x45	15 Piece(s)	280399
	R01.2	Nickel silver	anod.	N	–	–	15 Piece(s)	228131
	R01.3	Titanium	anod.	Y	–	–	15 Piece(s)	227871
	R01.3	Titanium	anod.	N	–	–	15 Piece(s)	228040
	R03.1	Brass matt	anod.	N	–	–	15 Piece(s)	228132
	R04.1	Grey brown	powd-c	Y	–	–	15 Piece(s)	227874
	R04.1	Grey brown	powd-c	N	–	–	15 Piece(s)	228042
	R05.3	Medium bronze	anod.	Y	–	–	15 Piece(s)	227970
	R05.5	Bronze	anod.	N	–	–	15 Piece(s)	228134
	R05.5	Bronze	anod.	Y	–	–	15 Piece(s)	227971
	R07.1	Pure white	powd-c	N	–	–	15 Piece(s)	228043
	R07.2	Traffic white	powd-c	Y	–	–	15 Piece(s)	227876
R07.2	Traffic white	powd-c	N	2	M5x45	15 Piece(s)	246638	
R07.3	Cream	powd-c	N	–	–	15 Piece(s)	377606	
37	R01.1	Natural silver	anod.	N	2	M5x45	15 Piece(s)	384395
	R01.3	Titanium	anod.	N	2	M5x45	15 Piece(s)	384438
	R05.3	Medium bronze	anod.	N	2	M5x45	15 Piece(s)	618772
	R07.2	Traffic white	powd-c	N	2	M5x45	15 Piece(s)	384397
40	R01.1	Natural silver	anod.	N	2	M5x50	15 Piece(s)	352026
	R01.3	Titanium	anod.	N	2	M5x55	15 Piece(s)	566529
	R04.1	Grey brown	powd-c	N	–	–	15 Piece(s)	377609
	R07.2	Traffic white	powd-c	N	2	M5x50	15 Piece(s)	331006
	R07.2	Traffic white	powd-c	N	2	M5x55	15 Piece(s)	566528
	R07.3	Cream	powd-c	N	–	–	15 Piece(s)	377610
43	R01.1	Natural silver	anod.	N	2	M5x50	15 Piece(s)	594339
	R01.1	Natural silver	anod.	N	2	M5x55	15 Piece(s)	618774
	R01.3	Titanium	anod.	N	2	M5x50	15 Piece(s)	594341
	R01.3	Titanium	anod.	N	2	M5x55	15 Piece(s)	618786
	R05.5	Bronze	anod.	N	2	M5x50	15 Piece(s)	594345
	R07.2	Traffic white	powd-c	N	2	M5x50	15 Piece(s)	594346
	R07.2	Traffic white	powd-c	N	2	M5x55	15 Piece(s)	618787



### 5.1.5 Lockable 100 Nm



#### Product description

- Lockable handle with tested torque 100 Nm
- Closure: push cylinder with reversible key
- Simple and quick locking by pressing the cylinder
- Meets the requirements of DIN EN 1627-1630, RC 1 – RC 6
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

#### Scope of delivery

- 1 handle
- 1 key
- For fixing screws, see table



#### INFO

Further information on lockable handles → *from page 21.*

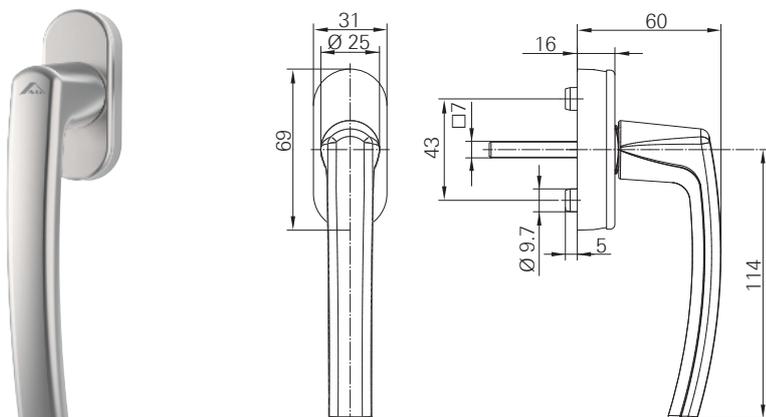


#### INFO

A flush-encased gearbox is required for use in aluminium profiles .

24	R01.1	Natural silver	anod.	Y	2	M5x30	20 Piece(s)	819857
	R01.1	Natural silver	anod.	N	2	M5x35	20 Piece(s)	858985
	R01.3	Titanium	anod.	N	2	M5x35	20 Piece(s)	858986
	R07.2	Traffic white	powd-c	Y	2	M5x30	20 Piece(s)	819856
	R07.2	Traffic white	powd-c	N	2	M5x35	20 Piece(s)	858984

### 5.1.6 Secustik®



#### Product description

- Handle with automatic locking
- Protection against being tampered with from the outside
- Patented locking mechanism to provide built-in basic security
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

#### Scope of delivery

- 1 handle
- For fixing screws, see table



#### INFO

Further information on Secustik® → *from page 22*



#### INFO

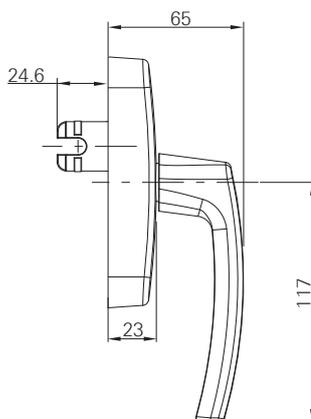
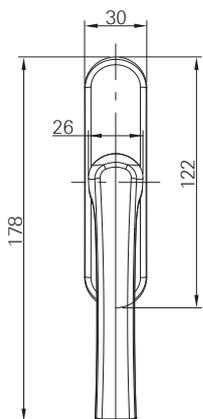
A flush-encased gearbox is required for use in aluminium profiles .

24	R01.1	Natural silver	anod.	Y	2	M5x35	20 Piece(s)	799579	
	R01.3	Titanium	anod.	Y	2	M5x35	20 Piece(s)	738921	
	R06.2M	Jet black, matt	powd-c	Y	2	M5x35	20 Piece(s)	794357	
	R07.2	Traffic white	powd-c	Y	2	M5x40	20 Piece(s)	799790	
32	R01.1	Natural silver	anod.	N	2	M5x40	20 Piece(s)	618714	
	R01.3	Titanium	anod.	N	2	M5x40	20 Piece(s)	618736	
	R04.1	Grey brown	powd-c	N	-	-	20 Piece(s)	351759	
	R05.3	Medium bronze	anod.	N	2	M5x40	20 Piece(s)	618735	
	R05.5	Bronze	anod.	N	2	M5x40	20 Piece(s)	623781	
	R06.2M	Jet black, matt	powd-c	N	-	-	20 Piece(s)	794349	
	R07.2	Traffic white	powd-c	N	2	M5x40	20 Piece(s)	618737	
35	R01.1	Natural silver	anod.	N	-	-	20 Piece(s)	775044	
	R05.4	Dark bronze	anod.	Y	-	-	20 Piece(s)	627465	
	R05.5	Bronze	anod.	N	-	-	20 Piece(s)	775135	
	R07.2	Traffic white	powd-c	Y	-	-	20 Piece(s)	627468	
powd-c			N	-	-	20 Piece(s)	775043		



								Nº
37	R01.1	Natural silver	anod.	Y	2	M5x50	20 Piece(s)	799795
			anod.	N	2	M5x45	20 Piece(s)	384419
			anod.	N	2	M5x50	20 Piece(s)	570401
	R01.3	Titanium	anod.	Y	2	M5x50	20 Piece(s)	799796
			anod.	N	2	M5x45	20 Piece(s)	384439
			anod.	N	2	M5x50	20 Piece(s)	487658
	R03.1	Brass matt	anod.	N	2	M5x50	20 Piece(s)	629478
	R04.1	Grey brown	powd-c	N	2	M5x50	20 Piece(s)	570402
	R05.3	Medium bronze	anod.	N	2	M5x50	20 Piece(s)	618738
	R05.5	Bronze	anod.	N	-	-	20 Piece(s)	351742
	R06.2M	Jet black, matt	powd-c	N	2	M5x50	20 Piece(s)	643331
	R07.2	Traffic white	powd-c	N	2	M5x45	20 Piece(s)	384421
powd-c			Y	2	M5x50	20 Piece(s)	799797	
powd-c			N	2	M5x50	20 Piece(s)	487657	
40	R01.1	Natural silver	anod.	Y	-	-	20 Piece(s)	627460
			anod.	N	-	-	20 Piece(s)	363584
	R01.2	Nickel silver	anod.	Y	-	-	20 Piece(s)	627456
	R01.3	Titanium	anod.	Y	-	-	20 Piece(s)	627458
	R03.1	Brass matt	anod.	Y	-	-	20 Piece(s)	627455
			anod.	N	-	-	20 Piece(s)	640188
	R04.1	Grey brown	powd-c	N	-	-	20 Piece(s)	363617
	R05.4	Dark bronze	anod.	Y	-	-	20 Piece(s)	627457
	R05.5	Bronze	anod.	Y	-	-	20 Piece(s)	627454
			anod.	N	-	-	20 Piece(s)	363619
	R07.1	Pure white	powd-c	N	-	-	20 Piece(s)	640189
	R07.2	Traffic white	powd-c	Y	-	-	20 Piece(s)	498770
powd-c			N	2	M5x55	20 Piece(s)	566530	
R07.3	Cream	powd-c	Y	-	-	20 Piece(s)	498771	
		powd-c	N	-	-	20 Piece(s)	640263	
43	R01.1	Natural silver	anod.	N	2	M5x55	20 Piece(s)	594331
	R01.3	Titanium	anod.	N	2	M5x55	20 Piece(s)	594333
	R04.1	Grey brown	powd-c	N	2	M5x55	20 Piece(s)	594335
	R05.3	Medium bronze	anod.	N	2	M5x55	20 Piece(s)	594336
	R05.5	Bronze	anod.	N	2	M5x55	20 Piece(s)	594337
	R07.2	Traffic white	powd-c	Y	2	M5x55	20 Piece(s)	799801
powd-c			N	2	M5x55	20 Piece(s)	594338	

### 5.1.7 Geared-handle



#### Product description

- Basic handle without additional functions
- 90° lock-in position

#### Scope of delivery

- 1 geared-handle with handle

26	R01.1	Natural silver	anod.	Y	-	-	10 Piece(s)	238671
	R01.5	Silver	powd-c	Y	-	-	10 Piece(s)	377474
			powd-c	N	-	-	10 Piece(s)	384503
	R01.5M	Matt silver	powd-c	Y	-	-	10 Piece(s)	2036789
			powd-c	N	-	-	10 Piece(s)	2036790
	R05.4	Dark bronze	powd-c	Y	-	-	10 Piece(s)	377478
			powd-c	N	-	-	10 Piece(s)	384504
	R06.2	Jet black	powd-c	Y	-	-	10 Piece(s)	385190
	R06.2M	Jet black, matt	powd-c	Y	-	-	10 Piece(s)	377475
			powd-c	N	-	-	10 Piece(s)	384505
	R07.1	Pure white	powd-c	Y	-	-	10 Piece(s)	377476
			powd-c	N	-	-	10 Piece(s)	384506
	R07.2	Traffic white	powd-c	Y	-	-	10 Piece(s)	377477
			powd-c	N	-	-	10 Piece(s)	384507
R03.3	Gold	met p	N	-	-	10 Piece(s)	457093	
R03.4	Stainless-steel design	met p	Y	-	-	10 Piece(s)	335880	
SF	Special colour	wet p powd-c	Y	-	-	10 Piece(s)	377479	
		wet p powd-c	N	-	-	10 Piece(s)	384508	
R00.0	Uncoated	-	N	-	-	10 Piece(s)	632981	
32	R01.5M	Matt silver	powd-c	Y	-	-	10 Piece(s)	2036746
	R06.2M	Jet black, matt	powd-c	Y	-	-	10 Piece(s)	384084
	R07.1	Pure white	powd-c	Y	-	-	10 Piece(s)	384095
	R07.2	Traffic white	anod.	Y	-	-	10 Piece(s)	384096
	R00.0	Uncoated	-	N	-	-	10 Piece(s)	814535

Fork for geared-handle → *from page 156*, other fork lengths are available upon request.

Accessories for geared-handles → *from page 156*.



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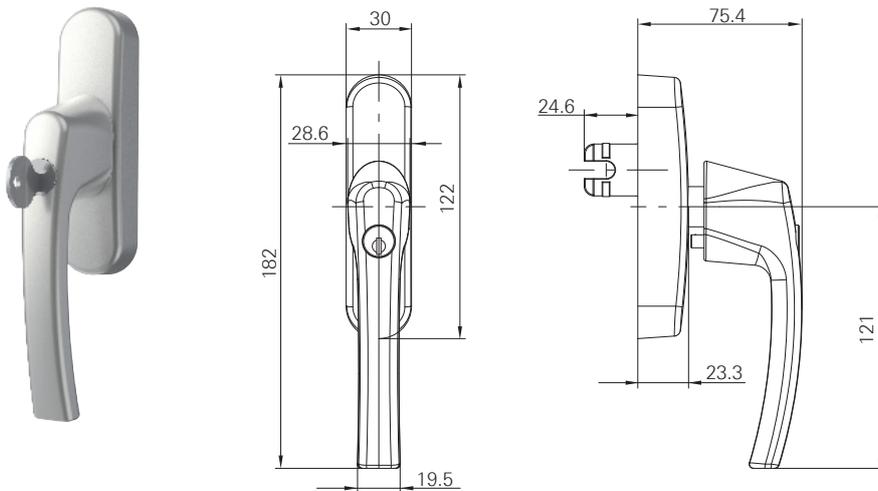
**INFO**

The uncoated handle is not supplied assembled.

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### 5.1.8 Geared-handle – lockable 100 Nm



#### Product description

- Lockable handle with tested torque 100 Nm
- Closure: cylinder with reversible key
- 90° lock-in position

#### Scope of delivery

- 1 handle with geared-handle
- 2 keys



#### INFO

Further information on lockable handles → *from page 21.*

26	R01.5	Silver	powd-c	Y	-	-	-	10 Piece(s)	378843	
		Matt silver	powd-c	Y	-	-	-	10 Piece(s)	2036937	
			powd-c	N	-	-	-	10 Piece(s)	2036938	
		R03.4	Stainless-steel design	Nickel-plated	Y	-	-	-	10 Piece(s)	335881
		R05.4	Dark bronze	powd-c	Y	-	-	-	10 Piece(s)	378917
		R06.2M	Jet black, matt	powd-c	Y	-	-	-	10 Piece(s)	378844
		R06.2	Jet black	powd-c	Y	-	-	-	10 Piece(s)	385193
		R07.1	Pure white	powd-c	Y	-	-	-	10 Piece(s)	378915
				powd-c	N	-	-	-	10 Piece(s)	384521
		R07.2	Traffic white	powd-c	Y	-	-	-	10 Piece(s)	378916
SF	Special colour	wet p powd-c	Y	-	-	-	10 Piece(s)	378918		
		wet p powd-c	N	-	-	-	10 Piece(s)	384523		
R00.0	Uncoated	-	-	N	-	-	-	10 Piece(s)	238700	
		anod.	Y	-	-	-	-	10 Piece(s)	384099	
32	R01.5	Silver	anod.	Y	-	-	-	10 Piece(s)	384099	

Fork for geared-handle → *from page 156*, other fork lengths are available upon request.

Accessories for geared-handles → *from page 156.*

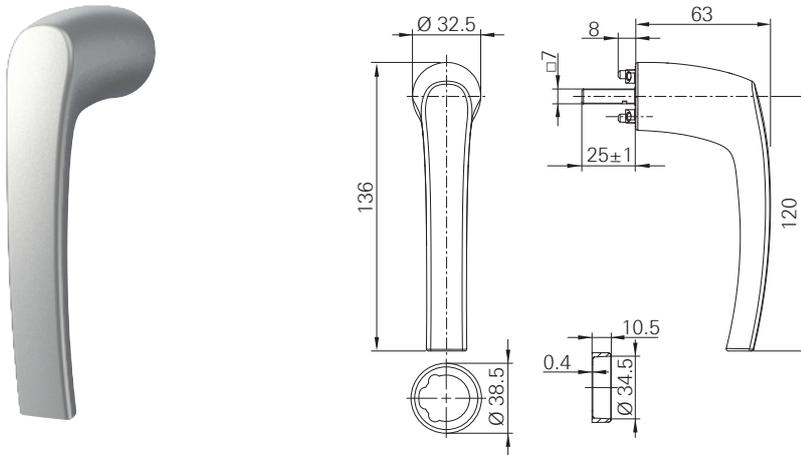


#### INFO

The uncoated handle is not supplied assembled.



### 5.1.9 Without escutcheon



#### Product description

- Basic handle without additional functions
- Can be optionally combined with colour-coordinated ring escutcheon
- Concealed screw fixing
- 90° lock-in position

#### Scope of delivery

- 1 handle
- 2 fixing screws
- 1 transport safety device

25	R01.5	Silver	powd-c	N	2	M4x12.5	10 Piece(s)	377908
	R01.5M	Matt silver	powd-c	N	2	M4x12.5	10 Piece(s)	2037024
	R03.4	Stainless-steel design	met p	N	2	M4x12.5	10 Piece(s)	619288
	R05.4	Dark bronze	anod.	N	2	M4x12.5	10 Piece(s)	377912
	R06.2M	Jet black, matt	powd-c	N	2	M4x12.5	10 Piece(s)	377909
	R07.1	Pure white	powd-c	N	2	M4x12.5	10 Piece(s)	377910
	R07.2	Traffic white	powd-c	N	2	M4x12.5	10 Piece(s)	377911
	SF	Special colour	wet p powd-c	N	2	M4x12.5	10 Piece(s)	377913

Accessories for handle without escutcheon → *from page 107.*

### 5.1.10 Without escutcheon – set



#### Product description

- Basic handle without additional functions
- Concealed screw fixing
- 90° lock-in position
- Aluminium ring escutcheon
- Mounting plate for attaching handles without escutcheons to aluminium profiles

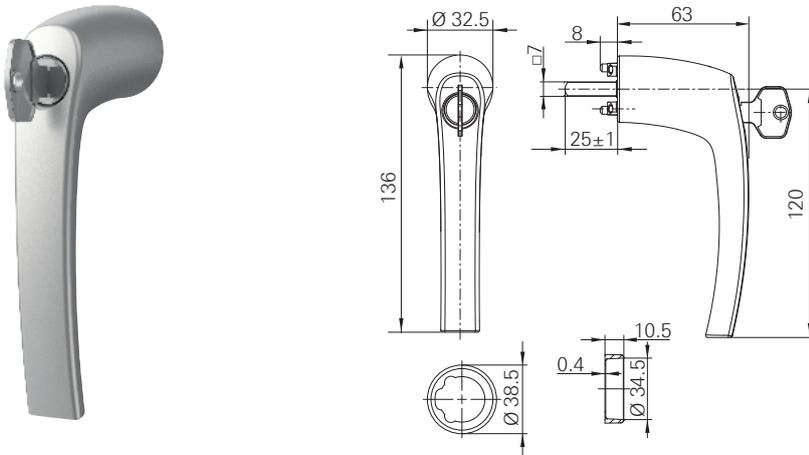
#### Scope of delivery

- 1 handle
- 2 fixing screws
- 1 transport safety device
- 1 ring
- 1 mounting plate

						<b>N<sup>o</sup></b>
R01.5	25	Silver	anod.	N	10 Piece(s)	857302
R01.5M		Matt silver	powd-c	N	10 Piece(s)	2037035
R05.4		Dark bronze	anod.	N	10 Piece(s)	857303
R06.2M		Jet black, matt	powd-c	N	10 Piece(s)	857304
R07.2		Traffic white	powd-c	N	10 Piece(s)	857315



### 5.1.11 Without escutcheon – lockable 40 Nm



#### Product description

- Lockable handle with tested torque 40 Nm
- Closure: rotary cylinder with reversible key
- Can be operated when the handle is unlocked
- 90° lock-in position

#### Scope of delivery

- 1 handle
- 1 key
- 2 fixing screws
- 1 transport safety device

25	R01.5	Silver	powd-c	N	2	M4x12.5	10 Piece(s)	377914
	R01.5M	Matt silver	powd-c	N	2	M4x12.5	10 Piece(s)	2037026
	R03.4	Stainless-steel design	anod.	N	2	M4x12.5	10 Piece(s)	619289
	R05.4	Dark bronze	anod.	N	2	M4x12.5	10 Piece(s)	377918
	R06.2	Jet black	powd-c	N	2	M4x12.5	10 Piece(s)	377915
	R07.2	Traffic white	powd-c	N	2	M4x12.5	10 Piece(s)	377917
	SF	Special colour	wet p powd-c	N	2	M4x12.5	10 Piece(s)	377919

Accessories for handle without escutcheon → *from page 107.*

### 5.1.12 Without escutcheon – set – lockable 40 Nm



#### Product description

- Lockable handle with tested torque 40 Nm
- Closure: rotary cylinder with reversible key
- Can be operated when the handle is unlocked
- 90° lock-in position
- Aluminium ring escutcheon
- Mounting plate for attaching handles without escutcheons to aluminium profiles

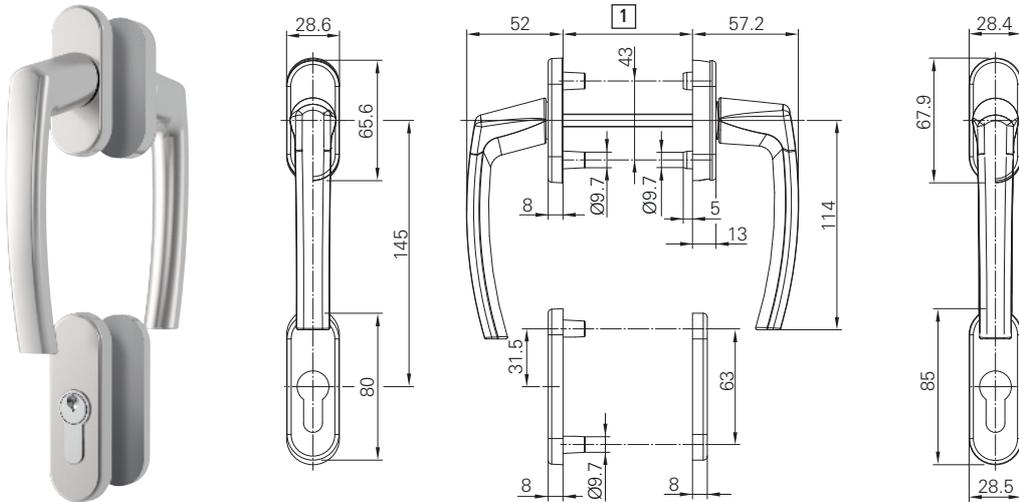
#### Scope of delivery

- 1 handle
- 2 fixing screws
- 1 key
- 1 transport safety device
- 1 ring
- 1 mounting plate

						<b>Nº</b>
25	R01.5	Silver	N	anod.	10 Piece(s)	857317
	R01.5M	Matt silver	N	powd-c	10 Piece(s)	2037036
	R05.4	Dark bronze	N	anod.	10 Piece(s)	857320
	R06.2M	Jet black, matt	N	powd-c	10 Piece(s)	857318
	R07.2	Traffic white	N	powd-c	10 Piece(s)	857319



### 5.1.13 Handle set with escutcheons



#### Product description

- Handle set with escutcheon version
- Outside: handle securely pinned
- Inside and outside: standard handle with profile cylinder escutcheon
- Concealed screw fixing
- 90° lock-in position
- Ten-year performance warranty

#### Scope of delivery

- 2 handles
- 2 profile cylinder escutcheons
- 4 fixing screws, can be shortened



#### INFO

Profile cylinder is not included in the scope of delivery.



#### INFO

A flush-encased gearbox is required for use in aluminium profiles .

## Roto Patio Fold

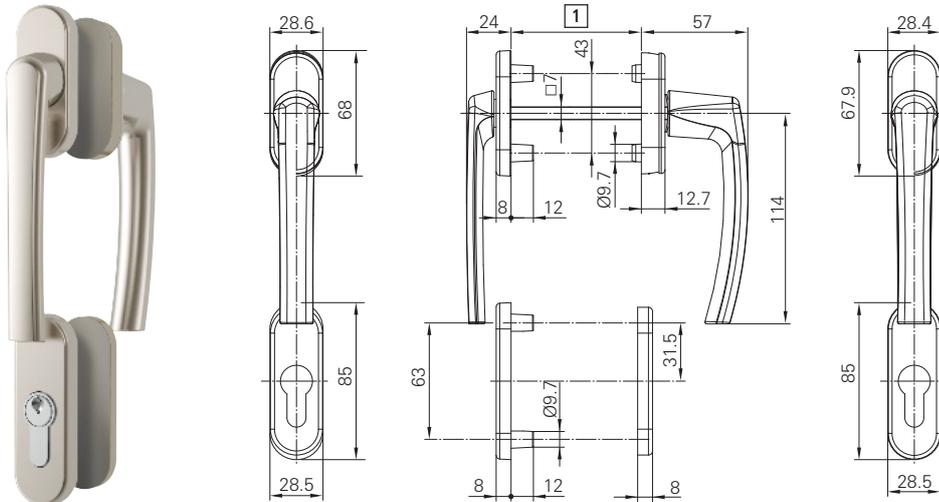
### Roto Line

Handle set with escutcheons

								N <sup>o</sup>
100	R01.1	Natural silver	anod.	Y	4	M5x100	1 Piece(s)	228292
			anod.	N	4	M5x100	1 Piece(s)	228380
	R01.2	Nickel silver	anod.	Y	4	M5x100	1 Piece(s)	228293
			anod.	N	4	M5x100	1 Piece(s)	228381
	R01.3	Titanium	anod.	Y	4	M5x100	1 Piece(s)	228233
			anod.	N	4	M5x100	1 Piece(s)	228333
	R03.1	Brass matt	anod.	Y	4	M5x100	1 Piece(s)	228294
			anod.	N	4	M5x100	1 Piece(s)	228382
	R04.1	Grey brown	powd-c	Y	4	M5x100	1 Piece(s)	228235
			powd-c	N	4	M5x100	1 Piece(s)	228335
	R05.3	Medium bronze	anod.	Y	4	M5x100	1 Piece(s)	228295
			anod.	N	4	M5x100	1 Piece(s)	228383
	R05.5	Bronze	anod.	Y	4	M5x100	1 Piece(s)	228296
			anod.	N	4	M5x100	1 Piece(s)	228384
	R06.2M	Jet black, matt	powd-c	N	4	M5x100	1 Piece(s)	794348
	R07.1	Pure white	powd-c	Y	4	M5x100	1 Piece(s)	228236
powd-c			N	4	M5x100	1 Piece(s)	228336	
R07.2	Traffic white	powd-c	Y	4	M5x100	1 Piece(s)	228237	
		powd-c	N	4	M5x100	1 Piece(s)	228337	
127	R01.1	Natural silver	anod.	N	4	M5x110	1 Piece(s)	601694
	R01.3	Titanium	anod.	N	4	M5x110	1 Piece(s)	601706
	R07.2	Traffic white	powd-c	N	4	M5x110	1 Piece(s)	601711



### 5.1.14 Handle set with escutcheons – flat handle on the outside



[1] Door leaf thickness depending on spindle length:

Spindle length 100 mm = 48 to 83 mm

Spindle length 127 mm = 52 to 110 mm



#### Product description

- Handle set with escutcheon version
- Outside: handle securely pinned
- Outside: flat handle with profile cylinder escutcheon
- Inside: standard handle with profile cylinder escutcheon
- Concealed screw fixing
- 90° lock-in position
- Ten-year performance warranty

#### Scope of delivery

- 2 handles (flat handle, standard handle)
- 2 profile cylinder escutcheons
- 4 fixing screws, can be shortened



#### INFO

Profile cylinder is not included in the scope of delivery.

100	R01.1	Natural silver	anod.	Y	4	M5x100	1 Piece(s)	228302
			anod.	N	4	M5x100	1 Piece(s)	228390
	R01.3	Titanium	anod.	Y	4	M5x100	1 Piece(s)	228245
			anod.	N	4	M5x100	1 Piece(s)	228345
	R04.1	Grey brown	powd-c	N	4	M5x100	1 Piece(s)	228347
	R05.3	Medium bronze	anod.	Y	4	M5x100	1 Piece(s)	228305
			anod.	N	4	M5x100	1 Piece(s)	228393
	R05.5	Bronze	anod.	Y	4	M5x100	1 Piece(s)	228306
anod.			N	4	M5x100	1 Piece(s)	228394	
R07.2	Traffic white	powd-c	Y	4	M5x100	1 Piece(s)	228249	
		powd-c	N	4	M5x100	1 Piece(s)	228349	
127	R01.1	Natural silver	anod.	N	4	M5x110	1 Piece(s)	601712
	R01.3	Titanium	anod.	N	4	M5x110	1 Piece(s)	601714
	R06.2M	Jet black, matt	powd-c	N	4	M5x110	1 Piece(s)	794354
	R07.2	Traffic white	powd-c	N	4	M5x110	1 Piece(s)	601729

## 5.1.15 Accessories

### 5.1.15.1 Geared-handle

#### 5.1.15.1.1 Individual component



#### Product description

- Espagnolette support for mounting geared-handles
- Optional use for thin-walled sash profiles

#### Scope of delivery

- 1 espagnolette support



#### INFO

Can be used for all Roto Line geared-handles.

				<b>Nº</b>
Espagnolette support	For Roto Line AL geared-handle	13.5	100 Piece(s)	331937



**5.1.15.1.2 Set (individual component with screws)**



**Product description**

- Espagnolette support for mounting geared-handles
- Optional use for thin-walled sash profiles

**Scope of delivery**

- 1 espagnolette support
- 2 fixing screws

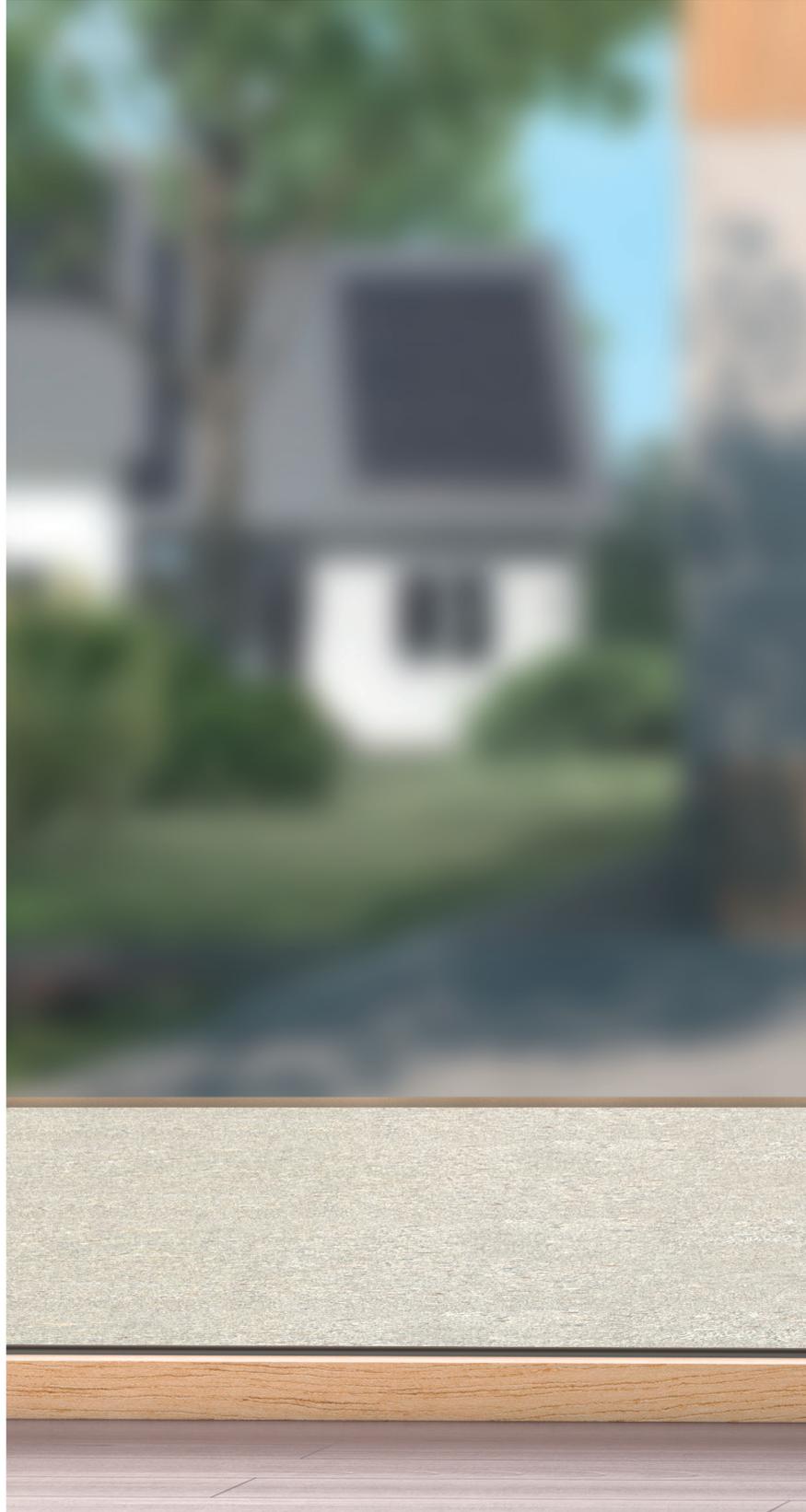


**INFO**

Can be used for all Roto Line geared-handles.

					<b>Nº</b>
AL espagnolette support set	For Roto Line AL geared-handle	2	M5x12	10 Piece(s)	728853

**Roto Patio** Life









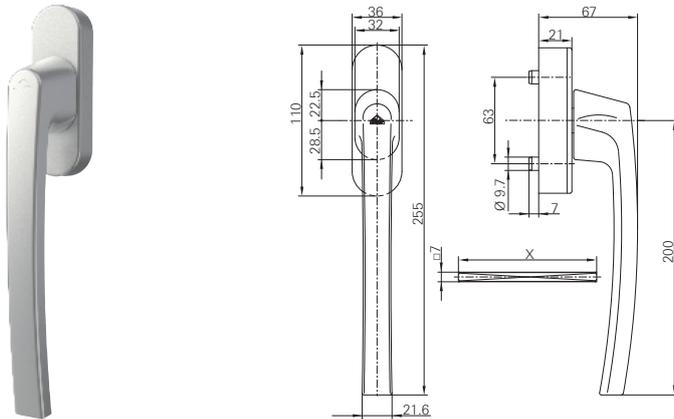
**Roto Line**

Standard – 200 mm	162
Lockable 40 Nm – 200 mm	163
Half-set on the outside – escutcheon with handle – 200 mm	164
Recessed grip – oval	165
Accessories	166

## 6 Roto Patio Life

### 6.1 Roto Line

#### 6.1.1 Standard – 200 mm



#### Product description

- Basic handle without additional functions
- 90° lock-in position
- Ten-year performance warranty

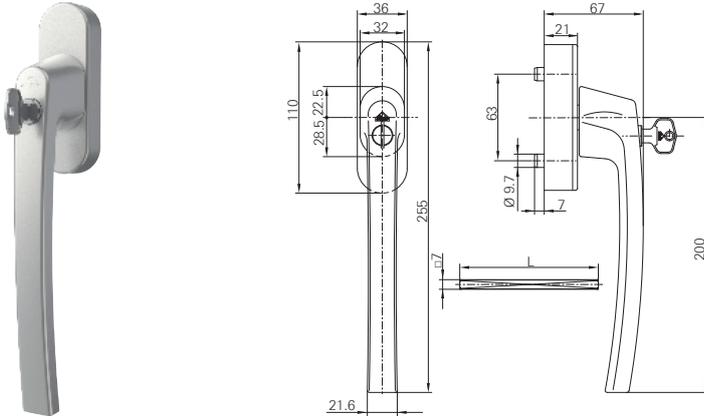
#### Scope of delivery

- 1 handle
- 1 square spindle
- 2 fixing screws

									
100	R01.1	Natural silver	anod.	Y	2	M5x100	1 Piece(s)	494447	
	R01.3	Titanium	anod.	Y	2	M5x100	1 Piece(s)	640344	
	R05.3	Medium bronze	anod.	Y	2	M5x100	1 Piece(s)	494448	
	R07.2	Traffic white	powd-c	Y	2	M5x100	1 Piece(s)	494449	
150	R01.1	Natural silver	anod.	Y	2	M5x110	1 Piece(s)	603596	
	R05.3	Medium bronze	anod.	Y	2	M5x110	1 Piece(s)	603597	
	R05.5	Bronze	anod.	Y	2	M5x110	1 Piece(s)	614576	
	R07.2	Traffic white	powd-c	Y	2	M5x110	1 Piece(s)	603598	



## 6.1.2 Lockable 40 Nm – 200 mm



### Product description

- Lockable handle with tested torque 40 Nm (basic security)
- Closure: rotary cylinder with reversible key
- Can be operated when the handle is unlocked
- 90° lock-in position
- Ten-year performance warranty

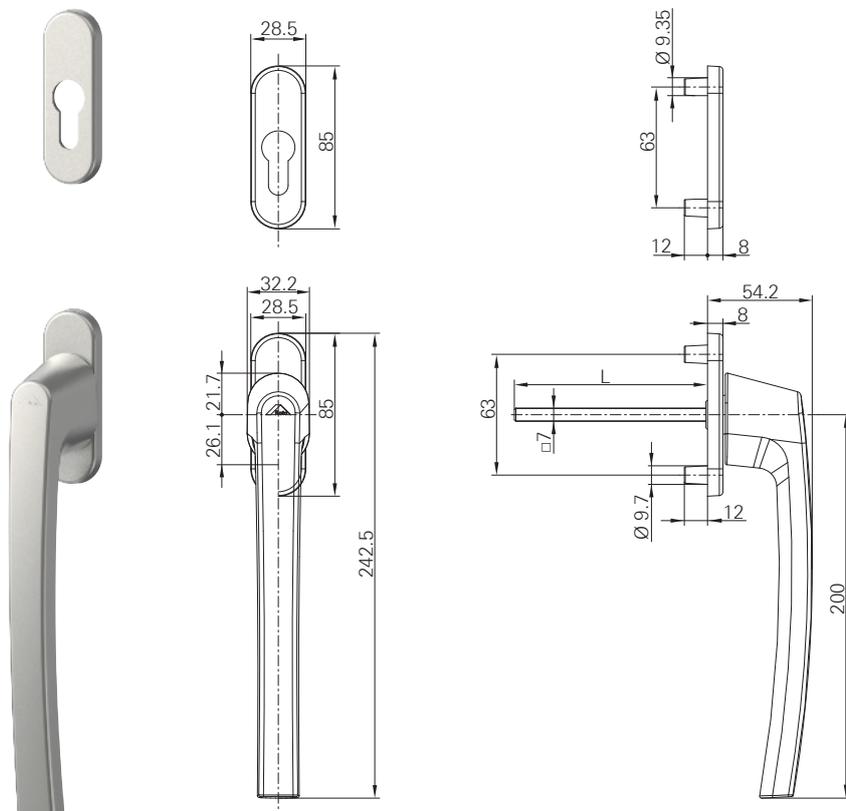
### Scope of delivery

- 1 handle
- 1 square spindle
- 1 key
- 2 fixing screws, can be shortened



									
100	R01.1	Natural silver	anod.	Y	2	M5x100	1 Piece(s)	494450	
	R01.3	Titanium	anod.	Y	2	M5x100	1 Piece(s)	614247	
	R05.3	Medium bronze	anod.	Y	2	M5x100	1 Piece(s)	494451	
	R07.2	Traffic white	powd-c	Y	2	M5x100	1 Piece(s)	494452	
150	R01.1	Natural silver	anod.	Y	2	M5x110	1 Piece(s)	603599	
	R05.3	Medium bronze	anod.	Y	2	M5x110	1 Piece(s)	603600	
	R05.5	Bronze	anod.	Y	2	M5x110	1 Piece(s)	614577	
	R07.2	Traffic white	powd-c	Y	2	M5x110	1 Piece(s)	603601	

### 6.1.3 Half-set on the outside – escutcheon with handle – 200 mm



#### Product description

- Basic handle without additional functions
- Screws, can be shortened
- Ten-year performance warranty

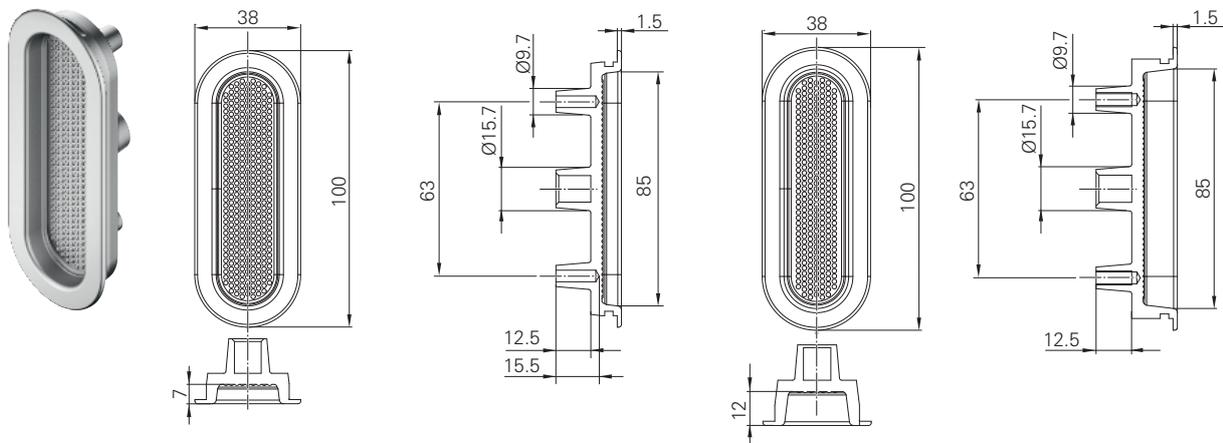
#### Scope of delivery

- 1 handle
- 1 profile cylinder escutcheon
- 2 fixing screws, can be shortened

								<b>Nº</b>
100	R01.1	Natural silver	anod.	Y	2	M5x100	10 Piece(s)	494453
	R01.3	Titanium	anod.	Y	2	M5x100	10 Piece(s)	734005
	R05.3	Medium bronze	anod.	Y	2	M5x100	10 Piece(s)	494454
	R07.2	Traffic white	powd-c	Y	2	M5x100	10 Piece(s)	494465
150	R01.1	Natural silver	anod.	Y	2	M5x110	10 Piece(s)	603602



### 6.1.4 Recessed grip – oval



#### Product description

- Can be routed in
- Ten-year performance warranty

#### Scope of delivery

- 1 recessed grip



#### with domed section, flat

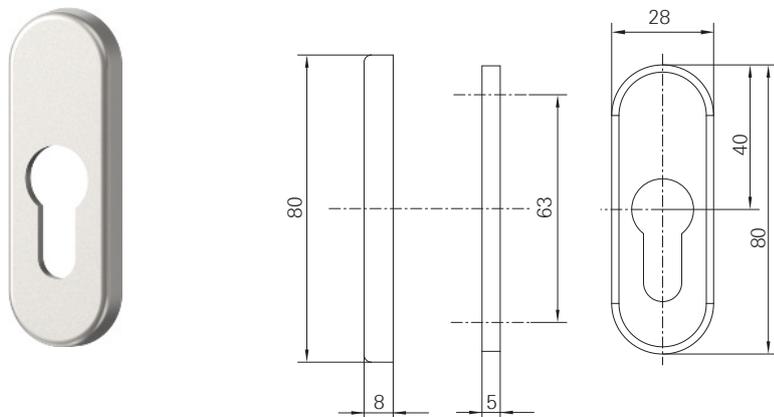
								N <sup>o</sup>
63	R01.1	Natural silver	anod.	N	-	-	10 Piece(s)	494469
	R01.3	Titanium	anod.	N	-	-	10 Piece(s)	623261
	R05.3	Medium bronze	anod.	N	-	-	10 Piece(s)	494470
	R05.5	Bronze	anod.	N	-	-	10 Piece(s)	614626
	R07.2	Traffic white	powd-c	N	-	-	10 Piece(s)	494471

#### with domed section, deep

								N <sup>o</sup>
63	R01.1	Natural silver	anod.	N	-	-	10 Piece(s)	623550
	R05.3	Medium bronze	anod.	N	-	-	10 Piece(s)	623551
	R07.2	Traffic white	powd-c	N	-	-	10 Piece(s)	623552
	R00.0	Uncoated	-	N	-	-	10 Piece(s)	627912

## 6.1.5 Accessories

### 6.1.5.1 Escutcheon on the inside



#### Product description

- Profile cylinder escutcheon on the inside
- Ten-year performance warranty

#### Scope of delivery

- 1 profile cylinder escutcheon

								<b>Nº</b>
63	R01.1	Natural silver	anod.	N	-	-	10 Piece(s)	494466
	R01.3	Titanium	anod.	N	-	-	10 Piece(s)	228260
	R05.3	Medium bronze	anod.	N	-	-	10 Piece(s)	494467
	R07.2	Traffic white	powd-c	N	-	-	10 Piece(s)	258952



## Roto Patio Lift









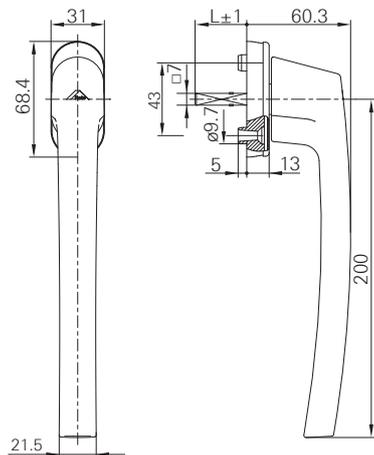
**Roto Line**

Standard – 200 mm	172
Push-to-open – 200 mm	173
Handle set with escutcheons – 200 mm	174
Recessed grip – oval	175
Half-set on the inside – without square spindle – 240 mm	176
Recessed grip – oval 7 mm	177
Recessed grip – oval 14 mm	177
Handle set – 240 mm	178
Square spindle	179
Half-set on the inside – with square spindle – 240 mm	180
Half-set on the inside – square spindle can be shortened – 240 mm	182
Half-set on the outside – 240 mm	183
Recessed grip – square 7 mm	184
Recessed grip – square 11 mm	184

## 7 Roto Patio Lift

### 7.1 Roto Line

#### 7.1.1 Standard – 200 mm



#### Product description

- Basic handle without additional functions
- 180° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

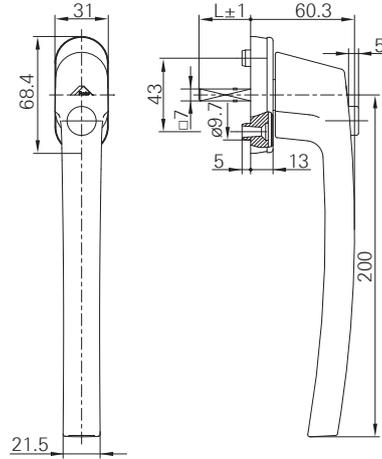
#### Scope of delivery

- 1 handle
- 2 fixing screws, can be shortened

43	R01.1	Natural silver	anod.	Y	2	M5x50	1 Piece(s)	799005
	R02.2	Anthracite grey	powd-c	Y	2	M5x50	1 Piece(s)	2036641
	R06.2M	Jet black, matt	powd-c	Y	2	M5x50	1 Piece(s)	798990
	R07.2	Traffic white	powd-c	Y	2	M5x50	1 Piece(s)	798991



## 7.1.2 Push-to-open – 200 mm



### Product description

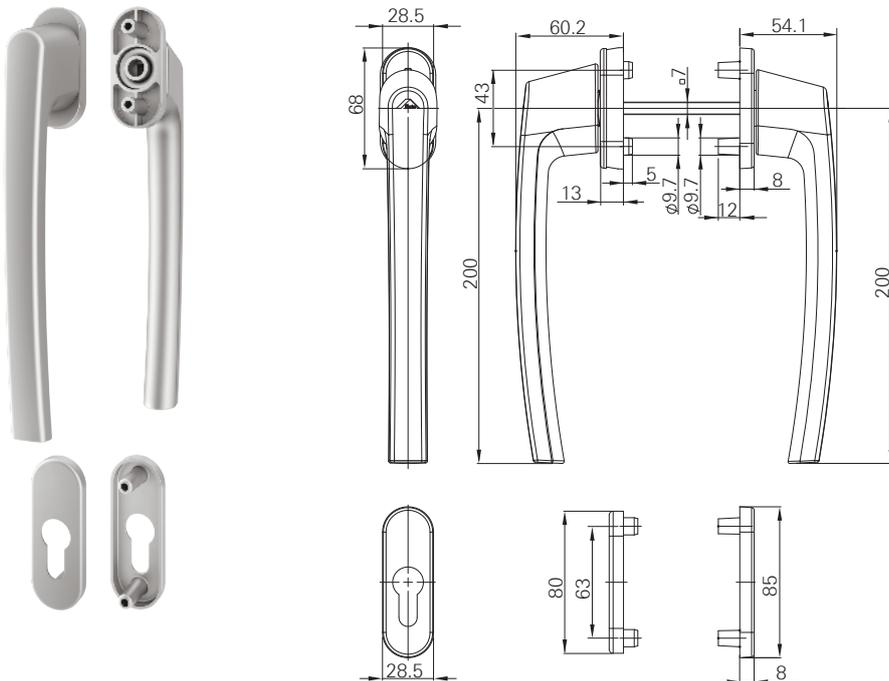
- Handle with push-to-open mechanism
- The push function makes locking and unlocking possible
- 180° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

### Scope of delivery

- 1 handle
- 2 fixing screws, can be shortened

43	R01.1	Natural silver	powd-c	Y	2	M5x50	1 Piece(s)	798992	
	R02.2	Anthracite grey	powd-c	Y	2	M5x50	1 Piece(s)	2036640	
	R06.2M	Jet black, matt	powd-c	Y	2	M5x50	1 Piece(s)	798993	
	R07.2	Traffic white	powd-c	Y	2	M5x50	1 Piece(s)	798994	

### 7.1.3 Handle set with escutcheons – 200 mm



#### Product description

- Inside: standard handle securely pinned with profile cylinder escutcheon
- Outside: standard handle with profile cylinder escutcheon
- Handle length 200 mm
- Door leaf thickness: 78 – 98 mm
- Concealed screw fixing
- Lock-in position:
  - 180° on the inside
  - Without lock-in position on the outside
- Ten-year performance warranty

#### Scope of delivery for internal set

- 1 handle with square spindle 100 mm
- 1 profile cylinder escutcheon
- 4 fixing screws, can be shortened

#### Scope of delivery for external set

- 1 handle
- 1 profile cylinder escutcheon

#### Internal set

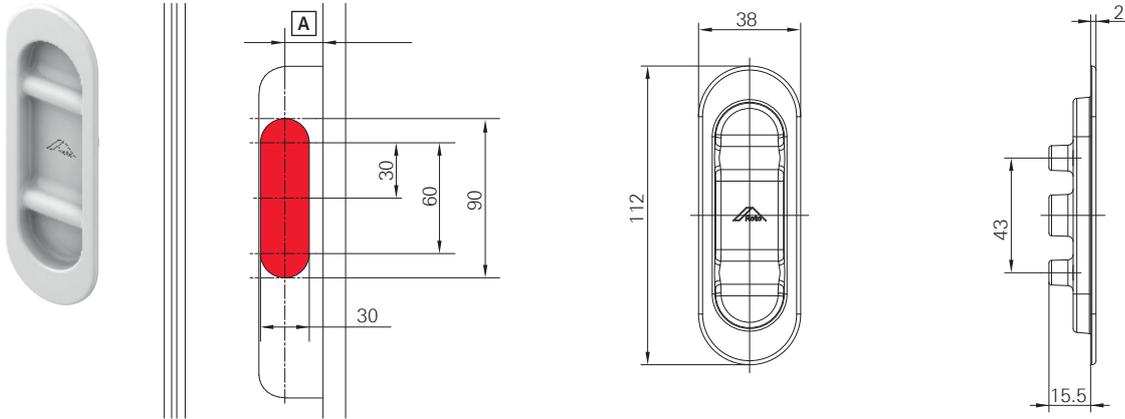
118	R01.1	Natural silver	anod.	N	4	M5x110	1 Piece(s)	2021304	
	R06.2M	Jet black, matt	powd-c	N	4	M5x110	1 Piece(s)	2021305	
	R07.2	Traffic white	powd-c	N	4	M5x110	1 Piece(s)	2021306	

#### External set

118	R01.1	Natural silver	anod.	Y	-	-	1 Piece(s)	2021307
	R06.2M	Jet black, matt	powd-c	Y	-	-	1 Piece(s)	2021308
	R07.2	Traffic white	powd-c	Y	-	-	1 Piece(s)	2021309



### 7.1.4 Recessed grip – oval



Assignment	Meaning
[A]	Backset



#### Product description

- Exterior handle
- Screw fixing with interior handle

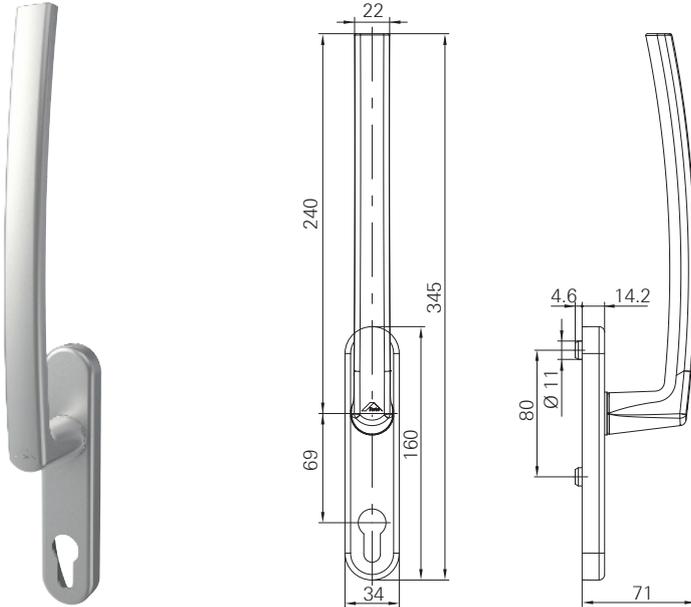
#### Scope of delivery

- 1 recessed grip



43	R01.5	Silver	powd-c	Y	-	-	1 Piece(s)	613183	
	R06.2	Jet black	powd-c	Y	-	-	1 Piece(s)	605551	
	R07.2	Traffic white	powd-c	Y	-	-	1 Piece(s)	605543	

### 7.1.5 Half-set on the inside – without square spindle – 240 mm



#### Product description

- Basic handle without additional functions
- Long handle lever
- With and without profile cylinder hole
- 180° lock-in position

#### Scope of delivery

- 1 handle
- 2 fixing screws, can be shortened

#### **i** INFO

Profile cylinder is not included in the scope of delivery.

#### With profile cylinder hole

								Nº
-	R01.1	Natural silver	anod.	Y	2	M5x110	1 Piece(s)	856570
	R05.3	Bronze	anod.	Y	2	M5x110	1 Piece(s)	856572
	R06.2	Jet black	powd-c	Y	2	M5x110	1 Piece(s)	856571
	R07.2	Traffic white	powd-c	Y	2	M5x110	1 Piece(s)	856564

#### Without profile cylinder hole

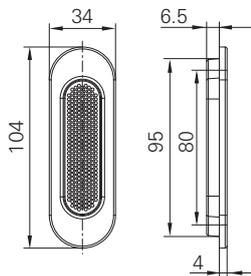
								Nº
-	R01.1	Natural silver	anod.	Y	2	M5x110	1 Piece(s)	849598
	R05.3	Bronze	anod.	Y	2	M5x110	1 Piece(s)	850455
	R06.2	Jet black	powd-c	Y	2	M5x110	1 Piece(s)	850055
	R07.2	Traffic white	powd-c	Y	2	M5x110	1 Piece(s)	849089

#### **i** INFO

Special colours available upon request. Comes assembled.



### 7.1.6 Recessed grip – oval 7 mm



#### Product description

- Exterior handle
- Screw fixing with interior handle

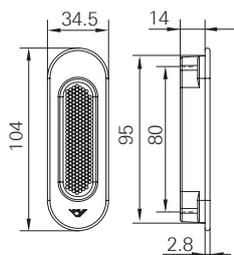
#### Scope of delivery

- 1 recessed grip

								Nº
80	R01.1	Natural silver	anod.	N	-	-	10 Piece(s)	2005168
	R01.3	Titanium	anod.	N	-	-	10 Piece(s)	896726
	R05.3	Medium bronze	anod.	N	-	-	10 Piece(s)	2005176
	R06.2M	Jet black, matt	powd-c	N	-	-	10 Piece(s)	2005174
	R07.2	Traffic white	powd-c	N	-	-	10 Piece(s)	2005175
	R07.3	Cream	powd-c	N	-	-	10 Piece(s)	896728
	R00.0	Untreated	-	N	-	-	10 Piece(s)	2005177



### 7.1.7 Recessed grip – oval 14 mm



#### Product description

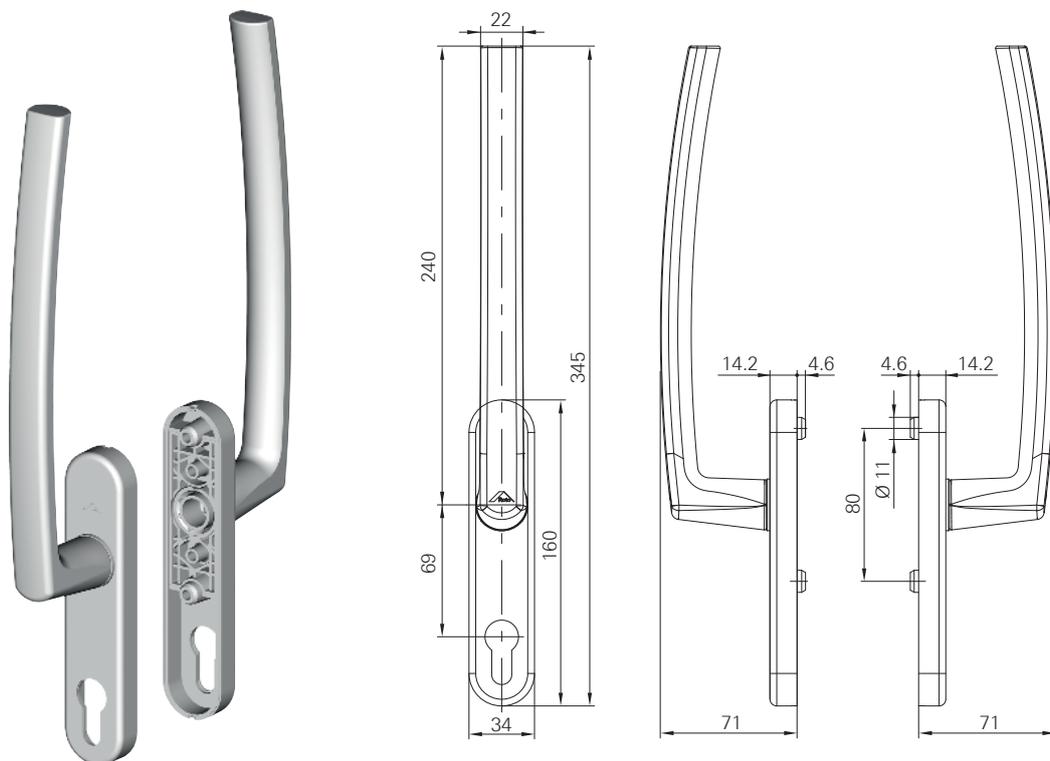
- Exterior handle
- Screw fixing with interior handle
- for handle 300

#### Scope of delivery

- 1 recessed grip

								Nº
80	R05.3	Bronze	powd-c	Y	-	-	1 Piece(s)	737869
	R06.2	Jet black	powd-c	Y	-	-	1 Piece(s)	642880
	R07.2	Traffic white	powd-c	Y	-	-	1 Piece(s)	642881
	R01.1	Natural silver	powd-c	Y	-	-	1 Piece(s)	642882

### 7.1.8 Handle set – 240 mm



#### Product description

- Exterior handle with profile cylinder hole
- Interior handle with profile cylinder hole
- Handle length 240 mm
- Concealed screw fixing
- 180° lock-in position
- Ten-year performance warranty

#### Scope of delivery

- 2 handles
- 2 fixing screws, can be shortened



#### INFO

Profile cylinder is not included in the scope of delivery.

-	R01.1	Natural silver	anod.	Y	2	M5x110	1 Piece(s)	856580
	R05.3	Bronze	anod.	Y	2	M5x110	1 Piece(s)	856582
	R06.2	Jet black	powd-c	Y	2	M5x110	1 Piece(s)	856581
	R07.2	Traffic white	powd-c	Y	2	M5x110	1 Piece(s)	856574

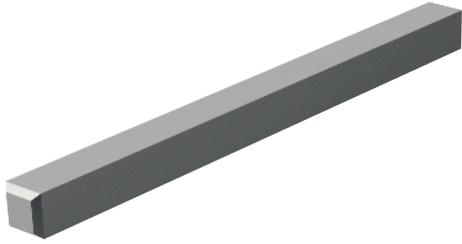


#### INFO

Special colours available upon request. Comes assembled.



### 7.1.9 Square spindle



#### Product description

- Notches on one side for force-fitting installation on the handle

#### Scope of delivery

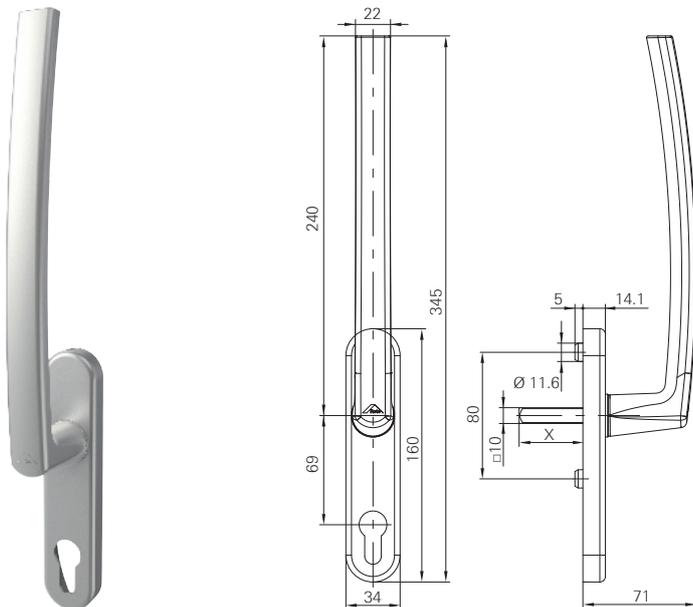
- 1 square spindle

#### 10 x 10

		N <sup>o</sup>
	80	644120
	140	769897
	150	644121
	155	769898



### 7.1.10 Half-set on the inside – with square spindle – 240 mm



#### Product description

- Basic handle without additional functions
- Long handle lever
- With and without profile cylinder hole
- 180° lock-in position

#### Scope of delivery

- 1 handle
- 2 fixing screws, can be shortened



#### INFO

Profile cylinder is not included in the scope of delivery.

#### With profile cylinder hole

40	R01.1	Natural silver	anod.	Y	2	M5x110	1 Piece(s)	635141
	R06.2M	Jet black, matt	powd-c	Y	2	M5x110	1 Piece(s)	635140
	R07.2	Traffic white	powd-c	Y	2	M5x110	1 Piece(s)	635139
	R00.0	Uncoated	–	N	2	M5x110	1 Piece(s)	635143
150	R01.3	Titanium	anod.	Y	2	M5x110	1 Piece(s)	896714
	R05.3	Medium bronze	anod.	Y	2	M5x110	1 Piece(s)	896720
	R07.3	Cream	powd-c	Y	2	M5x110	1 Piece(s)	896721



#### INFO

The uncoated handle is not supplied assembled.



**Without profile cylinder hole**

								Nº
40	R01.1	Natural silver	anod.	Y	2	M5x110	1 Piece(s)	635146
	R06.2M	Jet black, matt	powd-c	Y	2	M5x110	1 Piece(s)	635145
	R07.2	Traffic white	powd-c	Y	2	M5x110	1 Piece(s)	635144
	R00.0	Uncoated	–	N	2	M5x110	1 Piece(s)	635148
150	R05.3	Medium bronze	anod.	Y	2	M5x110	1 Piece(s)	896712
	R07.3	Cream	powd-c	Y	2	M5x110	1 Piece(s)	896713

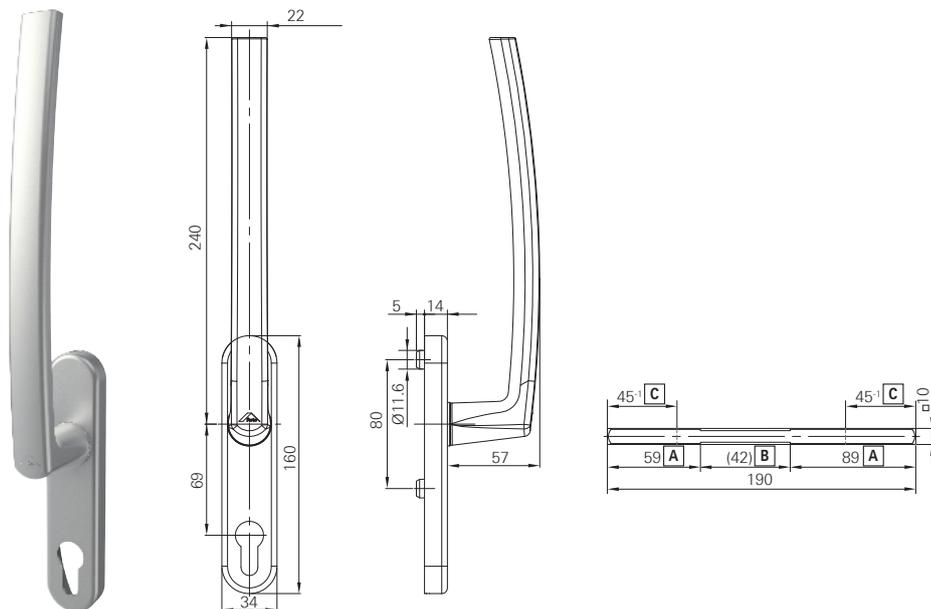


**INFO**

The uncoated handle is not supplied assembled.



### 7.1.11 Half-set on the inside – square spindle can be shortened – 240 mm



#### Additional details for uncoated handle

[A] Can be shortened to up to 45 mm.

[B] Espagnolette must be positioned in this area.

[C] Square spindle engagement length in the handle set. Screw the square spindle into the handles with grub screws (torque: 4.0 – 5.0 Nm).



#### Product description

- Basic handle without additional functions
- Long handle lever
- Can only be used with exterior handle
- 180° lock-in position

#### Scope of delivery

- 1 handle
- 1 square spindle, can be shortened
- 2 fixing screws, can be shortened



#### INFO

Profile cylinder is not included in the scope of delivery.



#### INFO

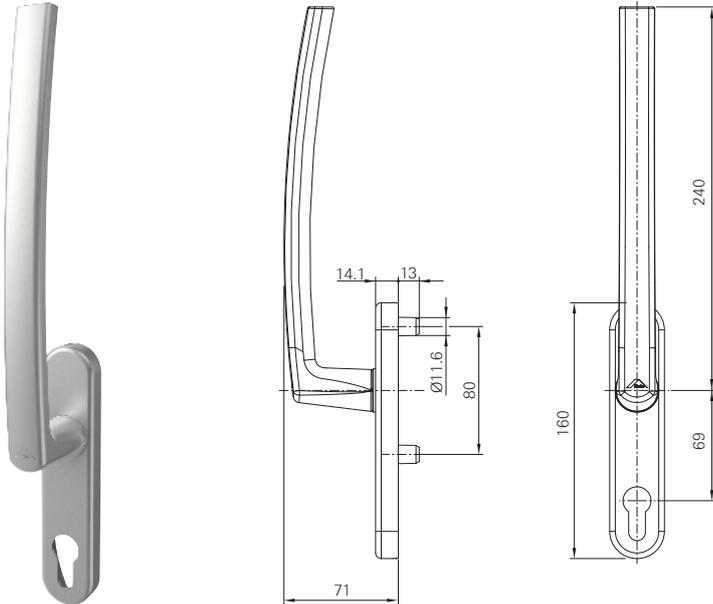
The uncoated handle is not supplied assembled.

#### With profile cylinder hole

150	R01.1	Natural silver	anod.	Y	2	M5x110	1 Piece(s)	635131
150	R06.2M	Jet black, matt	powd-c	Y	2	M5x110	1 Piece(s)	635130
150	R07.2	Traffic white	powd-c	Y	2	M5x110	1 Piece(s)	635129
150	R00.0	Uncoated	-	N	2	M5x110	1 Piece(s)	635133



### 7.1.12 Half-set on the outside – 240 mm



#### Product description

- Basic handle without additional functions
- 180° lock-in position
- Ten-year performance warranty

#### Scope of delivery

- 1 handle



#### INFO

Profile cylinder is not included in the scope of delivery.

#### With profile cylinder hole

–	R01.1	Natural silver	anod.	Y	–	–	10 Piece(s)	635136
	R01.3	Titanium	anod.	Y	–	–	10 Piece(s)	896722
	R05.3	Medium bronze	anod.	Y	–	–	10 Piece(s)	896723
	R06.2M	Jet black, matt	powd-c	Y	–	–	10 Piece(s)	635135
	R07.2	Traffic white	powd-c	Y	–	–	10 Piece(s)	635134
	R07.3	Cream	powd-c	Y	–	–	10 Piece(s)	896724
	R00.0	Uncoated	–	N	–	–	10 Piece(s)	635138

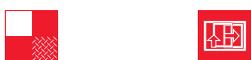
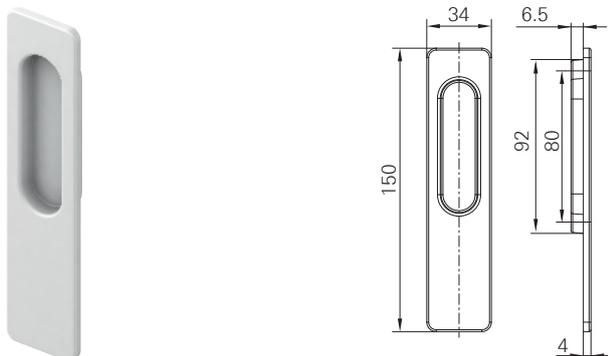


#### INFO

The uncoated handle is not supplied assembled.



### 7.1.13 Recessed grip – square 7 mm



#### Product description

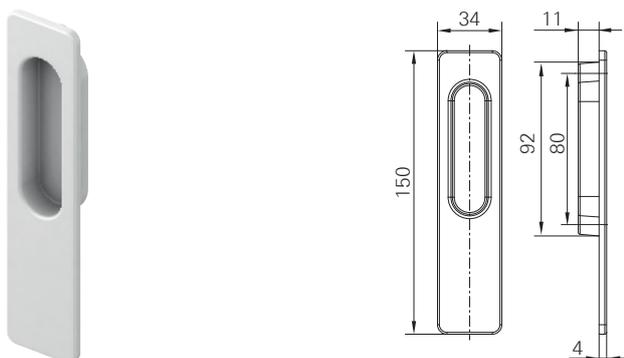
- Exterior handle
- Screw fixing with interior handle

#### Scope of delivery

- 1 recessed grip

								Nº
80	R01.1	Natural silver	anod.	N	–	–	10 Piece(s)	635151
	R06.2M	Jet black, matt	powd-c	N	–	–	10 Piece(s)	635150
	R07.2	Traffic white	powd-c	N	–	–	10 Piece(s)	635149
	R00.0	Uncoated	–	N	–	–	10 Piece(s)	635153

### 7.1.14 Recessed grip – square 11 mm



#### Product description

- Exterior handle
- Screw fixing with interior handle

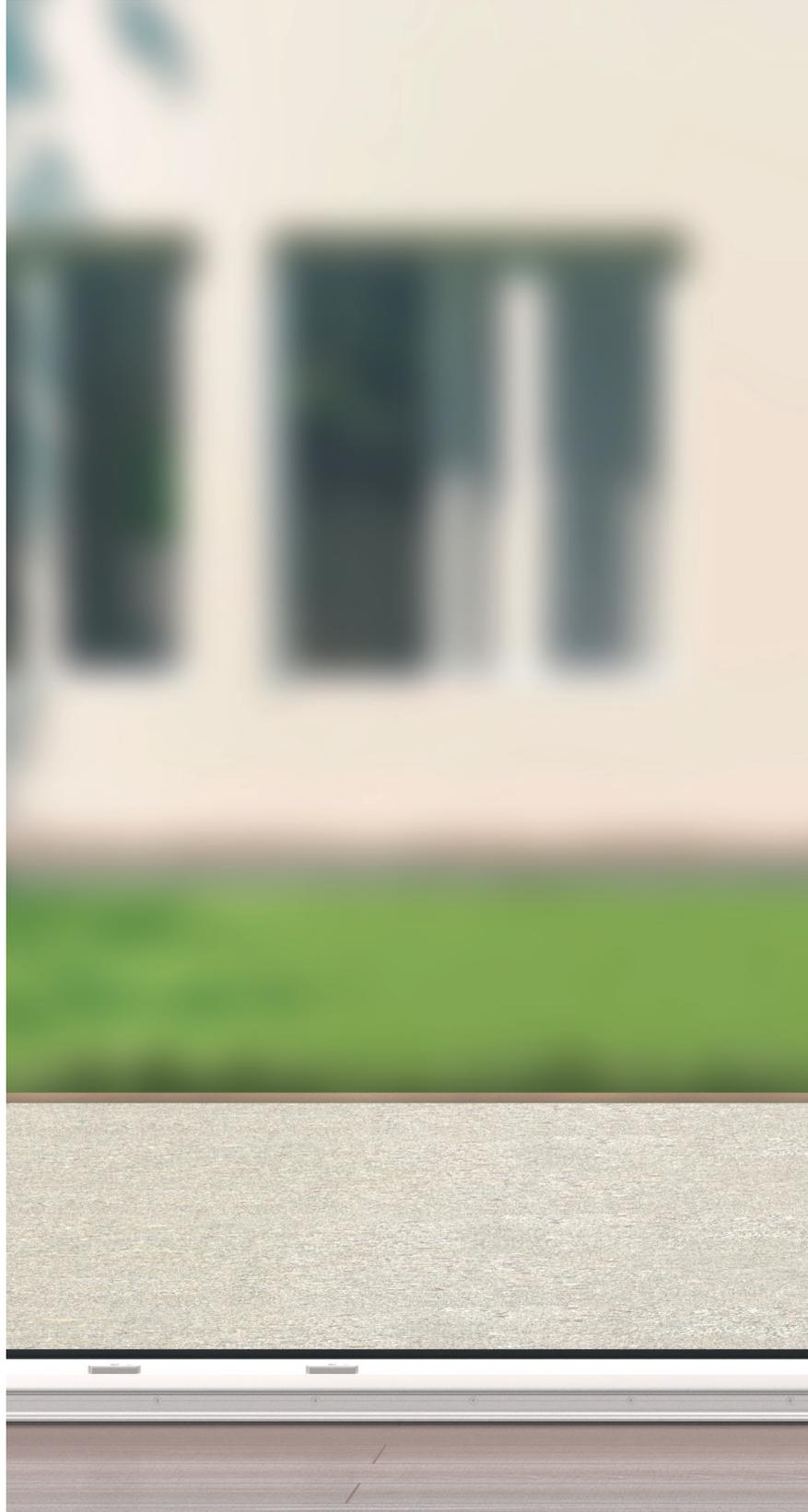
#### Scope of delivery

- 1 recessed grip

								Nº
80	R01.1	Natural silver	anod.	N	–	–	10 Piece(s)	635156
	R06.2M	Jet black, matt	powd-c	N	–	–	10 Piece(s)	635155
	R07.2	Traffic white	powd-c	N	–	–	10 Piece(s)	635154
	R00.0	Uncoated	–	N	–	–	10 Piece(s)	635158



**Roto Patio** Alversa









**Roto Swing**

Standard	190
Lockable 100 Nm	191

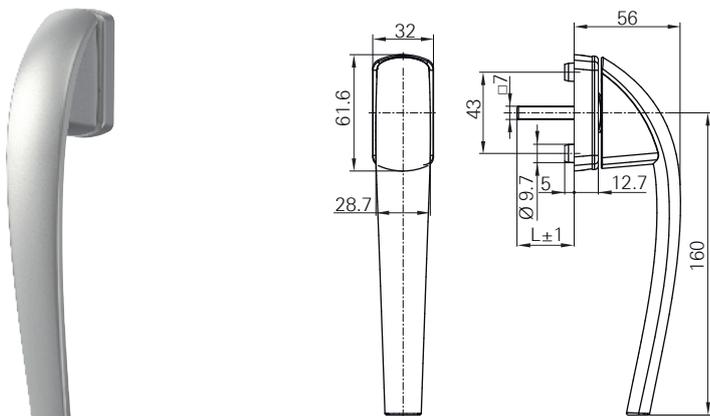
**Roto Line**

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## 8 Roto Patio Alversa

### 8.1 Roto Swing

#### 8.1.1 Standard



#### Product description

- Basic handle without additional functions
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*.

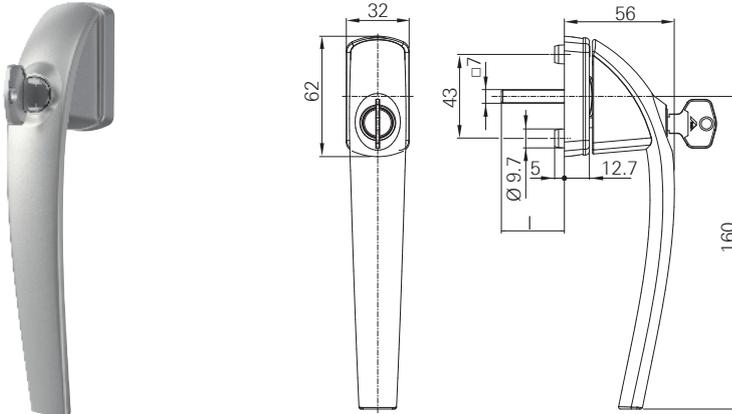
#### Scope of delivery

- 1 handle

35	R01.1	Natural silver	anod.	Y	-	-	15 Piece(s)	619714	
	R05.3	Medium bronze	anod.	Y	-	-	15 Piece(s)	619725	
	R07.2	Traffic white	powd-c	Y	-	-	15 Piece(s)	619726	
40	R01.1	Natural silver	anod.	Y	-	-	15 Piece(s)	619727	
	R05.3	Medium bronze	anod.	Y	-	-	15 Piece(s)	619728	
	R07.2	Traffic white	powd-c	Y	-	-	15 Piece(s)	619729	
43	R01.1	Natural silver	anod.	Y	-	-	15 Piece(s)	619730	
	R01.3	Titanium	anod.	Y	-	-	15 Piece(s)	729278	
	R05.3	Medium bronze	anod.	Y	-	-	15 Piece(s)	619731	
	R07.2	Traffic white	powd-c	Y	-	-	15 Piece(s)	619732	



### 8.1.2 Lockable 100 Nm



#### Product description

- Lockable handle with tested torque 100 Nm
- Closure: push cylinder with reversible key
- Simple and quick locking by pressing the cylinder
- Meets the requirements of DIN EN 1627-1630, RC 1 – RC 6
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

#### Scope of delivery

- 1 handle
- 1 key



#### INFO

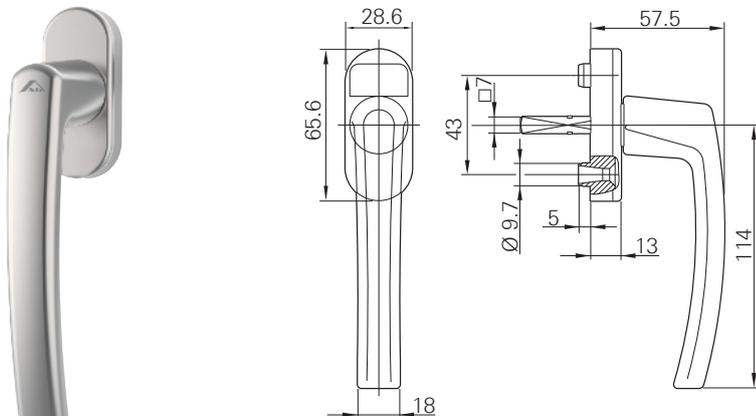
Further information on lockable handles → *from page 21.*



35	R01.1	Natural silver	anod.	Y	-	-	15 Piece(s)	619733
	R05.3	Medium bronze	anod.	Y	-	-	15 Piece(s)	619734
	R07.2	Traffic white	powd-c	Y	-	-	15 Piece(s)	619735
40	R01.1	Natural silver	anod.	Y	-	-	15 Piece(s)	619736
	R05.3	Medium bronze	anod.	Y	-	-	15 Piece(s)	619737
	R07.2	Traffic white	powd-c	Y	-	-	15 Piece(s)	619738
43	R01.1	Natural silver	anod.	Y	-	-	15 Piece(s)	619739
	R05.3	Medium bronze	anod.	Y	-	-	15 Piece(s)	619740
	R07.2	Traffic white	powd-c	Y	-	-	15 Piece(s)	619741

## 8.2 Roto Line

### 8.2.1 Standard – 114 mm



#### Product description

- Basic handle without additional functions
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

#### Scope of delivery

- 1 handle
- For fixing screws, see table



#### INFO

A flush-encased gearbox is required for use in aluminium profiles .



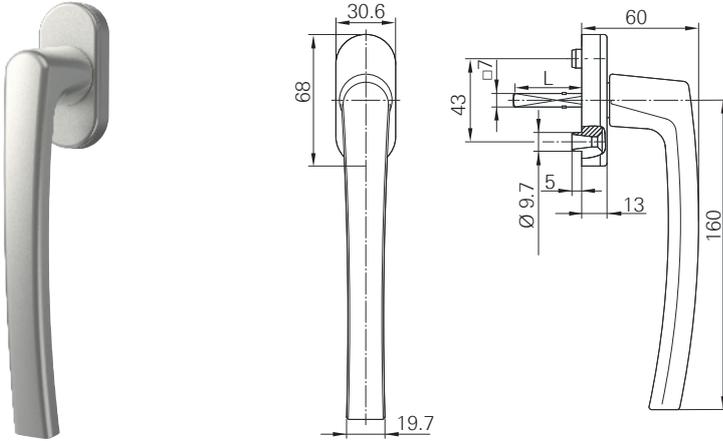
#### INFO

Only use handles with a length of 200 mm for Patio Alversa | PS Air Com.

24	R01.1	Natural silver		-	anod.	Y	-	-	20 Piece(s)	262466
	R01.1	Natural silver		-	anod.	Y	2	M5x35	20 Piece(s)	799867
	R01.1	Natural silver		-	anod.	N	2	M5x35	20 Piece(s)	858981
	R01.3	Titanium		-	anod.	Y	-	-	20 Piece(s)	341748
	R06.2M	Jet black, matt		-	powd-c	Y	2	M5x30	20 Piece(s)	857277
	R06.2M	Jet black, matt		-	powd-c	Y	2	M5x35	20 Piece(s)	2033353
	R07.2	Traffic white		-	powd-c	Y	2	M5x35	20 Piece(s)	2043566
	R07.2	Traffic white		-	powd-c	N	2	M5x35	20 Piece(s)	858980
SF	Special colour	Escutcheon: Jet black		powd-c	Y	2	M5x35	20 Piece(s)	788812	



## 8.2.2 Standard – 160 mm



### Product description

- Basic handle without additional functions
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

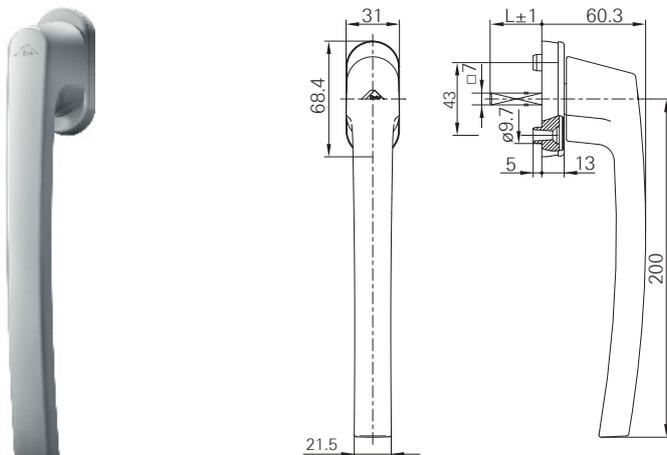
### Scope of delivery

- 1 handle

									N <sup>o</sup>
35	R01.1	Natural silver	anod.	Y	-	-	1 Piece(s)	211598	
	R01.2	Nickel silver	anod.	Y	-	-	1 Piece(s)	211599	
	R01.3	Titanium	anod.	Y	-	-	1 Piece(s)	288728	
	R01.5	Silver	anod.	Y	-	-	1 Piece(s)	623491	
	R05.4	Dark bronze	anod.	Y	-	-	1 Piece(s)	288727	
	R05.3	Medium bronze	anod.	Y	-	-	1 Piece(s)	211597	
	R06.2M	Jet black, matt	powd-c	Y	-	-	1 Piece(s)	794352	
	R07.2	Traffic white	powd-c	Y	-	-	1 Piece(s)	211596	
43	R01.1	Natural silver	anod.	Y	-	-	1 Piece(s)	601161	
	R01.2	Nickel silver	anod.	Y	-	-	1 Piece(s)	601162	
	R01.3	Titanium	anod.	Y	-	-	1 Piece(s)	601163	
	R05.3	Medium bronze	anod.	Y	-	-	1 Piece(s)	601164	
	R05.4	Dark bronze	anod.	Y	-	-	1 Piece(s)	601165	
	R07.2	Traffic white	powd-c	Y	-	-	1 Piece(s)	601166	



### 8.2.3 Standard – 200 mm



#### Product description

- Basic handle without additional functions
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

#### Scope of delivery

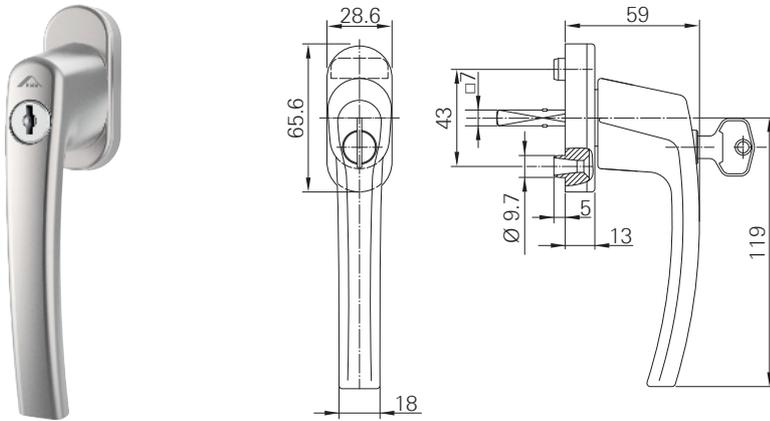
- 1 handle
- 2 fixing screws, can be shortened

24	R01.1	Natural silver	anod.	Y	2	M5x30	1 Piece(s)	815193	
	R01.5	Silver	anod.	Y	2	M5x30	1 Piece(s)	815194	
	R06.2M	Jet black, matt	powd-c	Y	2	M5x30	1 Piece(s)	815215	
	R07.2	Traffic white	powd-c	Y	2	M5x30	1 Piece(s)	815216	
32	R01.1	Natural silver	anod.	Y	2	M5x40	1 Piece(s)	786362	
	R01.2	Nickel silver	anod.	Y	2	M5x40	1 Piece(s)	786669	
	R01.3	Titanium	anod.	Y	2	M5x40	1 Piece(s)	786670	
	R01.5	Silver	powd-c	Y	2	M5x40	1 Piece(s)	786671	
	R05.3	Medium bronze	anod.	Y	2	M5x40	1 Piece(s)	786363	
	R05.4	Dark bronze	powd-c	Y	2	M5x40	1 Piece(s)	786364	
	R05.5	Bronze	anod.	Y	2	M5x40	1 Piece(s)	786673	
	R06.2M	Jet black, matt	powd-c	Y	2	M5x40	1 Piece(s)	786674	
	R07.2	Traffic white	powd-c	Y	2	M5x40	1 Piece(s)	786395	
R07.3	Cream	powd-c	Y	2	M5x40	1 Piece(s)	786717		
37	R01.1	Natural silver	anod.	Y	2	M5x45	1 Piece(s)	780549	
	R01.2	Nickel silver	anod.	Y	2	M5x45	1 Piece(s)	786517	
	R01.3	Titanium	anod.	Y	2	M5x45	1 Piece(s)	780552	
	R01.5	Silver	powd-c	Y	2	M5x45	1 Piece(s)	786519	
	R04.4	Black brown	powd-c	Y	2	M5x45	1 Piece(s)	796926	
	R05.3	Medium bronze	anod.	Y	2	M5x45	1 Piece(s)	780575	
	R05.4	Dark bronze	powd-c	Y	2	M5x45	1 Piece(s)	780576	
	R05.5	Bronze	anod.	Y	2	M5x45	1 Piece(s)	780577	
	R06.2M	Jet black, matt	powd-c	Y	2	M5x45	1 Piece(s)	786715	
	R07.3	Cream	powd-c	Y	2	M5x45	1 Piece(s)	780579	
R07.2	Traffic white	powd-c	Y	2	M5x45	1 Piece(s)	780578		



								Nº
43	R01.1	Natural silver	anod.	Y	2	M5x50	1 Piece(s)	780551
	R01.2	Nickel silver	anod.	Y	2	M5x50	1 Piece(s)	786518
	R01.3	Titanium	anod.	Y	2	M5x50	1 Piece(s)	780580
	R01.5	Silver	powd-c	Y	2	M5x50	1 Piece(s)	786672
	R04.4	Black brown	powd-c	Y	2	M5x50	1 Piece(s)	796927
	R05.3	Medium bronze	anod.	Y	2	M5x50	1 Piece(s)	780581
	R05.4	Dark bronze	powd-c	Y	2	M5x50	1 Piece(s)	780582
	R05.5	Bronze	anod.	Y	2	M5x50	1 Piece(s)	780583
	R06.2M	Jet black, matt	powd-c	Y	2	M5x50	1 Piece(s)	786716
R07.2	Traffic white	powd-c	Y	2	M5x50	1 Piece(s)	780584	
R07.3	Cream	powd-c	Y	2	M5x50	1 Piece(s)	780585	

### 8.2.4 Lockable 40 Nm – 119 mm



#### Product description

- Lockable handle with tested torque 40 Nm (basic security)
- Closure: rotary cylinder with reversible key
- Can be unlocked and locked as required
- Can be operated when the handle is unlocked
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

#### Scope of delivery

- 1 handle
- 1 key
- For fixing screws, see table



#### INFO

A flush-encased gearbox is required for use in aluminium profiles .

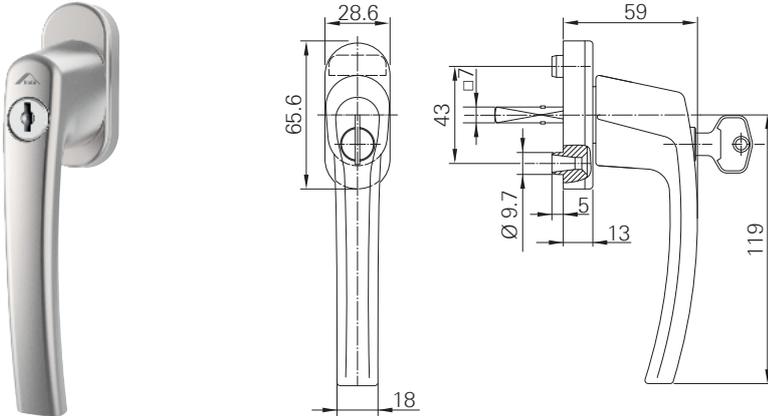


#### INFO

Only use handles with a length of 200 mm for Patio Alversa | PS Air Com.

								Nº
24	R01.1	Natural silver	anod.	Y	-	-	15 Piece(s)	610560
	R01.5	Silver	anod.	N	2	M5x30	15 Piece(s)	640325
	R06.2	Jet black	powd-c	Y	2	M5x40	15 Piece(s)	840755
	R07.2	Traffic white	powd-c	Y	-	-	15 Piece(s)	765011

### 8.2.5 Lockable 100 Nm – 119 mm



#### Product description

- Lockable handle with tested torque 100 Nm
- Closure: push cylinder with reversible key
- Simple and quick locking by pressing the cylinder
- Meets the requirements of DIN EN 1627-1630, RC 1 – RC 6
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

#### Scope of delivery

- 1 handle
- 1 key
- For fixing screws, see table



#### INFO

Further information on lockable handles → *from page 21.*



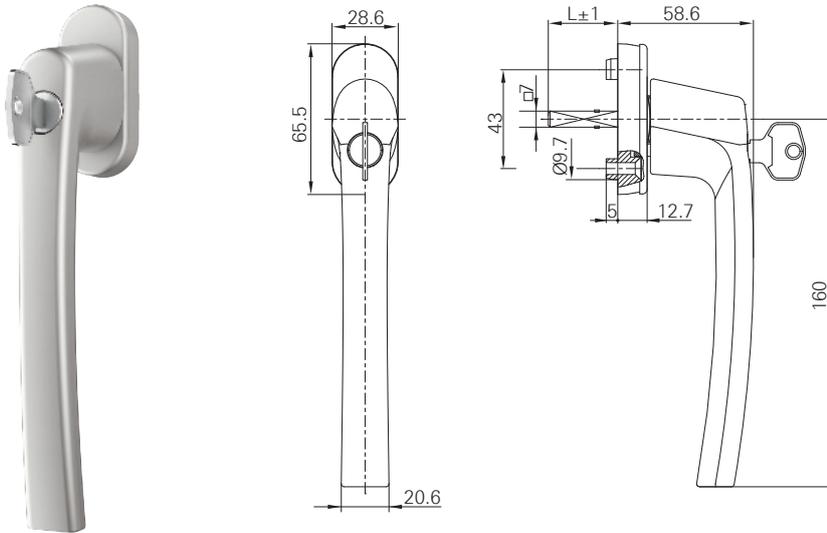
#### INFO

A flush-encased gearbox is required for use in aluminium profiles .

24	R01.1	Natural silver	anod.	Y	2	M5x30	20 Piece(s)	819857	
	R01.1	Natural silver	anod.	N	2	M5x35	20 Piece(s)	858985	
	R01.3	Titanium	anod.	N	2	M5x35	20 Piece(s)	858986	
	R07.2	Traffic white	powd-c	Y	2	M5x30	20 Piece(s)	819856	
	R07.2	Traffic white	powd-c	N	2	M5x35	20 Piece(s)	858984	



### 8.2.6 Lockable 100 Nm – 160 mm



#### Product description

- Lockable handle with tested torque 100 Nm
- Closure: push cylinder with reversible key
- Simple and quick locking by pressing the cylinder
- Meets the requirements of DIN EN 1627-1630, RC 1 – RC 6
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

#### Scope of delivery

- 1 handle
- 1 key

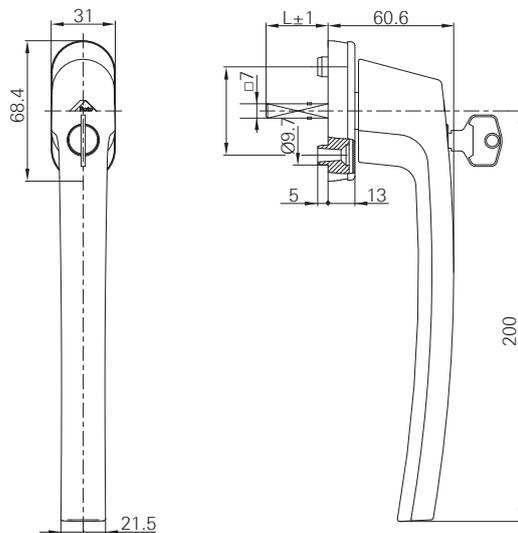


#### INFO

Further information on lockable handles → *from page 21.*

43	R07.2	Traffic white	powd-c	Y	-	-	1 Piece(s)	774105
	R01.1	Natural silver	powd-c	Y	-	-	1 Piece(s)	773853
	R01.3	Titanium	powd-c	Y	-	-	1 Piece(s)	773854
	R04.1	Grey brown	powd-c	Y	-	-	1 Piece(s)	775173

### 8.2.7 Lockable 100 Nm – 200 mm



#### Product description

- Lockable handle with tested torque 100 Nm
- Closure: push cylinder with reversible key
- Simple and quick locking by pressing the cylinder
- Meets the requirements of DIN EN 1627-1630, RC 1 – RC 6
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

#### Scope of delivery

- 1 handle
- 1 key
- 2 fixing screws, can be shortened



#### INFO

Further information on lockable handles → *from page 21.*

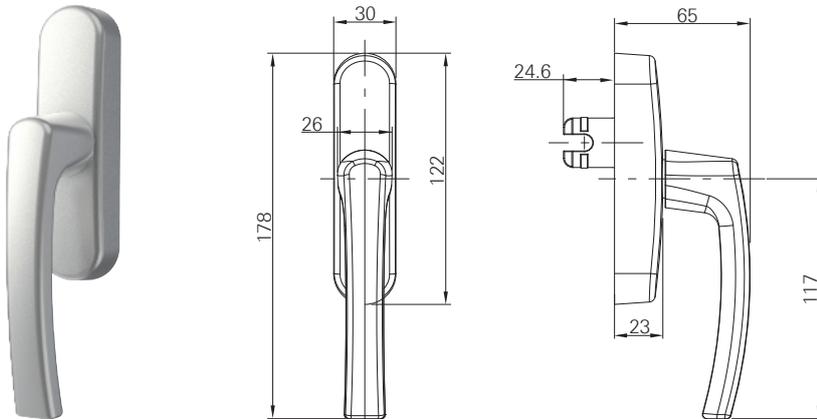
24	R01.1	Natural silver	anod.	Y	2	M5x30	1 Piece(s)	815217	
	R01.5	Silver	anod.	Y	2	M5x30	1 Piece(s)	815218	
	R06.2M	Jet black, matt	powd-c	Y	2	M5x30	1 Piece(s)	815219	
32	R01.1	Natural silver	anod.	Y	2	M5x40	1 Piece(s)	786719	
	R01.2	Nickel silver	anod.	Y	2	M5x40	1 Piece(s)	786720	
	R01.3	Titanium	anod.	Y	2	M5x40	1 Piece(s)	786732	
	R01.5	Silver	powd-c	Y	2	M5x40	1 Piece(s)	786733	
	R05.3	Medium bronze	anod.	Y	2	M5x40	1 Piece(s)	786397	
	R05.4	Dark bronze	powd-c	Y	2	M5x40	1 Piece(s)	786398	
	R05.5	Bronze	anod.	Y	2	M5x40	1 Piece(s)	787000	
	R06.2M	Jet black, matt	powd-c	Y	2	M5x40	1 Piece(s)	787002	
R07.2	Traffic white	powd-c	Y	2	M5x40	1 Piece(s)	786399		



								Nº
37	R01.1	Natural silver	anod.	Y	2	M5x45	1 Piece(s)	780586
	R01.2	Nickel silver	anod.	Y	2	M5x45	1 Piece(s)	786396
	R01.3	Titanium	anod.	Y	2	M5x45	1 Piece(s)	780587
	R01.5	Silver	powd-c	Y	2	M5x45	1 Piece(s)	786734
	R05.3	Medium bronze	anod.	Y	2	M5x45	1 Piece(s)	780588
	R05.4	Dark bronze	powd-c	Y	2	M5x45	1 Piece(s)	780589
	R05.5	Bronze	anod.	Y	2	M5x45	1 Piece(s)	780590
	R06.2M	Jet black, matt	powd-c	Y	2	M5x45	1 Piece(s)	787003
	R07.2	Traffic white	powd-c	Y	2	M5x45	1 Piece(s)	780591
R07.3	Cream	powd-c	Y	2	M5x45	1 Piece(s)	780592	
43	R01.1	Natural silver	anod.	Y	2	M5x50	1 Piece(s)	780593
	R01.2	Nickel silver	anod.	Y	2	M5x45	1 Piece(s)	786730
	R01.3	Titanium	anod.	Y	2	M5x50	1 Piece(s)	780594
	R01.5	Silver	powd-c	Y	2	M5x50	1 Piece(s)	786755
	R02.2	Anthracite grey	powd-c	Y	2	M5x50	1 Piece(s)	820798
	R04.4	Black brown	powd-c	Y	2	M5x50	1 Piece(s)	796930
	R05.3	Medium bronze	anod.	Y	2	M5x50	1 Piece(s)	780595
	R05.4	Dark bronze	powd-c	Y	2	M5x50	1 Piece(s)	780596
	R05.5	Bronze	anod.	Y	2	M5x50	1 Piece(s)	780597
	R06.2M	Jet black, matt	powd-c	Y	2	M5x50	1 Piece(s)	787004
	R07.2	Traffic white	powd-c	Y	2	M5x50	1 Piece(s)	780598
	R07.3	Cream	powd-c	Y	2	M5x50	1 Piece(s)	780599



### 8.2.8 Geared-handle – reinforced connector



#### Product description

- Basic handle without additional functions
- Reinforced connector
- 90° lock-in position

#### Scope of delivery

- 1 geared-handle with handle

								<b>Nº</b>
26	R01.5	Silver	powd-c	-	-	Y	1 Piece(s)	786522
	R05.4	Dark bronze	powd-c	-	-	Y	1 Piece(s)	786523
	R06.2M	Jet black, matt	powd-c	-	-	Y	1 Piece(s)	786524
	R07.2	Traffic white	powd-c	-	-	Y	1 Piece(s)	786535
	R00.0	Uncoated	-	-	-	Y	1 Piece(s)	786541

Compatible T connectors → *from page 211.*

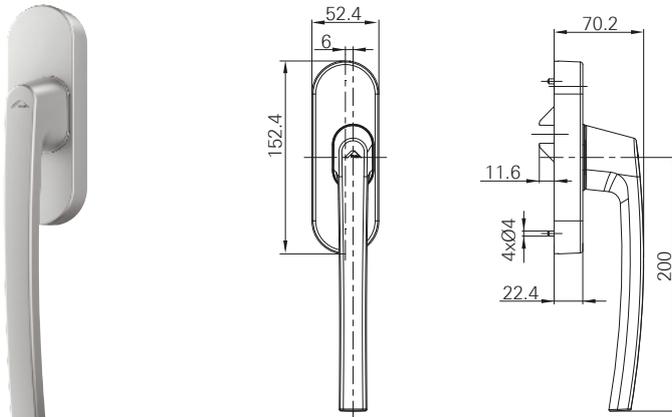


#### INFO

The uncoated handle is not supplied assembled.



## 8.2.9 Geared-handle set – 200 mm



### Product description

- 90° lock-in position
- Ten-year performance warranty
- Special hardware components are required for this handle. You can find the required hardware component in the relevant system catalogue.

### Scope of delivery

- 1 geared-handle with handle
- 1 T connector
- 4 fixing screws for handle
- 4 fixing screws for T connectors
- 2 square nuts



### INFO

For the scope of delivery of the T connector set, see → *from page 211*

					<b>Nº</b>
R01.5	Silver	powd-c	Y	1 Piece(s)	775916
R05.4	Dark bronze	anod.	Y	1 Piece(s)	775919
R06.2M	Jet black, matt	powd-c	Y	1 Piece(s)	775918
R07.2	Traffic white	powd-c	Y	1 Piece(s)	775917
R00.0	Uncoated	–	N	1 Piece(s)	775920

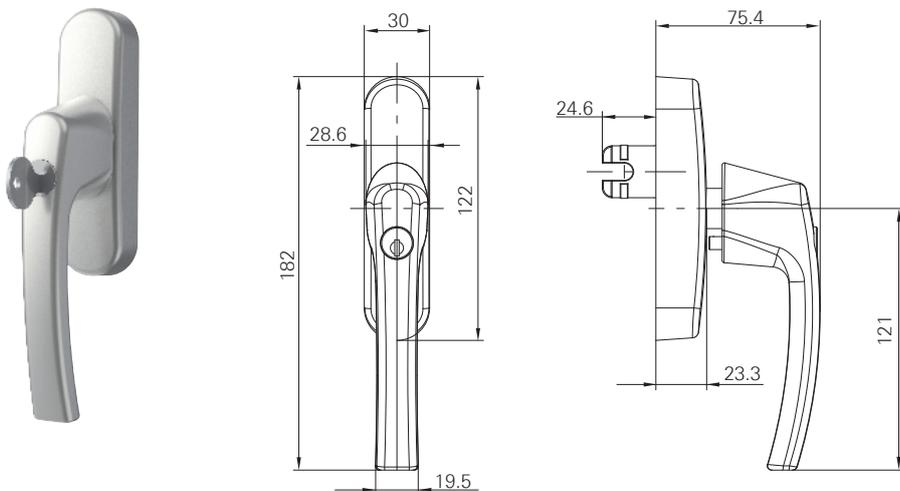


### INFO

The uncoated handle is not supplied assembled.



### 8.2.10 Geared-handle – lockable 100 Nm – 121 mm – reinforced connector



#### Product description

- Lockable handle with tested torque 100 Nm
- Closure: cylinder with reversible key
- 90° lock-in position

#### Scope of delivery

- 1 geared-handle with handle
- 2 keys

26	R01.5	Silver	powd-c	Y	-	-	10 Piece(s)	378843
	R01.5M	Matt silver	powd-c	Y	-	-	10 Piece(s)	2036937
			powd-c	N	-	-	10 Piece(s)	2036938
	R03.4	Stainless-steel design	Nickel-plated	Y	-	-	10 Piece(s)	335881
	R05.4	Dark bronze	powd-c	Y	-	-	10 Piece(s)	378917
	R06.2M	Jet black, matt	powd-c	Y	-	-	10 Piece(s)	378844
	R06.2	Jet black	powd-c	Y	-	-	10 Piece(s)	385193
	R07.1	Pure white	powd-c	Y	-	-	10 Piece(s)	378915
			powd-c	N	-	-	10 Piece(s)	384521
	R07.2	Traffic white	powd-c	Y	-	-	10 Piece(s)	378916
SF	Special colour	wet p powd-c	Y	-	-	10 Piece(s)	378918	
		wet p powd-c	N	-	-	10 Piece(s)	384523	
R00.0	Uncoated	-	-	N	-	-	10 Piece(s)	238700
		anod.	Y	-	-	10 Piece(s)	384099	
32	R01.5	Silver	anod.	Y	-	-	10 Piece(s)	384099

Compatible T connectors → *from page 211.*

Fork for geared-handle → *from page 211*, other fork lengths are available upon request.

Accessories for geared-handles → *from page 211.*

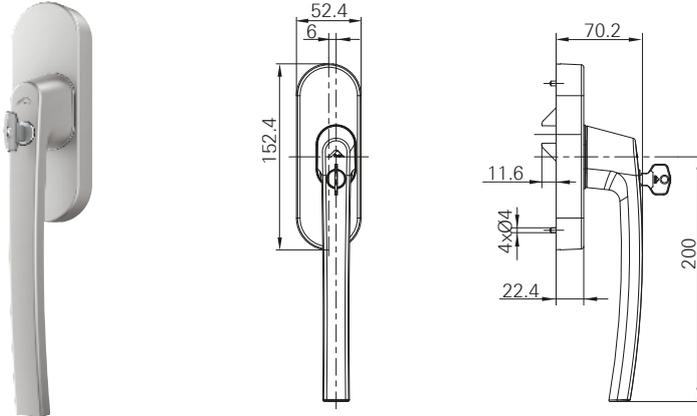


#### INFO

The uncoated handle is not supplied assembled.



### 8.2.11 Geared-handle – lockable 100 Nm – 200 mm



#### Product description

- Lockable handle with tested torque 100 Nm
- Closure: push cylinder with reversible key
- Simple and quick locking by pressing the cylinder
- Meets the requirements of DIN EN 1627-1630, RC 1 – RC 6
- Special hardware components are required for this handle.

#### Scope of delivery

- 1 geared-handle with handle
- 1 T connector set

						
R01.1	Natural silver	anod.	Y	1 Piece(s)	Timber PVC	775943



#### INFO

The uncoated handle is not supplied assembled.

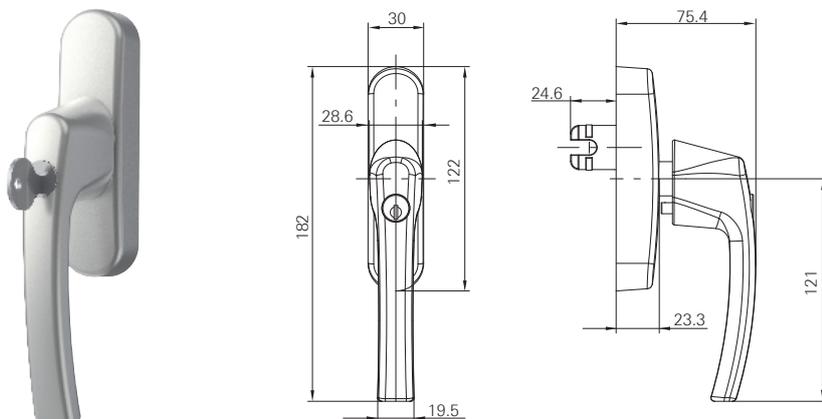


#### INFO

For the scope of delivery of the T connector set, see → *from page 211*



### 8.2.12 Geared-handle – lockable 100 Nm – 121 mm – reinforced connector



#### Product description

- Lockable handle with tested torque 100 Nm
- Closure: cylinder with reversible key
- 90° lock-in position

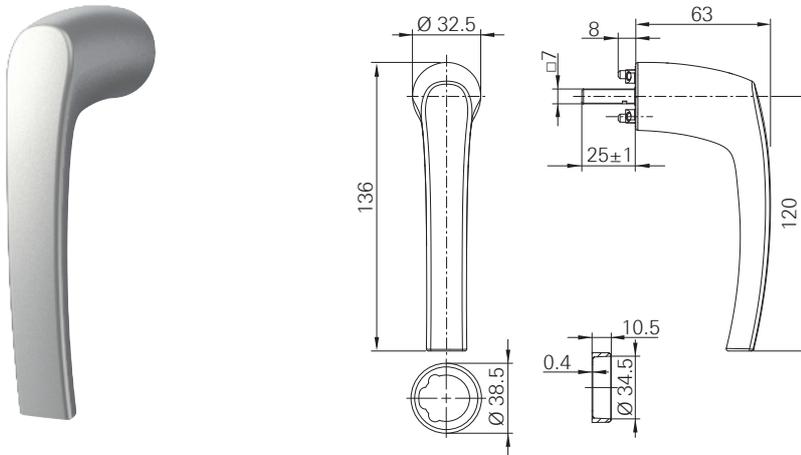
#### Scope of delivery

- 1 geared-handle with handle
- 2 keys

								
26	R01.5	Silver	powd-c	Y	-	-	1 Piece(s)	786536
	R05.4	Dark bronze	powd-c	Y	-	-	1 Piece(s)	786537
	R06.2M	Jet black, matt	powd-c	Y	-	-	1 Piece(s)	786538
	R07.2	Traffic white	powd-c	Y	-	-	1 Piece(s)	786539



### 8.2.13 Without escutcheon



#### Product description

- Basic handle without additional functions
- Can be optionally combined with colour-coordinated ring escutcheon
- Concealed screw fixing
- 90° lock-in position

#### Scope of delivery

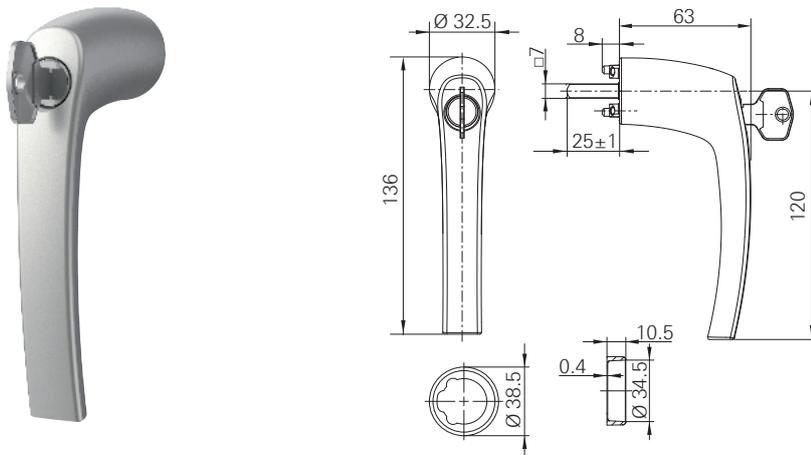
- 1 handle
- 2 fixing screws
- 1 transport safety device

25	R01.5	Silver	powd-c	N	2	M4x12.5	10 Piece(s)	377908
	R01.5M	Matt silver	powd-c	N	2	M4x12.5	10 Piece(s)	2037024
	R03.4	Stainless-steel design	met p	N	2	M4x12.5	10 Piece(s)	619288
	R05.4	Dark bronze	anod.	N	2	M4x12.5	10 Piece(s)	377912
	R06.2M	Jet black, matt	powd-c	N	2	M4x12.5	10 Piece(s)	377909
	R07.1	Pure white	powd-c	N	2	M4x12.5	10 Piece(s)	377910
	R07.2	Traffic white	powd-c	N	2	M4x12.5	10 Piece(s)	377911
	SF	Special colour	wet p powd-c	N	2	M4x12.5	10 Piece(s)	377913



Accessories for handle without escutcheon → *from page 107.*

### 8.2.14 Without escutcheon – lockable 40 Nm



#### Product description

- Lockable handle with tested torque 40 Nm
- Closure: rotary cylinder with reversible key
- Can be operated when the handle is unlocked
- 90° lock-in position

#### Scope of delivery

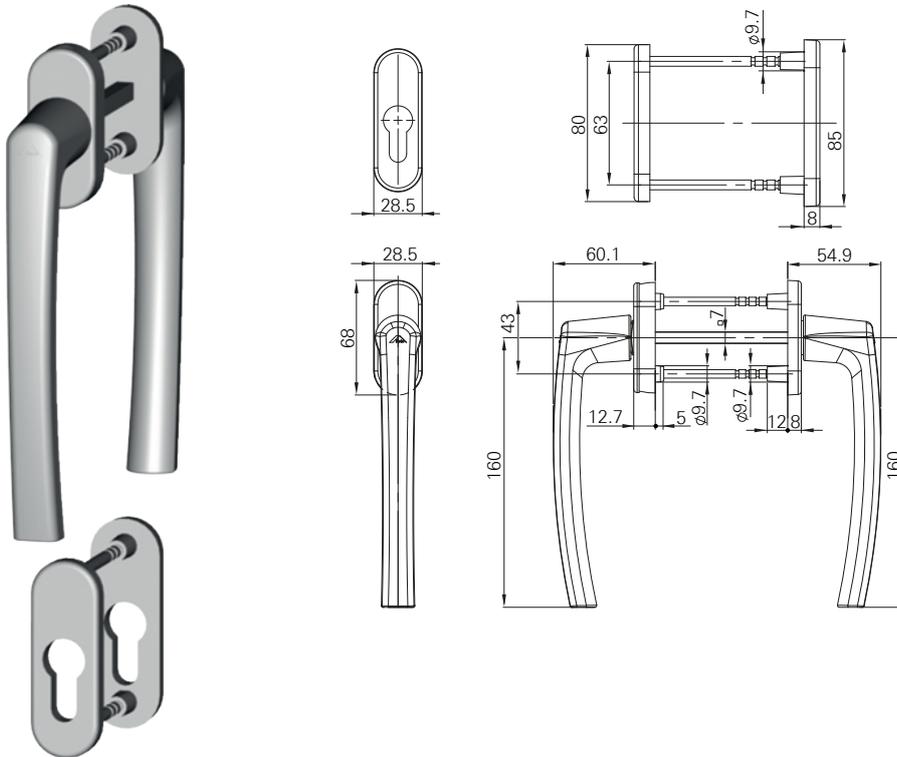
- 1 handle
- 1 key
- 2 fixing screws
- 1 transport safety device

25	R01.5	Silver	powd-c	N	2	M4x12.5	10 Piece(s)	377914
	R01.5M	Matt silver	powd-c	N	2	M4x12.5	10 Piece(s)	2037026
	R03.4	Stainless-steel design	anod.	N	2	M4x12.5	10 Piece(s)	619289
	R05.4	Dark bronze	anod.	N	2	M4x12.5	10 Piece(s)	377918
	R06.2	Jet black	powd-c	N	2	M4x12.5	10 Piece(s)	377915
	R07.2	Traffic white	powd-c	N	2	M4x12.5	10 Piece(s)	377917
	SF	Special colour	wet p powd-c	N	2	M4x12.5	10 Piece(s)	377919

Accessories for handle without escutcheon → *from page 107.*



### 8.2.15 Handle set with escutcheons – 160 mm



#### Product description

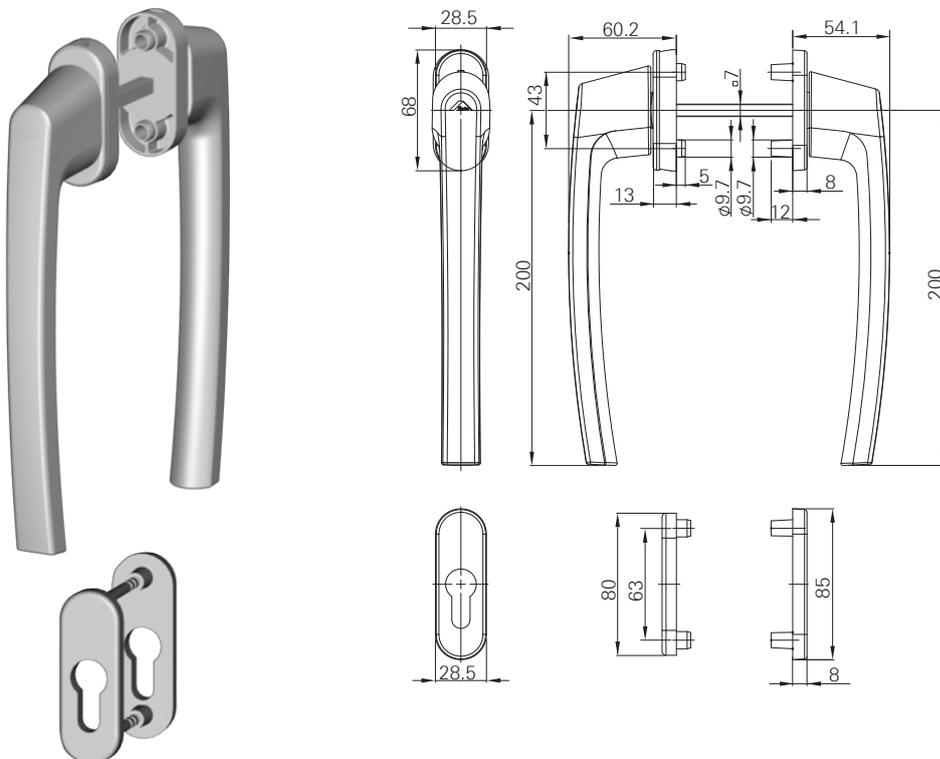
- Handle set with escutcheon version
- Outside: handle securely pinned
- Outside: standard handle with profile cylinder escutcheon
- Inside: standard handle with profile cylinder escutcheon
- Door leaf thickness: 48 – 78 mm
- Concealed screw fixing
- 90° lock-in position
- Ten-year performance warranty

#### Scope of delivery

- 2 handles
- 2 profile cylinder escutcheons
- 4 fixing screws, can be shortened

100	R01.1	Natural silver	anod.	Y	4	M5x100	1 Piece(s)	776119
	R05.3	Medium bronze	anod.	Y	4	M5x100	1 Piece(s)	776120
	R05.4	Dark bronze	powd-c	Y	4	M5x100	1 Piece(s)	776121
	R05.5	Bronze	anod.	Y	4	M5x100	1 Piece(s)	776122
	R07.2	Traffic white	powd-c	Y	4	M5x100	1 Piece(s)	776123

### 8.2.16 Handle set with escutcheons – 200 mm



#### Product description

- Outside: standard handle securely pinned with profile cylinder escutcheon
- Inside: standard handle with profile cylinder escutcheon
- Handle length 200 mm
- Door leaf thickness: 78 – 98 mm
- Concealed screw fixing
- 90° lock-in position
- Ten-year performance warranty

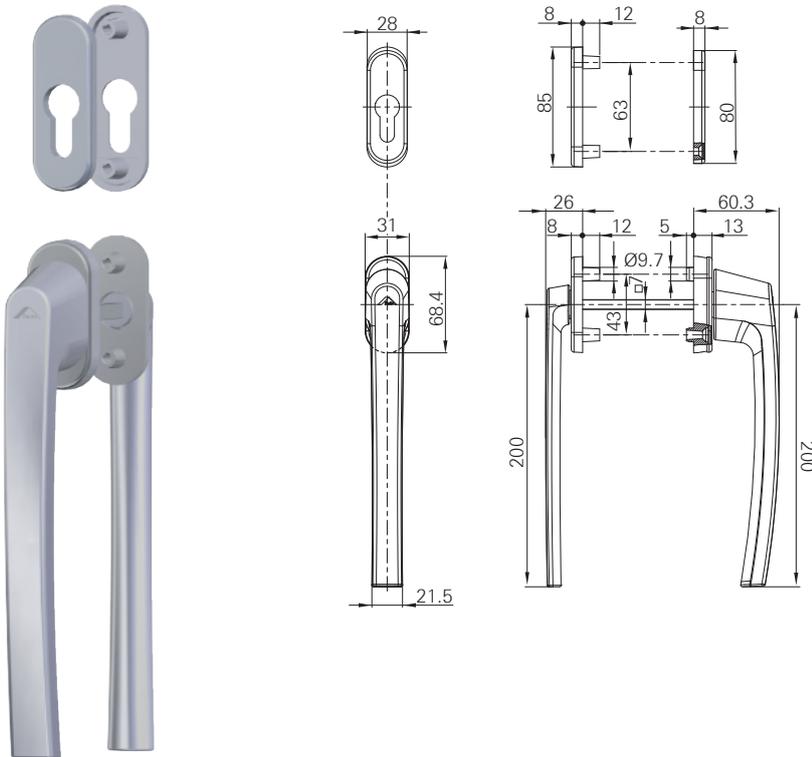
#### Scope of delivery

- 2 handles
- 2 profile cylinder escutcheons
- 4 fixing screws, can be shortened

135	R01.1	Natural silver	anod.	Y	4	M5x110	1 Piece(s)	838659
	R01.3	Titanium	anod.	Y	4	M5x110	1 Piece(s)	838661
	R01.5	Silver	anod.	Y	4	M5x110	1 Piece(s)	838663
	R05.3	Medium bronze	anod.	Y	4	M5x110	1 Piece(s)	838662
	R05.5	Bronze	anod.	Y	4	M5x110	1 Piece(s)	838664
	R06.2M	Jet black, matt	powd-c	Y	4	M5x110	1 Piece(s)	838658
	R07.2	Traffic white	powd-c	Y	4	M5x110	1 Piece(s)	838657



### 8.2.17 Handle set with escutcheons – flat handle on the outside



#### Product description

- Handle set with escutcheon version
- Outside: handle securely pinned
- Outside: flat handle with profile cylinder escutcheon
- Inside: standard handle with profile cylinder escutcheon
- Square spindle: 100 mm  
Door leaf thickness: 68 – 78 mm
- Square spindle: 135 mm  
Door leaf thickness: 78 – 98 mm
- Concealed screw fixing
- 90° lock-in position
- Ten-year performance warranty

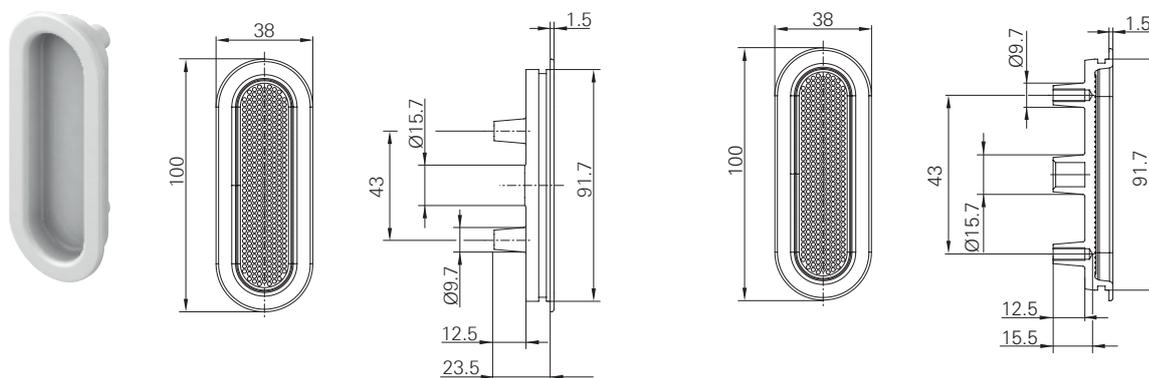
#### Scope of delivery

- 2 handles
- 2 profile cylinder escutcheons
- 4 fixing screws, can be shortened

100	R01.1	Natural silver	anod.	Y	4	M5x100	1 Piece(s)	786179
	R01.5	Silver	powd-c	Y	4	M5x100	1 Piece(s)	786221
	R02.2	Anthracite grey	powd-c	Y	4	M5x100	1 Piece(s)	820799
	R04.4	Black brown	powd-c	Y	4	M5x100	1 Piece(s)	796931
	R05.3	Medium bronze	anod.	Y	4	M5x100	1 Piece(s)	786180
	R05.4	Dark bronze	powd-c	Y	4	M5x100	1 Piece(s)	786181
	R05.5	Bronze	anod.	Y	4	M5x100	1 Piece(s)	786182
	R06.2M	Jet black, matt	powd-c	Y	4	M5x100	1 Piece(s)	786222
R07.2	Traffic white	powd-c	Y	4	M5x100	1 Piece(s)	786183	

								Nº
135	R01.1	Natural silver	anod.	Y	4	M5x110	1 Piece(s)	786225
	R01.5	Silver	powd-c	Y	4	M5x110	1 Piece(s)	786220
	R04.4	Black brown	powd-c	Y	4	M5x110	1 Piece(s)	796932
	R05.3	Medium bronze	anod.	Y	4	M5x110	1 Piece(s)	786226
	R05.4	Dark bronze	powd-c	Y	4	M5x110	1 Piece(s)	786227
	R05.5	Bronze	anod.	Y	4	M5x110	1 Piece(s)	786228
	R06.2M	Jet black, matt	powd-c	Y	4	M5x110	1 Piece(s)	786229
R07.2	Traffic white	powd-c	Y	4	M5x110	1 Piece(s)	786230	

## 8.2.18 Recessed grip – oval



### Product description

- Can be routed in
- Ten-year performance warranty

### Scope of delivery

- 1 recessed grip

### without domed section

								Nº
43	R01.1	Natural silver	anod.	N	-	-	10 Piece(s)	820028
	R01.2	Nickel silver	anod.	N	-	-	10 Piece(s)	820029
	R01.3	Titanium	anod.	N	-	-	10 Piece(s)	820030
	R01.5	Silver	powd-c	N	-	-	10 Piece(s)	820031
	R05.3	Medium bronze	anod.	N	-	-	10 Piece(s)	820033
	R05.4	Dark bronze	powd-c	N	-	-	10 Piece(s)	820034
	R05.5	Bronze	anod.	N	-	-	10 Piece(s)	820055
	R06.2M	Jet black, matt	powd-c	N	-	-	10 Piece(s)	820070
	R07.2	Traffic white	powd-c	N	-	-	10 Piece(s)	820057
	R07.3	Cream	powd-c	N	-	-	10 Piece(s)	820058
R00.0	Uncoated	-	N	-	-	10 Piece(s)	820059	

### with domed section

								Nº
43	R01.1	Natural silver	anod.	N	-	-	10 Piece(s)	494472
	R05.3	Medium bronze	anod.	N	-	-	10 Piece(s)	494473
	R05.5	Bronze	anod.	N	-	-	10 Piece(s)	614625
	R07.2	Traffic white	powd-c	N	-	-	10 Piece(s)	494474

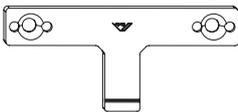


## 8.2.19 Accessories

### 8.2.19.1 Geared-handle

#### 8.2.19.1.1 T connector

Timber / PVC



#### Product description

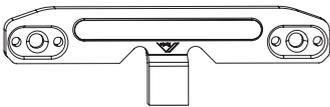
- Connector for attaching geared-handles
- for 13 mm axis
- can be shortened, also for 9 mm axis

#### Scope of delivery

- 1 T connector
- 4 countersunk self-tapping screws with hexalobular socket
- 2 screws, M5 x 12

		<b>Nº</b>
HK T connector	1 Piece(s)	785865

#### Aluminium



#### Product description

- Connector for attaching geared-handles

#### Scope of delivery

- 1 T connector
- 4 countersunk self-tapping screws with hexalobular socket
- 2 screws with hexalobular socket, M5 x 25
- 2 screws with hexalobular socket, M5 x 8
- 2 square nuts

		<b>Nº</b>
AL T connector	1 Piece(s)	785866



### 8.2.19.1.2 T connector set



#### Product description

- Connector set for attaching geared-handles
- Predetermined breaking point to enable the installation of two main corner drives on the central locking system

#### Scope of delivery

- 1 T connector
- 2 fixing screws



#### INFO

All Roto Line geared-handles can be used.

→ 3.1.5 "Geared-handle" from page 94

→ 3.1.6 "Geared-handle – lockable 100 Nm" from page 95

					
AL T connector set	Coupling point, 10 mm	2	M5x12	10 Piece(s)	728981



### 8.2.19.1.3 Individual component



#### Product description

- Espagnolette support for mounting geared-handles
- Optional use for thin-walled sash profiles

#### Scope of delivery

- 1 espagnolette support



#### INFO

Can be used for all Roto Line geared-handles.

				<b>Nº</b>
Espagnolette support	For Roto Line AL geared-handle	13.5	100 Piece(s)	331937



**8.2.19.1.4 Set (individual component with screws)**



**Product description**

- Espagnolette support for mounting geared-handles
- Optional use for thin-walled sash profiles

**Scope of delivery**

- 1 espagnolette support
- 2 fixing screws



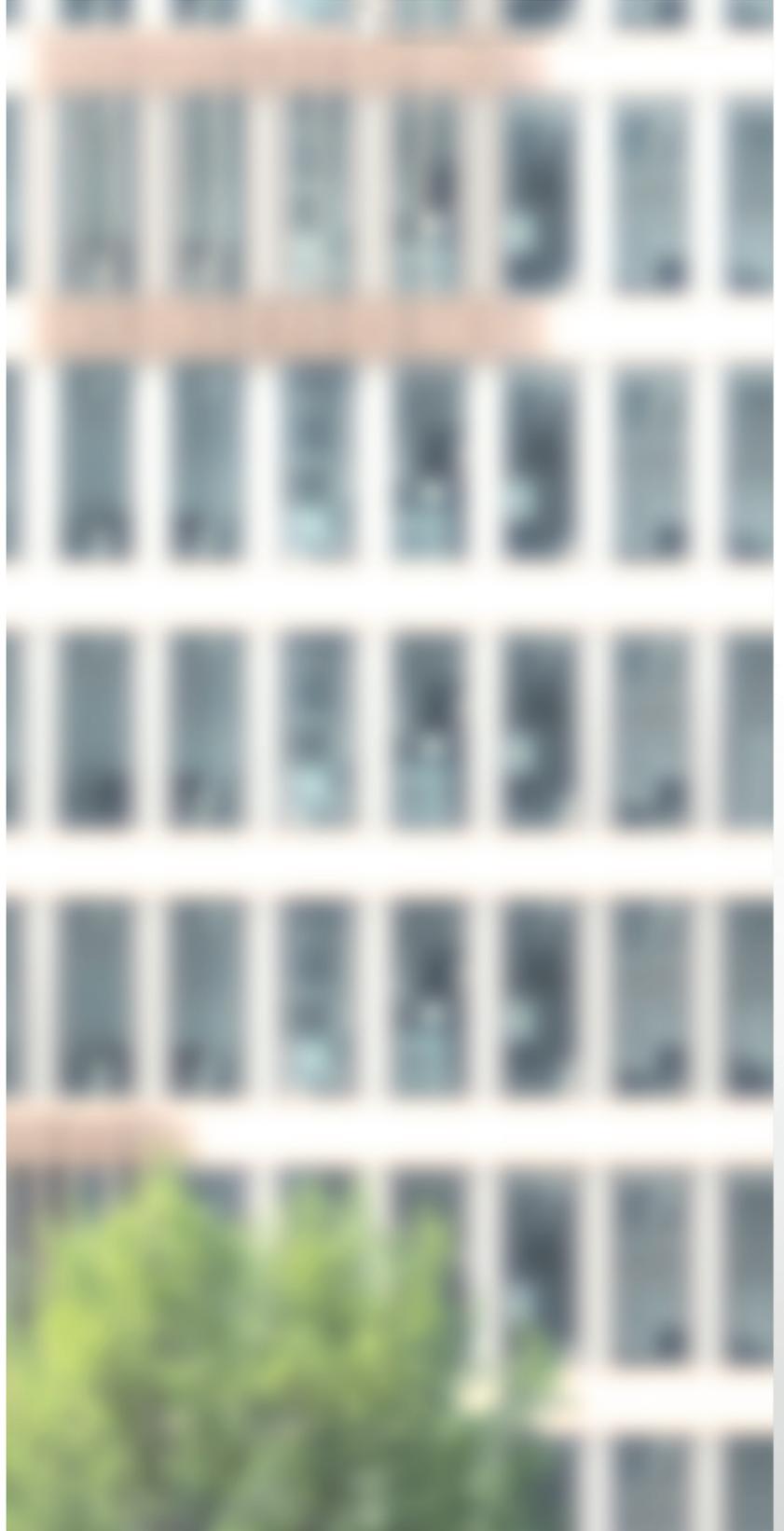
**INFO**

Can be used for all Roto Line geared-handles.

AL espagnolette support set	For Roto Line AL geared-handle	2	M5x12	10 Piece(s)	728853



**Roto Patio** Inowa







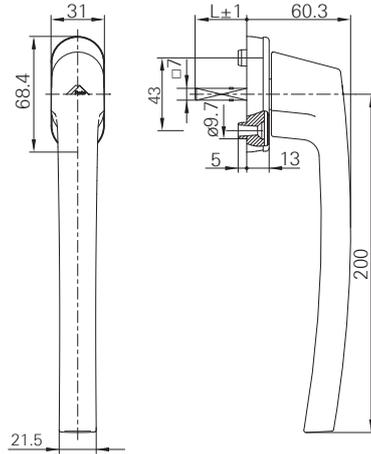
**Roto Line**

Standard – 200 mm	220
Push-to-open – 200 mm	221
Lockable 100 Nm – 200 mm	222
Half-set on the inside – with square spindle	224
Half-set on the outside – without square spindle	225
Recessed grip – oval	226
Recessed grip – square, symmetrical	227
Recessed grip – square, asymmetrical	228

## 9 Roto Patio Inowa

### 9.1 Roto Line

#### 9.1.1 Standard – 200 mm



#### Product description

- Basic handle without additional functions
- 180° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

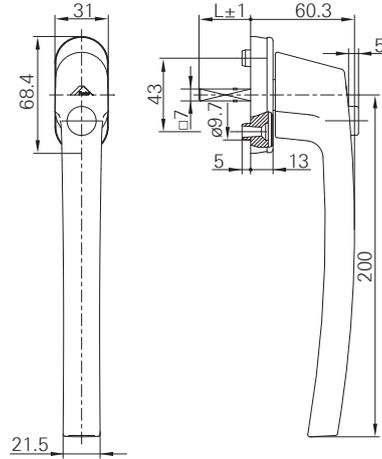
#### Scope of delivery

- 1 handle
- 2 fixing screws, can be shortened

43	R01.1	Natural silver	anod.	Y	2	M5x50	1 Piece(s)	799005
	R02.2	Anthracite grey	powd-c	Y	2	M5x50	1 Piece(s)	2036641
	R06.2M	Jet black, matt	powd-c	Y	2	M5x50	1 Piece(s)	798990
	R07.2	Traffic white	powd-c	Y	2	M5x50	1 Piece(s)	798991



### 9.1.2 Push-to-open – 200 mm



#### Product description

- Handle with push-to-open mechanism
- The push function makes locking and unlocking possible
- 180° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

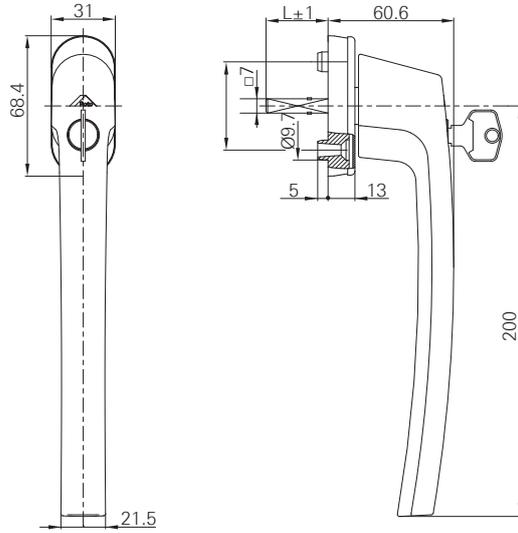
#### Scope of delivery

- 1 handle
- 2 fixing screws, can be shortened



43	R01.1	Natural silver	powd-c	Y	2	M5x50	1 Piece(s)	798992
	R02.2	Anthracite grey	powd-c	Y	2	M5x50	1 Piece(s)	2036640
	R06.2M	Jet black, matt	powd-c	Y	2	M5x50	1 Piece(s)	798993
	R07.2	Traffic white	powd-c	Y	2	M5x50	1 Piece(s)	798994

### 9.1.3 Lockable 100 Nm – 200 mm



#### Product description

- Lockable handle with tested torque 100 Nm
- Closure: push cylinder with reversible key
- Simple and quick locking by pressing the cylinder
- Meets the requirements of DIN EN 1627-1630, RC 1 – RC 6
- 90° lock-in position
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 18*

#### Scope of delivery

- 1 handle
- 1 key
- 2 fixing screws, can be shortened



#### INFO

Further information on lockable handles → *from page 21.*

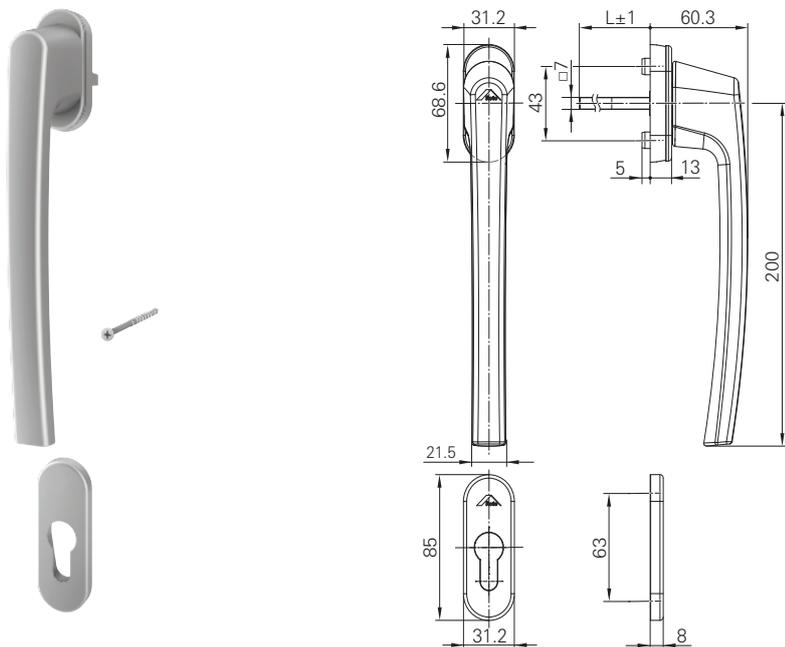
24	R01.1	Natural silver	anod.	Y	2	M5x30	1 Piece(s)	815217	
	R01.5	Silver	anod.	Y	2	M5x30	1 Piece(s)	815218	
	R06.2M	Jet black, matt	powd-c	Y	2	M5x30	1 Piece(s)	815219	
32	R01.1	Natural silver	anod.	Y	2	M5x40	1 Piece(s)	786719	
	R01.2	Nickel silver	anod.	Y	2	M5x40	1 Piece(s)	786720	
	R01.3	Titanium	anod.	Y	2	M5x40	1 Piece(s)	786732	
	R01.5	Silver	powd-c	Y	2	M5x40	1 Piece(s)	786733	
	R05.3	Medium bronze	anod.	Y	2	M5x40	1 Piece(s)	786397	
	R05.4	Dark bronze	powd-c	Y	2	M5x40	1 Piece(s)	786398	
	R05.5	Bronze	anod.	Y	2	M5x40	1 Piece(s)	787000	
	R06.2M	Jet black, matt	powd-c	Y	2	M5x40	1 Piece(s)	787002	
R07.2	Traffic white	powd-c	Y	2	M5x40	1 Piece(s)	786399		



								N <sup>o</sup>
37	R01.1	Natural silver	anod.	Y	2	M5x45	1 Piece(s)	780586
	R01.2	Nickel silver	anod.	Y	2	M5x45	1 Piece(s)	786396
	R01.3	Titanium	anod.	Y	2	M5x45	1 Piece(s)	780587
	R01.5	Silver	powd-c	Y	2	M5x45	1 Piece(s)	786734
	R05.3	Medium bronze	anod.	Y	2	M5x45	1 Piece(s)	780588
	R05.4	Dark bronze	powd-c	Y	2	M5x45	1 Piece(s)	780589
	R05.5	Bronze	anod.	Y	2	M5x45	1 Piece(s)	780590
	R06.2M	Jet black, matt	powd-c	Y	2	M5x45	1 Piece(s)	787003
	R07.2	Traffic white	powd-c	Y	2	M5x45	1 Piece(s)	780591
R07.3	Cream	powd-c	Y	2	M5x45	1 Piece(s)	780592	
43	R01.1	Natural silver	anod.	Y	2	M5x50	1 Piece(s)	780593
	R01.2	Nickel silver	anod.	Y	2	M5x45	1 Piece(s)	786730
	R01.3	Titanium	anod.	Y	2	M5x50	1 Piece(s)	780594
	R01.5	Silver	powd-c	Y	2	M5x50	1 Piece(s)	786755
	R02.2	Anthracite grey	powd-c	Y	2	M5x50	1 Piece(s)	820798
	R04.4	Black brown	powd-c	Y	2	M5x50	1 Piece(s)	796930
	R05.3	Medium bronze	anod.	Y	2	M5x50	1 Piece(s)	780595
	R05.4	Dark bronze	powd-c	Y	2	M5x50	1 Piece(s)	780596
	R05.5	Bronze	anod.	Y	2	M5x50	1 Piece(s)	780597
	R06.2M	Jet black, matt	powd-c	Y	2	M5x50	1 Piece(s)	787004
	R07.2	Traffic white	powd-c	Y	2	M5x50	1 Piece(s)	780598
	R07.3	Cream	powd-c	Y	2	M5x50	1 Piece(s)	780599



### 9.1.4 Half-set on the inside – with square spindle



#### Product description

- Inside: standard handle with profile cylinder escutcheon
- Handle length 200 mm
- Concealed screw fixing
- 90° lock-in position
- Ten-year performance warranty

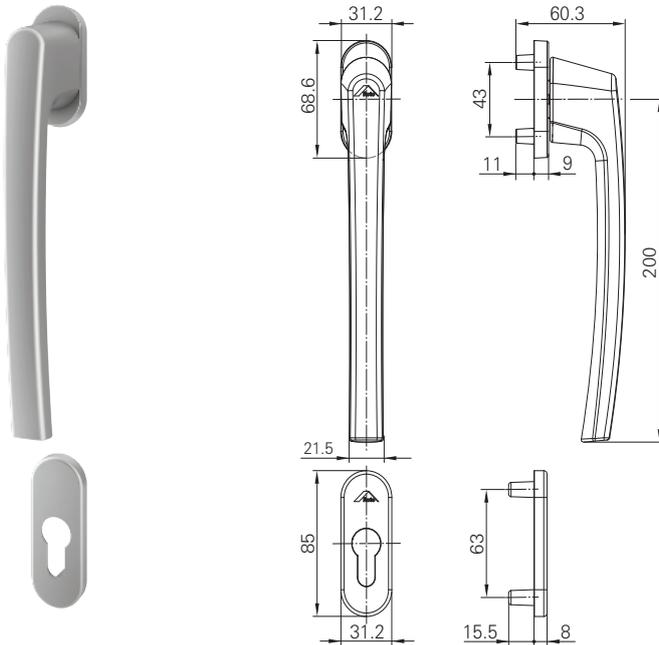
#### Scope of delivery

- 1 handle with square spindle, can be shortened
- 1 profile cylinder escutcheon
- 4 fixing screws, can be shortened

118	Natural silver	R01.1	anod.	N	4	M5x110	1 Piece(s)	2021304
	Jet black, matt	R06.2M	powd-c	N	4	M5x110	1 Piece(s)	2021305
	Traffic white	R07.2	powd-c	N	4	M5x110	1 Piece(s)	2021306



### 9.1.5 Half-set on the outside – without square spindle



#### Product description

- Outside: standard handle with profile cylinder escutcheon
- Handle length 200 mm
- 90° lock-in position
- Ten-year performance warranty

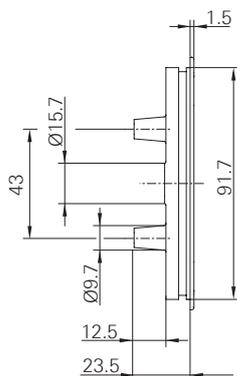
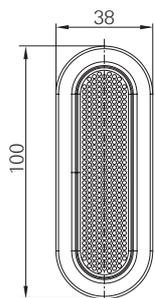
#### Scope of delivery

- 1 handle
- 1 profile cylinder escutcheon



								
118	Natural silver	R01.1	anod.	Y	-	-	1 Piece(s)	2021307
	Anthracite grey	R02.2	anod.	Y	-	-	1 Piece(s)	2036639
	Jet black, matt	R06.2M	powd-c	Y	-	-	1 Piece(s)	2021308
	Traffic white	R07.2	powd-c	Y	-	-	1 Piece(s)	2021309

### 9.1.6 Recessed grip – oval



#### Product description

- Can be routed in
- Ten-year performance warranty

#### Scope of delivery

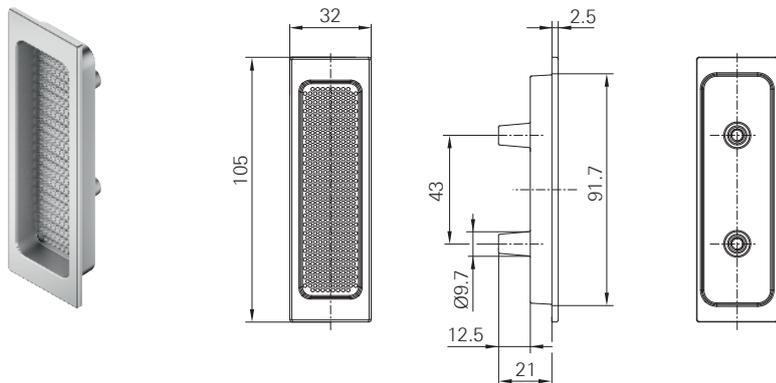
- 1 recessed grip

#### Recessed grip without domed section

43	R01.1	Natural silver	anod.	N	-	-	10 Piece(s)	820028
	R01.2	Nickel silver	anod.	N	-	-	10 Piece(s)	820029
	R01.3	Titanium	anod.	N	-	-	10 Piece(s)	820030
	R01.5	Silver	powd-c	N	-	-	10 Piece(s)	820031
	R05.3	Medium bronze	anod.	N	-	-	10 Piece(s)	820033
	R05.4	Dark bronze	powd-c	N	-	-	10 Piece(s)	820034
	R05.5	Bronze	anod.	N	-	-	10 Piece(s)	820055
	R06.2M	Jet black, matt	powd-c	N	-	-	10 Piece(s)	820070
	R07.2	Traffic white	powd-c	N	-	-	10 Piece(s)	820057
	R07.3	Cream	powd-c	N	-	-	10 Piece(s)	820058
R00.0	Uncoated	-	N	-	-	10 Piece(s)	820059	



### 9.1.7 Recessed grip – square, symmetrical



#### Product description

- Can be routed in
- Ten-year performance warranty

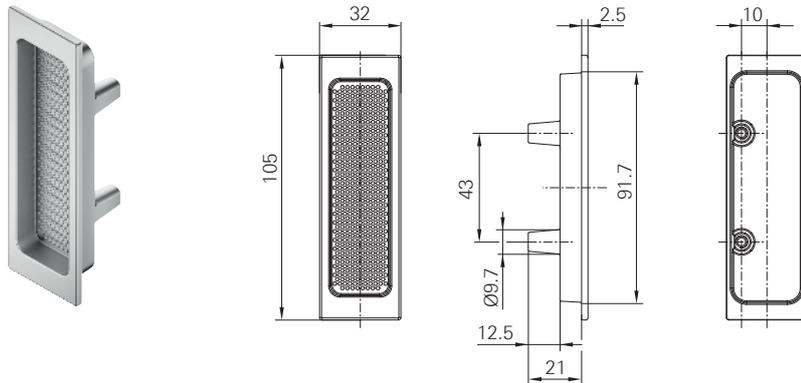
#### Scope of delivery

- 1 recessed grip

								Nº
43	Natural silver	R01.1	anod.	Y	-	-	10 Piece(s)	2010058
	Anthracite grey	R02.2	anod.	Y	-	-	10 Piece(s)	2036642
	Jet black	R06.2	powd-c	Y	-	-	10 Piece(s)	2010064
	Traffic white	R07.2	powd-c	Y	-	-	10 Piece(s)	2010065



### 9.1.8 Recessed grip – square, asymmetrical



#### Product description

- Can be routed in
- Ten-year performance warranty

#### Scope of delivery

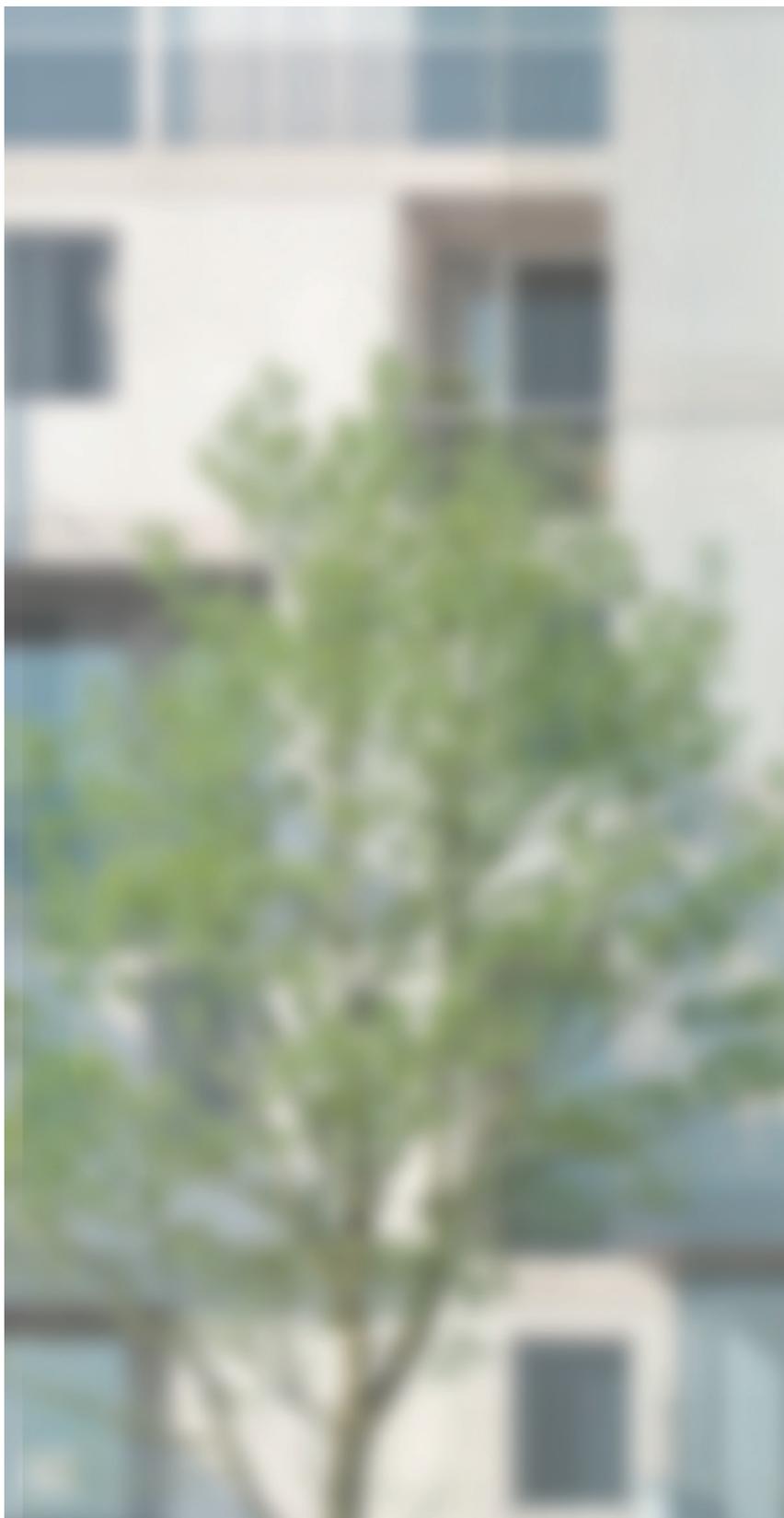
- 1 recessed grip

43	Natural silver	R01.1	anod.	N	–	–	10 Piece(s)	2010066
	Jet black, matt	R06.2M	powd-c	N	–	–	10 Piece(s)	2010067
	Traffic white	R07.2	powd-c	N	–	–	10 Piece(s)	2010068





**Roto Patio** Inline







**Roto Line**

Possible combination	234
Half-set on the inside	235
Half-set on the outside	238
Recessed grip – oval	241
Accessories	242

**Roto Freestyle**

Pop-up	244
Pop-up, lockable	245
Retractable handle	246

## 10 Roto Inline

### 10.1 Roto Line

#### 10.1.1 Possible combination

Roto Line sliding handles offer customers the greatest possible flexibility in use: three interior handle versions and four exterior handle versions can be combined according to customers' individual tastes. Every handle version is available in seven standard colours or uncoated. This allows different colours to be combined for inside and outside.

Roto Line sliding handles also impress with their optimised technology and the outstanding stability achieved by the metal operating lever.

Installation is simple: use the components from the accessory box to connect the interior handle to the exterior handle. For security purposes, the mount for the exterior handle is concealed to prevent the handle being removed.

You can use this three-part system for profile depths of 38–77 mm.

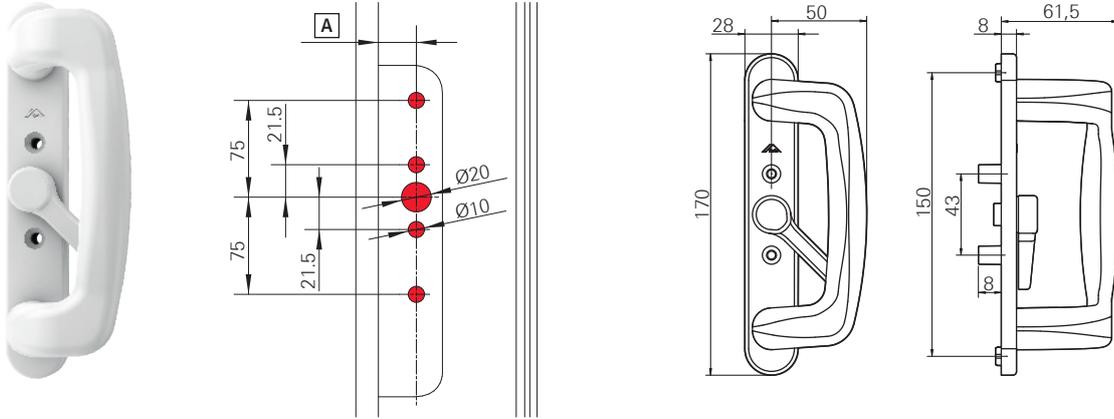
Different accessory boxes have to be used depending on the required handle combination:

Interior handle / exterior handle			
	→ 10.1.5.1 "Accessory box type 1" from page 242	→ 10.1.5.1 "Accessory box type 1" from page 242	→ 10.1.5.1 "Accessory box type 1" from page 242
	→ 10.1.5.2 "Accessory box type 2" from page 243	→ 10.1.5.2 "Accessory box type 2" from page 243	→ 10.1.5.2 "Accessory box type 2" from page 243
	→ 10.1.5.2 "Accessory box type 2" from page 243	→ 10.1.5.2 "Accessory box type 2" from page 243	→ 10.1.5.2 "Accessory box type 2" from page 243
	–	–	→ 10.1.5.3 "Accessory box type 3" from page 243



## 10.1.2 Half-set on the inside

Without cylinder with lever



Assignment	Meaning
[A]	Backset



### Product description

- Short plate
- Simple locking via lever

### Scope of delivery

- 1 handle

							Nº
R01.5	Silver	powd-c	Y	-	-	1 Piece(s)	613222
R03.2	Gold	-	Y	-	-	1 Piece(s)	613223
R04.1	Grey brown	powd-c	Y	-	-	1 Piece(s)	613224
R06.2	Jet black	powd-c	Y	-	-	1 Piece(s)	613225
R07.2	Traffic white	powd-c	Y	-	-	1 Piece(s)	613226
R07.3	Cream	powd-c	Y	-	-	1 Piece(s)	613227
R00.0	Uncoated	-	Y	-	-	1 Piece(s)	613228

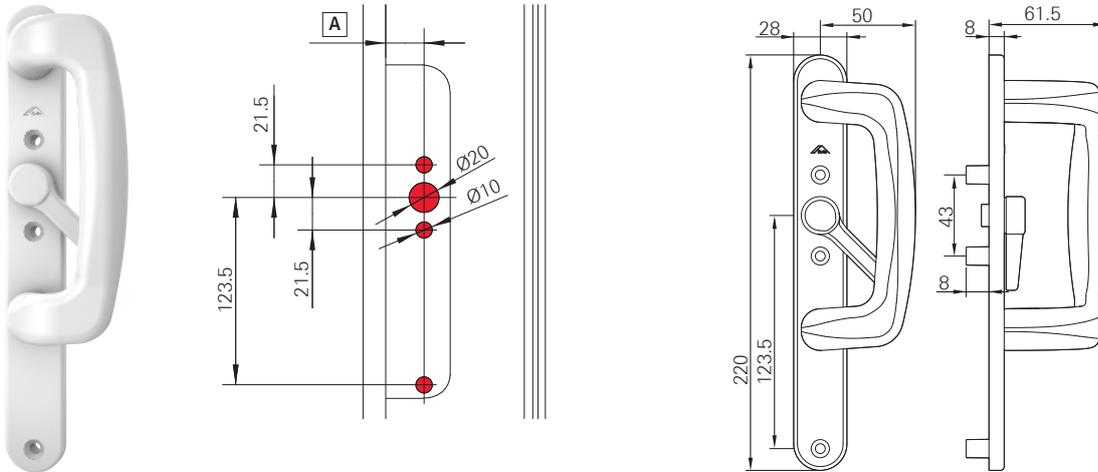


### INFO

The uncoated handle is not supplied assembled.



**Without cylinder, with lever and long plate**



Assignment	Meaning
[A]	Backset



**Product description**

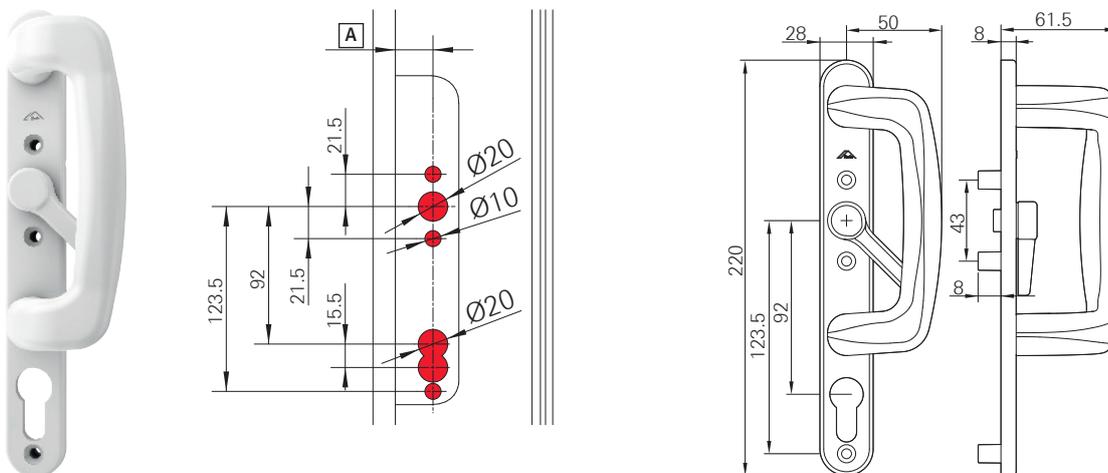
- Long plate
- Simple locking via lever

**Scope of delivery**

- 1 handle

							N <sup>o</sup>
R01.5	Silver	powd-c	Y	-	-	1 Piece(s)	613230
R04.1	Grey brown	powd-c	Y	-	-	1 Piece(s)	613232
R06.2	Jet black	powd-c	Y	-	-	1 Piece(s)	613233
R07.2	Traffic white	powd-c	Y	-	-	1 Piece(s)	613234

**With cylinder and lever**



Assignment	Meaning
[A]	Backset





**Product description**

- Long plate
- Simple locking via lever
- Designed for profile cylinders

**Scope of delivery**

- 1 handle



**INFO**

Profile cylinder is not included in the scope of delivery.

							Nº
R01.5	Silver	powd-c	Y	-	-	1 Piece(s)	613239
R04.1	Grey brown	powd-c	Y	-	-	1 Piece(s)	613241
R06.2	Jet black	powd-c	Y	-	-	1 Piece(s)	613242
R07.2	Traffic white	powd-c	Y	-	-	1 Piece(s)	613243
R07.3	Cream	powd-c	Y	-	-	1 Piece(s)	613244
R00.0	Uncoated	-	Y	-	-	1 Piece(s)	613245



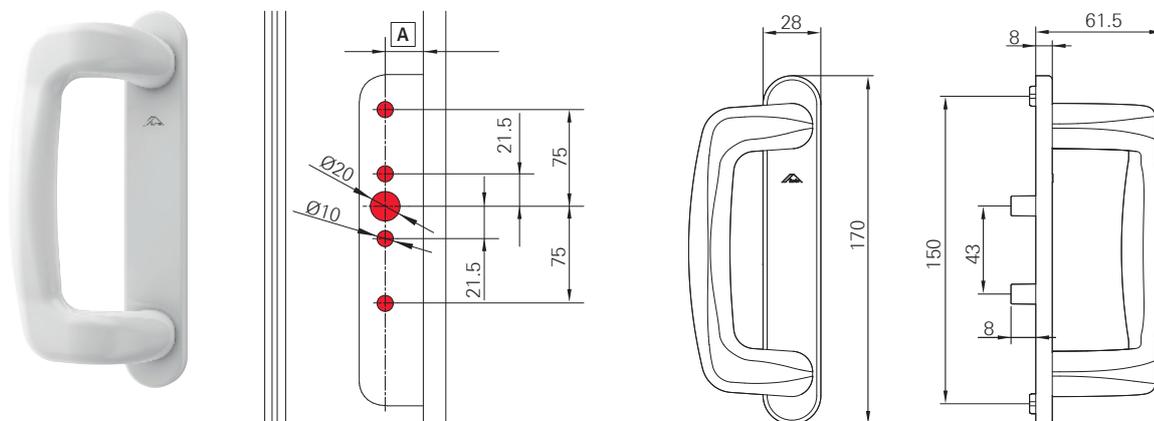
**INFO**

The uncoated handle is not supplied assembled.



### 10.1.3 Half-set on the outside

Without cylinder



Assignment	Meaning
[A]	Backset



#### Product description

- Short plate

#### Scope of delivery

- 1 handle

							Nº
R01.5	Silver	powd-c	Y	-	-	1 Piece(s)	613187
R04.1	Grey brown	powd-c	Y	-	-	1 Piece(s)	613189
R06.2	Jet black	powd-c	Y	-	-	1 Piece(s)	613190
R07.2	Traffic white	powd-c	Y	-	-	1 Piece(s)	613191
R00.0	Uncoated	-	Y	-	-	1 Piece(s)	613193

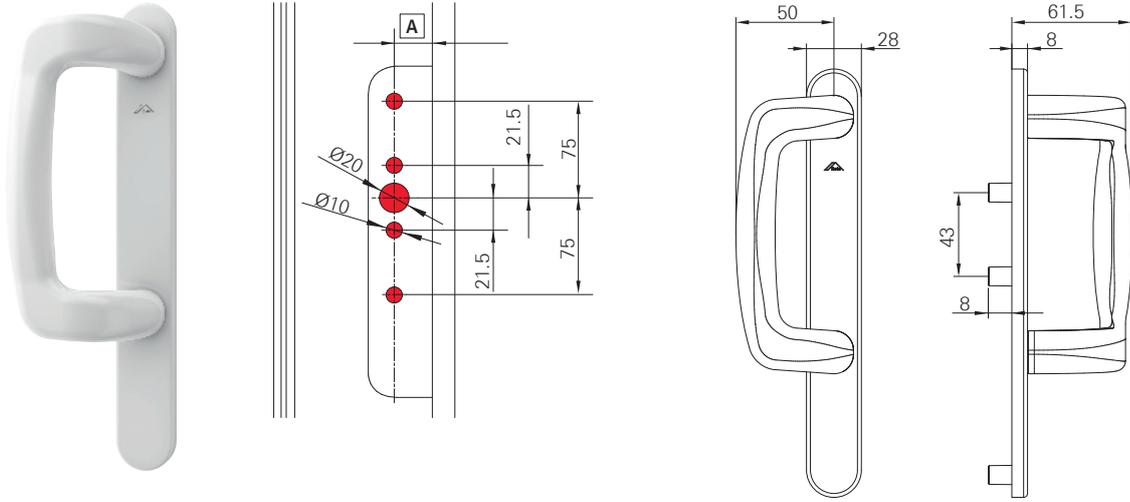


#### INFO

The uncoated handle is not supplied assembled.



**Without cylinder, with long plate**



Assignment	Meaning
[A]	Backset



**Product description**

- Long plate

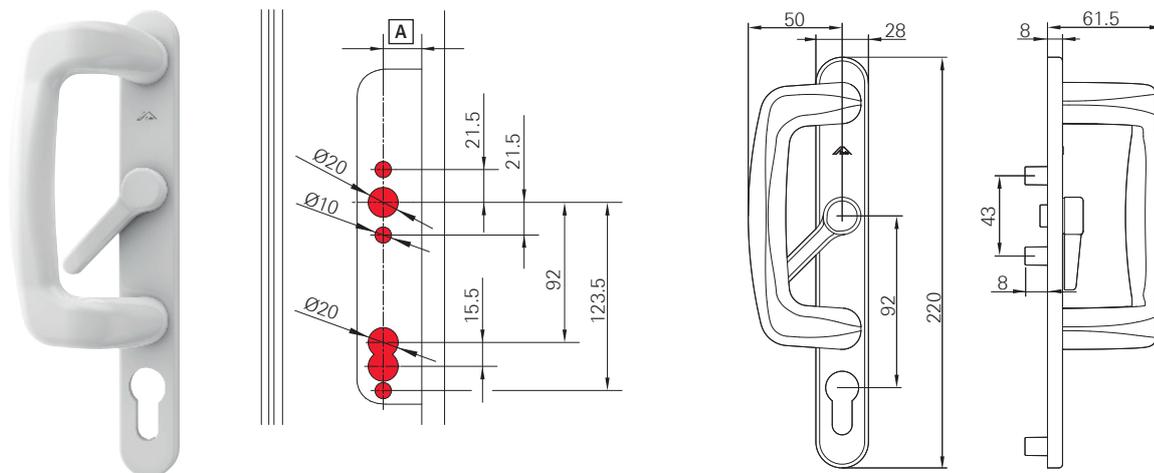
**Scope of delivery**

- 1 handle

							Nº
R01.5	Silver	powd-c	Y	-	-	1 Piece(s)	613195
R04.1	Grey brown	powd-c	Y	-	-	1 Piece(s)	613197
R06.2	Jet black	powd-c	Y	-	-	1 Piece(s)	613198
R07.2	Traffic white	powd-c	Y	-	-	1 Piece(s)	613199



**With cylinder and lever**



Assignment	Meaning
[A]	Backset



**Product description**

- Long plate
- Simple locking via lever
- Designed for profile cylinders

**Scope of delivery**

- 1 handle

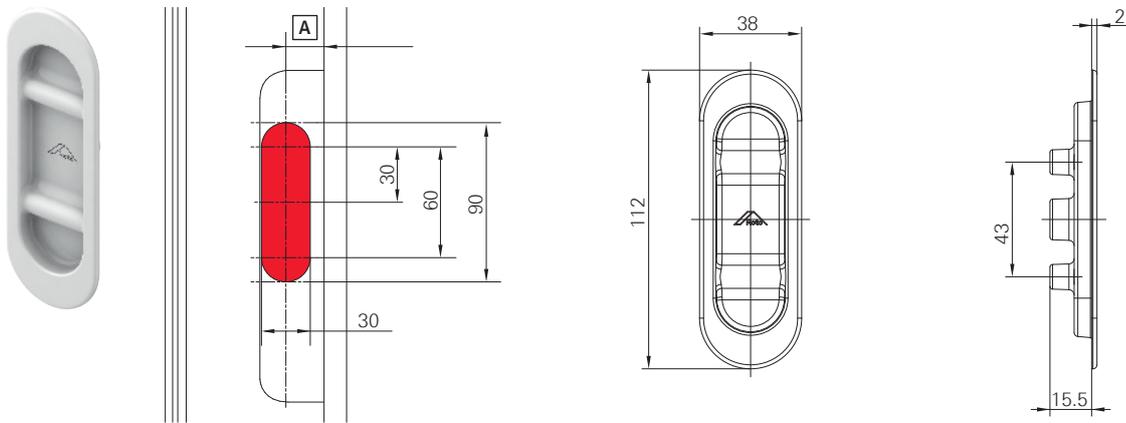
**INFO**  
 Profile cylinder is not included in the scope of delivery.

							<b>Nº</b>
R01.5	Silver	powd-c	Y	-	-	1 Piece(s)	613203
R04.1	Grey brown	powd-c	Y	-	-	1 Piece(s)	613215
R06.2	Jet black	powd-c	Y	-	-	1 Piece(s)	613216
R07.2	Traffic white	powd-c	Y	-	-	1 Piece(s)	613217
R07.3	Cream	powd-c	Y	-	-	1 Piece(s)	613218
R00.0	Uncoated	-	Y	-	-	1 Piece(s)	613219

**INFO**  
 The uncoated handle is not supplied assembled.



### 10.1.4 Recessed grip – oval



Assignment	Meaning
[A]	Backset



#### Product description

- Exterior handle
- Screw fixing with interior handle

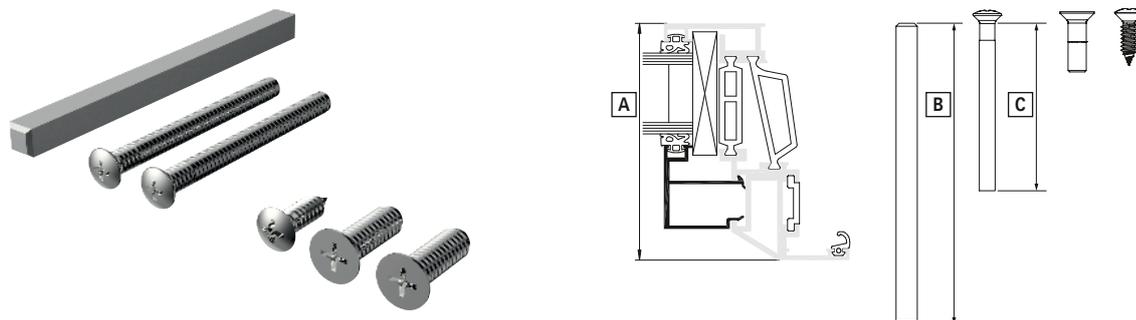
#### Scope of delivery

- 1 recessed grip

								Nº
43	R01.5	Silver	powd-c	Y	-	-	1 Piece(s)	613183
	R03.2	Gold	-	Y	-	-	1 Piece(s)	613184
	R04.1	Grey brown	powd-c	Y	-	-	1 Piece(s)	613185
	R06.2	Jet black	powd-c	Y	-	-	1 Piece(s)	605551
	R07.2	Traffic white	powd-c	Y	-	-	1 Piece(s)	605543
	R07.3	Cream	powd-c	Y	-	-	1 Piece(s)	608183
	R00.0	Uncoated	-	-	Y	-	-	1 Piece(s)



## 10.1.5 Accessories



Assignment	Meaning
[A]	Sash profile depth (AL by way of example)
[B]	Length 1 (square spindle)
[C]	Length 2 (pan-head screws)



### Product description

- Accessories for connecting the exterior handle to the interior handle

### Scope of delivery for type 1

- 1 square spindle
- 2 pan-head screws; screw fixing of interior handle to exterior handle
- 1 pan-head screw; bottom screw hole when long and short handles are combined (no screw hole on the opposite side).
- 2 countersunk screws; attaching the pull handle to the plate

### Scope of delivery for type 2

- 1 square spindle
- 3 pan-head screws; screw fixing of interior handle to exterior handle
- 1 pan-head screw; bottom screw hole when long and short handles are combined (no screw hole on the opposite side).
- 4 countersunk screws; attaching the pull handle to the plate

### Scope of delivery for type 3

- 1 square spindle
- 3 pan-head screws; screw fixing of interior handle to exterior handle
- 4 countersunk screws; attaching the pull handle to the plate

### 10.1.5.1 Accessory box type 1

		N <sup>o</sup>
72 – 76	Length 1: 80 mm   Length 2: 75 mm	613168
67 – 71	Length 1: 70 mm   Length 2: 70 mm	613169
62 – 66	Length 1: 70 mm   Length 2: 65 mm	613170
67 – 61	Length 1: 60 mm   Length 2: 60 mm	613171
51 – 56	Length 1: 60 mm   Length 2: 55 mm	613172
46 – 50	Length 1: 50 mm   Length 2: 50 mm	613173

Length 1 Square spindle [B]

Length 2 Raised countersunk head screws [C]



### 10.1.5.2 Accessory box type 2

		Nº
68 – 77	Length 1: 87 mm   Length 2: 80 mm	613174
58 – 67	Length 1: 77 mm   Length 2: 70 mm	613175
48 – 57	Length 1: 67 mm   Length 2: 60 mm	613176
38 – 47	Length 1: 57 mm   Length 2: 50 mm	613177

Length 1 Square spindle [B]

Length 2 Raised countersunk head screws [C]

### 10.1.5.3 Accessory box type 3

		Nº
68 – 77	Length 1: 100 mm   Length 2: 80 mm	613178
58 – 67	Length 1: 90 mm   Length 2: 70 mm	613179
48 – 57	Length 1: 80 mm   Length 2: 60 mm	613180
38 – 47	Length 1: 70 mm   Length 2: 50 mm	613181

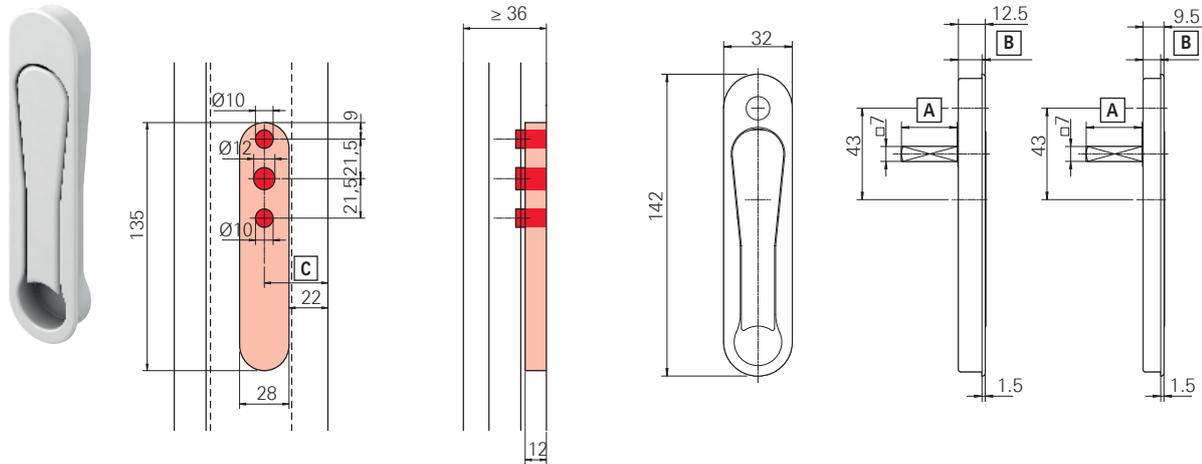
Length 1 Square spindle [B]

Length 2 Raised countersunk head screws [C]



## 10.2 Roto Freestyle

### 10.2.1 Pop-up



Assignment	Meaning
[A]	Spindle length
[B]	Depth
[C]	Backset



#### Product description

- Ideal solution when sliding sashes overlap
- Virtually flush with the surface of the profile
- Minimum effort required for turning
- Can be retracted into the original position
- Two versions: 8 mm or 11 mm deep for various thicknesses

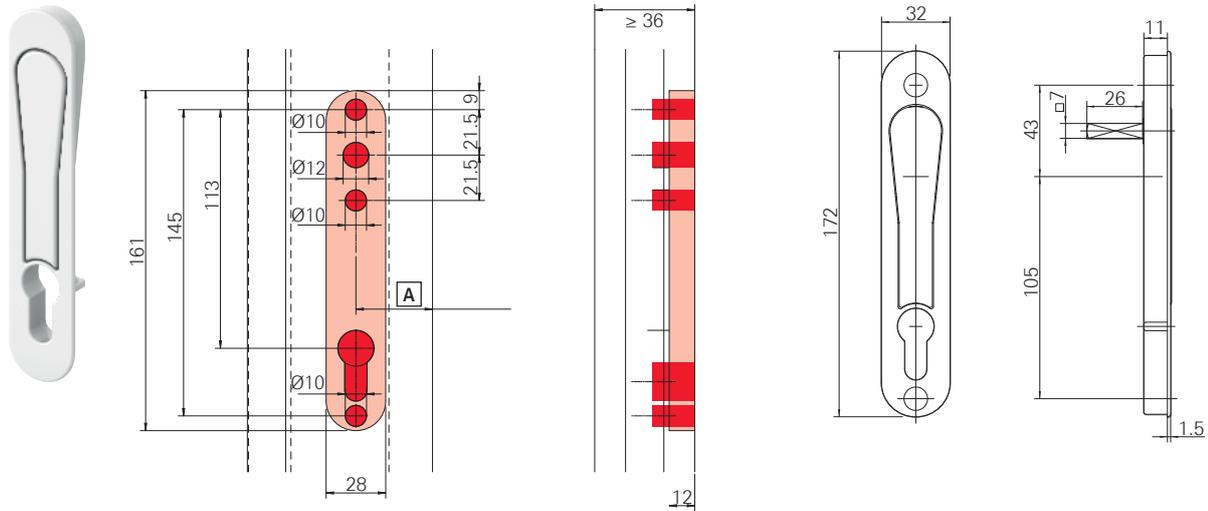
#### Scope of delivery

- 1 handle

21.5	8	R06.2	Jet black	powd-c	Y	-	-	1 Piece(s)	637960
		R07.2	Traffic white	powd-c	Y	-	-	1 Piece(s)	637961
26.5		R01.1	Natural silver	-	Y	-	-	1 Piece(s)	637963
		R06.2	Jet black	powd-c	Y	-	-	1 Piece(s)	614295
		R00.0	Uncoated	-	Y	-	-	1 Piece(s)	637965
		R07.2	Traffic white	powd-c	Y	-	-	1 Piece(s)	570810
21	11	R06.2	Jet black	powd-c	Y	-	-	1 Piece(s)	535466
		R07.2	Traffic white	powd-c	Y	-	-	1 Piece(s)	535465
26		R04.1	Grey brown	powd-c	Y	-	-	1 Piece(s)	323277
		R06.2	Jet black	powd-c	Y	-	-	1 Piece(s)	493898
		R07.1	Pure white	powd-c	Y	-	-	1 Piece(s)	323275
		R07.2	Traffic white	powd-c	Y	-	-	1 Piece(s)	312766
		R07.3	Cream	powd-c	Y	-	-	1 Piece(s)	494495
		R03.2	Gold	powd-c	Y	-	-	1 Piece(s)	323279
		R03.4	Stainless-steel design	-	Y	-	-	1 Piece(s)	323280
		SF	Special colour	powd-c	Y	-	-	1 Piece(s)	494670
		R00.0	Uncoated	-	Y	-	-	1 Piece(s)	312769
45		R06.2	Jet black	powd-c	Y	-	-	1 Piece(s)	561198
		R03.2	Gold	powd-c	Y	-	-	1 Piece(s)	561196
		R03.4	Stainless-steel design	-	Y	-	-	1 Piece(s)	561197



## 10.2.2 Pop-up, lockable



Assignment	Meaning
[A]	Backset



### Product description

- Ideal solution when two sliding sashes overlap
- Virtually flush with the surface of the profile
- Minimum effort required for turning
- Can be retracted into the original position

### Scope of delivery

- 1 handle



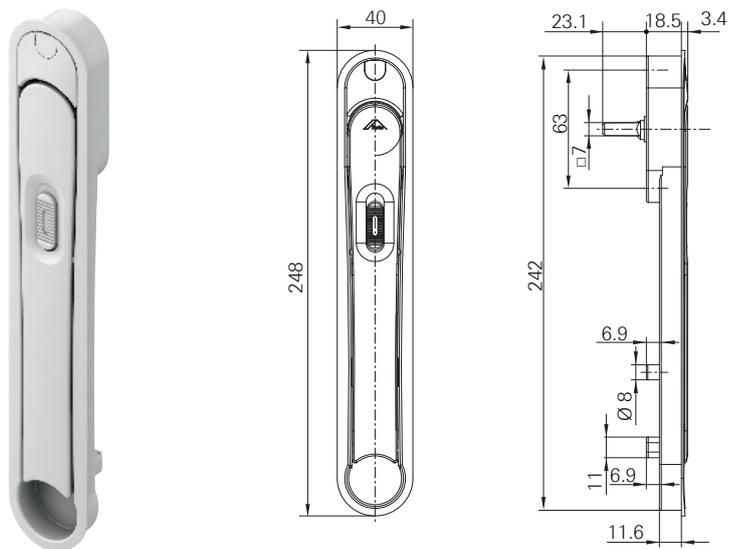
### INFO

Profile cylinder is not included in the scope of delivery.

26	Stainless-steel design	R03.4	-	Y	-	-	1 Piece(s)	323287	
	Traffic white	R07.2	powd-c	Y	-	-	1 Piece(s)	323282	
	Grey brown	R04.1	powd-c	Y	-	-	1 Piece(s)	323283	



### 10.2.3 Retractable handle



#### Product description

- Ideal solution when two sliding sashes overlap
- Virtually flush with the surface of the profile
- Minimum effort required for turning
- Can be retracted into the original position
- Patented mechanism

#### Scope of delivery

- 1 handle

								
20	R01.5	Silver	powd-c	Y	-	-	1 Piece(s)	489867
	R07.2	Traffic white	powd-c	Y	-	-	1 Piece(s)	489865



## Roto Safe







**Roto Line**

Door leaf thickness 56 – 70 mm	252
Door leaf thickness 58 – 62 mm	256
Door leaf thickness 87 – 92 mm	257
Door leaf thickness 97 – 107 mm	261

**Roto Samba**

Door leaf thickness 62 – 70 mm / 87 – 92 mm	263
---	-----

**Roto Freestyle**

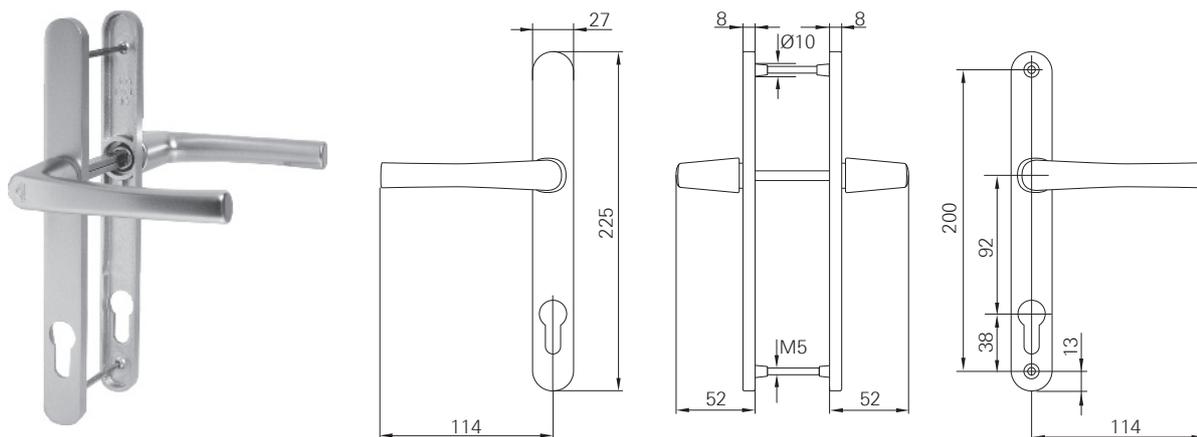
Door leaf thickness 67 – 97 mm	265
--------------------------------	-----

# 11 Roto Safe

## 11.1 Roto Line

### 11.1.1 Door leaf thickness 56 – 70 mm

#### 11.1.1.1 NDHS 27 x 225 mm



#### Product description

- Narrow door handle set (lever handle / lever handle)
- Profile cylinder hole
- Balcony doors and main doors

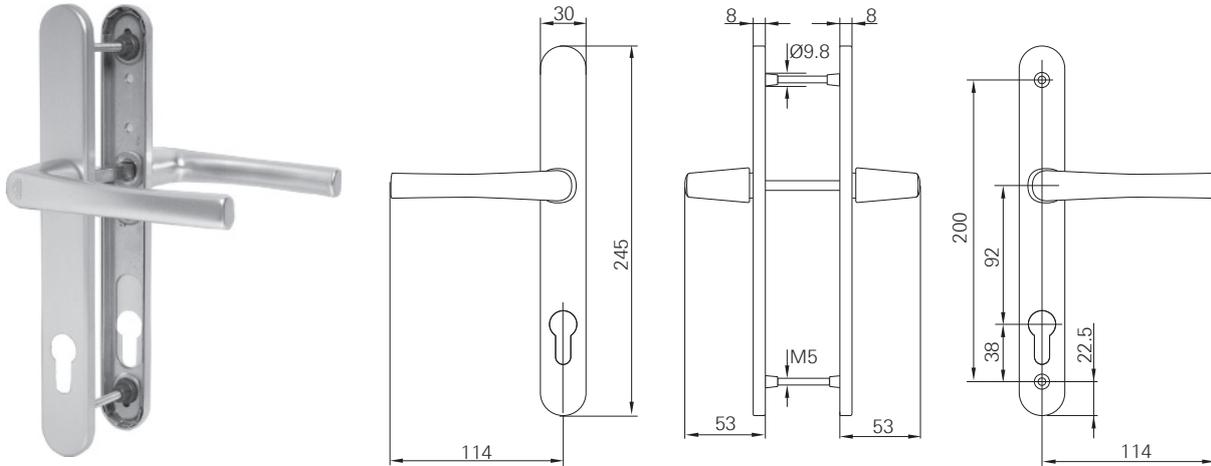
#### Scope of delivery

- 1 handle set
- 1 square spindle: 8 mm
- 2 fixing screws

92	130	R01.4	-	Chromium	2	M5x90	10 Piece(s)	392252



**11.1.1.2 NDHS 30 x 245 mm**



**Product description**

- Narrow door handle set (lever handle / lever handle)
- Profile cylinder hole
- Balcony doors and main doors

**Scope of delivery**

- 1 handle set
- 1 square spindle: 8 mm
- 4 fixing screws



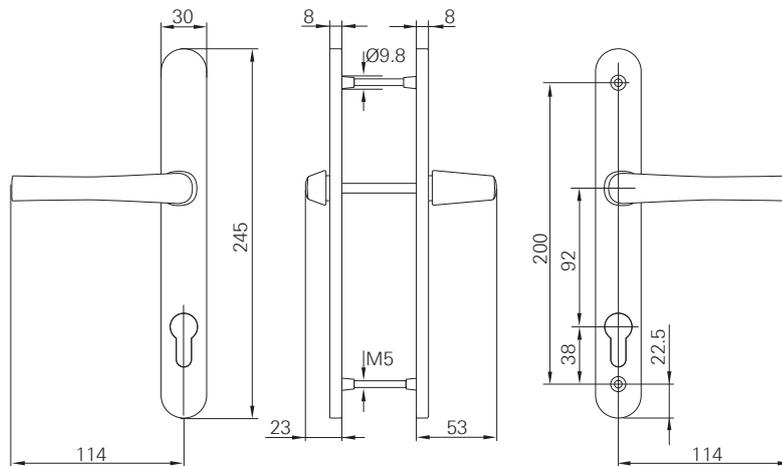
**INFO**

The uncoated door lever handle set does not come assembled.

								<b>Nº</b>
92	130	R01.3	–	Titanium	2	M5x65 M5x75	36 Piece(s)	333215
	130	R01.1	–	Natural silver	2	M5x65 M5x75	36 Piece(s)	319782
	130	R03.3	–	Gold	2	M5x65 M5x75	36 Piece(s)	319953
	130	R04.1	RAL 8019	Grey brown	2	M5x65 M5x75	36 Piece(s)	340317
	130	R04.4	RAL 8022	Black brown	2	M5x65 M5x75	36 Piece(s)	730429
	130	R05.5	–	Bronze	2	M5x65 M5x75	36 Piece(s)	553488
	130	R06.4M	–	Black, matt	2	M5x65 M5x75	36 Piece(s)	319955
	130	R07.2	RAL 9016	Traffic white	2	M5x65 M5x75	36 Piece(s)	319954
	130	R07.3	RAL 9001	Cream	2	M5x65 M5x75	36 Piece(s)	340318
	130	R00.0	–	Uncoated	2	M5x65 M5x75	30 Piece(s)	322928



**11.1.1.3 NDHS 30 x 245 mm – flat external lever handle**



**Product description**

- Narrow door handle set (lever handle / flat lever handle)
- For balcony doors with roller shutters, sun screen, blinds and insect screen

**Scope of delivery**

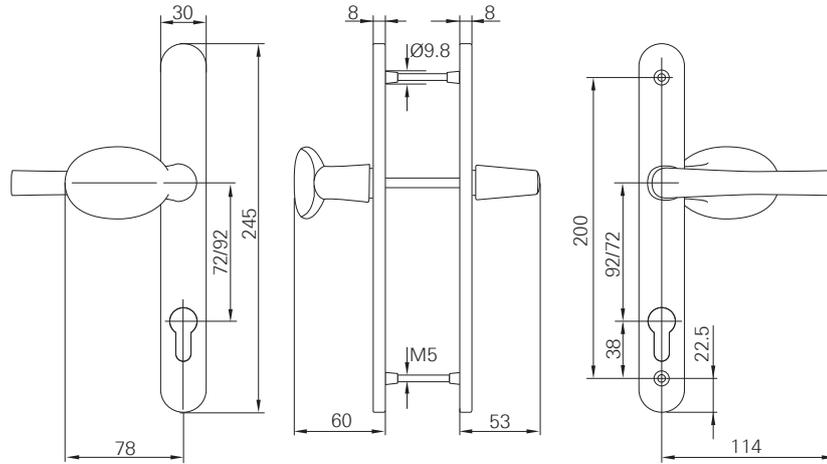
- 1 standard internal lever handle
- 1 flat external lever handle
- 1 square spindle: 8 mm
- 2 fixing screws

92	130	R01.3	–	Titanium	2	M5x80	36 Piece(s)	340493
	130	R01.1	–	Natural silver	2	M5x80	36 Piece(s)	337615
	130	R04.1	RAL 8019	Grey brown	2	M5x80	36 Piece(s)	501397
	130	R06.4M	–	Jet black, matt	2	M5x80	36 Piece(s)	337618
	130	R07.2	RAL 9016	Traffic white	2	M5x80	36 Piece(s)	337617





**11.1.1.4 Plate 30 x 245 mm**



**Product description**

- Combined knob and lever handle set (lever handle / fixed knob)
- Profile cylinder hole
- Balcony doors and main doors

**Scope of delivery**

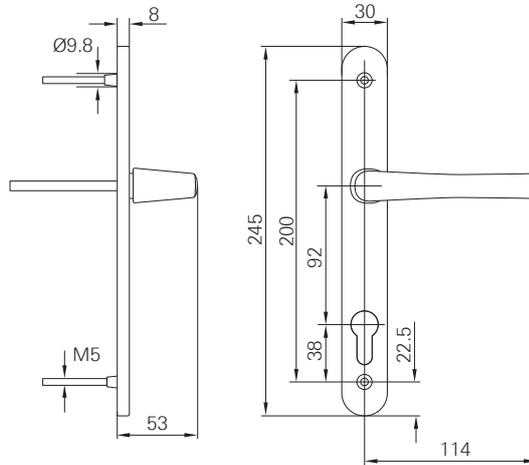
- 1 handle set
- 1 square spindle: 8 mm
- 4 fixing screws

									<b>N<sup>o</sup></b>
92	90	R01.3	–	Titanium	2	M5x65 M5x75	10 Piece(s)		340486
	90	R01.1	–	Natural silver	2	M5x65 M5x75	10 Piece(s)		340320
	90	R04.1	RAL 8019	Grey brown	2	M5x65 M5x75	10 Piece(s)		340322
	90	R06.2	RAL 9005	Jet black	2	M5x65 M5x75	10 Piece(s)		340485
	90	R07.2	RAL 9016	Traffic white	2	M5x65 M5x75	10 Piece(s)		340484



## 11.1.2 Door leaf thickness 58 – 62 mm

### 11.1.2.1 Plate 30 x 245 mm



#### Product description

- Half-set
- Profile cylinder hole
- Balcony doors and main doors

#### Scope of delivery

- 1 standard internal lever handle
- 1 square spindle: 8 mm
- 2 fixing screws

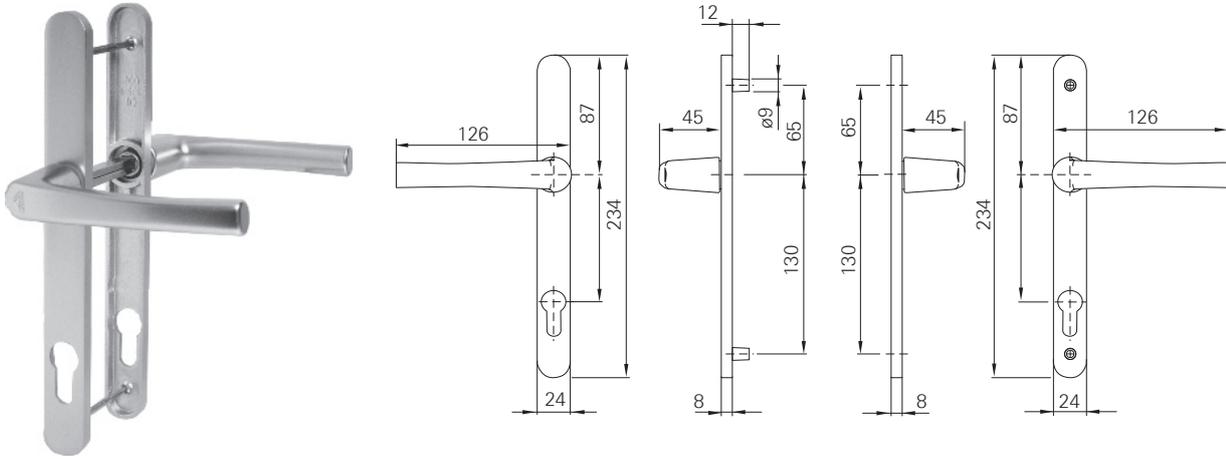
92	80	R01.3	-	Titanium	2	M5x70	72 Piece(s)	333216	
	80	R01.1	-	Natural silver	2	M5x70	72 Piece(s)	337620	
	80	R04.1	RAL 8019	Black brown	2	M5x70	72 Piece(s)	346931	
	80	R06.4M	-	Black, matt	2	M5x70	72 Piece(s)	337623	
	80	R07.2	RAL 9016	Traffic white	2	M5x70	72 Piece(s)	337622	





### 11.1.3 Door leaf thickness 87 – 92 mm

#### 11.1.3.1 Plate 24 x 234 mm



#### Product description

- Narrow door handle set (lever handle / lever handle)
- Square spindle also suitable for door leaf thickness of 76 – 82 mm (can be shortened)
- Profile cylinder hole
- Balcony doors and main doors

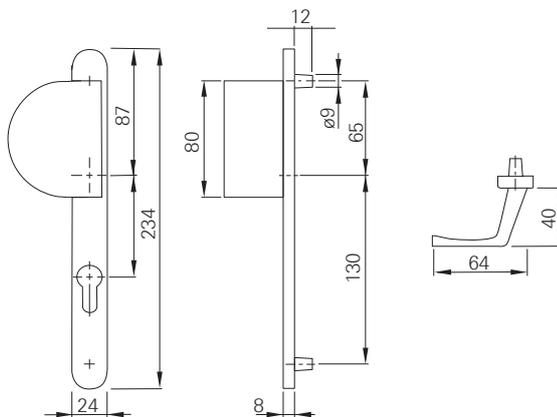
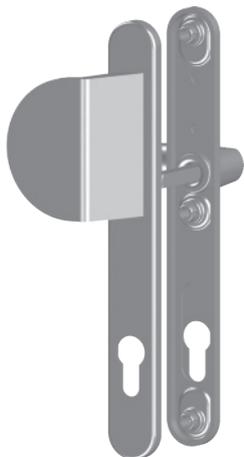
#### Scope of delivery

- 1 handle set
- 1 square spindle: 8 mm
- 4 fixing screws

92	140	R01.1	–	Natural silver	2	M4x100 M4x90	200 Piece(s)	788613
	140	R01.3	–	Titanium	2	M4x100 M4x90	200 Piece(s)	820737



**11.1.3.2 Plate 24 x 234 mm**



**Product description**

- Combined knob and lever handle set (lever handle / fixed knob)
- Square spindle also suitable for door leaf thickness of 76 – 82 mm (can be shortened)
- Profile cylinder hole
- Balcony doors and main doors

**Scope of delivery**

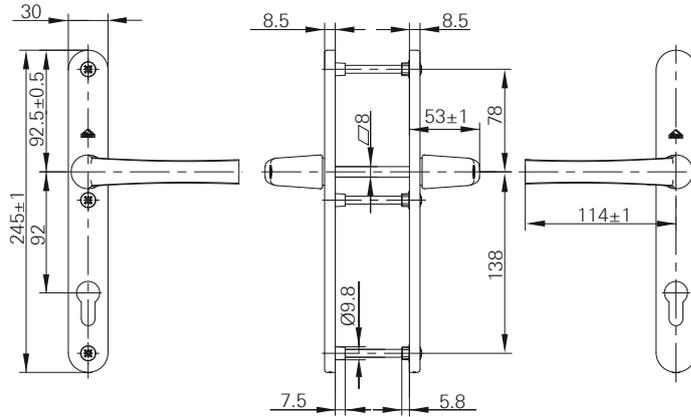
- 1 handle set
  - Standard internal lever handle
  - Fixed external knob
- 1 square spindle: 8 mm
- 4 fixing screws

92	90	R01.3	-	Titanium	2	M4x100 M4x90	200 Piece(s)	820738





11.1.3.3 Plate 30 x 245 mm



Product description

- Narrow door handle set (lever handle / lever handle)
- Profile cylinder hole
- Balcony doors and main doors

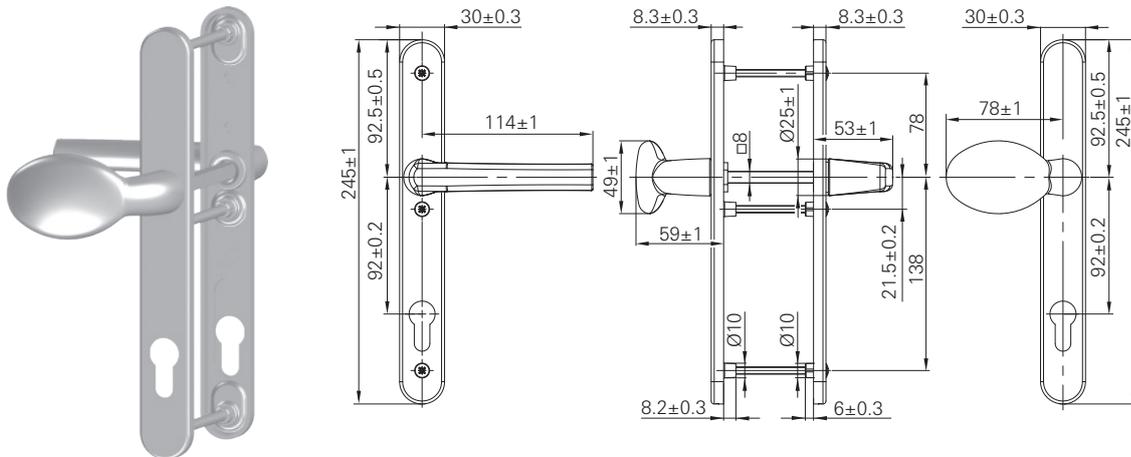
Scope of delivery

- 1 handle set
- 1 square spindle: 8 mm
- 3 fixing screws

92	160	R01.3	-	Titanium	3	M6x100	36 Piece(s)	625036
	160	R01.1	-	Natural silver	3	M6x100	36 Piece(s)	629854
	160	R04.1	RAL 8019	Grey brown	3	M6x100	36 Piece(s)	627767
	160	R04.4	RAL 8022	Black brown	3	M6x100	36 Piece(s)	798256
	160	R04.6	RAL 8077	Dark brown	3	M6x100	36 Piece(s)	771400
	160	R05.3	-	Medium bronze	3	M6x100	36 Piece(s)	632054
	160	R05.5	-	Bronze	3	M6x100	36 Piece(s)	627769
	160	R07.2	RAL 9016	Traffic white	3	M6x100	36 Piece(s)	627766



**11.1.3.4 Plate 30 x 245 mm**



**Product description**

- Combined knob and lever handle set (lever handle / fixed knob)
- Profile cylinder hole
- Balcony doors and main doors

**Scope of delivery**

- 1 handle set
- 1 square spindle: 8 mm
- 3 fixing screws

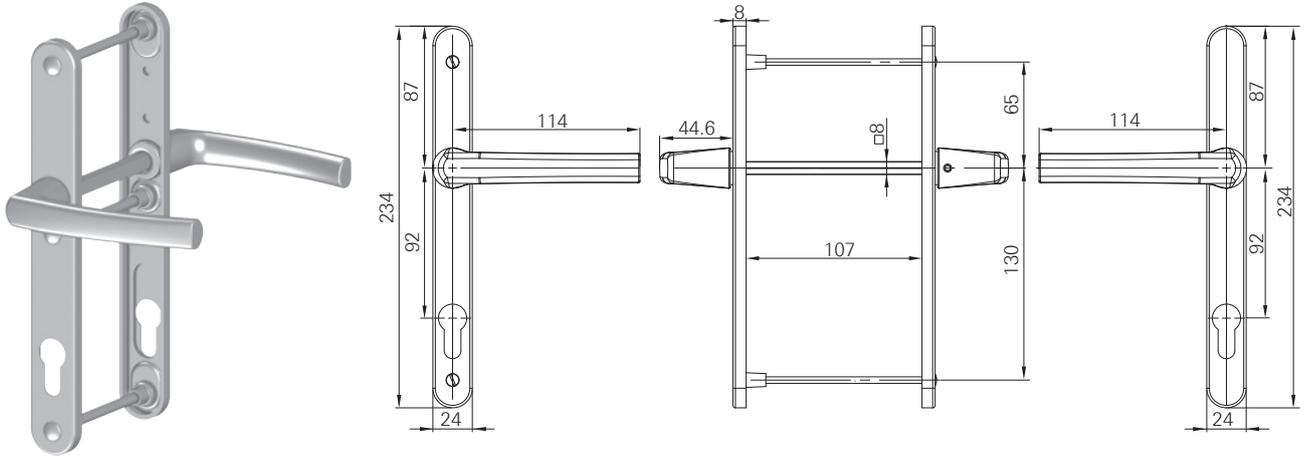
92	120	R01.3	-	Titanium	3	M6x100	10 Piece(s)	625038	
	120	R04.1	RAL 8019	Grey brown	3	M6x100	10 Piece(s)	625042	
	120	R05.5	-	Bronze	3	M6x100	10 Piece(s)	625043	
	120	R07.2	RAL 9016	Traffic white	3	M6x100	10 Piece(s)	625041	





## 11.1.4 Door leaf thickness 97 – 107 mm

### 11.1.4.1 Plate 24 x 234 mm



#### Product description

- Narrow door handle set (lever handle / lever handle)
- Profile cylinder hole
- Balcony doors and main doors

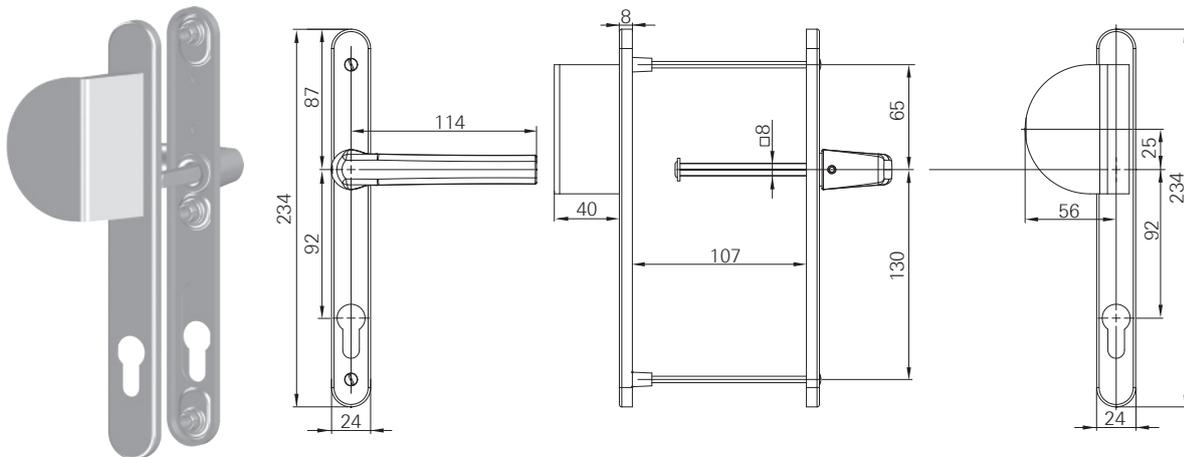
#### Scope of delivery

- 1 handle set
- 1 square spindle: 8 mm
- 2 fixing screws

92	R01.3	-	Titanium	2	M4x110	200 Piece(s)	815063
92	R01.1	-	Natural silver	2	M4x110	200 Piece(s)	815061



**11.1.4.2 Plate 24 x 234 mm**



**Product description**

- Narrow door handle set (lever handle / fixed knob)
- Profile cylinder hole
- Balcony doors and main doors

**Scope of delivery**

- 1 handle set
- 1 square spindle: 8 mm
- 2 fixing screws

							<b>Nº</b>
92	R01.3	–	Titanium	2	M4x110	200 Piece(s)	815062
92	R01.1	–	Natural silver	2	M4x110	200 Piece(s)	815060

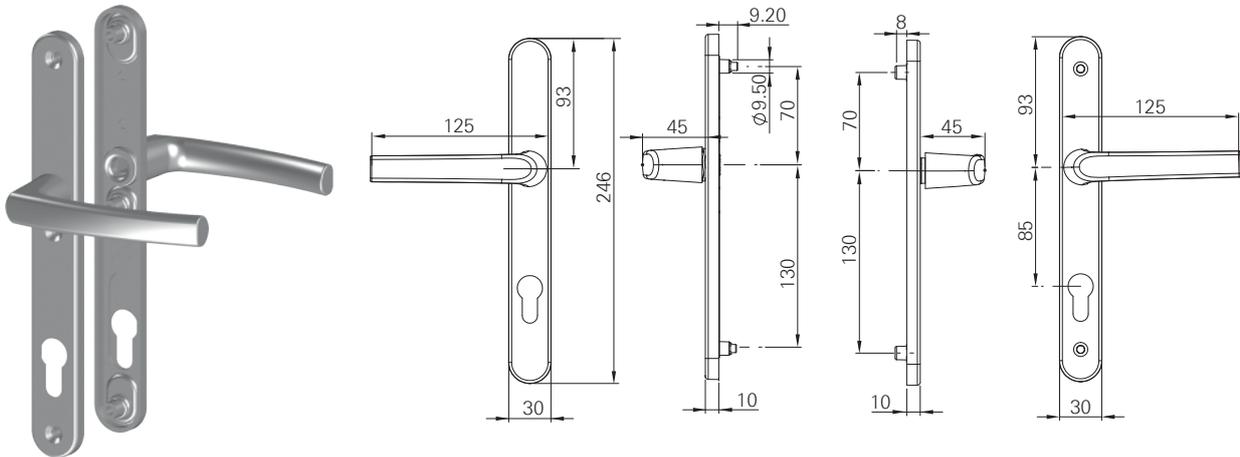




## 11.2 Roto Samba

### 11.2.1 Door leaf thickness 62 – 70 mm / 87 – 92 mm

#### 11.2.1.1 Plate 30 x 246 mm



#### Product description

- Narrow door handle set (lever handle / lever handle)
- Profile cylinder hole
- Balcony doors and main doors

#### Scope of delivery

- 1 door handle set
  - 2 square spindles
- Door leaf thickness 62 – 70 mm: 8 x 115 mm  
Door leaf thickness 87 – 92 mm: 8 x 140 mm
- 4 fixing screws

85	R01.1	–	Natural silver	2	M5x75 M5x95	20 Piece(s)	800289
	R01.2	–	Nickel silver	2	M5x75 M5x95	20 Piece(s)	800290
	R01.3	–	Titanium	2	M5x75 M5x95	20 Piece(s)	800291
	R03.1	–	Brass matt	2	M5x75 M5x95	20 Piece(s)	800292
	R04.4	RAL 8022	Black brown	2	M5x75 M5x95	20 Piece(s)	800288
	R05.3	–	Medium bronze	2	M5x75 M5x95	20 Piece(s)	800293
	R07.2	RAL 9016	Traffic white	2	M5x75 M5x95	20 Piece(s)	800287



**Roto Safe****Roto Samba**

Door leaf thickness 62 – 70 mm / 87 – 92 mm

							<b>Nº</b>
92	R01.1	–	Natural silver	2	M5x75 M5x95	20 Piece(s)	798946
	R01.2	–	Nickel silver	2	M5x75 M5x95	20 Piece(s)	798947
	R01.3	–	Titanium	2	M5x75 M5x95	20 Piece(s)	798948
	R03.1	–	Brass matt	2	M5x75 M5x95	20 Piece(s)	798949
	R04.4	RAL 8022	Black brown	2	M5x75 M5x95	20 Piece(s)	798951
	R05.5	–	Bronze	2	M5x75 M5x95	20 Piece(s)	798950
	R07.2	RAL 9016	Traffic white	2	M5x75 M5x95	20 Piece(s)	798945

**INFO**

When using an 8 x 115 square spindle, use M5 x 75 screws.

When using an 8 x 140 square spindle, use M5 x 95 screws.

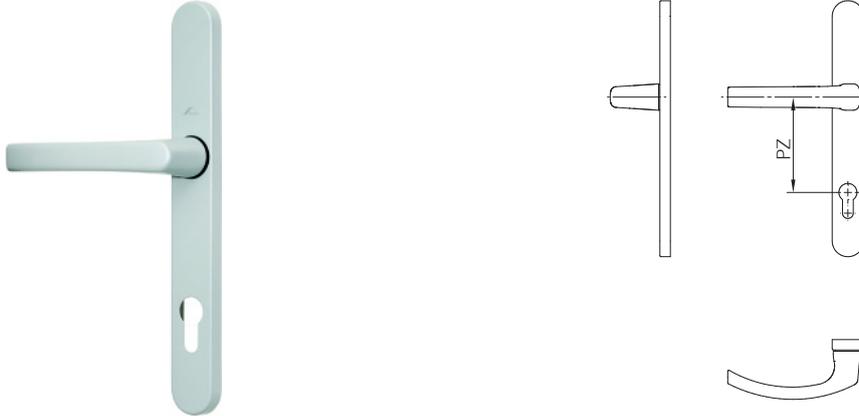




## 11.3 Roto Freestyle

### 11.3.1 Door leaf thickness 67 – 97 mm

#### 11.3.1.1 Plate 30 x 247 mm – half-set on the inside – lever handle



#### Product description

- Half-set (on the inside, lever handle)
  - Profile cylinder hole
- Can be combined with half-set with lever handle on the outside or half-set with knob on the outside
- Balcony doors and main doors

#### Scope of delivery

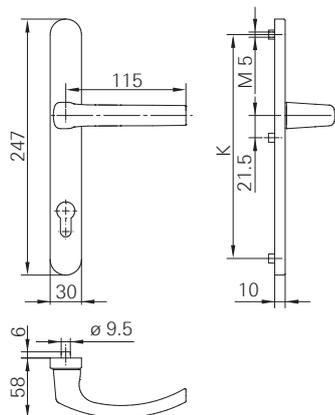
- 1 door handle

						N <sup>o</sup>
92	R07.2	RAL 9016	Traffic white	72 Piece(s)	765921	
	R04.1	RAL 8019	Grey brown	72 Piece(s)	765922	
	R02.2	RAL 7016	Anthracite grey	72 Piece(s)	765923	
	R04.6	RAL 8077	Dark brown	72 Piece(s)	765924	
	R01.11	RAL 9006	White aluminium	72 Piece(s)	766015	
	R01.7	RAL 9007	Grey aluminium	72 Piece(s)	766016	
	R03.5	RAL 1036	Pearl gold	72 Piece(s)	766017	

Accessory set → *from page 268*



**11.3.1.2 Plate 30 x 247 mm – half-set on the outside – lever handle**



**Product description**

- Half-set (on the outside, lever handle)
- Profile cylinder hole
- Can be combined with half-set with lever handle on the inside
- Balcony doors and main doors

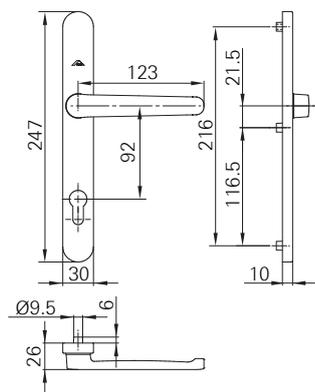
**Scope of delivery**

- 1 door handle

92	R07.2	RAL 9016	Traffic white	72 Piece(s)	764758
	R04.1	RAL 8019	Grey brown	72 Piece(s)	764759
	R02.2	RAL 7016	Anthracite grey	72 Piece(s)	764760
	R04.6	RAL 8077	Dark brown	72 Piece(s)	764761
	R01.11	RAL 9006	White aluminium	72 Piece(s)	764762
	R01.7	RAL 9007	Grey aluminium	72 Piece(s)	764763
	R03.5	RAL 1036	Pearl gold	72 Piece(s)	764764

Accessory set → *from page 268*

**11.3.1.3 Plate 30 x 247 mm – half-set on the outside – flat lever handle**



**Product description**

- Half-set (on the outside, flat lever handle)
- Profile cylinder hole
- Can be combined with half-set with lever handle on the inside
- Balcony doors with roller shutters, sun screen, blinds and insect screen

**Scope of delivery**

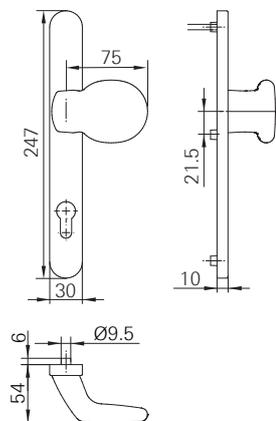
- 1 door handle



					N <sup>o</sup>
92	R07.2	RAL 9016	Traffic white	72 Piece(s)	821386
	R04.1	RAL 8019	Grey brown	72 Piece(s)	821387
	R02.2	RAL 7016	Anthracite grey	72 Piece(s)	821388
	R04.6	RAL 8077	Dark brown	72 Piece(s)	821389
	R01.11	RAL 9006	White aluminium	72 Piece(s)	821430
	R01.7	RAL 9007	Grey aluminium	72 Piece(s)	821431
	R03.5	RAL 1036	Pearl gold	72 Piece(s)	821432

Accessory set → *from page 268*

### 11.3.1.4 Plate 30 x 247 mm – half-set on the outside – knob



#### Product description

- Half-set (on the outside, knob)
- Profile cylinder hole
- Can be combined with half-set with lever handle on the inside
- Balcony doors and main doors

#### Scope of delivery

- 1 door handle

					N <sup>o</sup>
92	R07.2	RAL 9016	Traffic white	72 Piece(s)	764795
	R04.1	RAL 8019	Grey brown	72 Piece(s)	764796
	R02.2	RAL 7016	Anthracite grey	72 Piece(s)	764797
	R04.6	RAL 8077	Dark brown	72 Piece(s)	764798
	R01.11	RAL 9006	White aluminium	72 Piece(s)	764799
	R01.7	RAL 9007	Grey aluminium	72 Piece(s)	764800
	R03.5	RAL 1036	Pearl gold	72 Piece(s)	764801

Accessory set → *from page 268*



**11.3.1.5 Accessory set**

**Scope of delivery**

- 1 square spindle: 8 mm
- Screws: see tables

**Door leaf thickness 67 - 72 mm**

			<b>Nº</b>
100	2	M5x80	765624

**Door leaf thickness 67 - 77 mm**

			<b>Nº</b>
130	2	M5x80	765621

**Door leaf thickness 72 - 82 mm**

			<b>Nº</b>
110	2	M5x90	765685

**Door leaf thickness 77 - 87 mm**

			<b>Nº</b>
140	2	M5x90	765622

**Door leaf thickness 82 - 92 mm**

			<b>Nº</b>
120	2	M5x100	765686

**Door leaf thickness 87 - 97 mm**

			<b>Nº</b>
150	2	M5x100	765623

**Door leaf thickness 92 - 97 mm**

			<b>Nº</b>
130	2	M5x110	765687





## Handle accessories









**External balcony door handles**

See page 274

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**Replacement key**

See page 277

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**Detachable key**

See page 278

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**T&T restrictor**

See page 279

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**Square spindle**

See page 280

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**Roto Cyl-Tec – profile cylinders**

Double cylinder 281

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Knob cylinder 283

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Key blanks 283

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**Flat-headed screw M5 x 12**

See page 284

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## 12 Accessories

### 12.1 External balcony door handles

#### PVC balcony door handles



			Nº
R04.1	Grey brown	20 Piece(s)	228258
R07.2	Traffic white	20 Piece(s)	228259

#### Aluminium balcony door handles



			Nº
R01.1	Natural silver	100 Piece(s)	355837
R01.3	Titanium	100 Piece(s)	785816
R05.3	Medium bronze	100 Piece(s)	355838
R05.5	Bronze	100 Piece(s)	491911
R06.2M	Jet black, matt	100 Piece(s)	896752
R07.2	Traffic white	100 Piece(s)	355839





**Zinc die-cast balcony door handles with mounting plate**



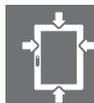
				N <sup>o</sup>
R04.4	–	Black brown	1 Piece(s)	539570
R05.3	–	Medium bronze	1 Piece(s)	539651
R06.2	–	Jet black	1 Piece(s)	539656
R07.2	–	Traffic white	1 Piece(s)	539578
R07.3	–	Cream	1 Piece(s)	539577
R00.0	–	Uncoated	1 Piece(s)	540213
R02.2	RAL 7016	Anthracite grey	1 Piece(s)	539575
R01.11	RAL 9006	White aluminium	1 Piece(s)	539642
R01.7	RAL 9007	Grey aluminium	1 Piece(s)	539780
–	RAL 7001	Silver grey	1 Piece(s)	539576
	RAL 7021	Black grey	1 Piece(s)	2032817
	RAL 7039	Quartz grey	1 Piece(s)	2032815
	DB 703	Micaceous iron oxide	1 Piece(s)	2032816

Other RAL colours are available upon request

**PVC balcony door handles, type 1 for installation on the edge of the profile**



			N <sup>o</sup>
R01.5	Silver	100 Piece(s)	539238
R04.4	Black brown	100 Piece(s)	539010
R07.2	Traffic white	100 Piece(s)	538620



## Accessories

### External balcony door handles

#### PVC balcony door handles, type 2 for installation on the surface of the profile



 Roto			Nº
R01.5	Silver	100 Piece(s)	769002
R04.4	Black brown	100 Piece(s)	539256
R06.2	Jet black	100 Piece(s)	770823
R07.2	Traffic white	100 Piece(s)	539255

Other RAL colours are available upon request





## 12.2 Replacement key



			N <sup>o</sup>
Replacement key 1G1 "large"	44	1 Piece(s)	257830
Replacement key 1G1 "small"	37	1 Piece(s)	639099
Key set with ring	–	10 Piece(s)	208248

Keys are compatible with the following handles:

	Replacement key "small"	Replacement key "large"	Key set with ring
<b>Roto Swing</b>	■	■	–
Roto Swing, TiltFirst	■	–	–
Roto Swing, lockable, 40 Nm	■	–	–
<b>Roto Line</b>	■	■	■
<b>Roto Samba</b>	■	■	–

■ = Standard



## 12.3 Detachable key



### Product description

- Removal tool for the transport safety device of the handle without escutcheon
- In conjunction with Roto Line handle without escutcheon
  - 3.1.8 "Without escutcheon" from page 97
  - 3.1.10 "Without escutcheon – lockable 40 Nm" from page 99

### Scope of delivery

- 1 key

						<b>Nº</b>
Release key for handle without escutcheon	–	–	–	10 Piece(s)	377995	





## 12.4 T&T restrictor



### Product description

- T&T restrictor angle to be mounted on the handle
- T&T restrictor connecting rod to be mounted on the frame

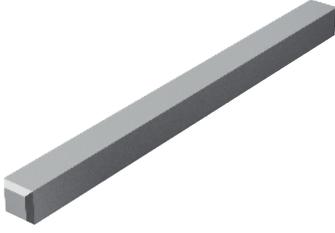
### Scope of delivery

- 1 connecting rod
- 1 angle

			N <sup>o</sup>
Grey brown	R04.1	10 Piece(s)	245686
Traffic white	R07.2	10 Piece(s)	245685



## 12.5 Square spindle



7 x 7

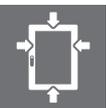
### Product description

- For Roto Line handles without square spindle in the scope of delivery

### Scope of delivery

- 1 square spindle

		Nº
150	10 Piece(s)	287824

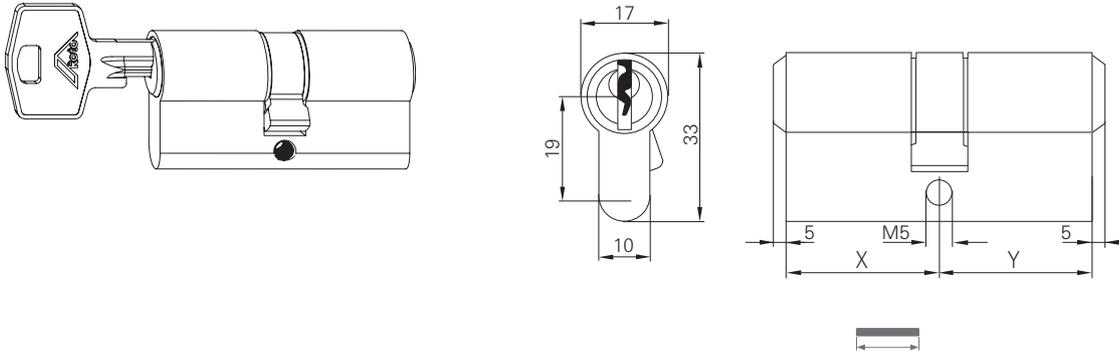




## 12.6 Roto Cyl-Tec – profile cylinders

### 12.6.1 Double cylinder

#### 12.6.1.1 Standard key



[X] and [Y] = profile cylinder length

#### Product description

- Six-pin system with 240,000 combinations
- Tested in accordance with EN 1303
- Key with large knob
- Built-in drilling protection

#### Scope of delivery

- 3 keys
- 1 M5 x 60 fixing screw

				N <sup>o</sup>
Keyed to differ	31 / 31	Nickel-plated	1 Piece(s)	640068
	31 / 35	Nickel-plated	1 Piece(s)	632589
	31 / 40	Nickel-plated	1 Piece(s)	640074
	31 / 45	Nickel-plated	1 Piece(s)	640069
	31 / 50	Nickel-plated	1 Piece(s)	640070
	31 / 55	Nickel-plated	1 Piece(s)	642659
	31 / 60	Nickel-plated	1 Piece(s)	640080
	31 / 70	Nickel-plated	1 Piece(s)	729304
	35 / 35	Nickel-plated	1 Piece(s)	640071
	35 / 40	Nickel-plated	1 Piece(s)	640072
	35 / 45	Nickel-plated	1 Piece(s)	640073
	35 / 50	Nickel-plated	1 Piece(s)	640075
	35 / 55	Nickel-plated	1 Piece(s)	640076
	40 / 40	Nickel-plated	1 Piece(s)	632590
	40 / 45	Nickel-plated	1 Piece(s)	632591
	40 / 50	Nickel-plated	1 Piece(s)	632592
	40 / 55	Nickel-plated	1 Piece(s)	632593
	40 / 60	Nickel-plated	1 Piece(s)	640081
	40 / 70	Nickel-plated	1 Piece(s)	642660
	45 / 45	Nickel-plated	1 Piece(s)	632594
	45 / 50	Nickel-plated	1 Piece(s)	632605
	45 / 55	Nickel-plated	1 Piece(s)	640077
	45 / 60	Nickel-plated	1 Piece(s)	729303
	50 / 50	Nickel-plated	1 Piece(s)	640078
	50 / 60	Nickel-plated	1 Piece(s)	640079
	50 / 70	Nickel-plated	1 Piece(s)	729315



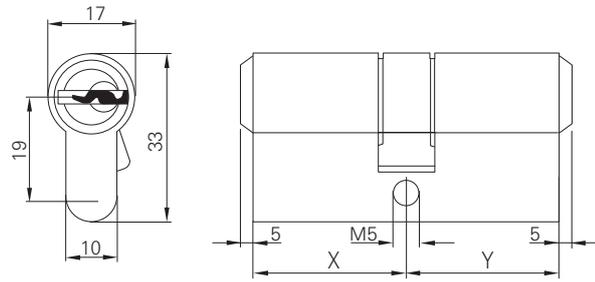
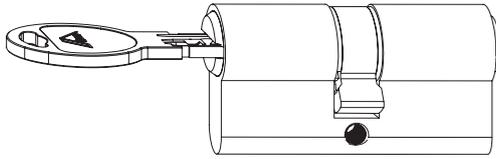
Compatible key blank → *from page 283*

## Accessories

### Roto Cyl-Tec – profile cylinders

Double cylinder

#### 12.6.1.2 Reversible key



[X] and [Y] = profile cylinder length

#### Product description

- Six-pin system with 240,000 combinations
- Tested in accordance with EN 1303
- Key with large knob
- Built-in drilling protection

#### Scope of delivery

- 5 keys
- 1 fixing screw M5 x 60

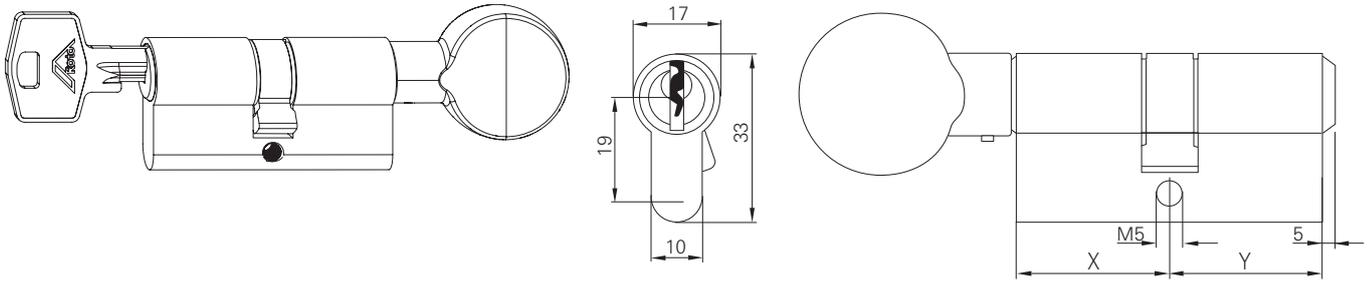
				
Keyed to differ	35 / 65	Nickel-plated	1 Piece(s)	839567
	35 / 75	Nickel-plated	1 Piece(s)	839568
	40 / 40	Nickel-plated	1 Piece(s)	796353
	40 / 45	Nickel-plated	1 Piece(s)	796348
	40 / 50	Nickel-plated	1 Piece(s)	796352
	40 / 60	Nickel-plated	1 Piece(s)	839566
	45 / 45	Nickel-plated	1 Piece(s)	796349
	45 / 50	Nickel-plated	1 Piece(s)	796350
	45 / 55	Nickel-plated	1 Piece(s)	796351
	50 / 60	Nickel-plated	1 Piece(s)	796355
Keyed alike	45 / 50	Nickel-plated	10 Piece(s)	808436
	50 / 60	Nickel-plated	10 Piece(s)	808435

Compatible key blank → *from page 283*





### 12.6.2 Knob cylinder



[X] and [Y] = profile cylinder length

#### Product description

- Six-pin system with 240,000 combinations
- Tested in accordance with EN 1303
- Key with large knob
- Built-in drilling protection

#### Scope of delivery

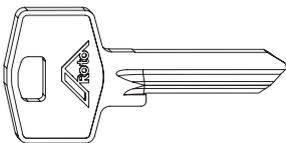
- 3 keys
- 1 fixing screw M5 x 45
- 1 fixing screw M5 x 60

				N <sup>o</sup>
Keyed to differ	30 / 35	Nickel-plated	1 Piece(s)	788794
	35 / 45	Nickel-plated	1 Piece(s)	775103
	40 / 40	Nickel-plated	1 Piece(s)	775098
	45 / 35	Nickel-plated	1 Piece(s)	775099
	45 / 45	Nickel-plated	1 Piece(s)	775101
	45 / 50	Nickel-plated	1 Piece(s)	775102
	50 / 45	Nickel-plated	1 Piece(s)	775100

Compatible key blank → from page 283

### 12.6.3 Key blanks

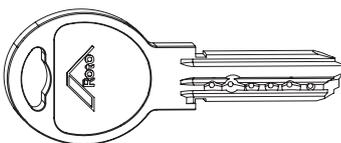
#### Standard key



	N <sup>o</sup>
Key blank for standard key	632626



#### Reversible key



	N <sup>o</sup>
Key blank for reversible key	796354

## Accessories

### Flat-headed screw M5 x 12

## 12.7 Flat-headed screw M5 x 12



#### Product description

- Screw for attaching handles

#### Scope of delivery

- 1 fixing screw

			Nº
Cylinder screw	M5x12	100 Piece(s)	728925





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