Window and Door Technology

Handles
for all opening types

Catalogue
for timber, PVC and aluminium profiles



Country-specific range: Standard

german made
What does that mean?





Roto Frank AG 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, results 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”.

People across the globe trust our superior performance. They know that they can rely on us for custom-designed, functional and reliable solutions and a comprehensive range of services.

The Roto name has represented an inventive spirit and technological progress in compatible components for the construction industry since 1935. Roto Frank AG is currently wholly owned by families descended from the company's founder, Wilhelm Frank. It takes the form of a holding for all companies in the Roto Group. Our roots are in Baden-Württemberg, Germany.

We are active all over the world with an extensive business portfolio, two divisions and more than 4000 employees.

The outstanding quality of Roto solutions frequently goes unseen. Millions of items of Roto hardware have enabled windows and doors all over the world to work correctly and move as intended. Even where Roto products can be seen immediately, they impress because they ensure flawless functionality. Roto roof windows improve the quality of life in the rooms underneath the roof. Flashing for photovoltaics and solar thermal energy and the special stairs from Roto Columbus complete our extensive range of products.

We work intensively on the basis of clear management and conduct principles to secure the position of the Roto Group as a success story and to ensure continued success.

We are inspired time and time again by the requests and expectations of our customers – whether you are a builder, planner, architect, manufacturer or retailer of windows and doors, or manufacturer or specialist retailer for roofing.



Roto
Worldwide



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Buenos Aires (ARG)

Roto Frank Chile
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Roto Frank S.A.
Nivelles (BE)

Roto Frank Brasil Ltd.
San Jose (BR)

Fermax Componentes Ltd.
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Roto Fasco Canada Inc.
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Roto Frank Building Materials Co. Ltd.
Beijing (CN)

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

Roto Frank Austria GmbH
Kalsdorf (AT)

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Roto Frank S.A.
Montmeló (ES

Roto Frank Ltd. Sti.
Istanbul (TR)

Roto Frank of America Inc.
Chester (US)

Roto Elzett Certa Kft.
Lövő / Sopron (HU)

Roto Frank Indonesia
Jakarta (ID)

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

Roto Frank Okucia Budowlane Sp. z
Kiev (UA)

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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
	Sliding
	Folding and sliding
	Lifting

1.1.3 Product features

Symbol	Meaning
	Hardware axis
	Description
	DIN
	Distance
	Colour code
	Colour code, Roto
	Colour
	Information
	Length
	Material number
	Surface
	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 Colours

Colour code, Roto	Colour code, external	Colour
R01.1	–	Natural silver
R01.2	–	Nickel silver
R01.3	–	Titanium
R01.4	–	Chromium
R01.5	–	Silver
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
Untreated	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.

1.1.6 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
CON	Connectable
Met.	Metallised
mm	Millimetres
CL	Centre lock
N	No
Wet-ptd	Wet-painted
Nm	Newton metres
LMD	Lifting mishandling device
Not dep.	Not depicted
Powd.	Powder-coated
RC1 N	Resistance class 1
RC2 / RC2 N	Resistance class 2
SEC	Security

1.1.7 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

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

Design lines



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.

1.3 Roto window handles – 10-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 10-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 18*).

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 10-year performance warranty, Roto by far exceeds the 2-year warranty period stipulated by the German Civil Code (BGB) and the 4-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 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 10 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.

1.4 Product liability guidelines

According to the "product liability law", as a manufacturer, Roto is liable that all its products offer the safety which could be expected after the products' presentation. Therefore, the following guidelines must be adhered to as well as the contents and notes in further documents which are referred to. Non-compliance exempts Roto of its liability.

Product information

Roto operating mechanisms are hardware components which aid the opening and closing motions and/or blocking processes of balcony doors and window elements for building/residential constructions. Supplied fixing materials must be used.

To install hardware components in aluminium profiles, Roto recommends the use of fixing materials made from stainless steel or with a zinc flake coating. Contact corrosion can occur if other fixing materials are used.

Products which are used in an aggressive, corrosive environment are special hardware; they may only be used after consultation with Roto.

Proper specified use

Proper use of a locking system only occurs if

- the locking system has been assembled professionally with permissible hardware, locking appliances (i.e. keys & cylinders), as well as accessories (i.e. striker plate),
- the information, instructions and notes included in this guideline, this catalogue and other technical documents have been followed,
- the relevant mandatory legal provisions and technical standards have been followed,
- the assembly of the locking system was properly performed by experts whilst observing the information, instructions and notes issued by Roto about this and
- the maintenance and care instructions have been followed.

The duration of the adequacy of a product particularly depends on

- the operational frequency,
- the operational manner,
- the environment and care.

It is necessary to replace an operating element if the function cannot be guaranteed any more or if the surface creates an injury risk despite maintenance and care.

The locking systems are designed for profile cylinders.

The locking systems are not suitable for deformations and modifications of the final sealing-closure as a result of differences in temperature or building modifications.

The respective entire hardware set (locking system) must be properly assembled from Roto original hardware components. If non-Roto hardware components are used, Roto is not liable for any malfunctions or damages caused by them.

Windows and balcony doors for damp rooms and for use in environments with aggressive, corrosive air-content require special hardware.

Misuse (inappropriate or incorrect use)

In the event of a deviation from the correct use, a misuse or product abuse occurs which leads to a liability exclusion.

This particularly holds if

- auxiliary tools have been used for operation (e.g. pliers or attached pipes),
- additional loads (retaining and bracing forces) have been introduced (e.g. placing an object underneath a door handle to block the door),
- forces are used on the handle which exceed normal hand force (e.g. when attempting to remove a block of a Tilt&Turn hardware with an increased use of force or when using door handles as a retaining element e.g. with children),
- strange objects and/or incorrect objects are introduced (e.g. pins from outside manufacturers or the combination of non-Roto and Roto components),

- interventions or attacks occur which influence function (e.g. attempted break-ins or -outs with auxiliary tools with lockable window handles),
- the surface is damaged with sharp objects,
- because of the use of a non-Roto or non-specified object in the hardware system or striker plate perfect operation is prevented,
- a burglary attempt is carried out on the hardware system or striker plate, which results in a modification of the construction, or affects its function.

Further notes on misuse can be found in the product-specific documentation.

Product maintenance

The correct performance-related location of the hardware components and the fixing materials must be ensured!

For all moving parts – depending on demand possibly more often – the following maintenance work is to be carried out annually:

Hardware systems should be treated with maintenance agents recommended by Roto depending on demand.

They should not be treated with strong acids and alkaline solutions. Contamination with plaster and similar materials must be avoided in every case. Only cleaning agents which do not contain corrosive materials should be used.

Obligation to issue information and instructions

For further information, the following documents are available for trade, planners, architects, the consulting institutions, the fabricators, builders and users:

- catalogues and brochures,
- tendering texts,
- purchasing information,
- offer documents,
- instructions for assembly, operation and care.

Roto is also on hand to advise.

To select a Roto hardware system and for assembly, operation and care,

- architects, planners and consulting institutions are advised to order all necessary product information from Roto and observe it;
- specialised dealers are advised to observe the product information and notes contained in the documentation and also to order all necessary instructions from Roto and distribute them to fabricators;
- fabricators are advised to observe all product information and also to order operation and maintenance instructions from Roto and distribute to clients and users.

1.5 Quality assurance requirement

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

The European standard DIN EN 13126 consists of 19 parts. It deals with hardware for windows and balcony doors. Part 3 of this standard series has been completely reworked (edition February 2012). Using a 9-digit classification key (see → *from page 21*), it defines requirements and test procedures for operating handles, particularly for Tilt&Turn, Tilt-First and Turn-Only hardware.

In the first place of the classification key, two utilization categories of operating handles have been introduced whilst considering different quality levels in Europe. The higher grade 2 represents the known and established product characteristics of previous RAL window handles. The seventh position defines 3 grades for the protective effect of lockable window handles. It was designed according to the requirements of the European standard for burglary-inhibition DIN EN 1627.

The European standard does not set requirements for the dimensions of the window handles. These are prescribed in DIN 18267 (e.g. spindle 7 mm, inside micrometer of the screw fixing 43 mm).

The reworked DIN EN 13126-3 forms the foundation of the newly established quality guideline RAL-GZ 607/9 (version September 2012). For this, it is a minimum requirement that window handles correspond to grade 2 of the utilization category and grade 2 or 3 of the protection effect (see tables → *from page 21*). Aside from this, now RAL-GZ 607/9 makes the following distinctions:

1.5.1 RAL

Window handles with RAL-capable lock-in position, at least 10,000 Tilt&Turn cycles, at least 48 h corrosion resistance in a salt spray test.

RAL – Minimum requirements in accordance with DIN EN 13126-3:

Utilization category	Durability (long-term functional tests)	Mass	Fire resistance	Utilization safety	Corrosion resistance	Protection effect	Application	Test size
2	3/180	-	0	1	2	0/0	3/C1	-

1.5.2 RAL100

Lockable or bar-able window handle with RAL-capable lock-in position, at least 10,000 Tilt&Turn cycles, at least 48 h corrosion resistance in a salt spray test, 100 Nm resistance against twisting off and ripping off, deadbolt or locking mechanism with at least 100 possible locking variations.

RAL100 – Minimum classification according to DIN EN 13126-3:

Utilization category	Durability (long-term functional tests)	Mass	Fire resistance	Utilization safety	Corrosion resistance	Protection effect	Application	Test size
2	3/180	-	0	1	2	2/1[1]	3/C1	-
2	3/180	-	0	1	2	2/3[2]	3/C1	-

1.5.3 RAL200

Lockable or bar-able window handle with RAL-capable lock-in position, at least 10,000 Tilt&Turn cycles, at least 48 h corrosion resistance in a salt spray test, 200 Nm resistance against twisting off and ripping off, deadbolt or locking mechanism with at least 100 possible locking variations.

RAL200 – Minimum classification according to DIN EN 13126-3:

Utilization category	Durability (long-term functional tests)	Mass	Fire resistance	Utilization safety	Corrosion resistance	Protection effect	Application	Test size
2	3/180	-	0	1	2	3/1	3/C1	-
2	3/180	-	0	1	2	3/3	3/C1	-

[1] Deadbolt mechanism

[2] Locking mechanism

1.5.4 Classification key in DIN EN 13126-3

1st digit: Category of use

Grade 1

Click torque before and after durability testing	Between-clicks torque $M_0 \leq 1.4$ Nm Click-out torque $M_a \leq 6.0$ Nm Difference $M_d \geq 0.4$ Nm
Free play perpendicular or parallel to the mounting plane	$\Delta \leq 6.0$ mm
Torsional strength 220 N/85 mm/30 s	Permissible deformation $\Delta \leq 5.0$ mm
Tensile strength of spindle joining	$F \geq 100$ N
Eccentric tensile strength	$F = 1200$ N

Grade 2

Click torque before and after durability testing	Between-clicks torque $M_0 \leq 0.8$ Nm Click-out torque $M_a \leq 4.0$ Nm Difference $M_d \geq 0.8$ Nm
Free play perpendicular or parallel to the mounting plane	$\Delta \leq 4.0$ mm
Torsional strength 220 N/85 mm/30 s	Permissible deformation $\Delta \leq 2.0$ mm
Tensile strength of spindle joining	$F \geq 100$ N
Eccentric tensile strength	$F = 1200$ N

2nd digit: Durability

Grade 3/90	10,000 turn-only cycles
Grade 4/90	15,000 turn-only cycles
Grade 5/90	25,000 turn-only cycles
Grade 3/180	10,000 tilt and turn cycles
Grade 4/180	15,000 tilt and turn cycles
Grade 5/180	25,000 tilt and turn cycles

3rd digit: Mass

No requirement according to the main section of EN 13126-1

4th digit: Fire resistance

No requirement according to the main section of EN 13126-1

5th digit: Safety in use

Grade 1 in accordance with main section of EN 13126-1

6th digit: Corrosion resistance

Minimum grade 2 of EN 1670, in accordance with main section of EN 13126-1

7th digit: Security

(in accordance with additional test parameters)

Grade 0	Without security
Grade 1	35 Nm resistance against twisting-off and forcing-off

Grade 2	100 Nm resistance against twisting-off and forcing-off
Grade 3	200 Nm resistance against twisting-off and forcing-off
Extension 0	No locking mechanism
Extension 1	Non-keyed locking mechanism
Extension 2	Keyed locking mechanism with ≤ 99 locking varieties
Extension 3	Keyed locking mechanism with ≥ 100 locking varieties

This results in the following possible combinations for the 7th digit:

0/0	Without security/without locking mechanism
1/1	35 Nm resistance against twisting-off and forcing-off/non-keyed locking mechanism
1/2	35 Nm resistance against twisting-off and forcing-off/keyed locking mechanism with ≤ 99 locking variations
1/3	35 Nm resistance against twisting-off and forcing-off/keyed locking mechanism with minimum 100 locking variations
2/1	100 Nm resistance against twisting-off and forcing-off/non-keyed locking mechanism
2/2	100 Nm resistance against twisting-off and forcing-off/keyed locking mechanism with ≤ 99 locking variations
2/3	100 Nm resistance against twisting-off and forcing-off/keyed locking mechanism with minimum 100 locking variations
3/1	200 Nm resistance against twisting-off and forcing-off/non-keyed locking mechanism
3/2	200 Nm resistance against twisting-off and forcing-off/keyed locking mechanism with ≤ 99 locking variations
3/3	200 Nm resistance against twisting-off and forcing-off/keyed locking mechanism with minimum 100 locking variations

8th digit: Application

Applicable part of this European standard: Grade 3

Application N	No click function
Application C	Click function
Type 1	Window handle
Type 2	Geared window handle

This results in the following possible combinations for the 8th digit:

3/N1	Part 3/no click function/window handle
3/N2	Part 3/no click function/geared window handle
3/C1	Part 3/with click function/window handle
3/C2	Part 3/with click function/geared window handle

9th digit: Test size

No requirement

Example:

Category of use	Durability	Mass	Fire resistance	Safety in use	Corrosion resistance Brass surface (polished / painted) grade 4	Security	Application	Test size
2	3/180	-	0	1	5	0/0	3/C1	-

Explanation:

1. Handle with category of use grade 2
2. Tested with 10,000 tilt and turn cycles
3. No requirements for window mass (not requested)
4. No requirements for fire resistance (not requested)
5. Safety in use grade 1 (only provided as such)
6. Corrosion resistance grade 2 according to DIN EN 1670 (corresponding to 48 h in neutral salt spray test)

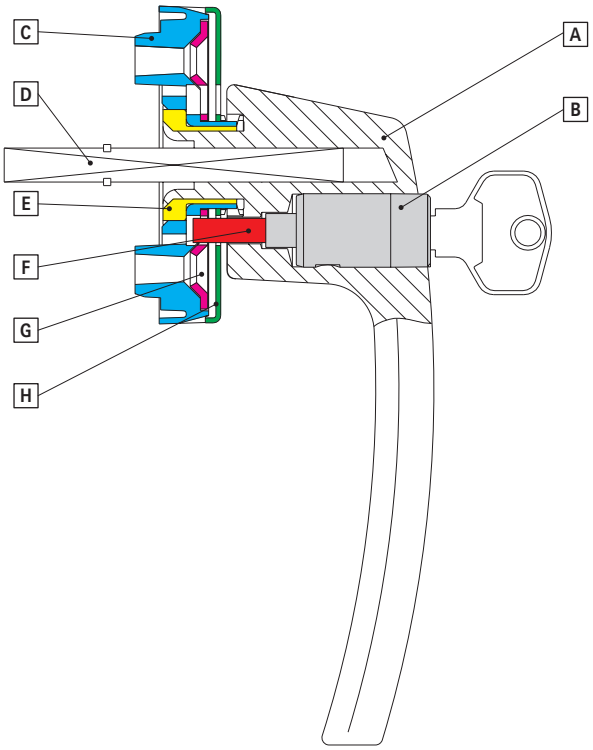
7. 200 Nm resistance against twisting-off and forcing off and a keyed locking mechanism with at least 100 locking variations
8. Application as window handle with click mechanism
9. No requirements for window test size (not requested)

1.6 Functionality

1.6.1 Lockable window handle

Roto lockable handles 100 Nm – the convenient security grade:

- Lockable window handle tested to a torque of 100 Nm[3]: 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

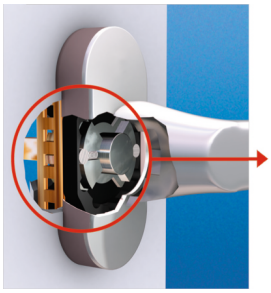
1.6.2 Secustik®

Secustik® is a registered trademark of HOPPE Holding AG. Secustik® window handles are equipped with a patented blocking mechanism as part of the integrated basic security. This prevents manipulating the window hardware from the outside. A swivel clutch between the handle and the spindle acts in this case as a “mechanical diode”. It permits normal operation of the window handle from the inside, blocks the handle however if somebody attempts to manipulate the window handle via the hardware from the outside. During the Secustik® handles 180° operation from the

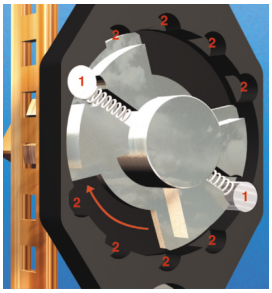
[3] 1 Nm (Newton metre) is the torque which generates a force of 1 N at the pivot point of a lever of 1 m length.

locking mode to the tilting mode, the self-locking blocking mechanism engages into the different handle positions with a distinct click. This click emphasises the outstanding plus in security.

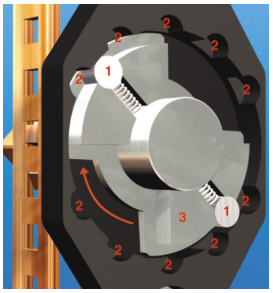
This is how the Secustik® technology works



Secustik® window handles patented blocking mechanism



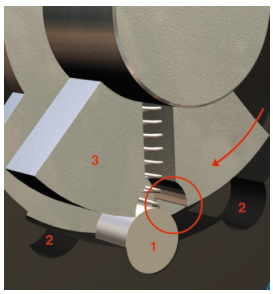
When turning the window handle, the spring-loaded safety pins [1] engage into special recesses in the housing [2] with a distinct click.



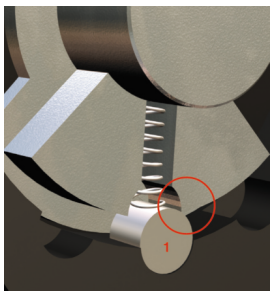
During the turn movement, the safety pins [1] are moved along the swivel clutch [3] into further recesses [2] where they again audibly engage.

Secustik® technology effectively prevents attempted break-ins





In the case of an attempted break-in, the safety pins [1] are pushed through a second swivel clutch [3] into the housing recesses [2].



In this position, the safety pins [1] effectively prevent turning the window handle from the outside. The window handle blocks and prevents the attempted break-in.

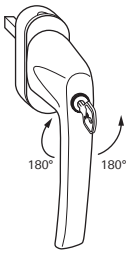
1.6.3 Tilt-First

Locking and unlocking

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

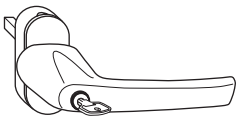
Lock: Turn the key 180° counterclockwise.

Unlock: Turn the key 180° clockwise.



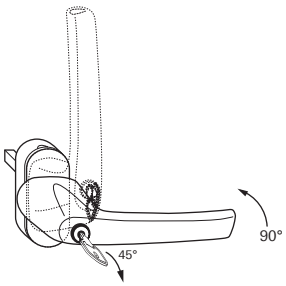
Tilt:

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.

1.7 Surface finishes

Eloxal-process (anodising)

This method of surface technology produces a protective oxide layer on aluminium by anodic oxidation. By changing the top metal layer, a 5 to 25 micrometer thin oxide layer is created, which protects deeper layers from corrosion provided that there are no gaps in the layer, for example created by mechanical damages.

Powder coating

When powder coating, first an electrically charged powder cloud is created. The charged particles are transported to the workpiece surface. They are deposited there, stick on electrostatically and form the powder paint coating. When the workpiece is heated subsequently, the paint particles of the powder paint form a homogeneous surface.

Wet paint

For this painting process, the liquid coating material is sprayed using compressed air. This creates a soft paint jet with minimal colour mist. The procedure is particularly suited for small and miniscule amounts. The amount of dispensed material can be adjusted very precisely and flexibly depending on the object to be coated and the coating material.

Metal-plating

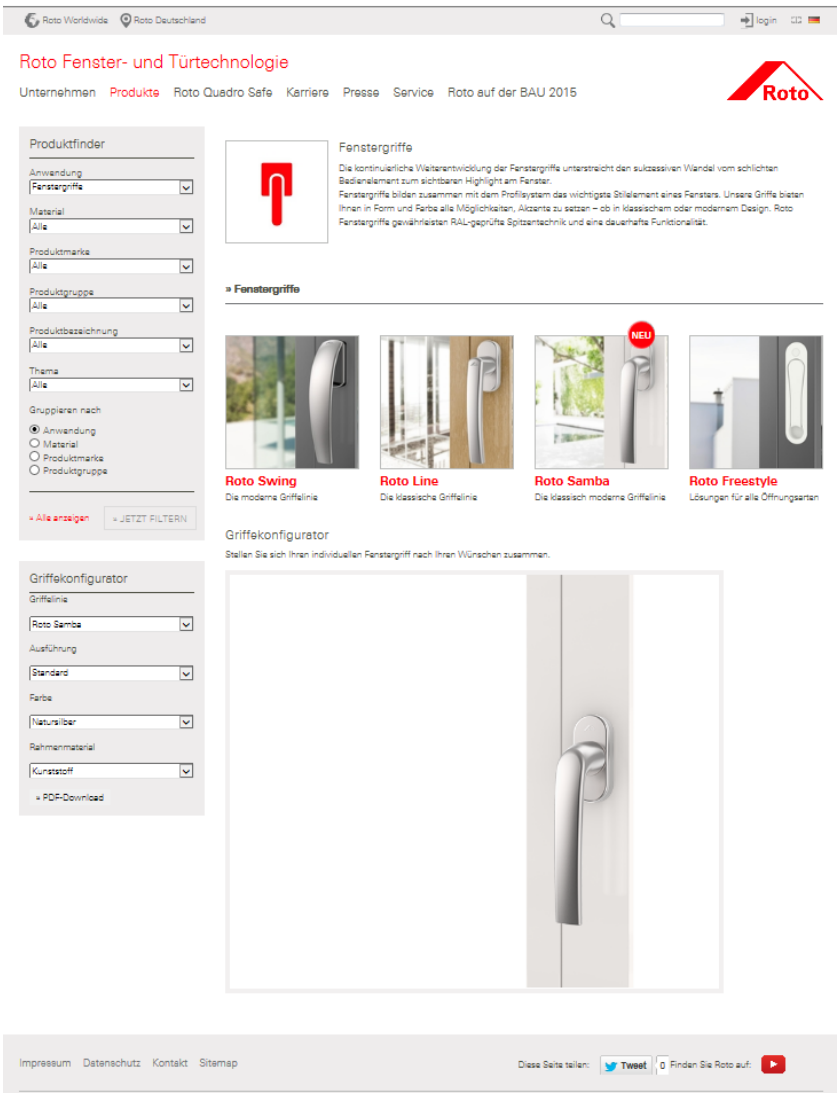
A sealing coat created galvano-technically for special decorative aesthetics as well as corrosion protection.

1.8 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.

1.9 Handle configurator

Finding the perfect handle for each individual decorating style, with just a few clicks. The Roto handle configurator offers this to consulting window fabricators and their customers. The online service has already been extremely successful in the German and English versions and is now available in other languages as well. To immediately display the suitable version on a screen or smart phone, just four specifications must must be made. After selecting the required handle series, so for example, the Roto Samba, the available versions (lockable, with push-button etc.), the handle colour and the material of the window frame can be set.



With four clicks to your desired design element: The successful Roto handle configurator is currently available in several languages.

The direct way to the handle configurator

1.10 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
.

1.11 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.

1.12 Certifications

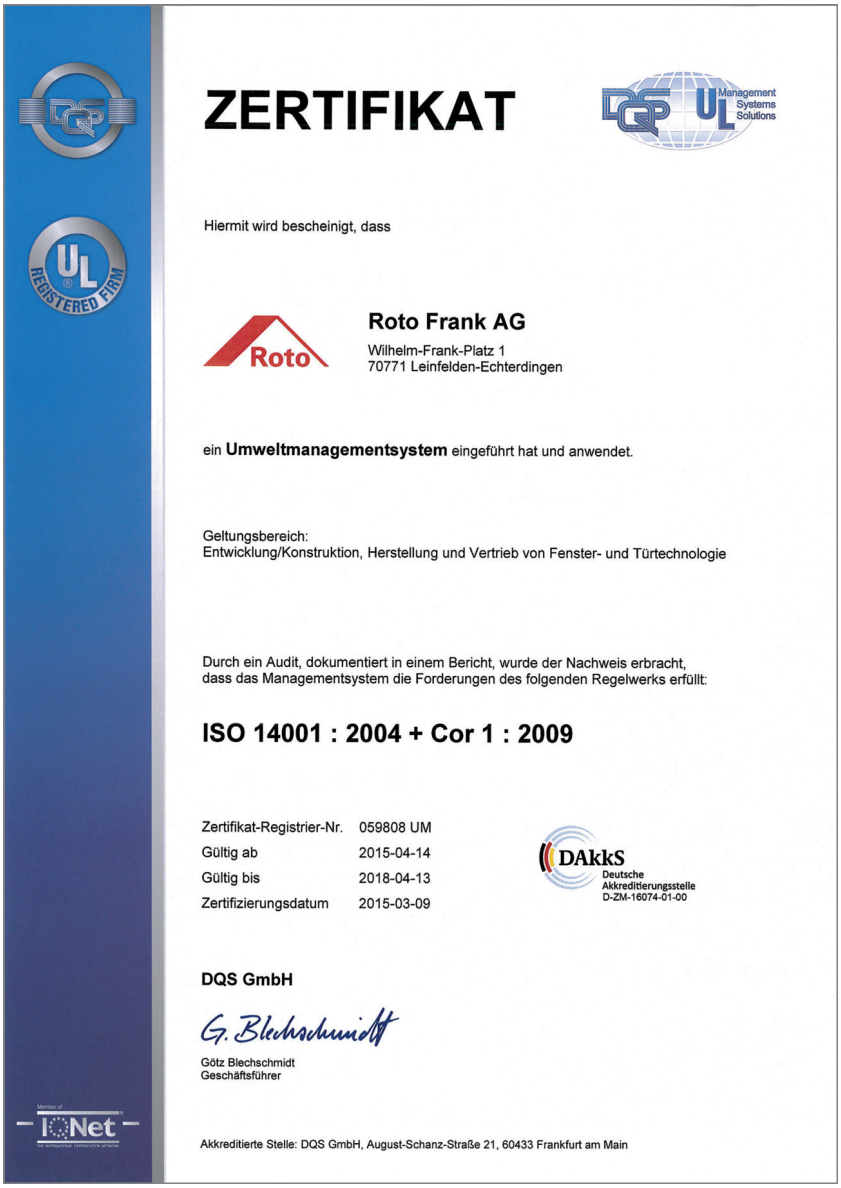
1.12.1 Environmental management

Roto Frank AG Leinfelden provides proof of environmental awareness with certification in accordance with DIN EN ISO 14001.

Roto takes into consideration the environmental compatibility of products and procedures which conserve resources right from the beginning, during development, design, planning, production and logistics.

The certification underlines the environmental awareness at Roto:

- Roto works towards health and safety at the workplace, accident prevention and system safety as its fundamental goal when it comes to occupational safety.
- Roto views environmental protection as an integral part of all its business activities and decisions. The company is shaped by its environmentally conscious behaviour, the environmental compatibility of its products and procedures, as well as the preservation of existing resources.
- The long service life of Roto products also contributes to the preservation of existing resources.



ZERTIFIKAT

Hiermit wird bescheinigt, dass

Roto Frank AG
Wilhelm-Frank-Platz 1
70771 Leinfelden-Echterdingen

ein **Umweltmanagementsystem** eingeführt hat und anwendet.

Geltungsbereich:
Entwicklung/Konstruktion, Herstellung und Vertrieb von Fenster- und Türtechnologie

Durch ein Audit, dokumentiert in einem Bericht, wurde der Nachweis erbracht, dass das Managementsystem die Forderungen des folgenden Regelwerks erfüllt:

ISO 14001 : 2004 + Cor 1 : 2009

Zertifikat-Registrier-Nr.	059808 UM
Gültig ab	2015-04-14
Gültig bis	2018-04-13
Zertifizierungsdatum	2015-03-09

DAkkS Deutsche Akkreditierungsstelle D-ZM-16074-01-00

DQS GmbH

G. Blechschmidt

Götz Blechschmidt
Geschäftsführer

Akkreditierte Stelle: DQS GmbH, August-Schanz-Straße 21, 60433 Frankfurt am Main

1.12.2 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.



ZERTIFIKAT

Hiermit wird bescheinigt, dass

Roto Frank AG
Wilhelm-Frank-Platz 1
70771 Leinfelden-Echterdingen
Deutschland

mit den im Anhang gelisteten Standorten

ein **Qualitätsmanagementsystem** eingeführt hat und anwendet.

Geltungsbereich:
Entwicklung/Konstruktion, Herstellung und Vertrieb von Fenster- und Türtechnologie

Durch ein Audit, dokumentiert in einem Bericht, wurde der Nachweis erbracht, dass das Managementsystem die Forderungen des folgenden Regelwerks erfüllt:

ISO 9001 : 2008

Zertifikat-Registrier-Nr.	059808 QM08
Gültig ab	2016-02-28
Gültig bis	2018-09-14
Zertifizierungsdatum	2016-02-24

DAkkS Deutsche Akkreditierungsstelle D-ZM-16074-01-00

DQS GmbH

G. Blechschmidt

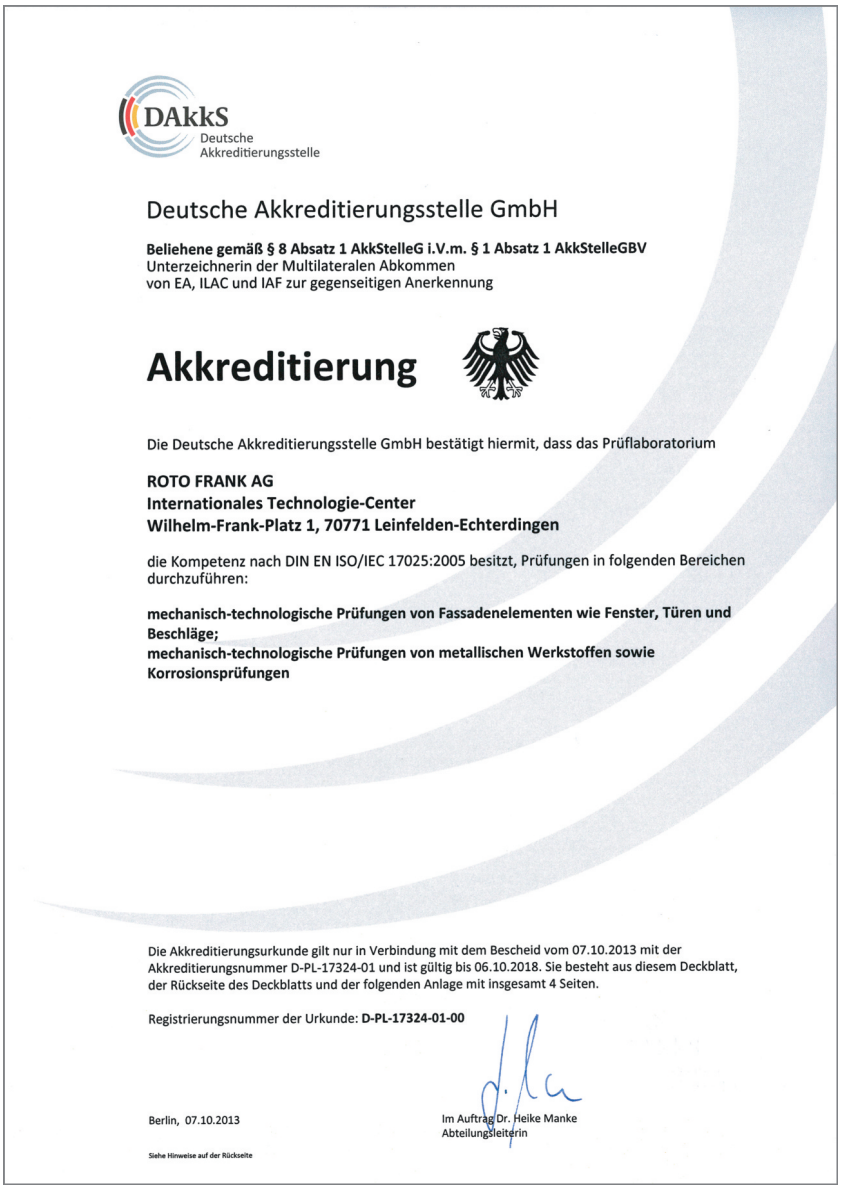
Götz Blechschmidt
Geschäftsführer

Akkreditierte Stelle: DQS GmbH, August-Schanz-Straße 21, 60433 Frankfurt am Main

1 / 3

1.12.3 International Technology Centre (ITC)

The Roto Group 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.



DAkkS
Deutsche
Akkreditierungsstelle

Deutsche Akkreditierungsstelle GmbH

Beliehene gemäß § 8 Absatz 1 AkkStelleG i.V.m. § 1 Absatz 1 AkkStelleGBV
Unterzeichnerin der Multilateralen Abkommen
von EA, ILAC und IAF zur gegenseitigen Anerkennung

Akkreditierung

Die Deutsche Akkreditierungsstelle GmbH bestätigt hiermit, dass das Prüflaboratorium

ROTO FRANK AG
Internationales Technologie-Center
Wilhelm-Frank-Platz 1, 70771 Leinfelden-Echterdingen

die Kompetenz nach DIN EN ISO/IEC 17025:2005 besitzt, Prüfungen in folgenden Bereichen durchzuführen:

mechanisch-technologische Prüfungen von Fassadenelementen wie Fenster, Türen und Beschläge;
mechanisch-technologische Prüfungen von metallischen Werkstoffen sowie Korrosionsprüfungen

Die Akkreditierungsurkunde gilt nur in Verbindung mit dem Bescheid vom 07.10.2013 mit der Akkreditierungsnummer D-PL-17324-01 und ist gültig bis 06.10.2018. Sie besteht aus diesem Deckblatt, der Rückseite des Deckblatts und der folgenden Anlage mit insgesamt 4 Seiten.

Registrierungsnummer der Urkunde: **D-PL-17324-01-00**

Berlin, 07.10.2013

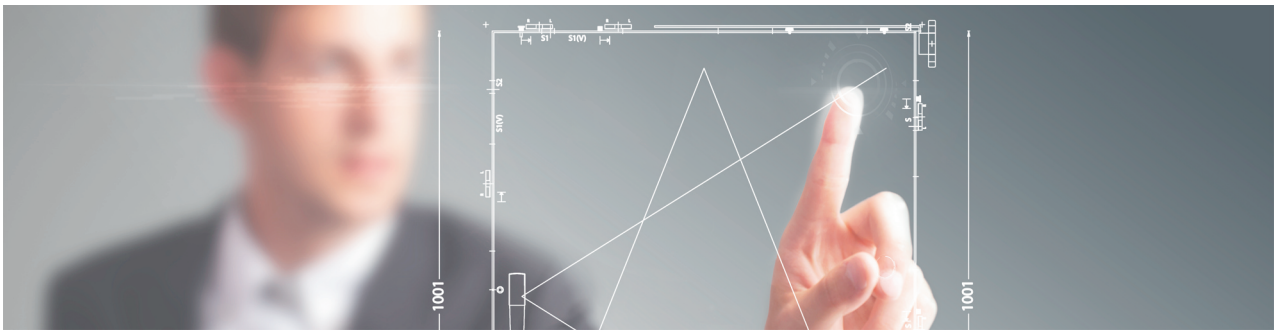
Im Auftrag Dr. Heike Manke
Abteilungsleiterin

Siehe Hinweise auf der Rückseite

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 industry. 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.

1.13 Roto Con Orders

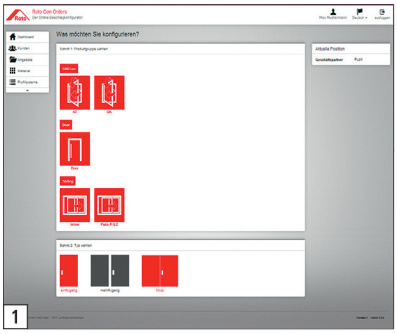


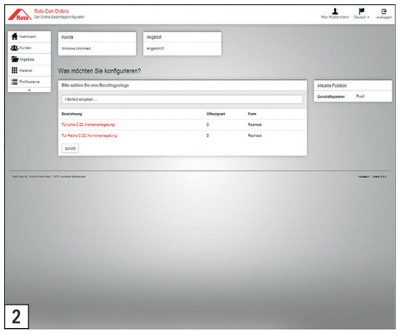
Just four steps for a finished parts list

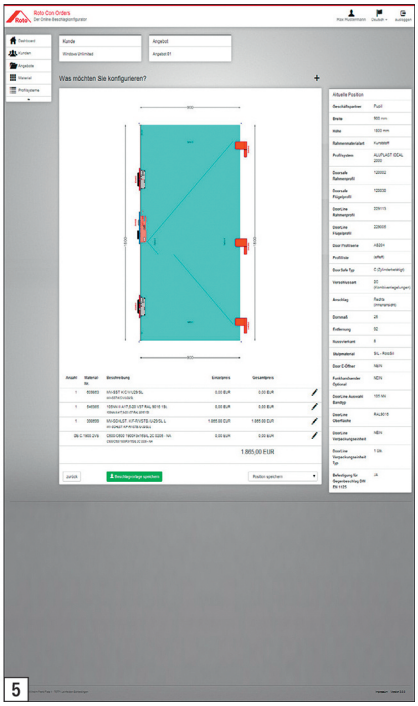
Roto Con Orders is the perfect solution for window and door manufacturers, and for dealers. This is because with the high-performance online hardware configurator, an individual configuration of window and door hardware can be generated very easily and in an extremely short time – for all common shapes 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 itemisation is finished. The list can be changed, adjusted 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.

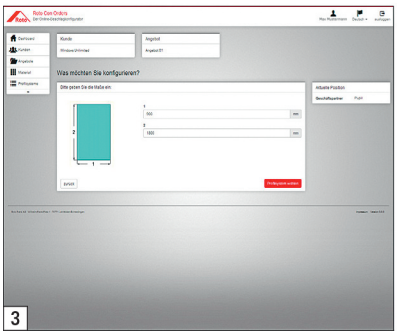
Hardware configuration has never been this easy

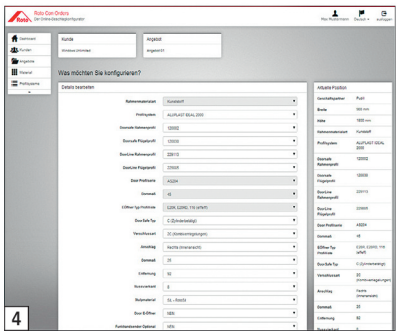
With intuitive menu guidance, you generate an optimum parts list in just four steps:











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

1.14 Additional media



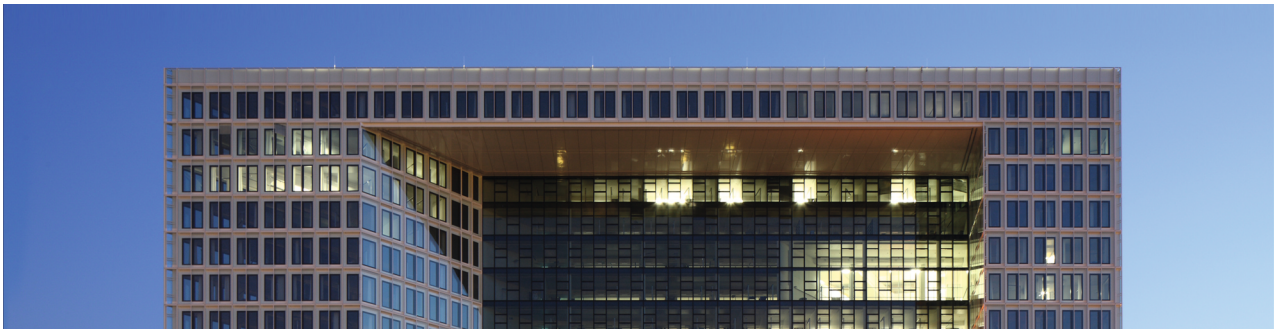
1.14.1 Videos

Installation videos relating to each product group can be found in the “Service” area of the Roto Window and Door Technology website:

www.roto-frank.com

1.15 Further Roto products

1.15.1 Roto Tilt&Turn



Roto NX is a Tilt&Turn hardware system based on the proven Roto NT – with new features and functions that make the system a safe investment for the future. Roto NX provides intelligent responses to new requirements, with a focus on efficiency, security, comfort and design.

Today, almost any project is feasible with Roto hardware technology for aluminium windows and doors – in a short time, produced to outstanding quality and under favourable terms. For inward opening and outward opening windows.

Roto Tilt&Turn – PVC / timber windows and balcony doors



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



Roto NT Designo

Concealed hinge solution for windows and balcony doors with high sash weights up to 150 kg

Roto Tilt&Turn – Aluminium windows and balcony doors



Roto AL

Universal hardware for aluminium windows and balcony doors



Roto AL Designo

Concealed hardware for aesthetic aluminium windows and balcony doors

Roto Outward Opening – Outward opening windows



Roto FS Kempton

Stainless-steel friction stays for outward opening windows



Roto PS Aintree

Stainless-steel parallel stays for outward opening windows

1.15.2 Roto Sliding



Roto offers a comprehensive range of hardware solutions for a wide variety of sliding doors.

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

Standard hardware for large Lift&Slide doors



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 – Simple sliding windows and doors



Roto Inline

Hardware systems for simple sliding windows and doors

1.15.3 Roto Door



Millions of items of Roto hardware have enabled windows and doors all over the world to work correctly and move as intended. With Roto Door, we are concentrating on the development and production of door technology that meets modern requirements in terms of security and comfort.

Roto Safe – Multipoint lockings



Roto Safe H

Mechanical multipoint lockings for lever-handle operated doors



Roto Safe C

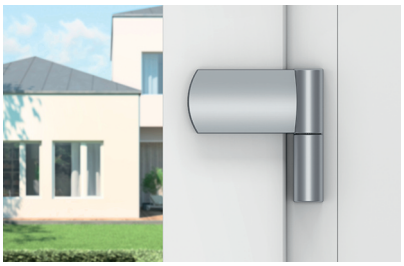
Mechanical multipoint locking for cylinder-operated doors



Roto Safe E

Electromechanical multipoint lockings for doors

Roto Solid – 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



Roto Eifel

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

1.16 Contact

Roto Frank AG
Window and Door Technology
Wilhelm-Frank-Platz 1
70771 Leinfelden-Echterdingen
Germany
Telephon +49 (0) 711 7598 0
Fax +49 (0) 711 7598 253
info@roto-frank.com
www.roto-frank.com

Roto NX / Roto NT





Roto Swing

Window handles – standard	48
Window handles – standard for night ventilation	50
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Window handles – Secustik® for night ventilation	54
Window handles – lockable, 40 Nm	56
Window handles – lockable, 100 Nm	58
Window handles – push-to-open	60
Window handles – TiltFirst, lockable	61
Balcony door handles – escutcheon with handle on the outside and inside	62

Roto Line

Window handles – standard	63
Window handles – standard for night ventilation	64
Window handles – Secustik®	65
Window handles – Secustik® for night ventilation	66
Window handles – lockable, 40 Nm	67
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Window handles – TiltFirst, lockable	71
Window handles – comfort windows	72
Balcony door handles – escutcheon with handle on the outside and inside	73
Balcony door handles – escutcheon with flat handle on the outside and escutcheon with handle on the inside	74

Roto Samba

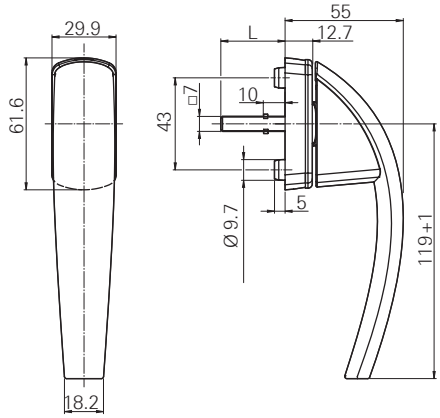
Window handles – standard	75
Window handles – standard for night ventilation	76
Window handles – Secustik®	77
Window handles – lockable, 40 Nm	78
Window handles – lockable, 100 Nm	79
Window handles – push-to-open	80
Window handles – TiltFirst, lockable	81
Balcony door handles – escutcheon with handle on the outside and inside	82
Balcony door handles – escutcheon with flat handle on the outside and escutcheon with handle on the inside	83

2 Roto NX / Roto NT

2.1 Roto Swing

2.1.1 Window handles – standard



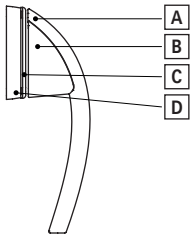


Product description

- Basic handle without additional functions
- Lock-in position 90°
- 10-year performance warranty
- Classification in accordance with DIN EN 13126-3

Scope of delivery

- 1 window handle
- 2 fixing screws



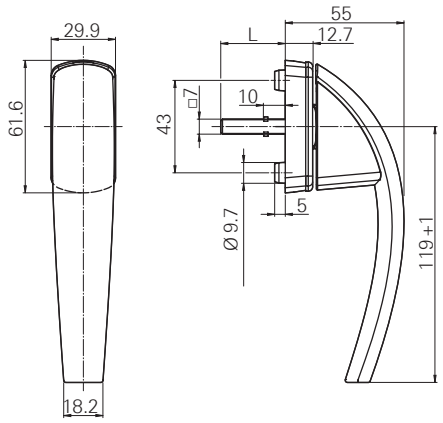
[A]	Handle lever	
[B]	Design element	
[C]	Cover	
[D]	Escutcheon	

	Roto				Roto	#			№
32	R01.1	Natural silver	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x40	15 Piece	641112
	R01.3	Titanium	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x40	15 Piece	641114
	R07.2	Traffic white	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x40	15 Piece	641115

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

2.1.2 Window handles – standard for night ventilation



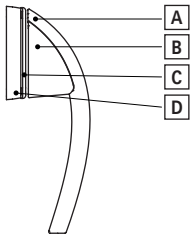


Product description

- Basic handle without additional functions
- Lock-in position 90°, lock-in position 45° for night ventilation
- 10-year performance warranty
- Classification in accordance with DIN EN 13126-3

Scope of delivery

- 1 window handle
- 2 fixing screws



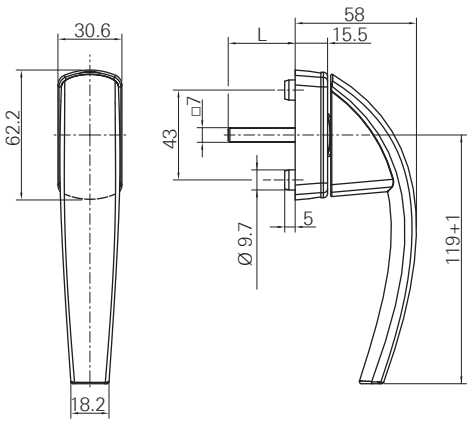
[A]	Handle lever	
[B]	Design element	
[C]	Cover	
[D]	Escutcheon	

	Roto				Roto	#			№
32	R01.1	Natural silver	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x45	15 Piece	613997
	R01.3	Titanium	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x45	15 Piece	613999
	R03.1	Brass matt	[B] Pantone 468C, [C] Gold, [D] Pantone 468C	anod.	Y	2	M5x45	15 Piece	614000
	R05.3	Medium bronze	[B] Pantone 462C, [C] Medium bronze, [D] Pantone 462C	anod.	Y	2	M5x45	15 Piece	613859
	R05.5	Bronze	[B] Pantone 462C, [C] Bronze, [D] Pantone 462C	anod.	Y	2	M5x45	15 Piece	614001
	R07.2	Traffic white	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x45	15 Piece	614002
37	R01.1	Natural silver	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x45	15 Piece	607855
	R01.3	Titanium	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x45	15 Piece	607854
	R03.1	Brass matt	[B] Pantone 468C, [C] Gold, [D] Pantone 468C	anod.	Y	2	M5x45	15 Piece	615685
	R04.4	Black brown	[B] Brown, [C] Brown, [D] Brown	powd-c	Y	2	M5x45	15 Piece	615686
	R05.3	Medium bronze	[B] Pantone 462C, [C] Medium bronze, [D] Pantone 462C	anod.	Y	2	M5x45	15 Piece	613862
	R05.5	Bronze	[B] Pantone 462C, [C] Bronze, [D] Pantone 462C	anod.	Y	2	M5x45	15 Piece	615687
	R07.2	Traffic white	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x45	15 Piece	607853

43	R01.1	Natural silver	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x50	15 Piece	607856
	R01.3	Titanium	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x50	15 Piece	607858
	R03.1	Brass matt	[B] Pantone 468C, [C] Gold, [D] Pantone 468C	anod.	Y	2	M5x50	15 Piece	632280
	R04.4	Black brown	[B] Brown, [C] Brown, [D] Brown	powd-c	Y	2	M5x50	15 Piece	632281
	R05.3	Medium bronze	[B] Pantone 462C, [C] Medium bronze, [D] Pantone 462C	anod.	Y	2	M5x50	15 Piece	632282
	R05.5	Bronze	[B] Pantone 462C, [C] Bronze, [D] Pantone 462C	anod.	Y	2	M5x50	15 Piece	632283
	R07.2	Traffic white	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x50	15 Piece	607857

2.1.3 Window handles – Secustik®





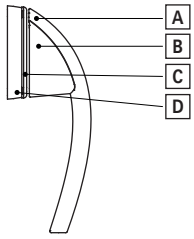
Product description

- Handle with automatic locking
- Protection against being tampered with from the outside
- Patented locking mechanism to provide built-in basic security
- Lock-in position 90°
- 10-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 21*

Scope of delivery

- 1 window handle
- 2 fixing screws

INFO
Further information → *from page 24*



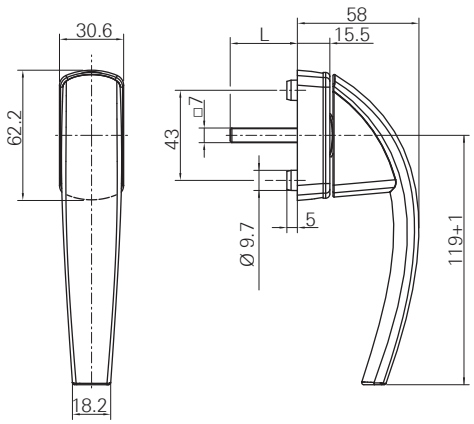
[A]	Handle lever	
[B]	Design element	
[C]	Cover	
[D]	Escutcheon	

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

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

2.1.4 Window handles – Secustik® for night ventilation





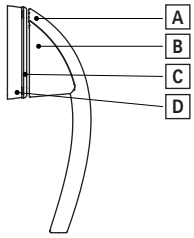
Product description

- Handle with automatic locking
- Protection against being tampered with from the outside
- Patented locking mechanism to provide built-in basic security
- Lock-in position 90°, lock-in position 45° for night ventilation
- 10-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 21*

Scope of delivery

- 1 window handle
- 2 fixing screws

INFO
Further information → *from page 24*



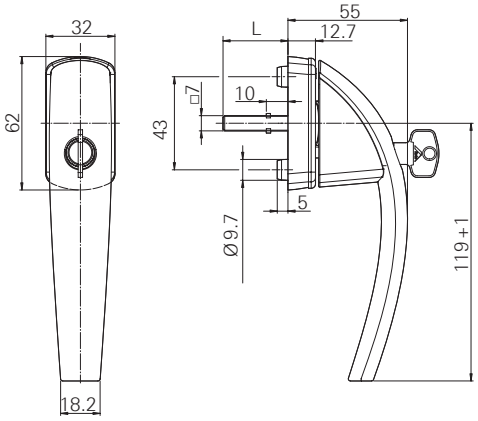
[A]	Handle lever	
[B]	Design element	
[C]	Cover	
[D]	Escutcheon	

32	Natural silver	R01.1	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x40	15 Piece	613830
	Titanium	R01.3	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x40	15 Piece	613832
	Medium bronze	R05.3	[B] Pantone 462C, [C] Medium bronze, [D] Pantone 462C	anod.	Y	2	M5x40	15 Piece	613856
	Bronze	R05.5	[B] Pantone 462C, [C] Bronze, [D] Pantone 462C	anod.	Y	2	M5x40	15 Piece	613834
	Traffic white	R07.2	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x40	15 Piece	613855

37	Natural silver	R01.1	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x50	15 Piece	613580
	Titanium	R01.3	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x50	15 Piece	613581
	Brass matt	R03.1	[B] Pantone 468C, [C] Gold, [D] Pantone 468C	anod.	Y	2	M5x50	15 Piece	613824
	Black brown	R04.4	[B] Brown, [C] Brown, [D] Brown	powd-c	Y	2	M5x50	15 Piece	613835
	Medium bronze	R05.3	[B] Pantone 462C, [C] Medium bronze, [D] Pantone 462C	anod.	Y	2	M5x50	15 Piece	613861
	Bronze	R05.5	[B] Pantone 462C, [C] Bronze, [D] Pantone 462C	anod.	Y	2	M5x50	15 Piece	613836
	Traffic white	R07.2	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x50	15 Piece	613582
43	Natural silver	R01.1	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x55	15 Piece	632004
	Titanium	R01.3	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x55	15 Piece	632037
	Brass matt	R03.1	[B] Pantone 468C, [C] Gold, [D] Pantone 468C	anod.	Y	2	M5x55	15 Piece	632038
	Black brown	R04.4	[B] Brown, [C] Brown, [D] Brown	powd-c	Y	2	M5x55	15 Piece	632040
	Medium bronze	R05.3	[B] Pantone 462C, [C] Medium bronze, [D] Pantone 462C	anod.	Y	2	M5x55	15 Piece	632042
	Bronze	R05.5	[B] Pantone 462C, [C] Bronze, [D] Pantone 462C	anod.	Y	2	M5x55	15 Piece	632043
	Traffic white	R07.2	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x55	15 Piece	632044

2.1.5 Window handles – lockable, 40 Nm



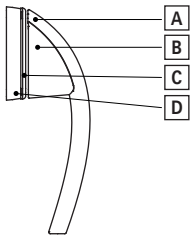


Product description

- Lockable handle with tested torque 40 Nm (basic security)
- Closed by a rotary cylinder with reversible key
- Can be unlocked and locked as required
- Can be operated when the handle is unlocked
- Lock-in position 90°
- 10-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 21*

Scope of delivery

- 1 window handle
- 1 key
- 2 fixing screws



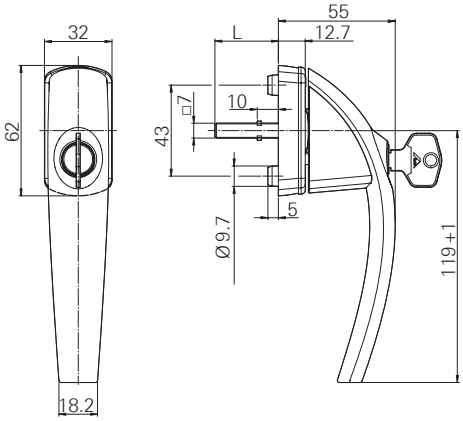
[A]	Handle lever	✓
[B]	Design element	i
[C]	Cover	i
[D]	Escutcheon	i

32	R01.1	Natural silver	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x40	15 Piece	632284
	R01.3	Titanium	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x40	15 Piece	632286
	R07.2	Traffic white	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x40	15 Piece	632290
37	R01.1	Natural silver	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x45	15 Piece	632291
	R01.3	Titanium	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x45	15 Piece	632292
	R04.4	Black brown	[B] Brown, [C] Brown, [D] Brown	powd-c	Y	2	M5x45	15 Piece	632294
	R05.3	Medium bronze	[B] Pantone 462C, [C] Medium bronze, [D] Pantone 462C	anod.	Y	2	M5x45	15 Piece	613860
	R05.5	Bronze	[B] Pantone 462C, [C] Bronze, [D] Pantone 462C	anod.	Y	2	M5x45	15 Piece	632295
	R07.2	Traffic white	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x45	15 Piece	632296

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

2.1.6 Window handles – lockable, 100 Nm





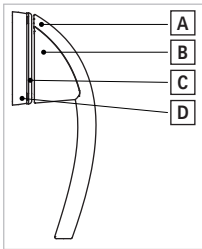
INFO
Further information → *from page 24*

Product description

- Lockable handle with tested torque 100 Nm
- Closed by a push cylinder with reversible key
- Simple and quick locking by pushing down the cylinder
- Meets the requirements of DIN EN 1627-1630, RC1 - RC6
- Lock-in position 90°
- 10-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 21*

Scope of delivery

- 1 window handle
- 1 key
- 2 fixing screws



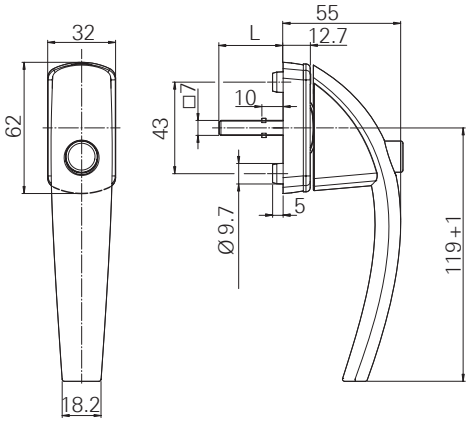
[A]	Handle lever	
[B]	Design element	
[C]	Cover	
[D]	Escutcheon	

32	R01.1	Natural silver	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x40	15 Piece	632304
	R07.2	Traffic white	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x40	15 Piece	632310
37	R01.1	Natural silver	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x45	15 Piece	632311
	R01.3	Titanium	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x45	15 Piece	632313
	R04.4	Black brown	[B] Brown, [C] Brown, [D] Brown	powd-c	Y	2	M5x45	15 Piece	632315
	R05.3	Medium bronze	[B] Pantone 462C, [C] Medium bronze, [D] Pantone 462C	anod.	Y	2	M5x45	15 Piece	632316
	R05.5	Bronze	[B] Pantone 462C, [C] Bronze, [D] Pantone 462C	anod.	Y	2	M5x45	15 Piece	632317
	R07.2	Traffic white	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x45	15 Piece	632318

43	R01.1	Natural silver	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x50	15 Piece	632319
	R01.3	Titanium	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x50	15 Piece	632321
	R07.2	Traffic white	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x50	15 Piece	632326

2.1.7 Window handles – push-to-open



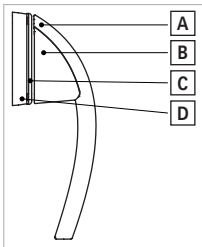


Product description

- Window handle with push-to-open mechanism
- The push function makes locking and unlocking possible
- Lock-in position 90°
- 10-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 21*

Scope of delivery

- 1 window handle
- 2 fixing screws

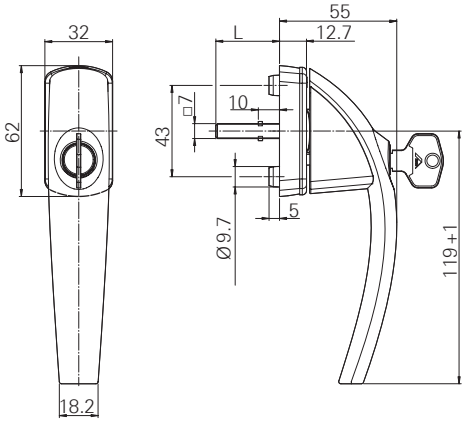


[A]	Handle lever	
[B]	Design element	
[C]	Cover	
[D]	Escutcheon	

37	R01.1	Natural silver	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x45	15 Piece	632330
	R01.3	Titanium	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x45	15 Piece	632332
	R05.3	Medium bronze	[B] Pantone 462C, [C] Medium bronze, [D] Pantone 462C	anod.	Y	2	M5x45	15 Piece	632335
	R05.5	Bronze	[B] Pantone 462C, [C] Bronze, [D] Pantone 462C	anod.	Y	2	M5x45	15 Piece	632336
	R07.2	Traffic white	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x45	15 Piece	632337
43	R01.1	Natural silver	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	2	M5x50	15 Piece	632338
	R01.3	Titanium	[B] Grey, [C] Grey, [D] Grey	anod.	Y	2	M5x50	15 Piece	632340
	R05.3	Medium bronze	[B] Pantone 462C, [C] Medium bronze, [D] Pantone 462C	anod.	Y	2	M5x50	15 Piece	632343
	R05.5	Bronze	[B] Pantone 462C, [C] Bronze, [D] Pantone 462C	anod.	Y	2	M5x50	15 Piece	632344
	R07.2	Traffic white	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	2	M5x50	15 Piece	632345

2.1.8 Window handles – TiltFirst, lockable





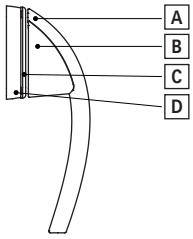
Product description

- For window systems with the TiltFirst application (tilting before turning)
- Closed by a rotary cylinder with reversible key
- Can be locked in the 0° and 90° position
- Lock-in position 90°
- 10-year performance warranty
- Classification in accordance with DIN EN 13126-3 → *from page 21*

Scope of delivery

- 1 window handle
- 1 key
- 2 fixing screws

INFO
Further information → *from page 26*

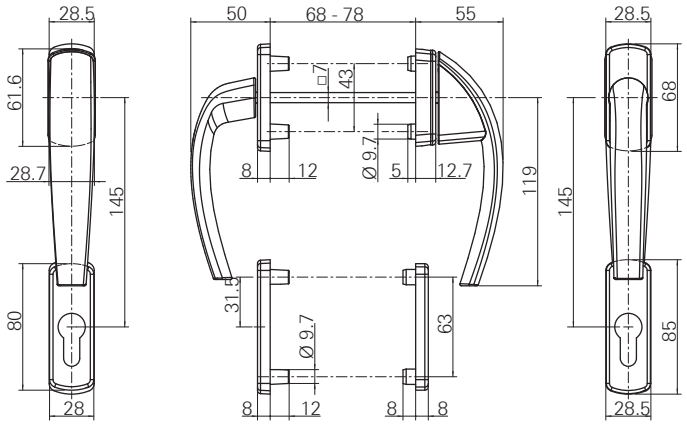


[A]	Handle lever	
[B]	Design element	
[C]	Cover	
[D]	Escutcheon	

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

2.1.9 Balcony door handles – escutcheon with handle on the outside and inside





Product description

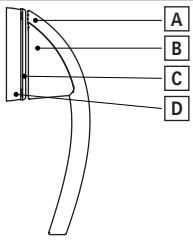
- Handle set with escutcheon version
- Outside: handle securely pinned without click mechanism
- Inside: standard handle with profile cylinder escutcheon
- Concealed screw fixing
- Lock-in position 90°
- 10-year performance warranty

Scope of delivery

- 2 handles
- 2 escutcheons
- 4 fixing screws

INFO

Profile cylinder is not included in the scope of delivery. A flush-encased gearbox is required for use in aluminium profiles.



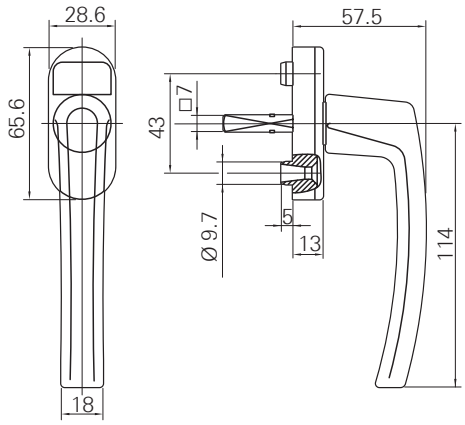
[A]	Handle lever	
[B]	Design element	i
[C]	Cover	i
[D]	Escutcheon	i

	Roto		i		Roto	#				№
100	R01.1	Natural silver	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	4	M5x100	1 Piece	607332
	R01.3	Titanium	[B] Grey, [C] Grey, [D] Grey	anod.	Y	4	M5x100	1 Piece	607333
	R07.2	Traffic white	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	4	M5x100	1 Piece	607331
127	R01.1	Natural silver	[B] Silver grey, [C] Silver grey, [D] Silver grey	anod.	Y	4	M5x110	1 Piece	606786
	R01.3	Titanium	[B] Grey, [C] Grey, [D] Grey	anod.	Y	4	M5x110	1 Piece	606787
	R07.2	Traffic white	[B] Traffic white, [C] Traffic white, [D] Traffic white	powd-c	Y	4	M5x110	1 Piece	606785

2.2 Roto Line

2.2.1 Window handles – standard





Product description

- Basic handle without additional functions
- Lock-in position 90°
- 10-year performance warranty
- Classification in accordance with DIN EN 13126-3

Scope of delivery

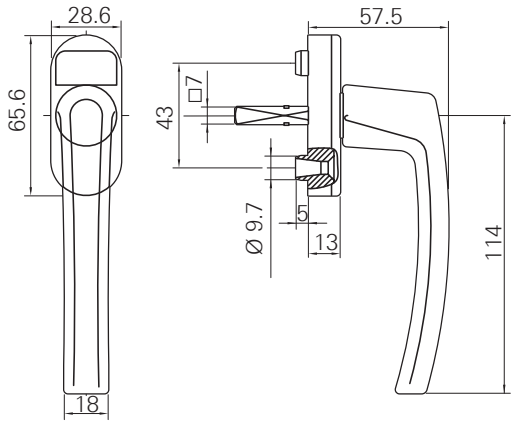
- 1 window handle
- For fixing screws, see table

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

	Roto			Roto	#			№
32	R01.1	Natural silver	anod.	N	2	M5x40	20 Piece	618706
	R01.3	Titanium	anod.	N	2	M5x40	20 Piece	618708
	R05.3	Medium bronze	anod.	N	2	M5x40	20 Piece	618707
	R07.2	Traffic white	powd-c	N	2	M5x40	20 Piece	618709
37	R01.1	Natural silver	anod.	N	2	M5x45	20 Piece	384342
	R01.3	Titanium	anod.	N	2	M5x45	20 Piece	384344
	R05.3	Medium bronze	anod.	N	2	M5x45	20 Piece	618710
	R07.2	Traffic white	powd-c	N	2	M5x45	20 Piece	386267
43	R01.1	Natural silver	anod.	N	2	M5x55	20 Piece	618711
	R01.3	Titanium	anod.	N	2	M5x55	20 Piece	618713
	R03.1	Brass matt	anod.	Y	–	–	20 Piece	572415
	R04.1	Grey brown	powd-c	Y	–	–	20 Piece	572416
	R05.3	Medium bronze	anod.	Y	–	–	20 Piece	572417
			anod.	N	2	M5x55	20 Piece	618712
	R05.5	Bronze	anod.	Y	–	–	20 Piece	572418
	R07.2	Traffic white	powd-c	Y	–	–	20 Piece	572419
			powd-c	N	2	M5x55	20 Piece	618739

2.2.2 Window handles – standard for night ventilation





Product description

- Basic handle without additional functions
- Lock-in position 90°
  45° lock-in position for night ventilation
- 10-year performance warranty
- Classification in accordance with DIN EN 13126-3

Scope of delivery

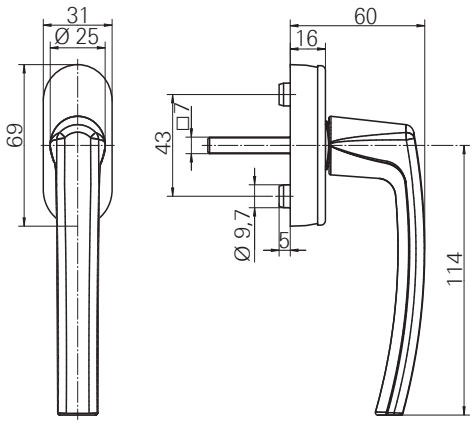
- 1 window handle
- For fixing screws, see table

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

								№
37	R01.1	Natural silver	anod.	N	–	–	20 Piece	373935
	R05.5	Bronze	anod.	N	–	–	20 Piece	488271
	R07.2	Traffic white	powd-c	N	–	–	20 Piece	373942
43	R01.1	Natural silver	anod.	Y	2	M5x50	20 Piece	787945
	R03.1	Brass matt	anod.	Y	2	M5x50	20 Piece	787948
	R04.1	Grey brown	powd-c	Y	2	M5x50	20 Piece	787950
	R05.3	Medium bronze	anod.	Y	2	M5x50	20 Piece	787951
	R05.5	Bronze	anod.	Y	2	M5x50	20 Piece	787952
	R07.2	Traffic white	powd-c	Y	2	M5x50	20 Piece	787953

2.2.3 Window handles – Secustik®





Product description

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

Scope of delivery

- 1 window handle
- For fixing screws, see table

INFO

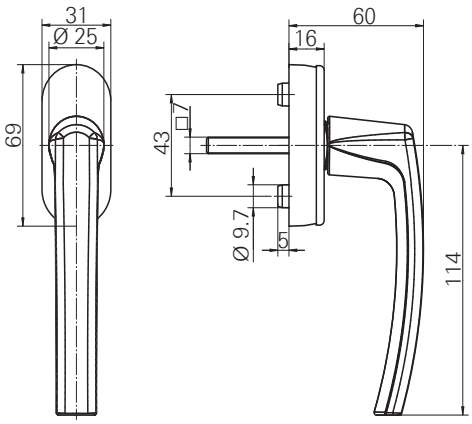
Further information → *from page 24*

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

32	R01.1	Natural silver	anod.	N	2	M5x40	20 Piece	618714
	R01.3	Titanium	anod.	N	2	M5x40	20 Piece	618736
	R05.3	Medium bronze	anod.	N	2	M5x40	20 Piece	618735
	R07.2	Traffic white	powd-c	N	2	M5x40	20 Piece	618737
37	R01.3	Titanium	anod.	Y	2	M5x50	20 Piece	799796
	R05.3	Medium bronze	anod.	N	2	M5x50	20 Piece	618738

2.2.4 Window handles – Secustik® for 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
- Lock-in position 90°

  45° lock-in position for night ventilation
- 10-year performance warranty
- Classification in accordance with DIN EN 13126-3

Scope of delivery

- 1 window handle
- For fixing screws, see table

INFO

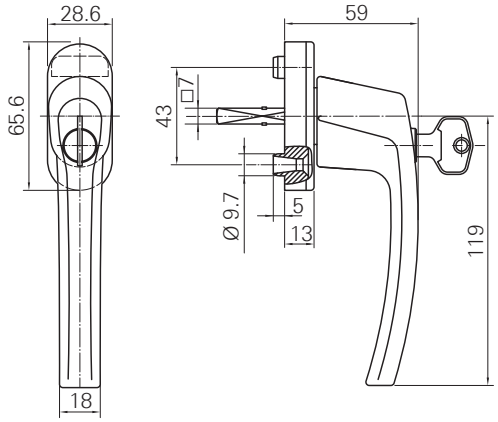
Further information → *from page 24*

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

32	R01.1	Natural silver	anod.	Y	2	M5x45	20 Piece	616693
	R01.3	Titanium	anod.	Y	2	M5x45	20 Piece	616694
	R04.1	Grey brown	powd-c	Y	2	M5x45	20 Piece	616695
	R05.3	Medium bronze	anod.	Y	2	M5x45	20 Piece	616696
	R05.5	Bronze	anod.	Y	2	M5x45	20 Piece	616697
	R07.2	Traffic white	powd-c	Y	2	M5x45	20 Piece	616698
37	R01.1	Natural silver	anod.	Y	2	M5x50	20 Piece	616699
	R01.3	Titanium	anod.	Y	2	M5x50	20 Piece	616701
	R04.1	Grey brown	powd-c	Y	2	M5x50	20 Piece	607384
	R05.3	Medium bronze	anod.	Y	2	M5x50	20 Piece	616702
	R05.5	Bronze	anod.	Y	2	M5x50	20 Piece	616703
	R07.2	Traffic white	powd-c	Y	2	M5x50	20 Piece	607395
	R03.1	Brass matt	anod.	Y	2	M5x50	20 Piece	635031
43	R01.1	Natural silver	anod.	Y	2	M5x55	20 Piece	635032
	R01.3	Titanium	anod.	Y	2	M5x55	20 Piece	635034
	R03.1	Brass matt	anod.	Y	2	M5x55	20 Piece	635035
	R04.1	Grey brown	powd-c	N	2	M5x55	20 Piece	635036
	R05.3	Medium bronze	anod.	Y	2	M5x55	20 Piece	635037
	R05.5	Bronze	anod.	Y	2	M5x55	20 Piece	635038
	R07.2	Traffic white	powd-c	Y	2	M5x55	20 Piece	635039

2.2.5 Window handles – lockable, 40 Nm





Product description

- Lockable handle with tested torque 40 Nm (basic security)
- Closed by a rotary cylinder with reversible key
- Can be unlocked and locked as required
- Can be operated when the handle is unlocked
- Lock-in position 90°
- 10-year performance warranty
- Classification in accordance with DIN EN 13126-3

Scope of delivery

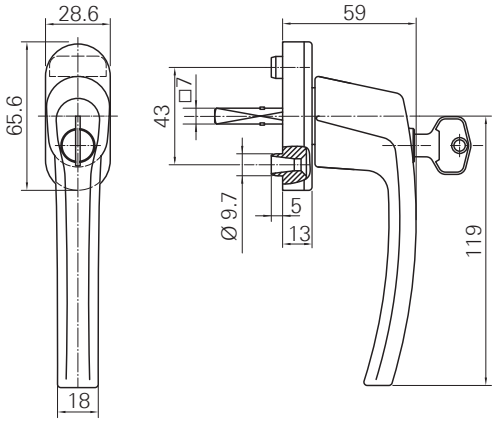
- 1 window handle
- 1 key
- For fixing screws, see table

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

32	R01.1	Natural silver	anod.	N	–	2	M5x40	15 Piece	618768
	R01.3	Titanium	anod.	N	–	2	M5x40	15 Piece	618770
	R05.3	Medium bronze	anod.	N	–	2	M5x40	15 Piece	618769
	R07.2	Traffic white	powd-c	N	–	2	M5x40	15 Piece	618771
37	R05.3	Medium bronze	anod.	N	–	2	M5x45	15 Piece	618772
43	R01.1	Natural silver	anod.	N	–	2	M5x55	15 Piece	618774
	R01.3	Titanium	anod.	N	–	2	M5x55	15 Piece	618786
	R07.2	Traffic white	powd-c	N	–	2	M5x55	15 Piece	618787

2.2.6 Window handles – lockable, 100 Nm





Product description

- Lockable handle with tested torque 100 Nm
- Closed by a push cylinder with reversible key
- Simple and quick locking by pushing down the cylinder
- Meets the requirements of DIN EN 13126-3, RC1 - RC6
- Lock-in position 90°
- 10-year performance warranty
- Classification in accordance with DIN EN 13126-3

Scope of delivery

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

INFO

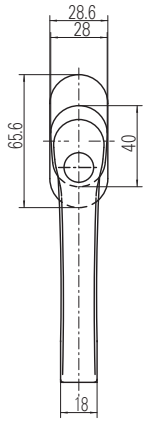
Further information → *from page 24*. A flush-encased gearbox is required for use in aluminium profiles.

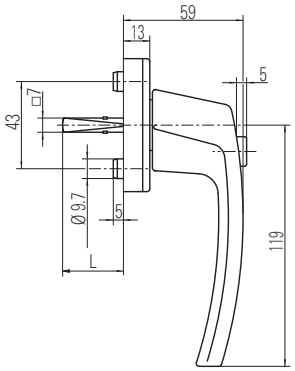
32	R01.1	Natural silver	anod.	Y	–	2	M5x40	15 Piece	635057
			anod.	N	–	2	M5x40	15 Piece	618788
	R01.3	Titanium	anod.	Y	–	2	M5x40	15 Piece	635059
			anod.	N	–	2	M5x40	15 Piece	618790
	R03.1	Brass matt	anod.	Y	–	2	M5x40	15 Piece	635060
	R05.3	Medium bronze	anod.	Y	–	2	M5x40	15 Piece	635062
			anod.	N	–	2	M5x40	15 Piece	618789
	R05.5	Bronze	anod.	Y	–	2	M5x40	15 Piece	635063
	R07.2	Traffic white	powd-c	Y	–	2	M5x40	15 Piece	635064
			powd-c	N	–	2	M5x40	15 Piece	618791
37	R01.1	Natural silver	anod.	Y	–	2	M5x45	15 Piece	635065
	R01.3	Titanium	anod.	Y	–	2	M5x45	15 Piece	635067
	R03.1	Brass matt	anod.	Y	–	2	M5x45	15 Piece	635068
	R05.3	Medium bronze	anod.	Y	–	2	M5x45	15 Piece	635069
			anod.	N	–	2	M5x45	15 Piece	618792
	R05.5	Bronze	anod.	Y	–	2	M5x45	15 Piece	635070
	R07.2	Traffic white	powd-c	N	–	2	M5x45	15 Piece	635071

43	R01.1	Natural silver	anod.	Y	–	–	–	15 Piece	572421
			anod.	Y	–	2	M5x50	15 Piece	635072
			anod.	N	–	2	M5x55	15 Piece	618793
	R01.3	Titanium	anod.	Y	–	–	–	15 Piece	572423
			anod.	Y	–	2	M5x50	15 Piece	635074
			anod.	N	–	2	M5x55	15 Piece	618805
	R03.1	Brass matt	anod.	Y	–	–	–	15 Piece	572424
			anod.	Y	–	2	M5x50	15 Piece	635075
	R04.1	Grey brown	powd-c	Y	–	2	M5x50	15 Piece	635076
	R05.3	Medium bronze	anod.	Y	–	–	–	15 Piece	572427
			anod.	Y	–	2	M5x50	15 Piece	635077
			anod.	N	–	2	M5x55	15 Piece	618794
	R05.5	Bronze	anod.	Y	–	–	–	15 Piece	572428
			anod.	Y	–	2	M5x50	15 Piece	635078
	R07.2	Traffic white	powd-c	Y	–	–	–	15 Piece	572429
			powd-c	Y	–	2	M5x50	15 Piece	635079
			powd-c	N	–	2	M5x55	15 Piece	618806

2.2.7 Window handles – push-to-open







Product description

- Window handle with push-to-open mechanism
- The push function makes locking and unlocking possible
- Lock-in position 90°
- 10-year performance warranty
- Classification in accordance with DIN EN 13126-3

Scope of delivery

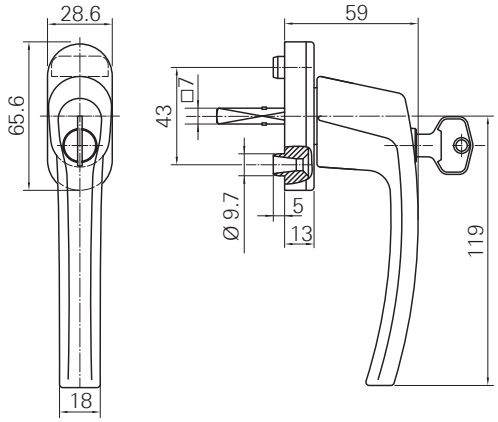
- 1 window handle
- For fixing screws, see table

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

32	R01.1	Natural silver	anod.	N	2	M5x40	15 Piece	618740
	R01.3	Titanium	anod.	N	2	M5x40	15 Piece	618742
	R05.3	Medium bronze	anod.	N	2	M5x40	15 Piece	618741
	R07.2	Traffic white	powd-c	N	2	M5x40	15 Piece	618807
37	R05.3	Medium bronze	anod.	N	2	M5x45	15 Piece	618743
43	R01.1	Natural silver	anod.	N	2	M5x55	15 Piece	618744
	R01.3	Titanium	anod.	N	2	M5x55	15 Piece	618766
	R07.2	Traffic white	powd-c	N	2	M5x55	15 Piece	618767

2.2.8 Window handles – TiltFirst, lockable





Product description

- For window systems with the TiltFirst application (tilting before turning)
- Closed by a rotary cylinder with reversible key
- Can be locked in the 0° and 90° position
- Lock-in position 90°
- 10-year performance warranty
- Classification in accordance with DIN EN 13126-3

Scope of delivery

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

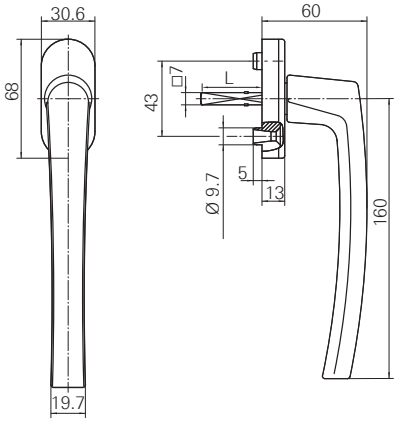
INFO

Further information → *from page 26*. A flush-encased gearbox is required for use in aluminium profiles.

32	R01.1	Natural silver	anod.	N	2	M5x40	15 Piece	618808
	R03.1	Brass matt	anod.	Y	–	–	15 Piece	335311
	R07.2	Traffic white	powd-c	N	2	M5x40	15 Piece	618811
37	R01.1	Natural silver	anod.	N	2	M5x45	15 Piece	618812
	R01.3	Titanium	anod.	N	2	M5x45	15 Piece	618814
	R05.3	Medium bronze	anod.	N	2	M5x45	15 Piece	618813
	R05.5	Bronze	anod.	Y	–	–	15 Piece	494034
	R07.2	Traffic white	powd-c	N	2	M5x45	15 Piece	618815
43			powd-c	N	2	M5x55	15 Piece	618819

2.2.9 Window handles – comfort windows





Product description

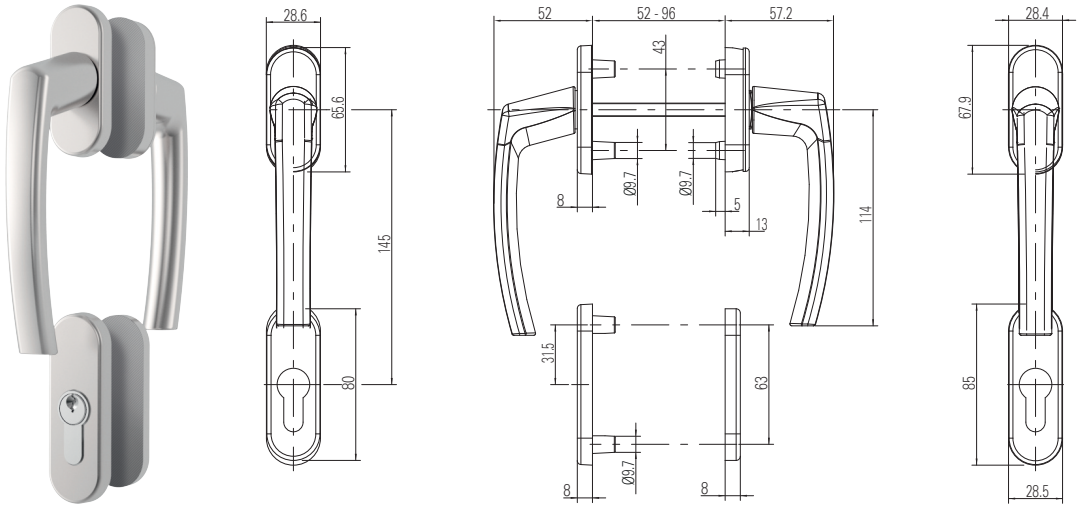
- Basic handle without additional functions
- Lock-in position 90°
- 10-year performance warranty
- Classification in accordance with DIN EN 13126-3

Scope of delivery

- 1 window handle
- Without fixing screws

	Roto			Roto	#			№
35	R01.1	Natural silver	anod.	Y	–	–	1 Piece	211598
	R01.2	Nickel silver	anod.	Y	–	–	1 Piece	211599
	R01.3	Titanium	anod.	Y	–	–	1 Piece	288728
	R01.5	Silver	anod.	Y	–	–	1 Piece	623491
	R05.3	Medium bronze	anod.	Y	–	–	1 Piece	211597
	R05.4	Dark bronze	anod.	Y	–	–	1 Piece	288727
	R06.2M	Jet black, matt	powd-c	Y	–	–	1 Piece	794352
	R07.2	Traffic white	powd-c	Y	–	–	1 Piece	211596
43	R01.1	Natural silver	anod.	Y	–	–	1 Piece	601161
	R01.2	Nickel silver	anod.	Y	–	–	1 Piece	601162
	R01.3	Titanium	anod.	Y	–	–	1 Piece	601163
	R05.3	Medium bronze	anod.	Y	–	–	1 Piece	601164
	R05.4	Dark bronze	anod.	Y	–	–	1 Piece	601165
	R07.2	Traffic white	powd-c	Y	–	–	1 Piece	601166

2.2.10 Balcony door handles – escutcheon with handle on the outside and inside



Product description

- Handle set with escutcheon version
- Outside: handle securely pinned
- Outside and inside: standard handle with profile cylinder escutcheon
- Concealed screw fixing
- Lock-in position 90°
- 10-year performance warranty

Scope of delivery

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

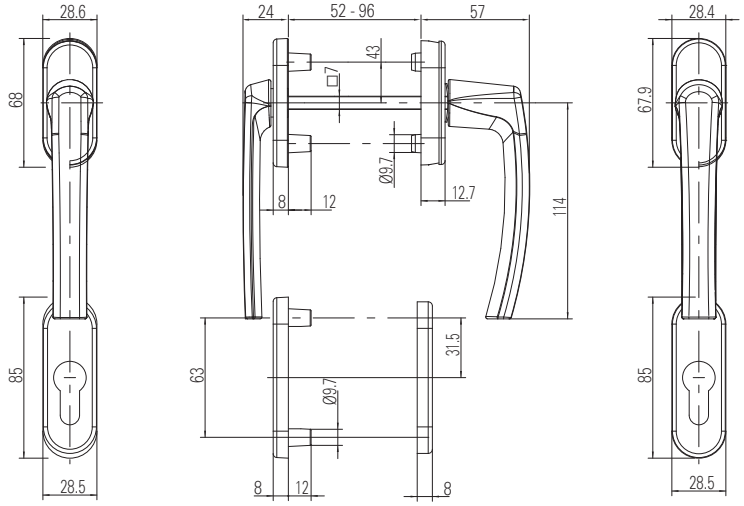
INFO

Profile cylinder is not included in the scope of delivery. A flush-encased gearbox is required for use in aluminium profiles.

	Roto			Roto	#			№
100	R01.1	Natural silver	anod.	Y	4	M5x100	1 Piece	228292
	R01.3	Titanium	anod.	Y	4	M5x100	1 Piece	228233
	R03.1	Brass matt	anod.	Y	4	M5x100	1 Piece	228294
	R04.1	Grey brown	powd-c	Y	4	M5x100	1 Piece	228235
	R05.3	Medium bronze	anod.	Y	4	M5x100	1 Piece	228295
	R05.5	Bronze	anod.	Y	4	M5x100	1 Piece	228296
	R07.2	Traffic white	powd-c	Y	4	M5x100	1 Piece	228237

2.2.11 Balcony door handles – escutcheon with flat handle on the outside and escutcheon with handle on the inside





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
- Lock-in position 90°
- 10-year performance warranty

Scope of delivery

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

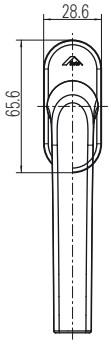
INFO
Profile cylinder is not included in the scope of delivery.

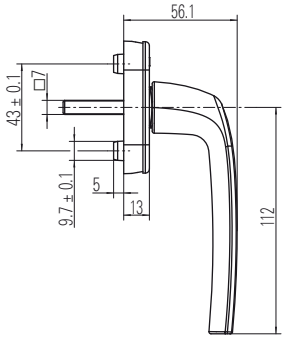
	Roto			Roto	#			№
100	R01.1	Natural silver	anod.	Y	4	M5x100	1 Piece	228302
	R01.3	Titanium	anod.	Y	4	M5x100	1 Piece	228245
	R05.3	Medium bronze	anod.	Y	4	M5x100	1 Piece	228305
	R05.5	Bronze	anod.	Y	4	M5x100	1 Piece	228306
	R07.2	Traffic white	powd-c	Y	4	M5x100	1 Piece	228249

2.3 Roto Samba

2.3.1 Window handles – standard







Product description

- Basic handle without additional functions
- Lock-in position 90°
- 10-year performance warranty
- Classification in accordance with DIN EN 13126-3

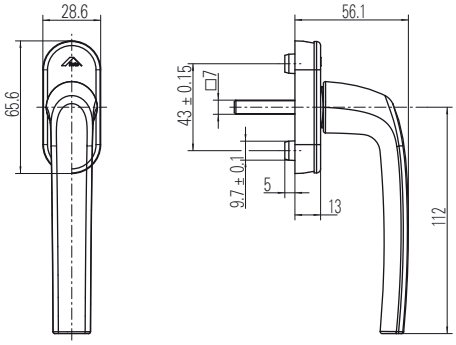
Scope of delivery

- 1 window handle
- 2 fixing screws

	Roto			Roto	#			№
32	R01.1	Natural silver	anod.	Y	2	M5x40	100 Piece	639648
	R01.3	Titanium	anod.	Y	2	M5x40	100 Piece	639667
	R03.1	Brass matt	anod.	Y	2	M5x40	100 Piece	639651
	R05.5	Bronze	anod.	Y	2	M5x40	100 Piece	639654
37	R01.1	Natural silver	anod.	Y	2	M5x45	100 Piece	639649
	R01.3	Titanium	anod.	Y	2	M5x45	100 Piece	639668
	R03.1	Brass matt	anod.	Y	2	M5x45	100 Piece	639652
	R04.1	Grey brown	powd-c	Y	2	M5x45	100 Piece	787954
	R05.5	Bronze	anod.	Y	2	M5x45	100 Piece	639665
	R07.2	Traffic white	powd-c	Y	2	M5x45	100 Piece	787955
43	R01.1	Natural silver	anod.	Y	2	M5x50	100 Piece	639650
	R01.3	Titanium	anod.	Y	2	M5x50	100 Piece	639669
	R03.1	Brass matt	anod.	Y	2	M5x50	100 Piece	639653
	R04.1	Grey brown	powd-c	Y	2	M5x50	100 Piece	787956
	R05.5	Bronze	anod.	Y	2	M5x50	100 Piece	639666
	R07.2	Traffic white	powd-c	Y	2	M5x50	100 Piece	787957

2.3.2 Window handles – standard for night ventilation





Product description

- Basic handle without additional functions
- Lock-in position 90°, lock-in position 45° for night ventilation
- 10-year performance warranty
- Classification in accordance with DIN EN 13126-3

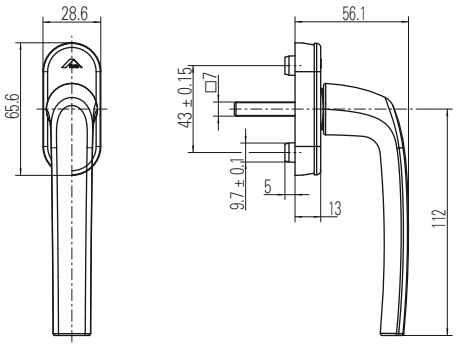
Scope of delivery

- 1 window handle
- 2 fixing screws

32	R01.1	Natural silver	anod.	Y	2	M5x40	100 Piece	639676
	R01.3	Titanium	anod.	Y	2	M5x40	100 Piece	639695
	R04.1	Grey brown	powd-c	Y	2	M5x40	100 Piece	639673
	R05.5	Bronze	anod.	Y	2	M5x40	100 Piece	639682
	R07.2	Traffic white	powd-c	Y	2	M5x40	100 Piece	639670
37	R01.1	Natural silver	anod.	Y	2	M5x45	100 Piece	639677
	R01.3	Titanium	anod.	Y	2	M5x45	100 Piece	639696
	R03.1	Brass matt	anod.	Y	2	M5x45	100 Piece	639680
	R04.1	Grey brown	powd-c	Y	2	M5x45	100 Piece	787958
	R05.5	Bronze	anod.	Y	2	M5x45	100 Piece	639683
	R07.2	Traffic white	powd-c	Y	2	M5x45	100 Piece	787959
43	R01.1	Natural silver	anod.	Y	2	M5x50	100 Piece	639678
	R01.3	Titanium	anod.	Y	2	M5x50	100 Piece	639697
	R03.1	Brass matt	anod.	Y	2	M5x50	100 Piece	639681
	R04.1	Grey brown	powd-c	Y	2	M5x50	100 Piece	787960
	R05.5	Bronze	anod.	Y	2	M5x50	100 Piece	639684
	R07.2	Traffic white	powd-c	Y	2	M5x50	100 Piece	787961

2.3.3 Window handles – Secustik®





Product description

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

Scope of delivery

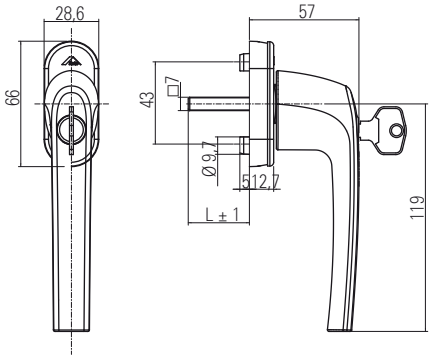
- 1 window handle
- 2 fixing screws

INFO
Further information → *from page 24*

	Roto			Roto	#			№
32	R01.1	Natural silver	anod.	Y	2	M5x40	80 Piece	639704
	R01.3	Titanium	anod.	Y	2	M5x40	80 Piece	639715
	R04.1	Grey brown	powd-c	Y	2	M5x40	80 Piece	639701
	R05.5	Bronze	anod.	Y	2	M5x40	80 Piece	639712
	R07.2	Traffic white	powd-c	Y	2	M5x40	80 Piece	639698
37	R01.1	Natural silver	anod.	Y	2	M5x50	80 Piece	639706
	R01.3	Titanium	anod.	Y	2	M5x50	80 Piece	639716
	R03.1	Brass matt	anod.	Y	2	M5x50	80 Piece	639710
	R04.1	Grey brown	powd-c	Y	2	M5x50	80 Piece	639702
	R05.5	Bronze	anod.	Y	2	M5x50	80 Piece	639713
	R07.2	Traffic white	powd-c	Y	2	M5x50	80 Piece	639699
43	R01.1	Natural silver	anod.	Y	2	M5x55	80 Piece	639707
	R01.3	Titanium	anod.	Y	2	M5x55	80 Piece	639717
	R03.1	Brass matt	anod.	Y	2	M5x55	80 Piece	639711
	R04.1	Grey brown	powd-c	Y	2	M5x55	80 Piece	639703
	R05.5	Bronze	anod.	Y	2	M5x55	80 Piece	639714
	R07.2	Traffic white	powd-c	Y	2	M5x55	80 Piece	639700

2.3.4 Window handles – lockable, 40 Nm





Product description

- Lockable handle with tested torque 40 Nm (basic security)
- Closed by a rotary cylinder with reversible key
- Can be unlocked and locked as required
- Can be operated when the handle is unlocked
- Lock-in position 90°
- 10-year performance warranty
- Classification in accordance with DIN EN 13126-3

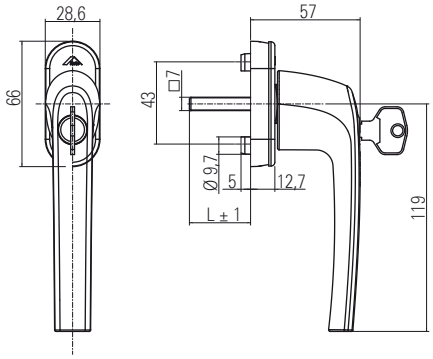
Scope of delivery

- 1 window handle
- 1 key
- 2 fixing screws

32	R01.1	Natural silver	anod.	Y	2	M5x40	40 Piece	639693
	R01.3	Titanium	anod.	Y	2	M5x40	40 Piece	639744
	R04.1	Grey brown	powd-c	Y	2	M5x40	40 Piece	639721
	R05.5	Bronze	anod.	Y	2	M5x40	40 Piece	639741
	R07.2	Traffic white	powd-c	Y	2	M5x40	40 Piece	639718
37	R01.1	Natural silver	anod.	Y	2	M5x45	40 Piece	639694
	R01.3	Titanium	anod.	Y	2	M5x45	40 Piece	639745
	R04.1	Grey brown	powd-c	Y	2	M5x45	40 Piece	639722
	R05.5	Bronze	anod.	Y	2	M5x45	40 Piece	639742
	R07.2	Traffic white	powd-c	Y	2	M5x45	40 Piece	639719
43	R01.1	Natural silver	anod.	Y	2	M5x50	40 Piece	639735
	R01.3	Titanium	anod.	Y	2	M5x50	40 Piece	639746
	R04.1	Grey brown	powd-c	Y	2	M5x50	40 Piece	639723
	R05.5	Bronze	anod.	Y	2	M5x50	40 Piece	639743
	R07.2	Traffic white	powd-c	Y	2	M5x50	40 Piece	639720

2.3.5 Window handles – lockable, 100 Nm





Product description

- Lockable handle with tested torque 100 Nm
- Closed by a push cylinder with reversible key
- Simple and quick locking by pushing down the cylinder
- Meets the requirements of DIN EN 1627-1630, RC1 - RC6
- Lock-in position 90°
- 10-year performance warranty
- Classification in accordance with DIN EN 13126-3

Scope of delivery

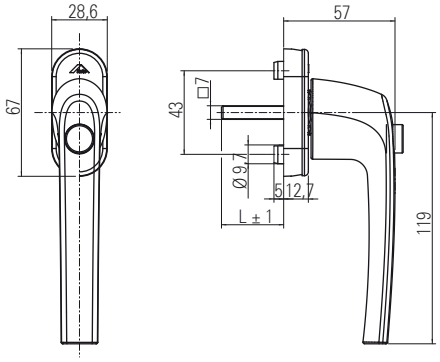
- 1 window handle
- 1 key
- 2 fixing screws

INFO
For further information, see → *from page 24*

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

2.3.6 Window handles – push-to-open





Product description

- Window handle with push-to-open mechanism
- The push function makes locking and unlocking possible
- Lock-in position 90°
- 10-year performance warranty
- Classification in accordance with DIN EN 13126-3

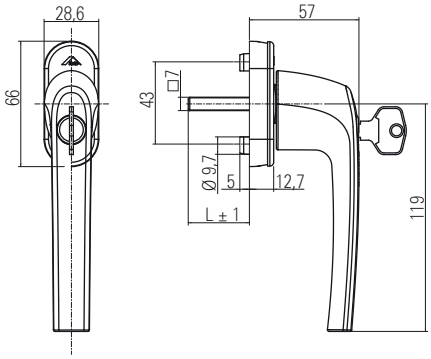
Scope of delivery

- 1 window handle
- 2 fixing screws

32	R01.1	Natural silver	anod.	Y	2	M5x40	40 Piece	639799
	R01.3	Titanium	anod.	Y	2	M5x40	40 Piece	639808
	R07.2	Traffic white	powd-c	Y	2	M5x40	40 Piece	639783
37	R01.1	Natural silver	anod.	Y	2	M5x45	40 Piece	639800
	R01.3	Titanium	anod.	Y	2	M5x45	40 Piece	639809
	R04.1	Grey brown	powd-c	Y	2	M5x45	40 Piece	639797
	R07.2	Traffic white	powd-c	Y	2	M5x45	40 Piece	639784
43	R01.1	Natural silver	anod.	Y	2	M5x50	40 Piece	639801
	R01.3	Titanium	anod.	Y	2	M5x50	40 Piece	639810
	R07.2	Traffic white	powd-c	Y	2	M5x50	40 Piece	639795

2.3.7 Window handles – TiltFirst, lockable





Product description

- For window systems with the TiltFirst application (tilting before turning)
- Closed by a rotary cylinder with reversible key
- Can be locked in the 0° and 90° position
- Lock-in position 90°
- 10-year performance warranty
- Classification in accordance with DIN EN 13126-3

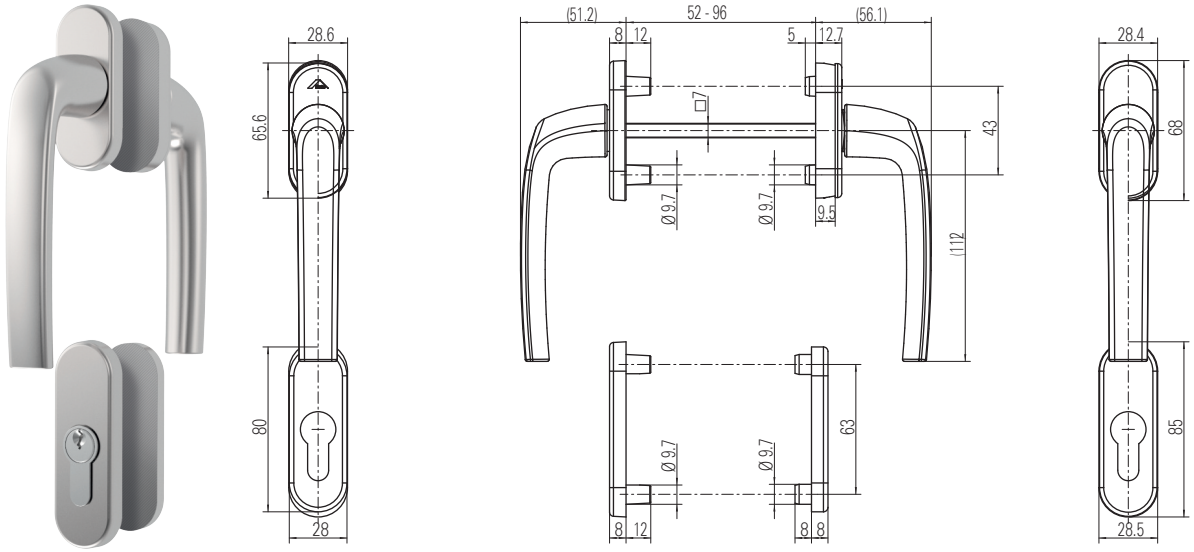
Scope of delivery

- 1 window handle
- 1 key
- 2 fixing screws

INFO
Further information → *from page 26*

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

2.3.8 Balcony door handles – escutcheon with handle on the outside and inside



Product description

- Handle set with escutcheon version
- Outside: handle securely pinned
- Outside and inside: standard handle with profile cylinder escutcheon
- Concealed screw fixing
- Lock-in position 90°
- 10-year performance warranty

Scope of delivery

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

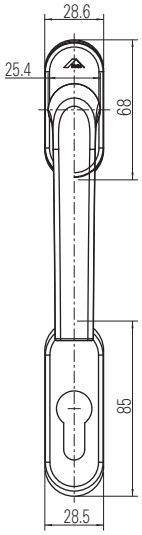
INFO

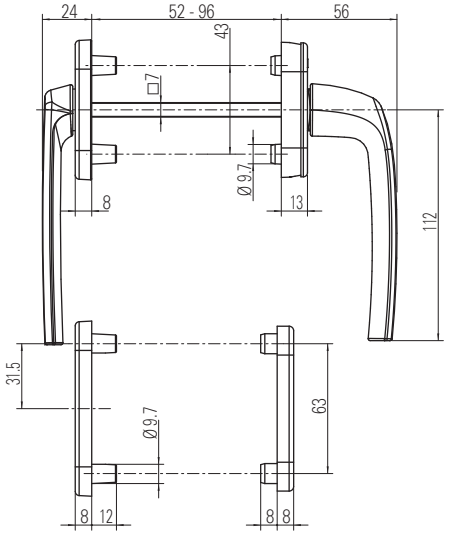
Profile cylinder is not included in the scope of delivery. A flush-encased gearbox is required for use in aluminium profiles.

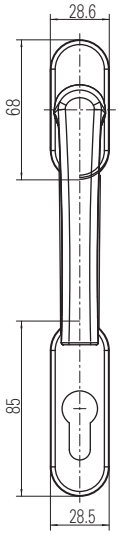
	Roto			Roto	#			№
127	R01.1	Natural silver	anod.	Y	2	M5x110	1 Piece	639815
	R01.3	Titanium	anod.	Y	2	M5x110	1 Piece	639818
	R04.1	Grey brown	powd-c	Y	2	M5x110	1 Piece	639814
	R07.2	Traffic white	powd-c	Y	2	M5x110	1 Piece	639813

2.3.9 Balcony door handles – escutcheon with flat handle on the outside and escutcheon with handle on the inside









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
- Lock-in position 90°
- 10-year performance warranty

Scope of delivery

- 2 window 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	640333
	R01.3	Titanium	anod.	Y	2	M5x110	1 Piece	640335
	R04.1	Grey brown	powd-c	Y	2	M5x110	1 Piece	640332
	R07.2	Traffic white	powd-c	Y	2	M5x110	1 Piece	640331

Roto AL





Roto Outward Opening





Roto Line

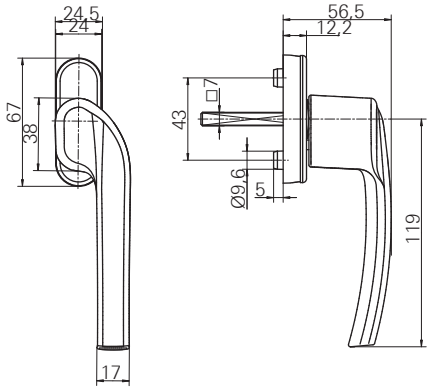
Window handles – cranked	90
Window handles – MK 2 with push-to-open mechanism	91
Window handles – cranked, lockable, 100 Nm	92
Window handles – MK 2, cranked, lockable	93
Window handles – MK 3, lockable	94

3 Roto Outward Opening

3.1 Roto Line

3.1.1 Window handles – cranked





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

Product description

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

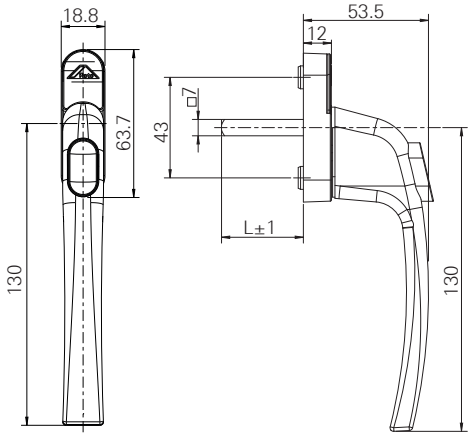
Scope of delivery

- 1 window handle
- Without fixing screws

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

3.1.2 Window handles – MK 2 with push-to-open mechanism





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

Product description

- Window handle with push-to-open mechanism
- Lock-in position 90°
- 10-year performance warranty

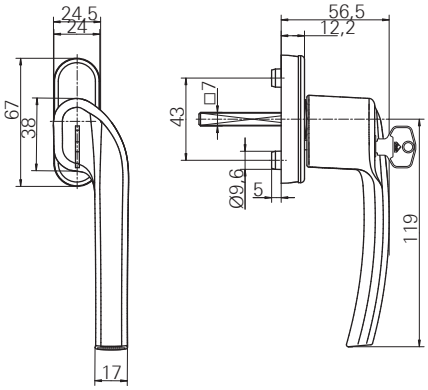
Scope of delivery

- 1 window handle
- Without fixing screws

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

3.1.3 Window handles – cranked, lockable, 100 Nm





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

Product description

- Lockable handle with tested torque 100 Nm
- Closed by a push cylinder with reversible key
- Simple and quick locking by pushing down the cylinder
- Meets the requirements of SKG
- Lock-in position 90°
- 10-year performance warranty

Scope of delivery

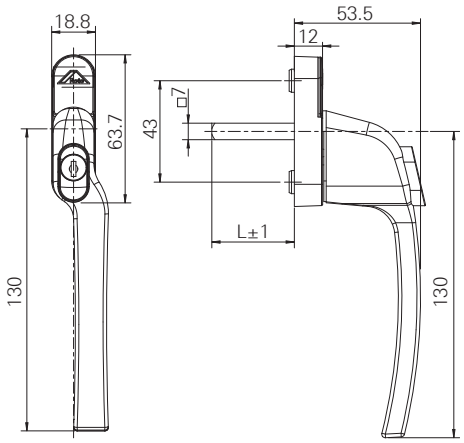
- 1 window handle
- 1 key
- Without fixing screws

	Roto			Roto		#				№
43	R01.1	Natural silver	anod.	N	SKG	–	–	40 Piece	Left	375322
			anod.	Y	SKG	–	–	40 Piece	Right	375819
	R01.3	Titanium	anod.	N	SKG	–	–	40 Piece	Left	375325
	R07.2	Traffic white	powd-c	N	SKG	–	–	40 Piece	Right	375330
			powd-c	N	SKG	–	–	40 Piece	Left	375821

3.1.4 Window handles – MK 2, cranked, lockable



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



Product description

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

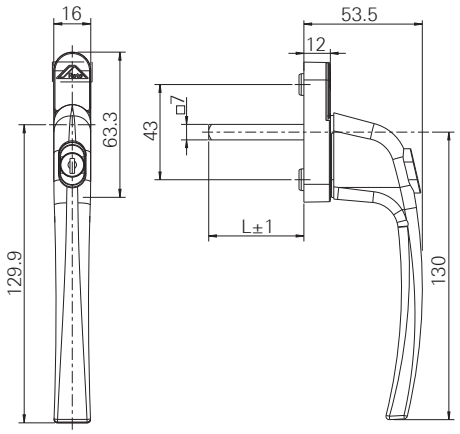
Scope of delivery

- 1 window handle
- Without fixing screws

	Roto		Roto		#				№
43	R01.4	Chromium	Y	anod.	–	–	Left	40 Piece	345790
43	R01.4	Chromium	Y	anod.	–	–	Right	40 Piece	345792

3.1.5 Window handles – MK 3, lockable





Product description

- Handle, lockable
- Lock-in position 90°

Scope of delivery

- 1 window handle
- 1 key
- Without fixing screws

43	R03.3	Gold	anod.	Y	–	–	40 Piece	335288
43	R07.2	Traffic white	powd-c	Y	–	–	40 Piece	335284

Roto Patio Fold





Roto Line

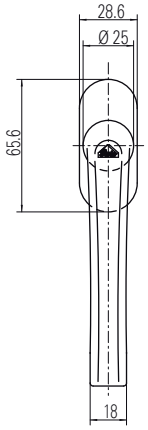
Sliding door handles – flat handle	100
Window handles – standard	101
Window handles – Secustik®	102
Window handles – lockable, 40 Nm	103
Window handles – push-to-open	104
Balcony door handles – escutcheon with handle on the outside and inside	105
Balcony door handles – escutcheon with flat handle on the outside and escutcheon with handle on the inside	106

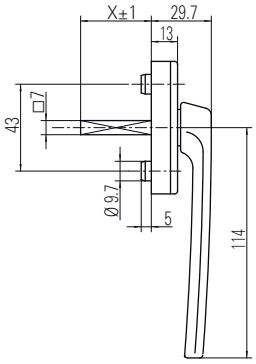
4 Roto Patio Fold

4.1 Roto Line

4.1.1 Sliding door handles – flat handle







Product description

- Basic handle without additional functions
- Lock-in position 90°
- 10-year performance warranty

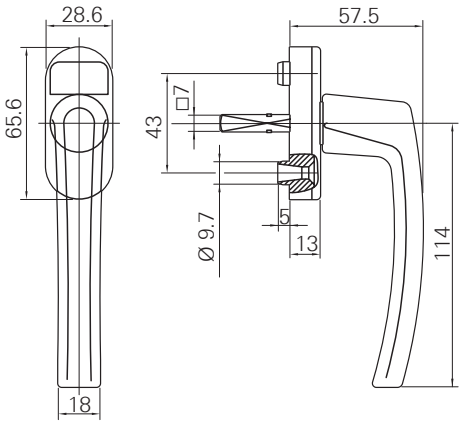
Scope of delivery

- 1 sliding door handle
- Without fixing screws

								№
35	R01.1	Natural silver	anod.	Y	–	–	20 Piece	336112
	R01.3	Titanium	anod.	Y	–	–	10 Piece	485766
	R03.1	Brass matt	anod.	Y	–	–	10 Piece	485765
	R04.1	Grey brown	powd-c	Y	–	–	10 Piece	485764
	R04.4	Black brown	powd-c	Y	–	–	10 Piece	490462
	R05.3	Medium bronze	anod.	Y	–	–	20 Piece	336111
	R06.2M	Jet black, matt	powd-c	Y	–	–	10 Piece	794355
	R07.2	Traffic white	powd-c	Y	–	–	20 Piece	336110
55	R01.1	Natural silver	anod.	Y	–	–	10 Piece	490560
	R05.3	Medium bronze	anod.	Y	–	–	10 Piece	490561
	R07.2	Traffic white	powd-c	Y	–	–	10 Piece	490562

4.1.2 Window handles – standard





Product description

- Basic handle without additional functions
- Lock-in position 90°
- 10-year performance warranty
- Classification in accordance with DIN EN 13126-3

Scope of delivery

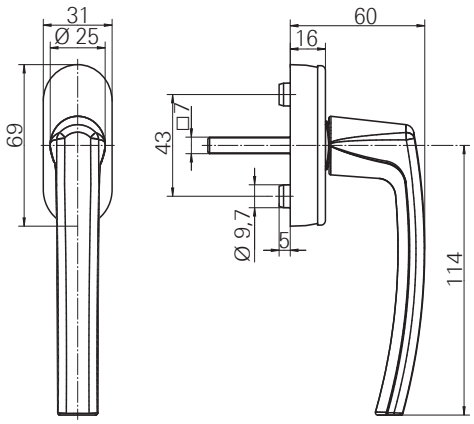
- 1 window handle
- For fixing screws, see table

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

32	R01.1	Natural silver	anod.	N	2	M5x40	20 Piece	618706
	R01.3	Titanium	anod.	N	2	M5x40	20 Piece	618708
	R05.3	Medium bronze	anod.	N	2	M5x40	20 Piece	618707
	R07.2	Traffic white	powd-c	N	2	M5x40	20 Piece	618709
37	R01.1	Natural silver	anod.	N	2	M5x45	20 Piece	384342
	R01.3	Titanium	anod.	N	2	M5x45	20 Piece	384344
	R05.3	Medium bronze	anod.	N	2	M5x45	20 Piece	618710
	R07.2	Traffic white	powd-c	N	2	M5x45	20 Piece	386267
43	R01.1	Natural silver	anod.	N	2	M5x55	20 Piece	618711
	R01.3	Titanium	anod.	N	2	M5x55	20 Piece	618713
	R03.1	Brass matt	anod.	Y	–	–	20 Piece	572415
	R04.1	Grey brown	powd-c	Y	–	–	20 Piece	572416
	R05.3	Medium bronze	anod.	Y	–	–	20 Piece	572417
			anod.	N	2	M5x55	20 Piece	618712
	R05.5	Bronze	anod.	Y	–	–	20 Piece	572418
	R07.2	Traffic white	powd-c	Y	–	–	20 Piece	572419
			powd-c	N	2	M5x55	20 Piece	618739

4.1.3 Window handles – Secustik®







Product description

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

Scope of delivery

- 1 window handle
- For fixing screws, see table

INFO

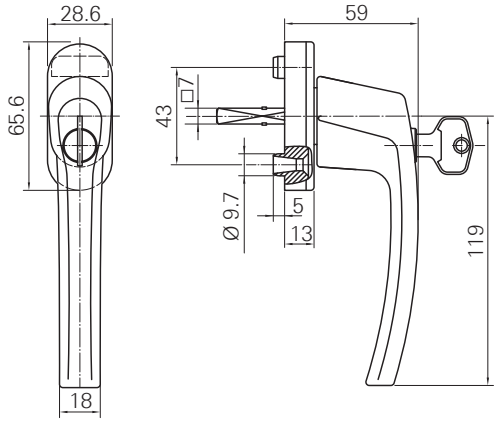
Further information → *from page 24*

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

32	R01.1	Natural silver	anod.	N	2	M5x40	20 Piece	618714
	R01.3	Titanium	anod.	N	2	M5x40	20 Piece	618736
	R05.3	Medium bronze	anod.	N	2	M5x40	20 Piece	618735
	R07.2	Traffic white	powd-c	N	2	M5x40	20 Piece	618737
37	R01.3	Titanium	anod.	Y	2	M5x50	20 Piece	799796
	R05.3	Medium bronze	anod.	N	2	M5x50	20 Piece	618738

4.1.4 Window handles – lockable, 40 Nm





Product description

- Lockable handle with tested torque 40 Nm (basic security)
- Closed by a rotary cylinder with reversible key
- Can be unlocked and locked as required
- Can be operated when the handle is unlocked
- Lock-in position 90°
- 10-year performance warranty
- Classification in accordance with DIN EN 13126-3

Scope of delivery

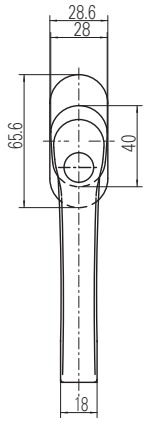
- 1 window handle
- 1 key
- For fixing screws, see table

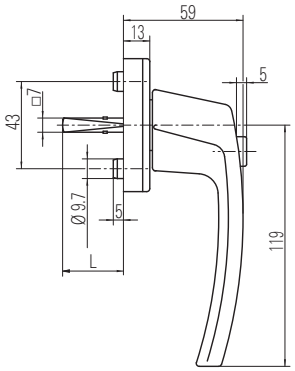
INFO
A flush-encased gearbox is required for use in aluminium profiles.

32	R01.1	Natural silver	anod.	N	–	2	M5x40	15 Piece	618768
	R01.3	Titanium	anod.	N	–	2	M5x40	15 Piece	618770
	R05.3	Medium bronze	anod.	N	–	2	M5x40	15 Piece	618769
	R07.2	Traffic white	powd-c	N	–	2	M5x40	15 Piece	618771
37	R05.3	Medium bronze	anod.	N	–	2	M5x45	15 Piece	618772
43	R01.1	Natural silver	anod.	N	–	2	M5x55	15 Piece	618774
	R01.3	Titanium	anod.	N	–	2	M5x55	15 Piece	618786
	R07.2	Traffic white	powd-c	N	–	2	M5x55	15 Piece	618787

4.1.5 Window handles – push-to-open







Product description

- Window handle with push-to-open mechanism
- The push function makes locking and unlocking possible
- Lock-in position 90°
- 10-year performance warranty
- Classification in accordance with DIN EN 13126-3

Scope of delivery

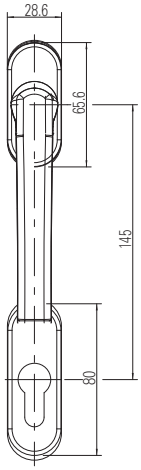
- 1 window handle
- For fixing screws, see table

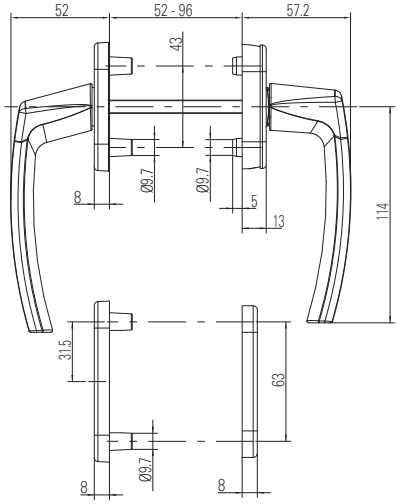
INFO
A flush-encased gearbox is required for use in aluminium profiles.

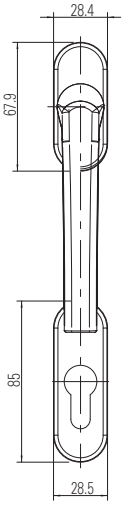
32	R01.1	Natural silver	anod.	N	2	M5x40	15 Piece	618740
	R01.3	Titanium	anod.	N	2	M5x40	15 Piece	618742
	R05.3	Medium bronze	anod.	N	2	M5x40	15 Piece	618741
	R07.2	Traffic white	powd-c	N	2	M5x40	15 Piece	618807
37	R05.3	Medium bronze	anod.	N	2	M5x45	15 Piece	618743
43	R01.1	Natural silver	anod.	N	2	M5x55	15 Piece	618744
	R01.3	Titanium	anod.	N	2	M5x55	15 Piece	618766
	R07.2	Traffic white	powd-c	N	2	M5x55	15 Piece	618767

4.1.6 Balcony door handles – escutcheon with handle on the outside and inside













Product description

- Handle set with escutcheon version
- Outside: handle securely pinned
- Outside and inside: standard handle with profile cylinder escutcheon
- Concealed screw fixing
- Lock-in position 90°
- 10-year performance warranty

Scope of delivery

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

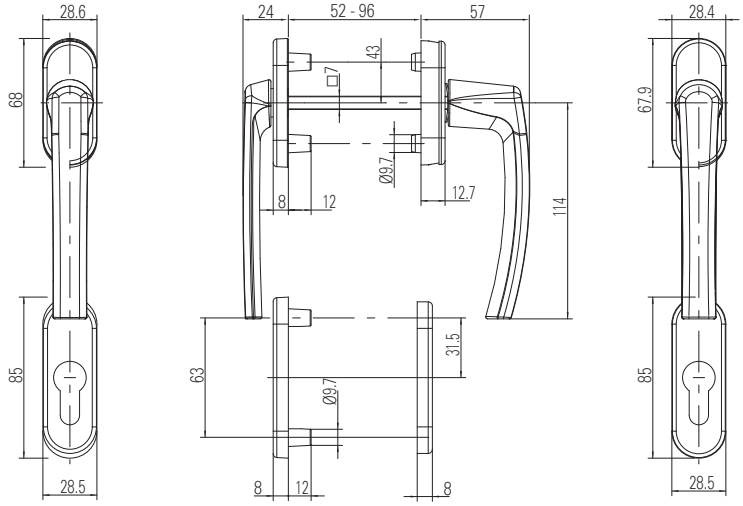
INFO

Profile cylinder is not included in the scope of delivery. A flush-encased gearbox is required for use in aluminium profiles.

	Roto			Roto	#			№
100	R01.1	Natural silver	anod.	Y	4	M5x100	1 Piece	228292
	R01.3	Titanium	anod.	Y	4	M5x100	1 Piece	228233
	R03.1	Brass matt	anod.	Y	4	M5x100	1 Piece	228294
	R04.1	Grey brown	powd-c	Y	4	M5x100	1 Piece	228235
	R05.3	Medium bronze	anod.	Y	4	M5x100	1 Piece	228295
	R05.5	Bronze	anod.	Y	4	M5x100	1 Piece	228296
	R07.2	Traffic white	powd-c	Y	4	M5x100	1 Piece	228237

4.1.7 Balcony door handles – escutcheon with flat handle on the outside and escutcheon with handle on the inside





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
- Lock-in position 90°
- 10-year performance warranty

Scope of delivery

- 2 window 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.

	Roto			Roto	#			№
100	R01.1	Natural silver	anod.	Y	4	M5x100	1 Piece	228302
	R01.3	Titanium	anod.	Y	4	M5x100	1 Piece	228245
	R05.3	Medium bronze	anod.	Y	4	M5x100	1 Piece	228305
	R05.5	Bronze	anod.	Y	4	M5x100	1 Piece	228306
	R07.2	Traffic white	powd-c	Y	4	M5x100	1 Piece	228249

Roto Patio Life





Roto Line

Sliding door handles – standard	112
Sliding door handles – lockable, 40 Nm	113
Sliding door handles – external escutcheon with handle	114
Sliding door handles – external recessed grip	115
Accessories	116

Roto Swing

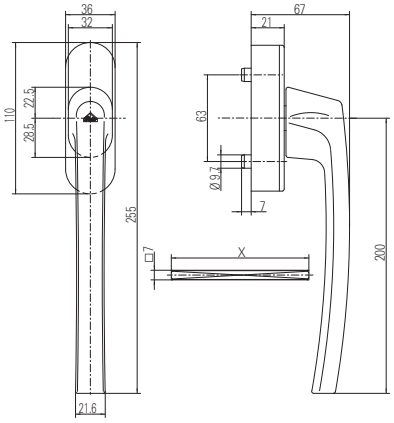
Sliding door handles – standard	117
Sliding door handles – lockable, 40 Nm	118
Sliding door handles – external escutcheon with handle	119

5 Roto Patio Life

5.1 Roto Line

5.1.1 Sliding door handles – standard





Product description

- Basic handle without additional functions
- Lock-in position 90°
- 10-year performance warranty

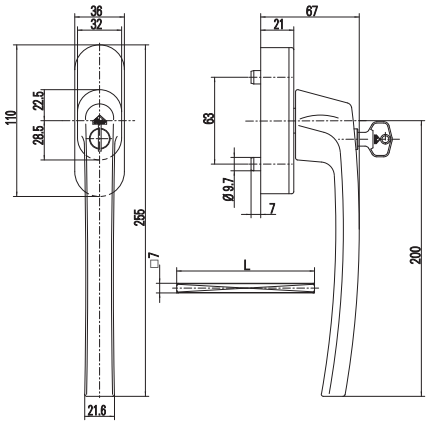
Scope of delivery

- 1 sliding door handle
- 1 square spindle
- 2 fixing screws

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

5.1.2 Sliding door handles – lockable, 40 Nm





Product description

- Lockable handle with tested torque 40 Nm (basic security)
- Closed by a rotary cylinder with reversible key
- Can be unlocked and locked as required
- Can be operated when the handle is unlocked
- Lock-in position 90°
- 10-year performance warranty

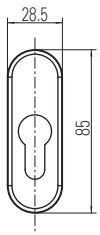
Scope of delivery

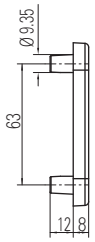
- 1 sliding door handle
- 1 square spindle
- 1 key
- 2 fixing screws, can be shortened

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

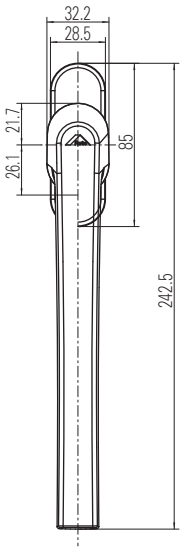
5.1.3 Sliding door handles – external escutcheon with handle

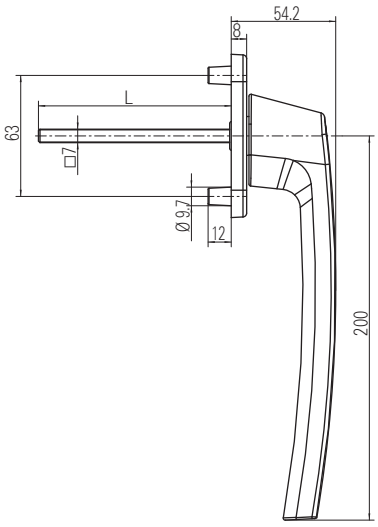












Product description

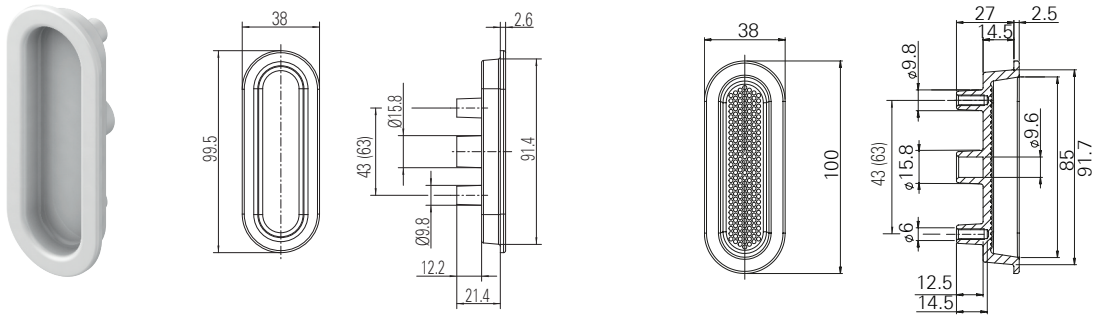
- Basic handle without additional functions
- Screws, can be shortened
- 10-year performance warranty

Scope of delivery

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

	Roto			Roto	#			№
100	R01.1	Natural silver	anod.	Y	2	M5x100	10 Piece	494453
	R01.3	Titanium	anod.	Y	2	M5x100	10 Piece	734005
	R05.3	Medium bronze	anod.	Y	2	M5x100	10 Piece	494454
	R07.2	Traffic white	powd-c	Y	2	M5x100	10 Piece	494465
150	R01.1	Natural silver	anod.	Y	2	M5x110	10 Piece	603602
	R05.3	Medium bronze	anod.	Y	2	M5x110	10 Piece	603603
	R05.5	Bronze	anod.	Y	2	M5x110	10 Piece	614578
	R07.2	Traffic white	powd-c	Y	2	M5x110	10 Piece	603604

5.1.4 Sliding door handles – external recessed grip



Product description

- Can be routed in
- 10-year performance warranty

Scope of delivery

- 1 recessed grip

Standard recessed grip

43	R01.1	Natural silver	anod.	N	–	–	10 Piece	494472
	R01.3	Titanium	anod.	N	–	–	10 Piece	623221
	R05.3	Medium bronze	anod.	N	–	–	10 Piece	494473
	R05.5	Bronze	anod.	N	–	–	10 Piece	614625
	R07.2	Traffic white	powd-c	N	–	–	10 Piece	494474
	Roh	Uncoated	–	N	–	–	10 Piece	387935
63	R01.1	Natural silver	anod.	N	–	–	10 Piece	494469
	R01.3	Titanium	anod.	N	–	–	10 Piece	623261
	R05.3	Medium bronze	anod.	N	–	–	10 Piece	494470
	R05.5	Bronze	anod.	N	–	–	10 Piece	614626
	R07.2	Traffic white	powd-c	N	–	–	10 Piece	494471

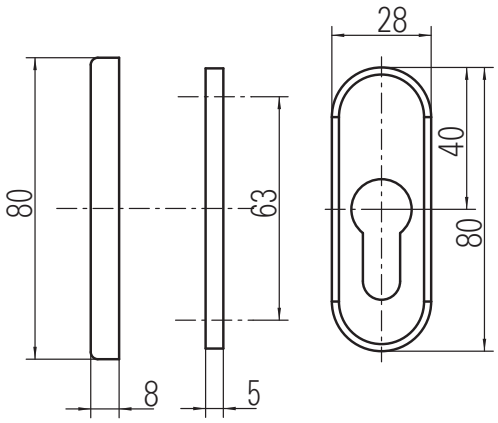
Deep recessed grip

63	R01.1	Natural silver	anod.	N	–	–	10 Piece	623550
	R05.3	Medium bronze	anod.	N	–	–	10 Piece	623551
	R07.2	Traffic white	powd-c	N	–	–	10 Piece	623552
	Roh	Uncoated	–	N	–	–	10 Piece	627912

5.1.5 Accessories

5.1.5.1 Inside escutcheon cover





Product description

- Profile cylinder escutcheon cover inside
- 10-year functional warranty

Scope of delivery

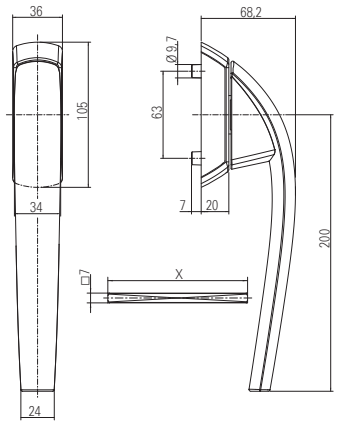
- 1 profile cylinder escutcheon cover

43	R01.1	Natural silver	anod.	N	–	–	10 Piece	494466
	R01.3	Titanium	anod.	N	–	–	10 Piece	228260
	R05.3	Medium bronze	anod.	N	–	–	10 Piece	494467
	R07.2	Traffic white	powd-c	N	–	–	10 Piece	258952

5.2 Roto Swing

5.2.1 Sliding door handles – standard





Product description

- Basic handle without additional functions
- Lock-in position 90°
- 10-year performance warranty

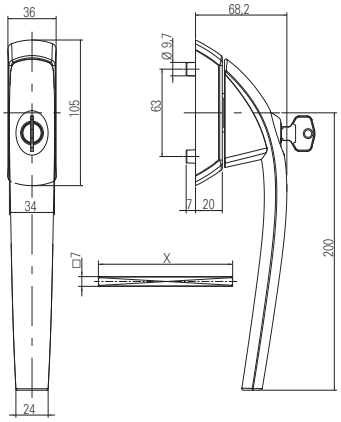
Scope of delivery

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

					#			№
150	R01.1	Natural silver	anod.	Y	2	M5x110	1 Piece	619642
	R05.3	Medium bronze	anod.	Y	2	M5x110	1 Piece	619643
	R07.2	Traffic white	powd-c	Y	2	M5x110	1 Piece	619644

5.2.2 Sliding door handles – lockable, 40 Nm





Product description

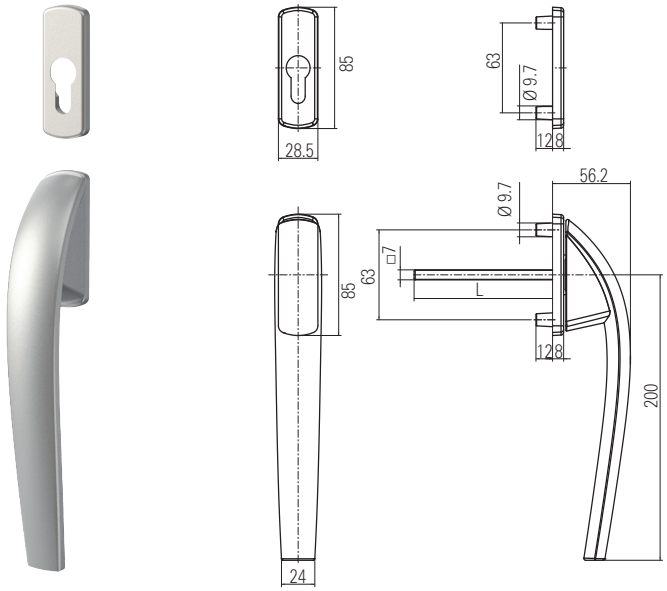
- Lockable handle with tested torque 40 Nm (basic security)
- Closed by a rotary cylinder with reversible key
- Can be unlocked and locked as required
- Can be operated when the handle is unlocked
- Lock-in position 90°
- 10-year performance warranty

Scope of delivery

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

150	R01.1	Natural silver	anod.	Y	2	M5x110	1 Piece	619655
	R05.3	Medium bronze	anod.	Y	2	M5x110	1 Piece	619656
	R07.2	Traffic white	powd-c	Y	2	M5x110	1 Piece	619657

5.2.3 Sliding door handles – external escutcheon with handle



Product description

- Basic handle without additional functions
- Lock-in position 90°
- 10-year performance warranty

Scope of delivery

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

150	R01.1	Natural silver	anod.	Y	2	M5x110	10 Piece	619658
	R05.3	Medium bronze	anod.	Y	2	M5x110	10 Piece	619659
	R07.2	Traffic white	powd-c	Y	2	M5x110	10 Piece	619660

Roto Patio Lift





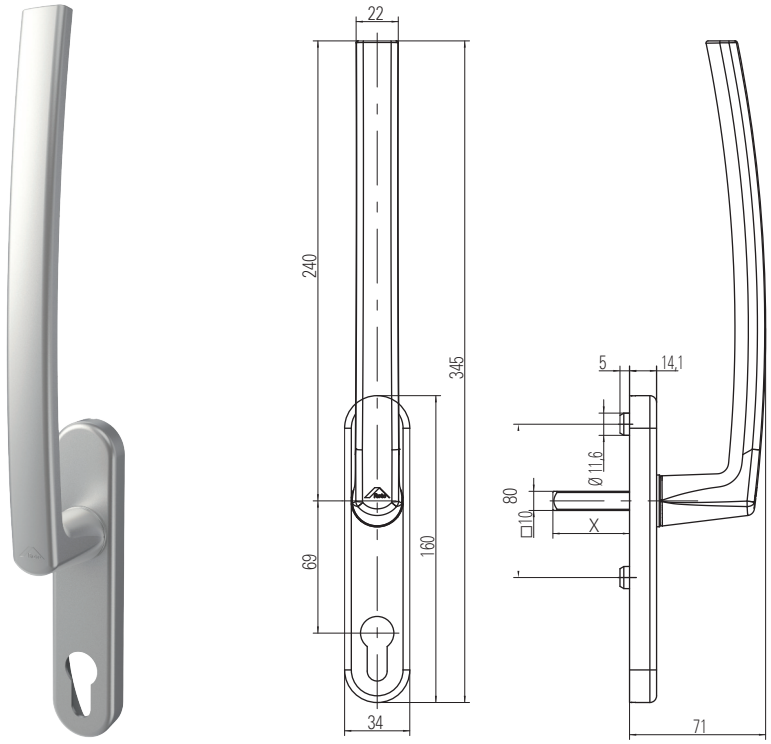
Roto Line

Lift&Slide door handles – interior handle	124
Lift&Slide door handles – interior handle	126
Lift&Slide door handles – exterior handle	127
Lift&Slide door handles – external recessed grip; rectangular 7 mm	128
Lift&Slide door handles – external recessed grip; rectangular 11 mm	129
Lift&Slide door handles – external recessed grip; oval 7 mm	129

6 Roto Patio Lift

6.1 Roto Line

6.1.1 Lift&Slide door handles – interior handle



Product description

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

Scope of delivery

- 1 Lift&Slide door handle
- 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.

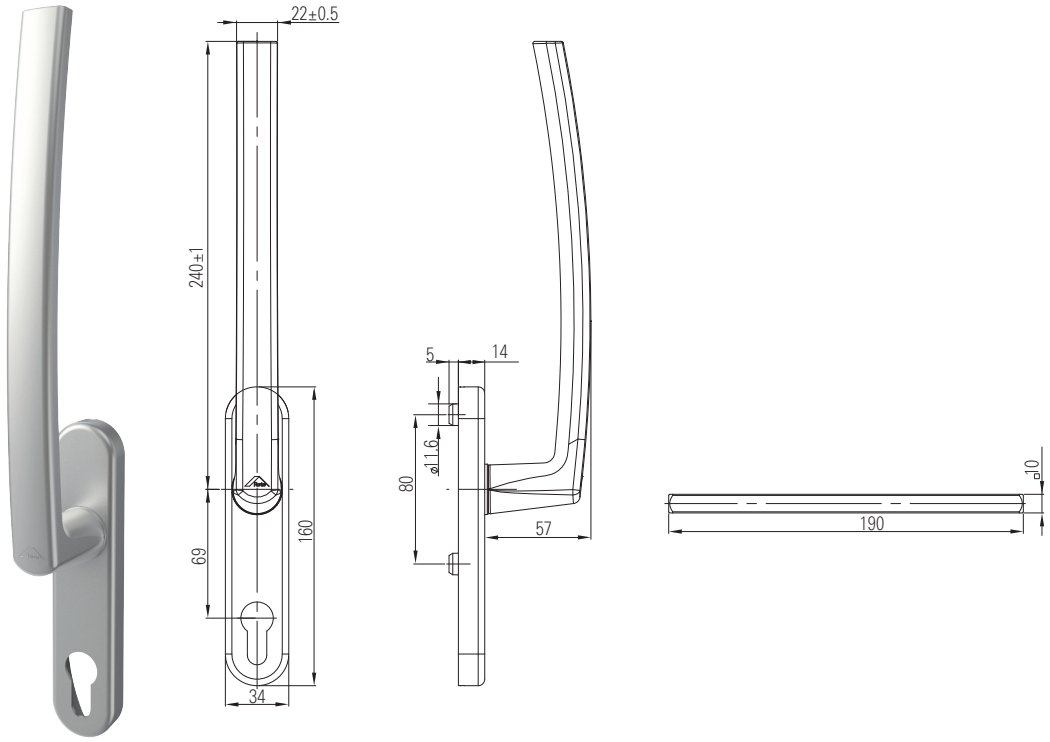
With profile cylinder hole

					#			№
40	R01.1	Natural silver	anod.	Y	2	M5x110	1 Piece	635141
	R06.2M	Jet black, matt	powd-c	Y	2	M5x110	1 Piece	635140
	R07.2	Traffic white	powd-c	Y	2	M5x110	1 Piece	635139
	Roh	Uncoated	–	N	2	M5x110	1 Piece	635143

Without profile cylinder hole

					#			№
40	R01.1	Natural silver	anod.	Y	2	M5x110	1 Piece	635146
	R01.3	Titanium	anod.	Y	2	M5x110	1 Piece	643638
	R06.2M	Jet black, matt	powd-c	Y	2	M5x110	1 Piece	635145
	R07.2	Traffic white	powd-c	Y	2	M5x110	1 Piece	635144
	Roh	Uncoated	–	N	2	M5x110	1 Piece	635148

6.1.2 Lift&Slide door handles – interior handle



Product description

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

Scope of delivery

- 1 Lift&Slide door handle
- 1 square spindle, can be shortened
- 2 fixing screws, can be shortened

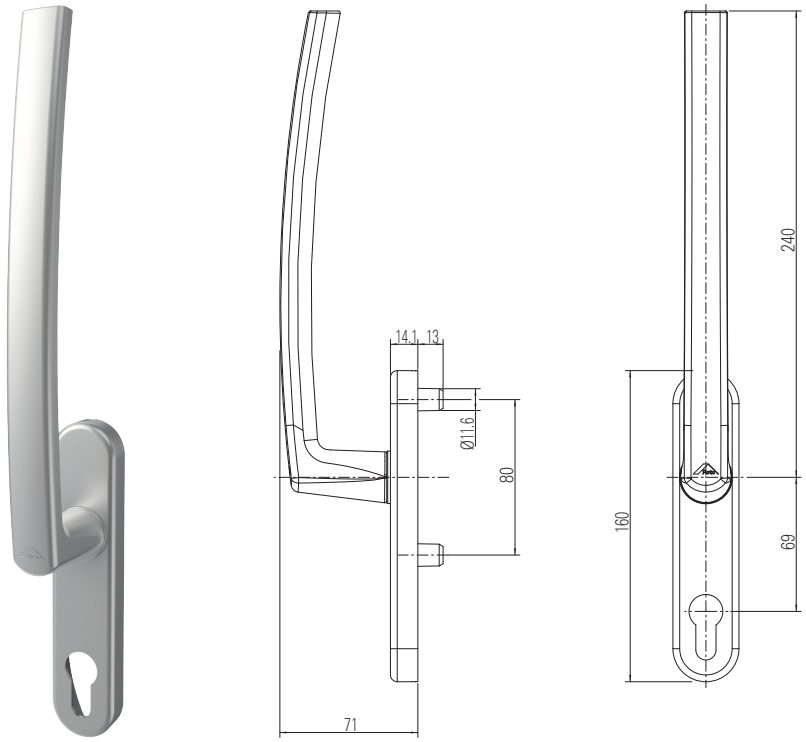
INFO
Profile cylinder is not included in the scope of delivery.

INFO
The uncoated handle is not supplied assembled.

With profile cylinder hole

190	R01.1	Natural silver	anod.	Y	2	M5x110	1 Piece	635131
190	R06.2M	Jet black, matt	powd-c	Y	2	M5x110	1 Piece	635130
190	R07.2	Traffic white	powd-c	Y	2	M5x110	1 Piece	635129
190	Roh	Uncoated	–	N	2	M5x110	1 Piece	635133

6.1.3 Lift&Slide door handles – exterior handle



Product description

- Basic handle without additional functions
- Lock-in position 90°
- 10-year performance warranty

Scope of delivery

- 1 Lift&Slide door handle
- Without fixing screws

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

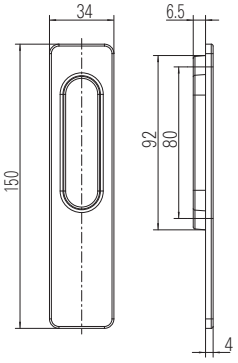
With profile cylinder hole

	Roto			Roto	#			№
–	R01.1	Natural silver	anod.	Y	–	–	10 Piece	635136
	R06.2M	Jet black, matt	powd-c	Y	–	–	10 Piece	635135
	R07.2	Traffic white	powd-c	Y	–	–	10 Piece	635134
	Roh	Uncoated	–	N	–	–	10 Piece	635138

INFO
The uncoated handle is not supplied assembled.

6.1.4 Lift&Slide door handles – external recessed grip; rectangular 7 mm





Product description

- Exterior handle
- Screw fixing with interior handle

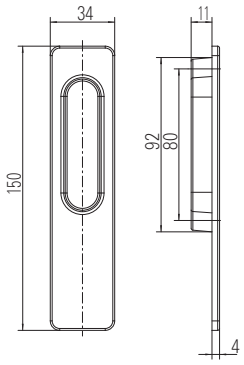
Scope of delivery

- 1 recessed grip

Roto			Roto	#			№
R01.1	Natural silver	anod.	N	–	–	10 Piece	635151
R06.2M	Jet black, matt	powd-c	N	–	–	10 Piece	635150
R07.2	Traffic white	powd-c	N	–	–	10 Piece	635149
Roh	Uncoated	–	N	–	–	10 Piece	635153

6.1.5 Lift&Slide door handles – external recessed grip; rectangular 11 mm





Product description

- Exterior handle
- Screw fixing with interior handle

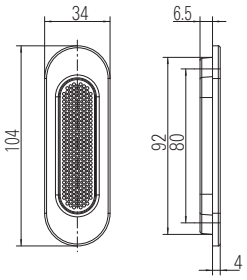
Scope of delivery

- 1 recessed grip

Roto			Roto	#			№
R01.1	Natural silver	anod.	N	–	–	10 Piece	635156
R06.2M	Jet black, matt	powd-c	N	–	–	10 Piece	635155
R07.2	Traffic white	powd-c	N	–	–	10 Piece	635154
Roh	Uncoated	–	N	–	–	10 Piece	635158

6.1.6 Lift&Slide door handles – external recessed grip; oval 7 mm





Product description

- Exterior handle
- Screw fixing with interior handle

Scope of delivery

- 1 recessed grip

Roto			Roto	#			№
R01.1	Natural silver	anod.	N	–	–	10 Piece	635161
R06.2M	Jet black, matt	powd-c	N	–	–	10 Piece	635160
R07.2	Traffic white	powd-c	N	–	–	10 Piece	635159
Roh	Uncoated	–	N	–	–	10 Piece	635163

Roto Patio Alversa
Roto Patio Inowa





Roto Line

Parallel Sliding and Tilt&Slide handles – interior handles; 200 mm	134
Parallel Sliding and Tilt&Slide handles – interior handles; 160 mm	136
Parallel Sliding and Tilt&Slide handles – escutcheon with standard handle on the outside and escutcheon with handle on the inside	137
Parallel Sliding and Tilt&Slide handles – escutcheon with flat handle on the outside and escutcheon with handle on the inside	138
Parallel Sliding and Tilt&Slide handles – geared-handle	139
Parallel Sliding and Tilt&Slide handles – geared-handle	141
Parallel Sliding and Tilt&Slide handles – interior handle, lockable, 200 mm	143
Parallel Sliding and Tilt&Slide handles – interior handles, lockable, 100 Nm	145
Parallel Sliding and Tilt&Slide handles – geared-handle, lockable, 100 Nm	146
Parallel Sliding and Tilt&Slide handles – geared-handle, lockable, 100 Nm	148

Roto Swing

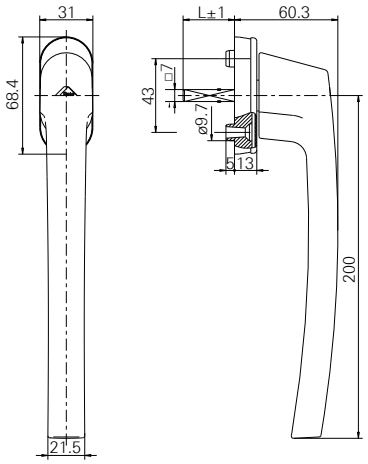
Parallel Sliding and Tilt&Slide handles – standard	150
Parallel Sliding and Tilt&Slide handles – lockable, 100 Nm	151

7 Roto Patio Alversa / Roto Patio Inowa

7.1 Roto Line

7.1.1 Parallel Sliding and Tilt&Slide handles – interior handles; 200 mm





Product description

- Basic handle without additional functions
- Lock-in position 90°
- 10-year performance warranty
- Classification in accordance with DIN EN 13126-3

Scope of delivery

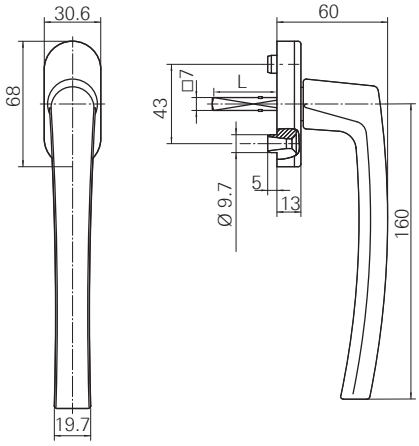
- 1 Parallel Sliding and Tilt&Slide handle
- 2 fixing screws, can be shortened

	Roto			Roto	#			№
24	R01.1	Natural silver	anod.	Y	2	M5x30	1 Piece	815193
	R01.5	Silver	anod.	Y	2	M5x30	1 Piece	815194
	R06.2M	Jet black, matt	powd-c	Y	2	M5x30	1 Piece	815215
	R07.2	Traffic white	powd-c	Y	2	M5x30	1 Piece	815216
32	R01.1	Natural silver	anod.	Y	2	M5x40	1 Piece	786362
	R01.2	Nickel silver	anod.	Y	2	M5x40	1 Piece	786669
	R01.3	Titanium	anod.	Y	2	M5x40	1 Piece	786670
	R01.5	Silver	powd-c	Y	2	M5x40	1 Piece	786671
	R04.4	Black brown	powd-c	Y	2	M5x40	1 Piece	796925
	R05.3	Medium bronze	anod.	Y	2	M5x40	1 Piece	786363
	R05.4	Dark bronze	powd-c	Y	2	M5x40	1 Piece	786364
	R05.5	Bronze	anod.	Y	2	M5x40	1 Piece	786673
	R06.2M	Jet black, matt	powd-c	Y	2	M5x40	1 Piece	786674
	R07.2	Traffic white	powd-c	Y	2	M5x40	1 Piece	786395
	R07.3	Cream	powd-c	Y	2	M5x40	1 Piece	786717

	Roto			Roto	#			№
37	R01.1	Natural silver	anod.	Y	2	M5x45	1 Piece	780549
	R01.2	Nickel silver	anod.	Y	2	M5x45	1 Piece	786517
	R01.3	Titanium	anod.	Y	2	M5x45	1 Piece	780552
	R01.5	Silver	powd-c	Y	2	M5x45	1 Piece	786519
	R04.4	Black brown	powd-c	Y	2	M5x45	1 Piece	796926
	R05.3	Medium bronze	anod.	Y	2	M5x45	1 Piece	780575
	R05.4	Dark bronze	powd-c	Y	2	M5x45	1 Piece	780576
	R05.5	Bronze	anod.	Y	2	M5x45	1 Piece	780577
	R06.2M	Jet black, matt	powd-c	Y	2	M5x45	1 Piece	786715
	R07.3	Cream	powd-c	Y	2	M5x45	1 Piece	780579
	R07.2	Traffic white	powd-c	Y	2	M5x45	1 Piece	780578
43	R01.1	Natural silver	anod.	Y	2	M5x50	1 Piece	780551
	R01.2	Nickel silver	anod.	Y	2	M5x50	1 Piece	786518
	R01.3	Titanium	anod.	Y	2	M5x50	1 Piece	780580
	R01.5	Silver	powd-c	Y	2	M5x50	1 Piece	786672
	R04.4	Black brown	powd-c	Y	2	M5x50	1 Piece	796927
	R05.3	Medium bronze	anod.	Y	2	M5x50	1 Piece	780581
	R05.4	Dark bronze	powd-c	Y	2	M5x50	1 Piece	780582
	R05.5	Bronze	anod.	Y	2	M5x50	1 Piece	780583
	R06.2M	Jet black, matt	powd-c	Y	2	M5x50	1 Piece	786716
	R07.2	Traffic white	powd-c	Y	2	M5x50	1 Piece	780584
	R07.3	Cream	powd-c	Y	2	M5x50	1 Piece	780585

7.1.2 Parallel Sliding and Tilt&Slide handles – interior handles; 160 mm





Product description

- Basic handle without additional functions
- Lock-in position 90°
- 10-year performance warranty
- Classification in accordance with DIN EN 13126-3

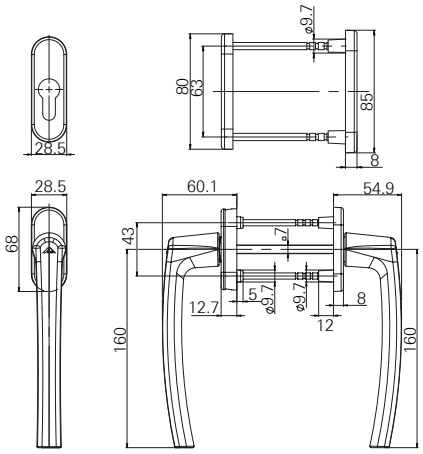
Scope of delivery

- 1 Parallel Sliding and Tilt&Slide handle
- Without fixing screws

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

7.1.3 Parallel Sliding and Tilt&Slide handles – escutcheon with standard handle on the outside and escutcheon with handle on the inside





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
- Lock-in position 90°
- 10-year performance warranty

Scope of delivery

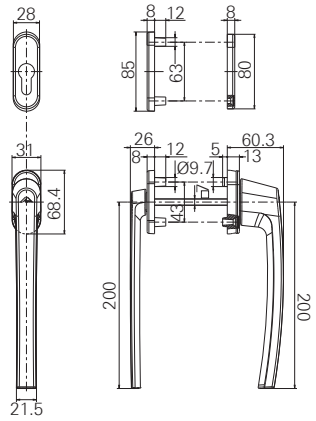
- 2 Parallel Sliding and Tilt&Slide handles
- 2 profile cylinder escutcheons
- 4 fixing screws, can be shortened

	Roto			Roto	#			№
100	R01.1	Natural silver	anod.	Y	4	M5x100	1 Piece	776119
	R05.3	Medium bronze	anod.	Y	4	M5x100	1 Piece	776120
	R05.4	Dark bronze	powd-c	Y	4	M5x100	1 Piece	776121
	R05.5	Bronze	anod.	Y	4	M5x100	1 Piece	776122
	R07.2	Traffic white	powd-c	Y	4	M5x100	1 Piece	776123

7.1.4 Parallel Sliding and Tilt&Slide handles – escutcheon with flat handle on the outside and escutcheon with handle on the inside







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
- Lock-in position 90°
- 10-year performance warranty

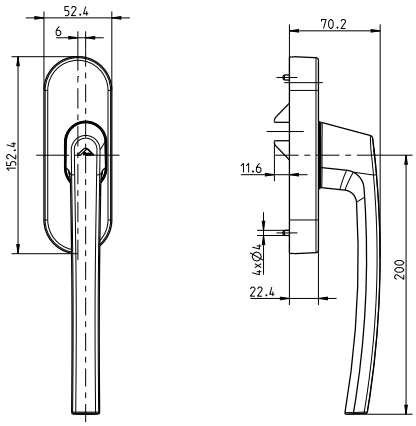
Scope of delivery

- 2 Parallel Sliding and Tilt&Slide handles
- 2 profile cylinder escutcheons
- 4 fixing screws, can be shortened

	Roto			Roto	#			№
100	R01.1	Natural silver	anod.	Y	4	M5x100	1 Piece	786179
	R01.5	Silver	powd-c	Y	4	M5x100	1 Piece	786221
	R04.4	Black brown	powd-c	Y	4	M5x100	1 Piece	796931
	R05.3	Medium bronze	anod.	Y	4	M5x100	1 Piece	786180
	R05.4	Dark bronze	powd-c	Y	4	M5x100	1 Piece	786181
	R05.5	Bronze	anod.	Y	4	M5x100	1 Piece	786182
	R06.2M	Jet black, matt	powd-c	Y	4	M5x100	1 Piece	786222
	R07.2	Traffic white	powd-c	Y	4	M5x100	1 Piece	786183
	R07.3	Cream	powd-c	Y	4	M5x100	1 Piece	786184
135	R01.1	Natural silver	anod.	Y	4	M5x110	1 Piece	786225
	R01.5	Silver	powd-c	Y	4	M5x110	1 Piece	786220
	R04.4	Black brown	powd-c	Y	4	M5x110	1 Piece	796932
	R05.3	Medium bronze	anod.	Y	4	M5x110	1 Piece	786226
	R05.4	Dark bronze	powd-c	Y	4	M5x110	1 Piece	786227
	R05.5	Bronze	anod.	Y	4	M5x110	1 Piece	786228
	R06.2M	Jet black, matt	powd-c	Y	4	M5x110	1 Piece	786229
	R07.2	Traffic white	powd-c	Y	4	M5x110	1 Piece	786230
	R07.3	Cream	powd-c	Y	4	M5x110	1 Piece	786219

7.1.5 Parallel Sliding and Tilt&Slide handles – geared-handle





Product description

- Lock-in position 90°
- 10-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 window handle
- 1 T connector set

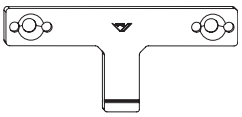
INFO
For the scope of delivery of the T connector set, see → *from page 140*

Roto			Roto			№
R01.1	Natural silver	anod.	Y	1 Piece	Timber PVC	775936
R04.4	Black brown	powd-c	Y	1 Piece		796849
R05.3	Medium bronze	anod.	Y	1 Piece		775937
R05.4	Dark bronze	powd-c	Y	1 Piece		775938
R05.5	Bronze	anod.	Y	1 Piece		775939
R07.2	Traffic white	powd-c	Y	1 Piece		775940
R07.3	Cream	powd-c	Y	1 Piece		775942
R01.5	Silver	powd-c	Y	1 Piece	Aluminium	775916
R04.4	Black brown	powd-c	Y	1 Piece		796851
R05.4	Dark bronze	anod.	Y	1 Piece		775919
R06.2M	Jet black, matt	powd-c	Y	1 Piece		775918
R07.2	Traffic white	powd-c	Y	1 Piece		775917
Roh	Uncoated	–	N	1 Piece		775920

INFO
The uncoated handle is not supplied assembled.

7.1.5.1 T connector

Timber / PVC



Product description

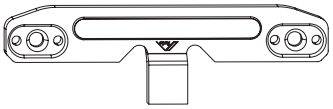
- Connector for attaching geared-handles
- for 13 mm axis
- can be shortened, also for 9 mm axis

Scope of delivery

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

		№
HK T connector	1 Piece	785865

Aluminium



Product description

- Connector for attaching geared-handles

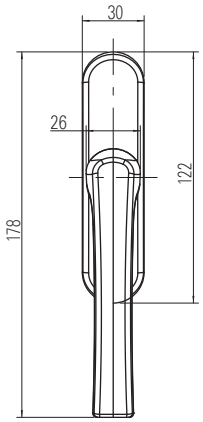
Scope of delivery

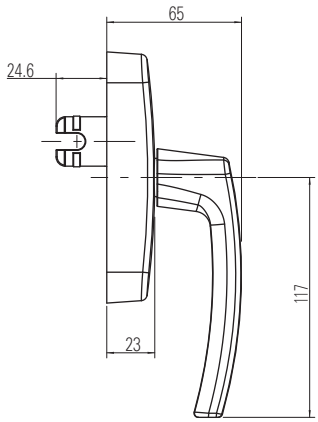
- 1 T connector
- 4 countersunk self-tapping screws with hexalobular socket
- 2 screws with hexalobular socket, M5 x 25
- 2 screws with hexalobular socket, M5 x 8
- 2 square nuts

		№
AL T connector	1 Piece	785866

7.1.6 Parallel Sliding and Tilt&Slide handles – geared-handle







Product description

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

Scope of delivery

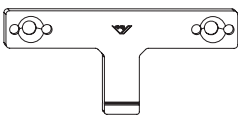
- 1 Parallel Sliding and Tilt&Slide handle
- Without fixing screws

	Roto			#		Roto		№
26	R01.5	Silver	powd-c	–	–	Y	1 Piece	786522
	R05.4	Dark bronze	powd-c	–	–	Y	1 Piece	786523
	R06.2M	Jet black, matt	powd-c	–	–	Y	1 Piece	786524
	R07.2	Traffic white	powd-c	–	–	Y	1 Piece	786535
	Roh	Uncoated	–	–	–	Y	1 Piece	786541

INFO
The uncoated handle is not supplied assembled.

7.1.6.1 T connector

Timber / PVC



Product description

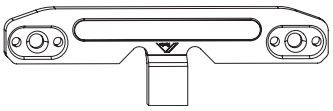
- Connector for attaching geared-handles
- for 13 mm axis
- can be shortened, also for 9 mm axis

Scope of delivery

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

		№
HK T connector	1 Piece	785865

Aluminium



Product description

- Connector for attaching geared-handles

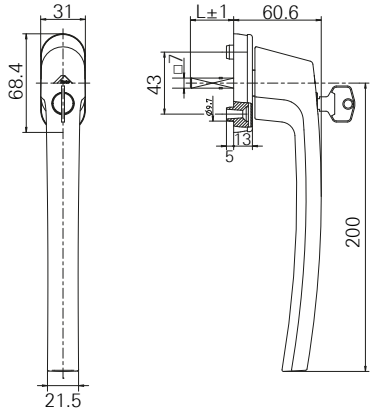
Scope of delivery

- 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

		№
AL T connector	1 Piece	785866

7.1.7 Parallel Sliding and Tilt&Slide handles – interior handle, lockable, 200 mm





Product description

- Lockable handle with tested torque 100 Nm
- Closed by a push cylinder with reversible key
- Simple and quick locking by pushing down the cylinder
- Meets the requirements of DIN EN 1627-1630, RC1 - RC6
- Lock-in position 90°
- 10-year performance warranty
- Classification in accordance with DIN EN 13126-3

Scope of delivery

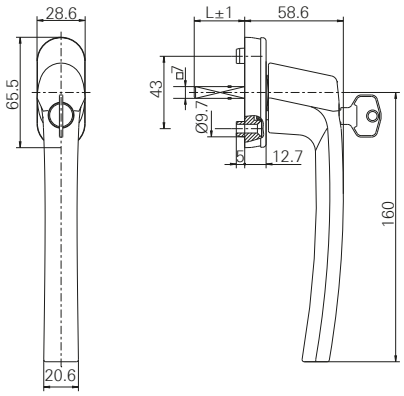
- 1 Parallel Sliding and Tilt&Slide handle
- 1 key
- 2 fixing screws, can be shortened

	Roto			Roto	#			№
24	R01.1	Natural silver	anod.	Y	2	M5x30	1 Piece	815217
	R01.5	Silver	anod.	Y	2	M5x30	1 Piece	815218
	R06.2M	Jet black, matt	powd-c	Y	2	M5x30	1 Piece	815219
	R07.2	Traffic white	powd-c	Y	2	M5x30	1 Piece	815220
32	R01.1	Natural silver	anod.	Y	2	M5x40	1 Piece	786719
	R01.2	Nickel silver	anod.	Y	2	M5x40	1 Piece	786720
	R01.3	Titanium	anod.	Y	2	M5x40	1 Piece	786732
	R01.5	Silver	powd-c	Y	2	M5x40	1 Piece	786733
	R04.4	Black brown	powd-c	Y	2	M5x40	1 Piece	796928
	R05.3	Medium bronze	anod.	Y	2	M5x40	1 Piece	786397
	R05.4	Dark bronze	powd-c	Y	2	M5x40	1 Piece	786398
	R05.5	Bronze	anod.	Y	2	M5x40	1 Piece	787000
	R06.2M	Jet black, matt	powd-c	Y	2	M5x40	1 Piece	787002
	R07.2	Traffic white	powd-c	Y	2	M5x40	1 Piece	786399
	R07.3	Cream	powd-c	Y	2	M5x40	1 Piece	787001

					#			№
37	R01.1	Natural silver	anod.	Y	2	M5x45	1 Piece	780586
	R01.2	Nickel silver	anod.	Y	2	M5x45	1 Piece	786396
	R01.3	Titanium	anod.	Y	2	M5x45	1 Piece	780587
	R01.5	Silver	powd-c	Y	2	M5x45	1 Piece	786734
	R04.4	Black brown	powd-c	Y	2	M5x45	1 Piece	796929
	R05.3	Medium bronze	anod.	Y	2	M5x45	1 Piece	780588
	R05.4	Dark bronze	powd-c	Y	2	M5x45	1 Piece	780589
	R05.5	Bronze	anod.	Y	2	M5x45	1 Piece	780590
	R06.2M	Jet black, matt	powd-c	Y	2	M5x45	1 Piece	787003
	R07.2	Traffic white	powd-c	Y	2	M5x45	1 Piece	780591
	R07.3	Cream	powd-c	Y	2	M5x45	1 Piece	780592
43	R01.1	Natural silver	anod.	Y	2	M5x50	1 Piece	780593
	R01.2	Nickel silver	anod.	Y	2	M5x45	1 Piece	786730
	R01.3	Titanium	anod.	Y	2	M5x50	1 Piece	780594
	R01.5	Silver	powd-c	Y	2	M5x50	1 Piece	786755
	R04.4	Black brown	powd-c	Y	2	M5x50	1 Piece	796930
	R05.3	Medium bronze	anod.	Y	2	M5x50	1 Piece	780595
	R05.4	Dark bronze	powd-c	Y	2	M5x50	1 Piece	780596
	R05.5	Bronze	anod.	Y	2	M5x50	1 Piece	780597
	R06.2M	Jet black, matt	powd-c	Y	2	M5x50	1 Piece	787004
	R07.2	Traffic white	powd-c	Y	2	M5x50	1 Piece	780598
	R07.3	Cream	powd-c	Y	2	M5x50	1 Piece	780599

7.1.8 Parallel Sliding and Tilt&Slide handles – interior handles, lockable, 100 Nm





Product description

- Lockable handle with tested torque 100 Nm
- Closed by a push cylinder with reversible key
- Simple and quick locking by pushing down the cylinder
- Meets the requirements of DIN EN 1627-1630, RC1 - RC6
- Lock-in position 90°
- 10-year performance warranty
- Classification in accordance with DIN EN 13126-3

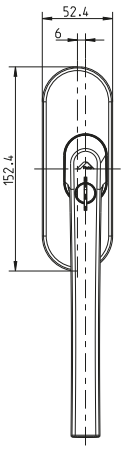
Scope of delivery

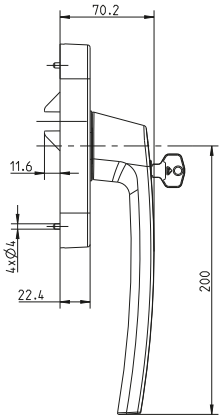
- 1 Parallel Sliding and Tilt&Slide handle
- 1 key
- Without fixing screws

	Roto			Roto	#			№
43	R07.2	Traffic white	powd-c	Y	–	–	1 Piece	774105
	R01.1	Natural silver	powd-c	Y	–	–	1 Piece	773853
	R01.3	Titanium	powd-c	Y	–	–	1 Piece	773854
	R04.1	Grey brown	powd-c	Y	–	–	1 Piece	775173

7.1.9 Parallel Sliding and Tilt&Slide handles – geared-handle, lockable, 100 Nm







Product description

- Lockable handle with tested torque 100 Nm
- Closed by a push cylinder with reversible key
- Simple and quick locking by pushing down the cylinder
- Meets the requirements of DIN EN 1627-1930, RC1 - RC6
- Special hardware components are required for this handle.

Scope of delivery

- 1 Parallel Sliding and Tilt&Slide handle
- 1 T connector set

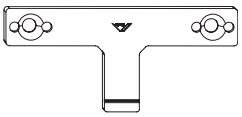
Roto			Roto			№
R01.1	Natural silver	anod.	Y	1 Piece	Timber PVC	775943
R04.4	Black brown	powd-c	Y	1 Piece		796850
R05.3	Medium bronze	anod.	Y	1 Piece		775944
R05.4	Dark bronze	powd-c	Y	1 Piece		775945
R05.5	Bronze	anod.	Y	1 Piece		775946
R07.2	Traffic white	powd-c	Y	1 Piece		775947
R07.3	Cream	powd-c	Y	1 Piece		775948
R01.5	Silver	powd-c	Y	1 Piece	Aluminium	775921
R04.4	Black brown	powd-c	Y	1 Piece		796853
R05.4	Dark bronze	anod.	Y	1 Piece		775924
R06.2M	Jet black, matt	powd-c	Y	1 Piece		775923
R07.2	Traffic white	anod.	Y	1 Piece		775922

INFO
The uncoated handle is not supplied assembled.

INFO
For the scope of delivery of the T connector set, see → *from page 140*

7.1.9.1 T connector

Timber / PVC



Product description

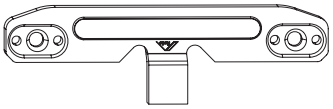
- Connector for attaching geared-handles
- for 13 mm axis
- can be shortened, also for 9 mm axis

Scope of delivery

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

		№
HK T connector	1 Piece	785865

Aluminium



Product description

- Connector for attaching geared-handles

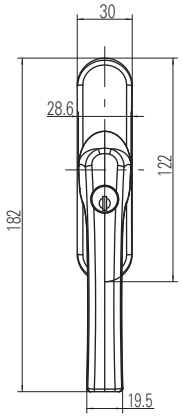
Scope of delivery

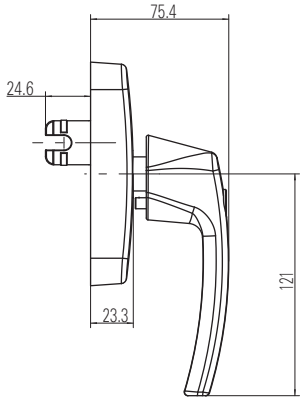
- 1 T connector
- 4 countersunk self-tapping screws with hexalobular socket
- 2 screws with hexalobular socket, M5 x 25
- 2 screws with hexalobular socket, M5 x 8
- 2 square nuts

		№
AL T connector	1 Piece	785866

7.1.10 Parallel Sliding and Tilt&Slide handles – geared-handle, lockable, 100 Nm







Product description

- Lockable handle with tested torque 100 Nm
- Closed by a cylinder with reversible key
- Lock-in position 90°

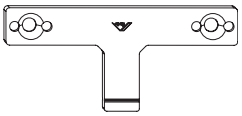
Scope of delivery

- 1 Parallel Sliding and Tilt&Slide handle
- 2 keys
- Without fixing screws

26	R01.5	Silver	powd-c	Y	–	–	1 Piece	786536
	R04.4	Black brown	powd-c	Y	–	–	1 Piece	796854
	R05.4	Dark bronze	powd-c	Y	–	–	1 Piece	786537
	R06.2M	Jet black, matt	powd-c	Y	–	–	1 Piece	786538
	R07.2	Traffic white	powd-c	Y	–	–	1 Piece	786539
	Roh	Uncoated	–	Y	–	–	1 Piece	786540

7.1.10.1 T connector

Timber / PVC



Product description

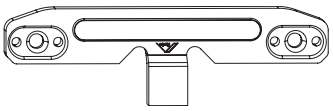
- Connector for attaching geared-handles
- for 13 mm axis
- can be shortened, also for 9 mm axis

Scope of delivery

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

HK T connector	1 Piece	785865

Aluminium



Product description

- Connector for attaching geared-handles

Scope of delivery

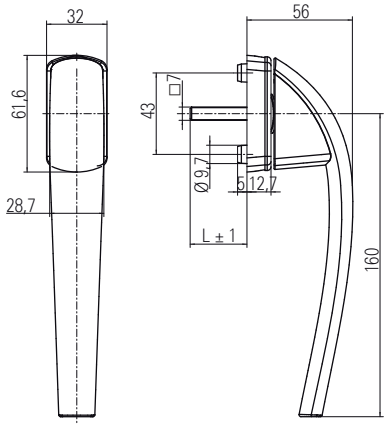
- 1 T connector
- 4 countersunk self-tapping screws with hexalobular socket
- 2 screws with hexalobular socket, M5 x 25
- 2 screws with hexalobular socket, M5 x 8
- 2 square nuts

		№
AL T connector	1 Piece	785866

7.2 Roto Swing

7.2.1 Parallel Sliding and Tilt&Slide handles – standard





Product description

- Basic handle without additional functions
- Lock-in position 90°
- 10-year performance warranty
- Classification in accordance with DIN EN 13126-3 .

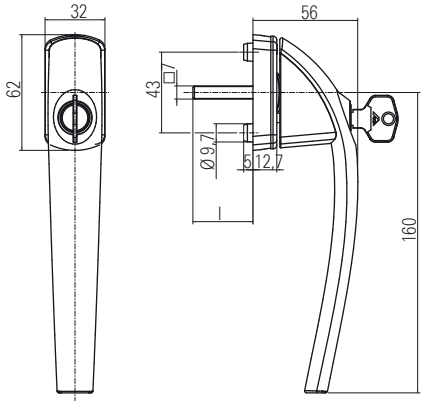
Scope of delivery

- 1 Parallel Sliding and Tilt&Slide handle
- Without fixing screws

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

7.2.2 Parallel Sliding and Tilt&Slide handles – lockable, 100 Nm





Product description

- Lockable handle with tested torque 100 Nm
- Closed by a push cylinder with reversible key
- Simple and quick locking by pushing down the cylinder
- Meets the requirements of DIN EN 1627-1630, RC1 - RC6
- Lock-in position 90°
- 10-year performance warranty
- Classification in accordance with DIN EN 13126-3

Scope of delivery

- 1 Parallel Sliding and Tilt&Slide handle
- 1 key
- Without fixing screws

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

Roto Inline





Roto Line

Possible combination	156
Sliding handle windows and doors – interior handle	157
Sliding handle windows and doors – exterior handle	160
Accessories	164

Roto Freestyle

Window handles – pop-up	166
Window handles – pop-up, lockable	168
Window handles – retractable handle	169

8 Roto Inline

8.1 Roto Line

8.1.1 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.

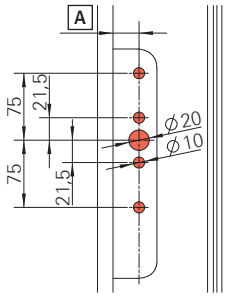
Different accessory boxes have to be used depending on the required handle combination:

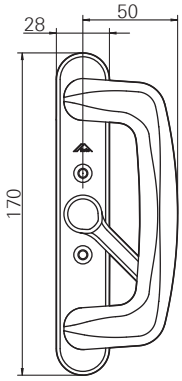
Interior handle / exterior handle			
	→ *8.1.4.1 "Accessory box type 1" from page 164*	→ *8.1.4.1 "Accessory box type 1" from page 164*	→ *8.1.4.1 "Accessory box type 1" from page 164*
	→ *8.1.4.2 "Accessory box type 2" from page 165*	→ *8.1.4.2 "Accessory box type 2" from page 165*	→ *8.1.4.2 "Accessory box type 2" from page 165*
	→ *8.1.4.2 "Accessory box type 2" from page 165*	→ *8.1.4.2 "Accessory box type 2" from page 165*	→ *8.1.4.2 "Accessory box type 2" from page 165*
	–	–	→ *8.1.4.3 "Accessory box type 3" from page 165*

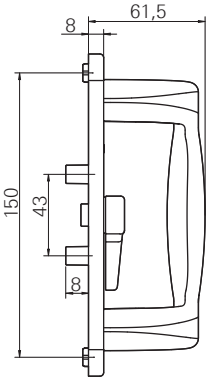
8.1.2 Sliding handle windows and doors – interior handle

Without cylinder with lever









Assignment	Meaning
[A]	Backset





Product description

- Short plate
- Simple locking via lever

Scope of delivery

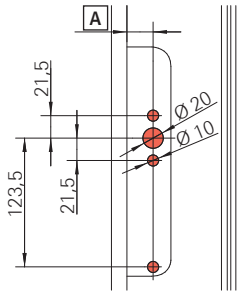
- 1 window handle
- Without fixing screws

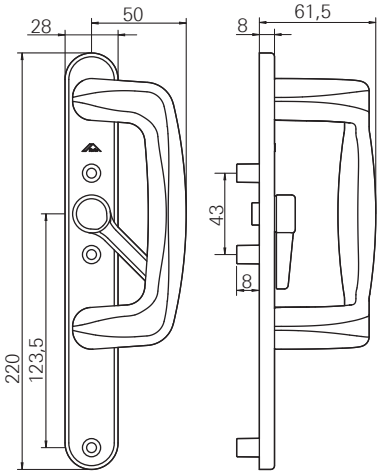
Roto			Roto	#			№
R01.5	Silver	powd-c	Y	–	–	1 Piece	613222
R03.2	Gold	galvanised	Y	–	–	1 Piece	613223
R04.1	Grey brown	powd-c	Y	–	–	1 Piece	613224
R06.2	Jet black	powd-c	Y	–	–	1 Piece	613225
R07.2	Traffic white	powd-c	Y	–	–	1 Piece	613226
R07.3	Cream	powd-c	Y	–	–	1 Piece	613227
Roh	Uncoated	–	Y	–	–	1 Piece	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

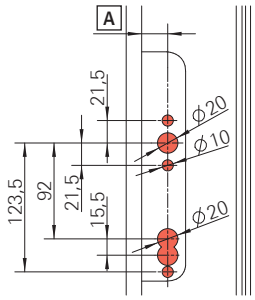
- 1 window handle
- Without fixing screws

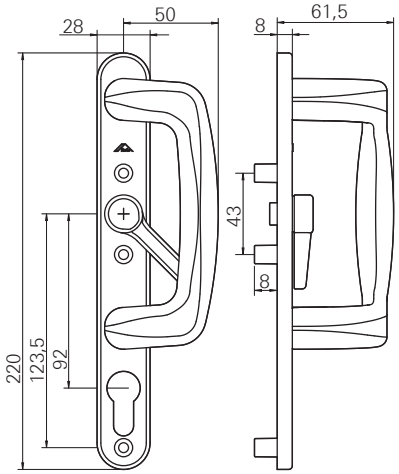
Roto			Roto	#			№
R01.5	Silver	powd-c	Y	–	–	1 Piece	613230
R03.2	Gold	galvanised	Y	–	–	1 Piece	613231
R04.1	Grey brown	powd-c	Y	–	–	1 Piece	613232
R06.2	Jet black	powd-c	Y	–	–	1 Piece	613233
R07.2	Traffic white	powd-c	Y	–	–	1 Piece	613234
R07.3	Cream	powd-c	Y	–	–	1 Piece	613235
Roh	Uncoated	–	Y	–	–	1 Piece	613237

INFO
The uncoated handle is not supplied assembled.

With cylinder and lever







Assignment	Meaning
[A]	Backset

Product description

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

Scope of delivery

- 1 window handle
- Without fixing screws

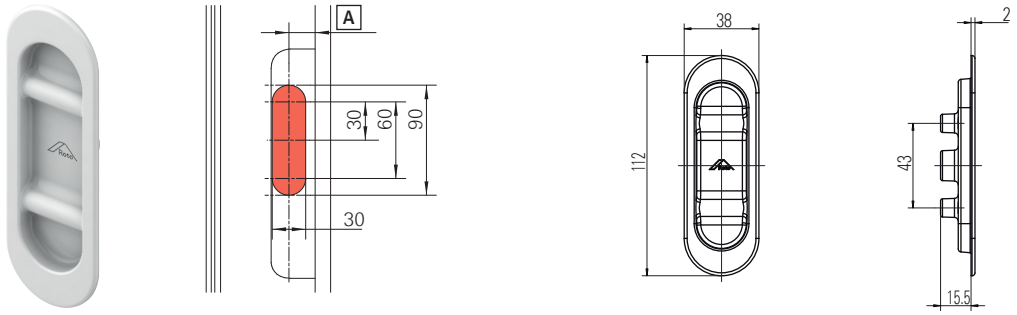
INFO
Profile cylinder is not included in the scope of delivery.

Roto			Roto	#			№
R01.5	Silver	powd-c	Y	–	–	1 Piece	613239
R03.2	Gold	galvanised	Y	–	–	1 Piece	613240
R04.1	Grey brown	powd-c	Y	–	–	1 Piece	613241
R06.2	Jet black	powd-c	Y	–	–	1 Piece	613242
R07.2	Traffic white	powd-c	Y	–	–	1 Piece	613243
R07.3	Cream	powd-c	Y	–	–	1 Piece	613244
Roh	Uncoated	–	Y	–	–	1 Piece	613245

INFO
The uncoated handle is not supplied assembled.

8.1.3 Sliding handle windows and doors – exterior handle

Recessed grip



Assignment	Meaning
[A]	Backset

Product description

- Exterior handle
- Screw fixing with interior handle

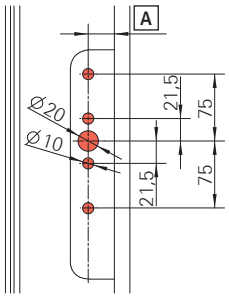
Scope of delivery

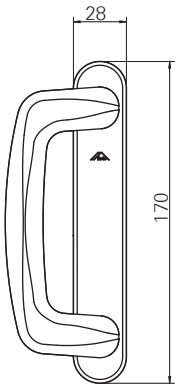
- 1 recessed grip
- Without fixing screws

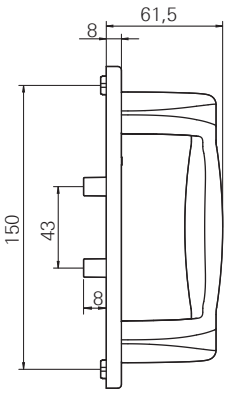
Roto			Roto	#			№
R01.5	Silver	powd-c	Y	–	–	1 Piece	613183
R03.2	Gold	galvanised	Y	–	–	1 Piece	613184
R04.1	Grey brown	powd-c	Y	–	–	1 Piece	613185
R06.2	Jet black	powd-c	Y	–	–	1 Piece	605551
R07.2	Traffic white	powd-c	Y	–	–	1 Piece	605543
R07.3	Cream	powd-c	Y	–	–	1 Piece	608183
Roh	Uncoated	–	Y	–	–	1 Piece	487261

Without cylinder









Assignment	Meaning
[A]	Backset

Product description

- Short plate

Scope of delivery

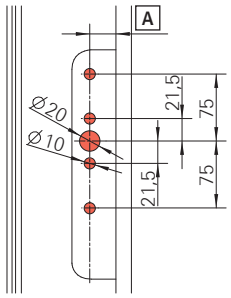
- 1 window handle
- Without fixing screws

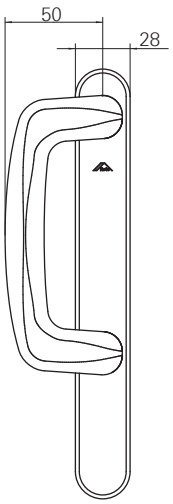
Roto			Roto	#			№
R01.5	Silver	powd-c	Y	–	–	1 Piece	613187
R03.2	Gold	galvanised	Y	–	–	1 Piece	613188
R04.1	Grey brown	powd-c	Y	–	–	1 Piece	613189
R06.2	Jet black	powd-c	Y	–	–	1 Piece	613190
R07.2	Traffic white	powd-c	Y	–	–	1 Piece	613191
R07.3	Cream	powd-c	Y	–	–	1 Piece	613192
Roh	Uncoated	–	Y	–	–	1 Piece	613193

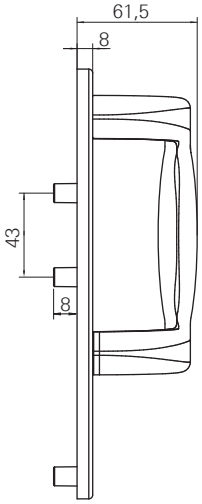
INFO
The uncoated handle is not supplied assembled.

Without cylinder with long plate









Assignment	Meaning
[A]	Backset

Product description

- Short plate

Scope of delivery

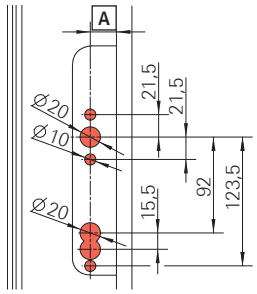
- 1 window handle
- Without fixing screws

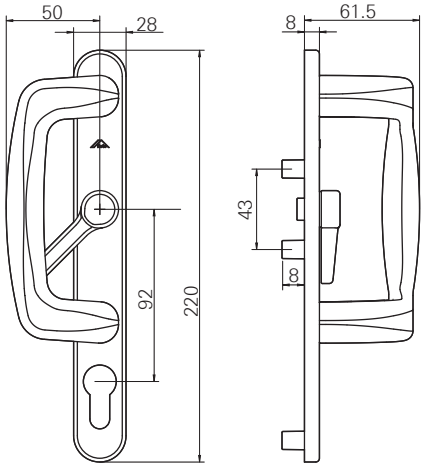
Roto			Roto	#			№
R01.5	Silver	powd-c	Y	–	–	1 Piece	613195
R03.2	Gold	galvanised	Y	–	–	1 Piece	613196
R04.1	Grey brown	powd-c	Y	–	–	1 Piece	613197
R06.2	Jet black	powd-c	Y	–	–	1 Piece	613198
R07.2	Traffic white	powd-c	Y	–	–	1 Piece	613199
R07.3	Cream	powd-c	Y	–	–	1 Piece	613200
Roh	Uncoated	–	Y	–	–	1 Piece	613201

INFO
The uncoated handle is not supplied assembled.

With cylinder and lever







Assignment	Meaning
[A]	Backset

Product description

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

Scope of delivery

- 1 window handle
- Without fixing screws

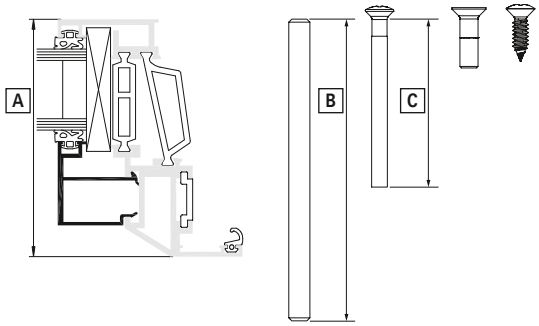
INFO
Profile cylinder is not included in the scope of delivery.

Roto			Roto	#			№
R01.5	Silver	powd-c	Y	–	–	1 Piece	613203
R03.2	Gold	galvanised	Y	–	–	1 Piece	613204
R04.1	Grey brown	powd-c	Y	–	–	1 Piece	613215
R06.2	Jet black	powd-c	Y	–	–	1 Piece	613216
R07.2	Traffic white	powd-c	Y	–	–	1 Piece	613217
R07.3	Cream	powd-c	Y	–	–	1 Piece	613218
Roh	Uncoated	–	Y	–	–	1 Piece	613219

INFO
The uncoated handle is not supplied assembled.

8.1.4 Accessories





Assignment	Meaning
[A]	Sash profile depth (example AL)
[B]	Length 1 (spindle)
[C]	Length 2 (countersunk head screws)

Product description

- Accessory parts to connect outside and inside handles

Delivery scope type 1

- 1 spindle
- 2 countersunk head screws; screw connection of inside handle and outside handle
- 1 pan-head tapping screw; bottom screw hole, if long and short handle have to be combined (no screw hole on the opposite side).
- 2 countersunk screws; fastening the pull handle to the plate.

Delivery scope type 2

- 1 spindle
- 3 countersunk head screws; screw connection of inside handle and outside handle
- 1 pan-head tapping screw; bottom screw hole, if long and short handle have to be combined (no screw hole on the opposite side).
- 4 countersunk screws; fastening the pull handle to the plate.

Delivery scope type 3

- 1 spindle
- 3 countersunk head screws; screw connection of inside handle and outside handle
- 4 countersunk screws; fastening the pull handle to the plate.

8.1.4.1 Accessory box type 1

		№
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]

8.1.4.2 Accessory box type 2

		№
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]

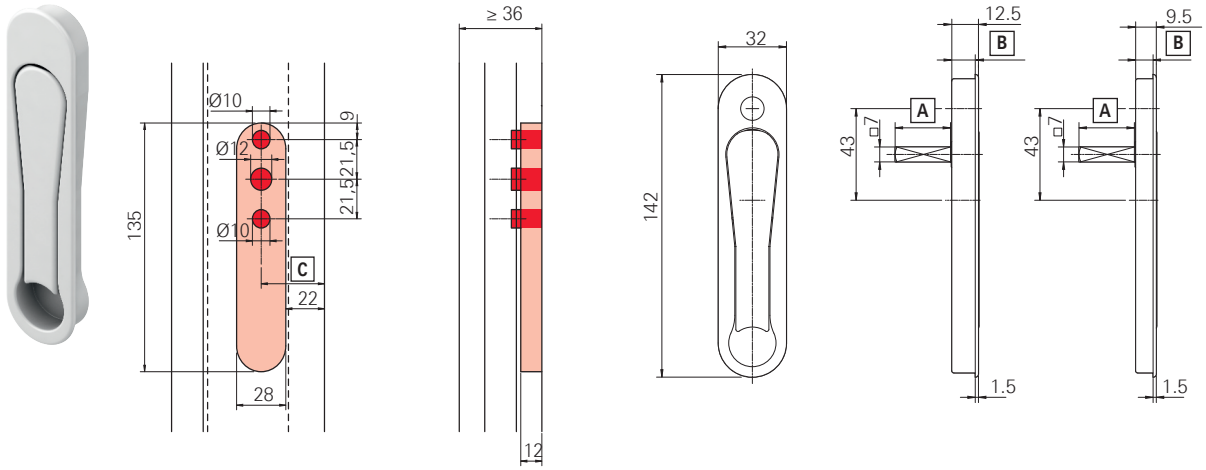
8.1.4.3 Accessory box type 3

		№
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]

8.2 Roto Freestyle

8.2.1 Window handles – 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

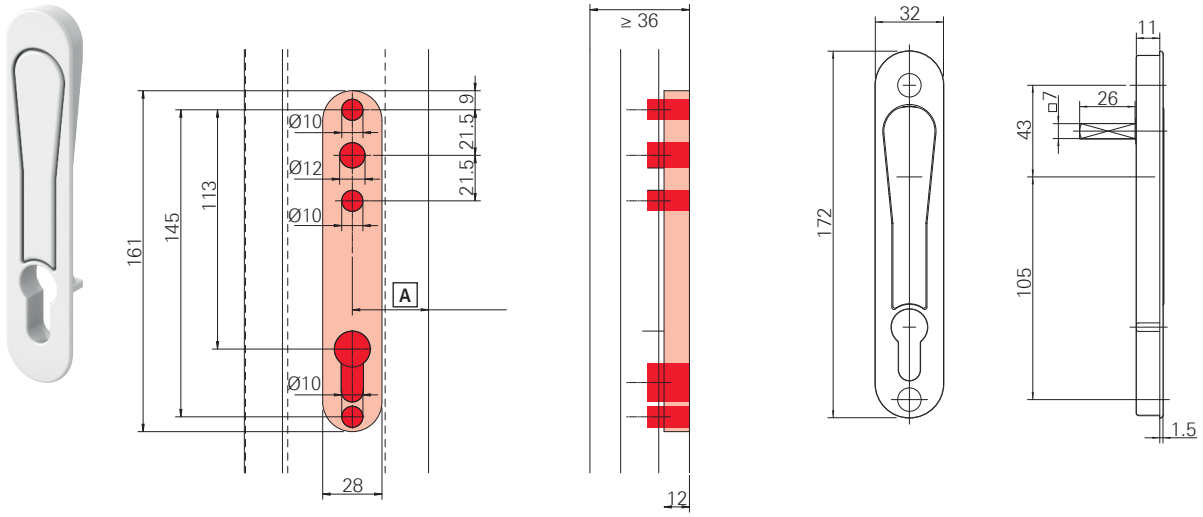
Scope of delivery

- 1 window handle
- Without fixing screws

21.5	8	R06.2	Jet black	powd-c	Y	–	–	1 Piece	637960
		R07.2	Traffic white	powd-c	Y	–	–	1 Piece	637961
		Roh	Uncoated	–	Y	–	–	1 Piece	637962
26.5		R01.1	Natural silver	galvanised	Y	–	–	1 Piece	637963
		R06.2	Jet black	powd-c	Y	–	–	1 Piece	614295
		Roh	Uncoated	–	Y	–	–	1 Piece	637965
		R07.2	Traffic white	powd-c	Y	–	–	1 Piece	570810

21	11	R06.2	Jet black	powd-c	Y	–	–	1 Piece	535466
		R07.2	Traffic white	powd-c	Y	–	–	1 Piece	535465
		–	–	RAL 7035	Y	–	–	1 Piece	538246
26		R04.1	Grey brown	powd-c	Y	–	–	1 Piece	323277
		R06.2	Jet black	powd-c	Y	–	–	1 Piece	493898
		R07.1	Pure white	powd-c	Y	–	–	1 Piece	323275
		R07.2	Traffic white	powd-c	Y	–	–	1 Piece	312766
		R07.3	Cream	powd-c	Y	–	–	1 Piece	494495
		R03.2	Gold	powd-c	Y	–	–	1 Piece	323279
		R03.4	Stainless-steel design	galvanised	Y	–	–	1 Piece	323280
		SF	Special colour	powd-c	Y	–	–	1 Piece	494670
		Roh	Uncoated	–	Y	–	–	1 Piece	312769
45		R06.2	Jet black	powd-c	Y	–	–	1 Piece	561198
		R03.2	Gold	powd-c	Y	–	–	1 Piece	561196
		R03.4	Stainless-steel design	galvanised	Y	–	–	1 Piece	561197

8.2.2 Window handles – 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

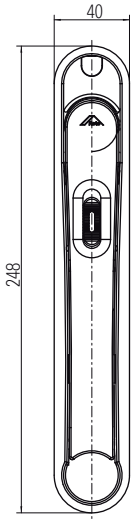
- 1 window handle
- Without fixing screws

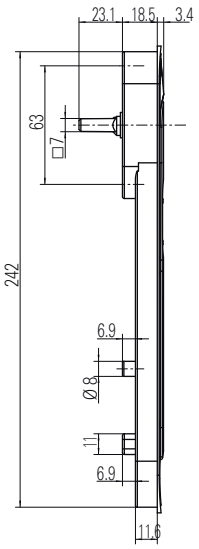
INFO
Profile cylinder is not included in the scope of delivery.

26	Gold	R03.2	powd-c	Y	–	–	1 Piece	323286
	Stainless-steel design	R03.4	galvanised	Y	–	–	1 Piece	323287
	Traffic white	R07.2	powd-c	Y	–	–	1 Piece	323282
	Grey brown	R04.1	powd-c	Y	–	–	1 Piece	323283

8.2.3 Window handles – retractable handle







Product description

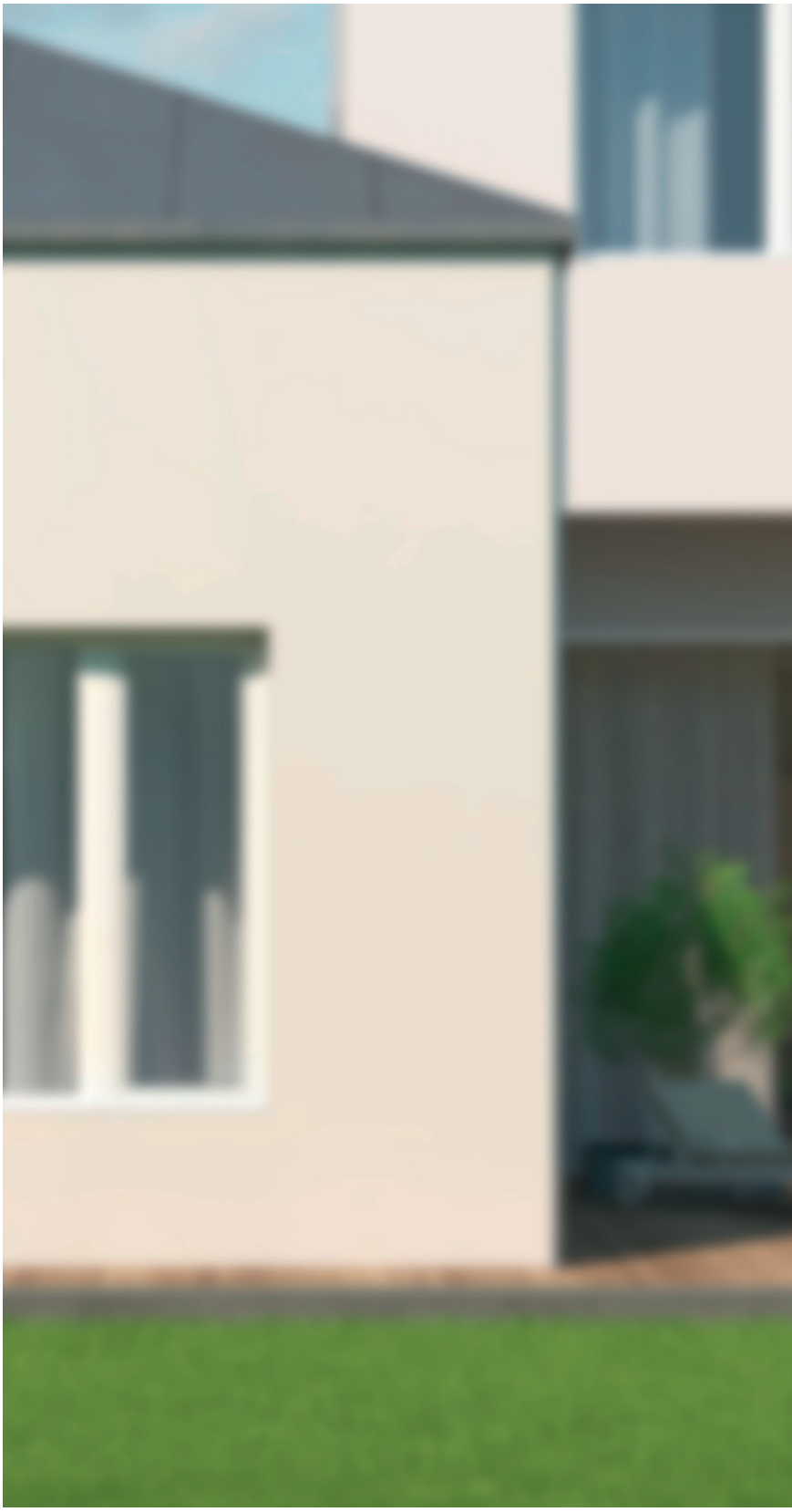
- Ideal solution when two sliding sashes overlap
- Virtually flush with the surface of the profile
- Minimum effort required for turning
- Can be retracted into the original position
- Patented mechanism

Scope of delivery

- 1 window handle
- Without fixing screws

20	R01.5	Silver	powd-c	Y	–	–	1 Piece	489867
	R05.3	Medium bronze	galvanised	Y	–	–	1 Piece	489866
	R05.4	Dark bronze	galvanised	Y	–	–	1 Piece	489868
	R07.2	Traffic white	powd-c	Y	–	–	1 Piece	489865

Roto Safe





Roto Line

Door leaf thickness 56 – 70 mm	174
Door leaf thickness 58 – 62 mm	178
Door leaf thickness 77 – 82 mm	179
Door leaf thickness 87 – 92 mm	181
Door leaf thickness 92 – 97 mm	185
Door leaf thickness 97 – 102 mm	187
Door leaf thickness 102 – 107 mm	189

Roto Samba

Door leaf thickness 62 – 70 mm / 87 – 92 mm	191

Roto Freestyle

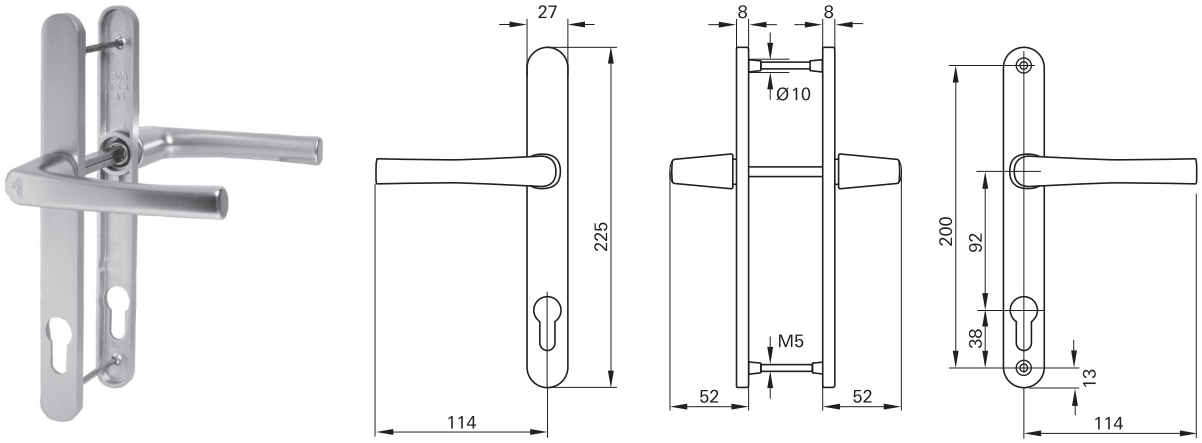
Door leaf thickness 67 – 97 mm	193
Door leaf thickness 60 – 70 mm	196

9 Roto Safe

9.1 Roto Line

9.1.1 Door leaf thickness 56 – 70 mm

9.1.1.1 Narrow door handle set 27 x 225 mm



Product description

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

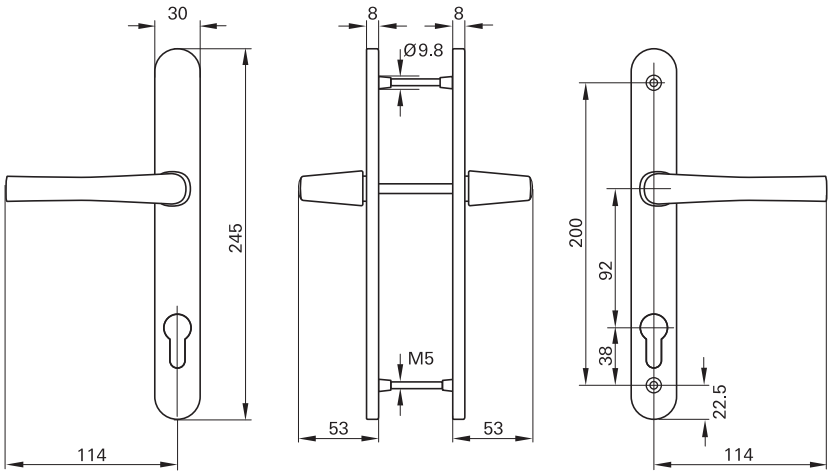
Scope of delivery

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

92	130	R01.4	–	Chromium	2	M5x90	10 Piece	392252

9.1.1.2 Narrow door handle set 30 x 245 mm





Product description

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

Scope of delivery

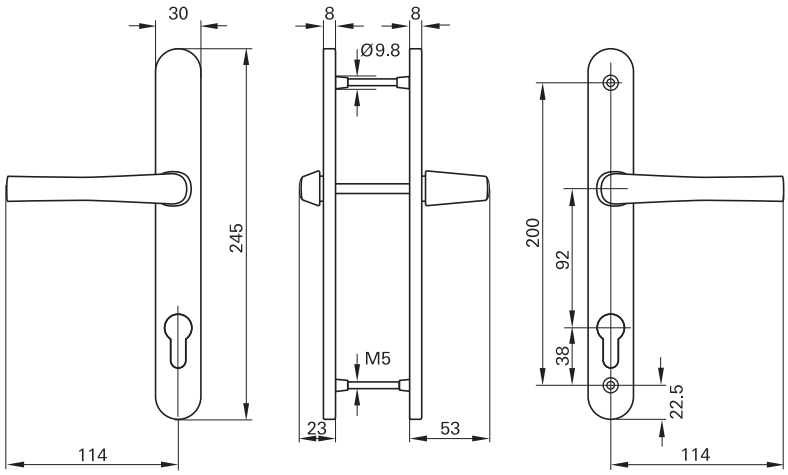
- 1 door handle set
- 1 square spindle: 8 mm
- 4 fixing screws

INFO
The uncoated door lever handle set is not supplied assembled.

		Roto			#			№
92	130	R01.3	–	Titanium	2	M5x65 M5x75	36 Piece	333215
	130	R01.5	–	Silver	2	M5x65 M5x75	36 Piece	319782
	130	R03.3	–	Gold	2	M5x65 M5x75	36 Piece	319953
	130	R04.1	RAL 8019	Grey brown	2	M5x65 M5x75	36 Piece	340317
	130	R04.4	RAL 8022	Black brown	2	M5x65 M5x75	36 Piece	730429
	130	R05.5	–	Bronze	2	M5x65 M5x75	36 Piece	553488
	130	R06.4M	–	Jet black, matt	2	M5x65 M5x75	36 Piece	319955
	130	R07.2	RAL 9016	Traffic white	2	M5x65 M5x75	36 Piece	319954
	130	R07.3	RAL 9001	Cream	2	M5x65 M5x75	36 Piece	340318
	130	Roh	–	Uncoated	2	M5x65 M5x75	30 Piece	322928

9.1.1.3 Narrow door handle set 30 x 245 mm | Flat external lever handle





Product description

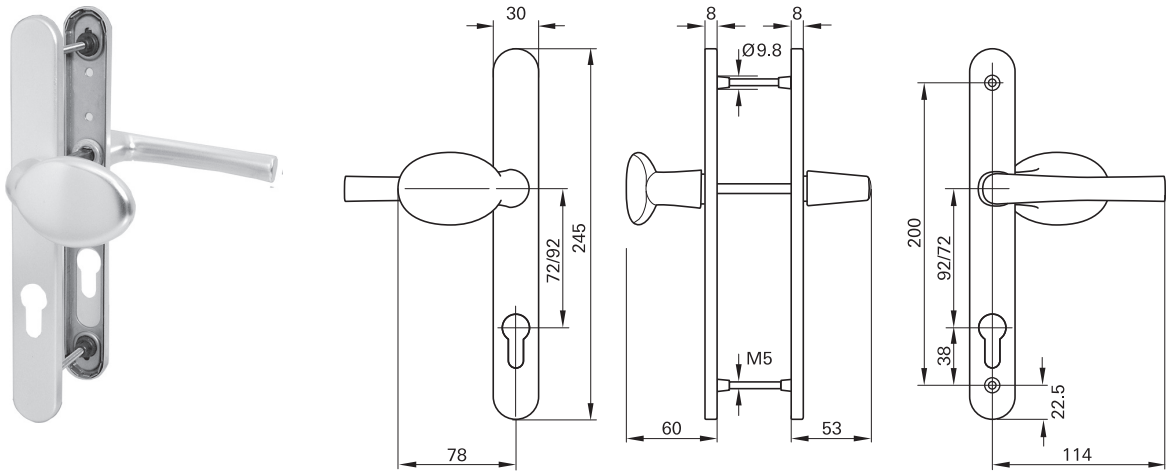
- Narrow door handle set (lever handle / lever handle)
  Flat external lever handle
- For balcony doors with roller shutters, sun screen, blinds and insect screen

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	340493
	130	R01.5	–	Silver	2	M5x80	36 Piece	337615
	130	R04.1	RAL 8019	Grey brown	2	M5x80	36 Piece	501397
	130	R06.4M	–	Jet black, matt	2	M5x80	36 Piece	337618
	130	R07.2	RAL 9016	Traffic white	2	M5x80	36 Piece	337617
	130	R07.3	RAL 8022	Cream	2	M5x80	36 Piece	346933

9.1.1.4 Plate 30 x 245 mm



Product description

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

Scope of delivery

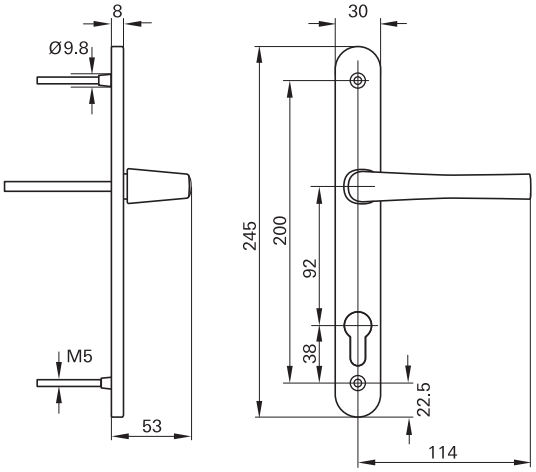
- 1 door handle set
- 1 square spindle: 8 mm
- 4 fixing screws

92	90	R01.3	–	Titanium	2	M5x65 M5x75	10 Piece	340486
	90	R01.5	–	Silver	2	M5x65 M5x75	10 Piece	340320
	90	R04.1	RAL 8019	Grey brown	2	M5x65 M5x75	10 Piece	340322
	90	R06.2	RAL 9005	Jet black	2	M5x65 M5x75	10 Piece	340485
	90	R07.2	RAL 9016	Traffic white	2	M5x65 M5x75	10 Piece	340484

9.1.2 Door leaf thickness 58 – 62 mm

9.1.2.1 Plate 30 x 245 mm





Product description

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

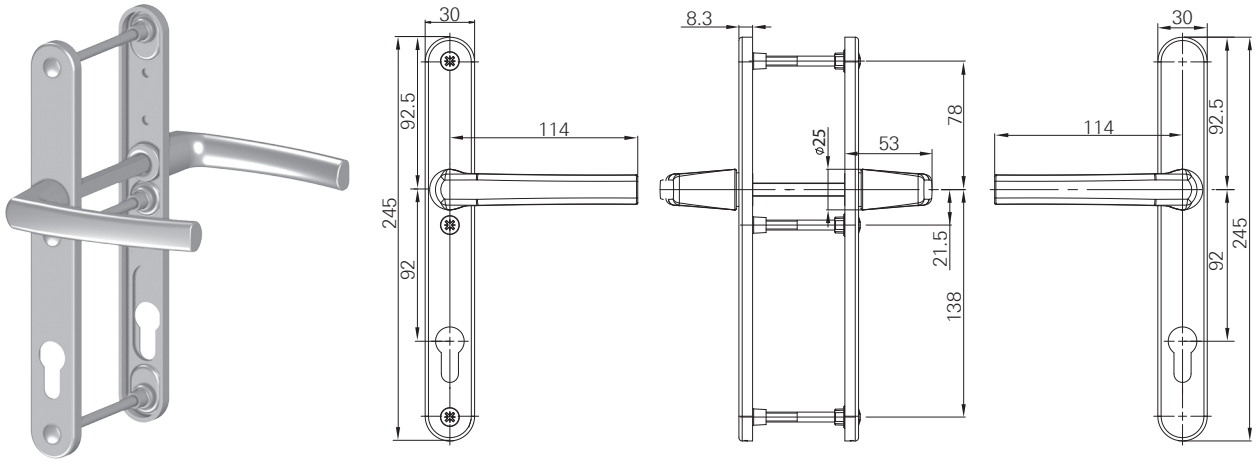
Scope of delivery

- 1 door handle (internal)
- 1 square spindle: 8 mm
- 2 fixing screws

					#			№
92	80	R01.3	–	Titanium	2	M5x70	72 Piece	333216
	80	R01.5	–	Silver	2	M5x70	72 Piece	337620
	80	R04.1	RAL 8019	Black brown	2	M5x70	72 Piece	346931
	80	R06.4M	–	Black, matt	2	M5x70	72 Piece	337623
	80	R07.2	RAL 9016	Traffic white	2	M5x70	72 Piece	337622
	80	R07.3	RAL 9001	Cream	2	M5x70	72 Piece	346932

9.1.3 Door leaf thickness 77 – 82 mm

9.1.3.1 Plate 30 x 245 mm



Product description

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

Scope of delivery

- 1 door handle set

92	R01.5	–	Silver	36 Piece	809967

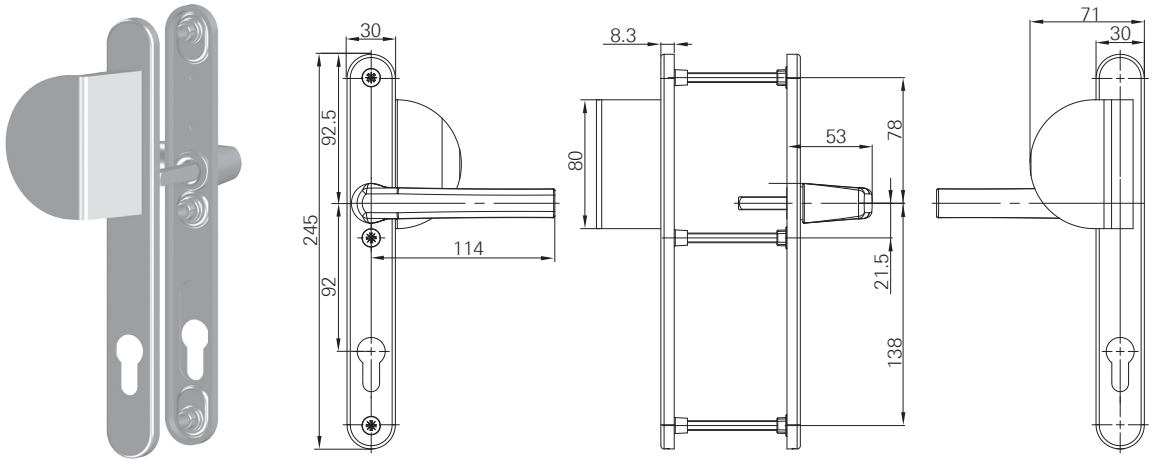
Accessory set

Scope of delivery

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

Accessories set, consisting of:	160	3	M6x90	809968

9.1.3.2 Plate 30 x 245 mm



Product description

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

Scope of delivery

- 1 door handle set

	Roto				№
92	R01.5	–	Silver	36 Piece	809966

Accessory set

Scope of delivery

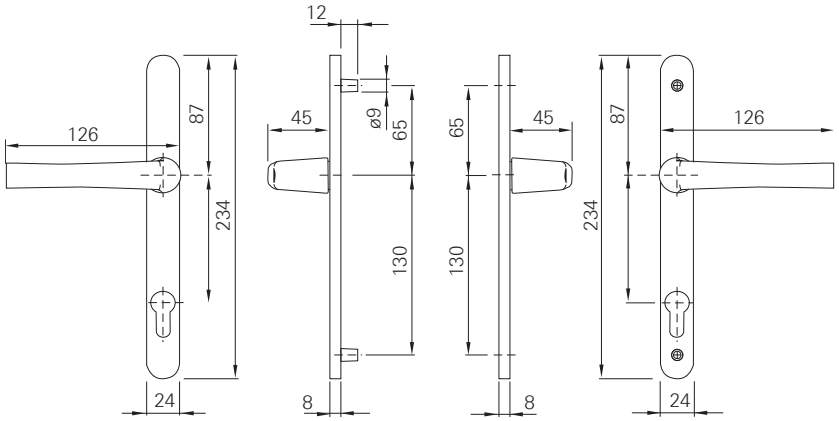
- 1 square spindle: 8 mm
- Screws: see table

		#		№
Accessories set, consisting of:	70	3	–	809972

9.1.4 Door leaf thickness 87 – 92 mm

9.1.4.1 Plate 24 x 234 mm





Product description

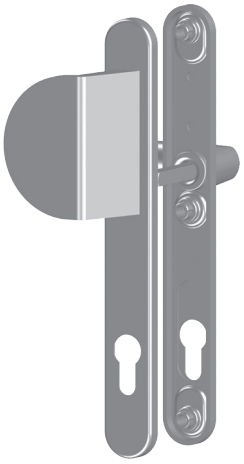
- Narrow door handle set (lever handle / lever handle)
- Square spindle also suitable for door leaf thickness of 76 – 82 mm (can be shortened)
- Profile cylinder hole
- Balcony and main doors

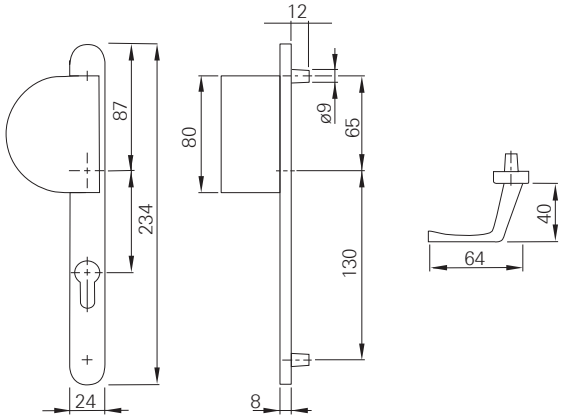
Scope of delivery

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

92	140	R01.5	–	Silver	2	M4x65 M4x75	200 Piece	788613

9.1.4.2 Plate 24 x 234 mm





Product description

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

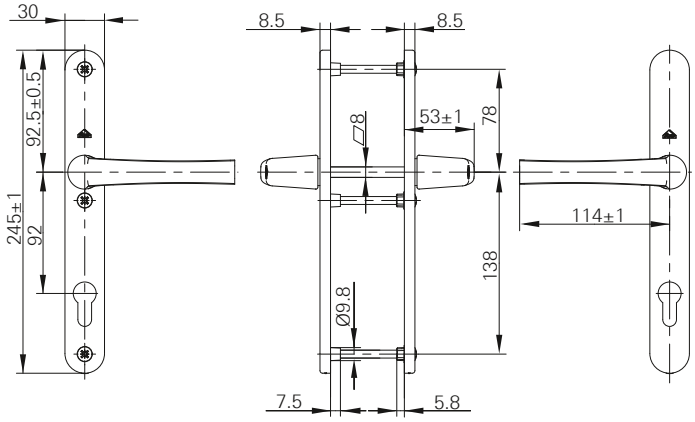
Scope of delivery

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

		Roto			#			№
92	90	R01.5	–	Silver	2	M4x75 M4x65	200 Piece	788614

9.1.4.3 Plate 30 x 245 mm





Product description

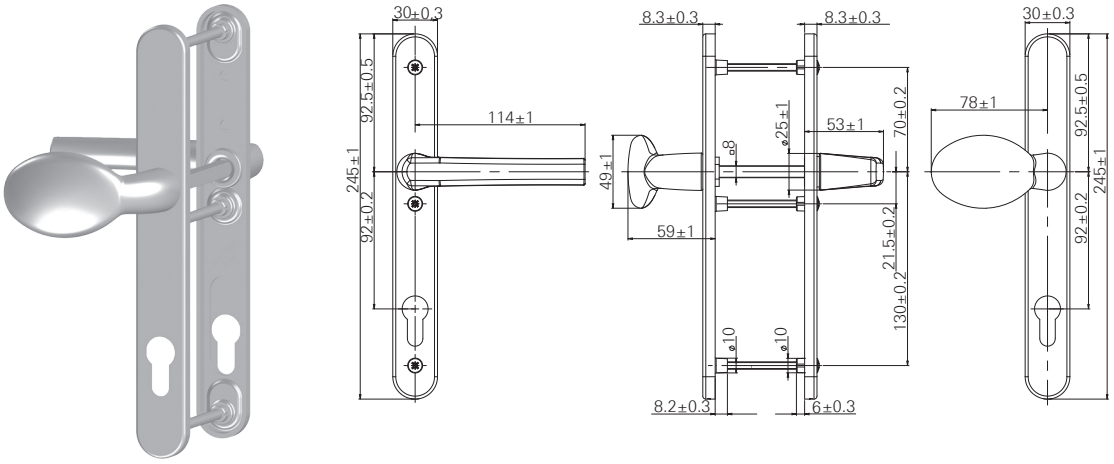
- Narrow door handle set (lever handle / lever handle)
- Profile cylinder hole
- Balcony and main doors

Scope of delivery

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

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

9.1.4.4 Plate 30 x 245 mm



Product description

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

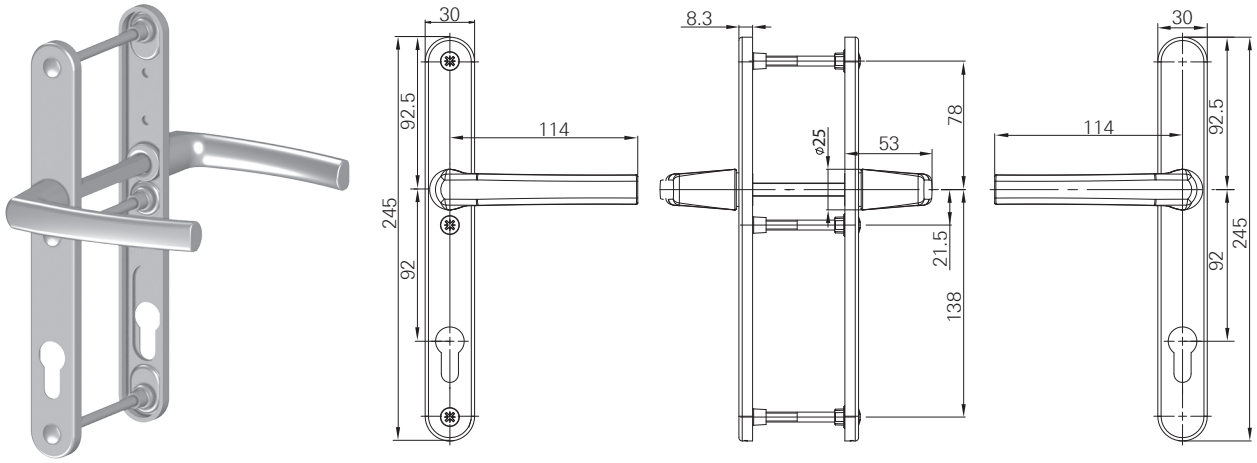
Scope of delivery

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

92	120	R01.3	–	Titanium	3	M6x100	10 Piece	625038
	120	R04.1	RAL 8019	Grey brown	3	M6x100	10 Piece	625042
	120	R04.4	–	Bronze	3	M6x100	10 Piece	625043
	120	R07.2	RAL 9016	Traffic white	3	M6x100	10 Piece	625041

9.1.5 Door leaf thickness 92 – 97 mm

9.1.5.1 Plate 30 x 245 mm



Product description

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

Scope of delivery

- 1 door handle set
- 2 fixing screws

	Roto				№
92	R01.5	–	Silver	36 Piece	809967

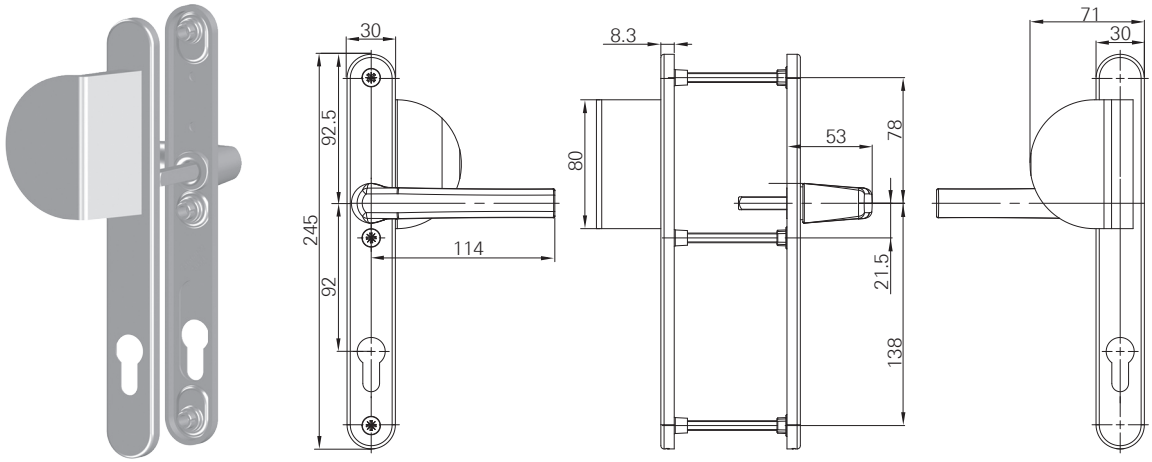
Accessory set

Scope of delivery

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

		#		№
Accessories set, consisting of:	175	3	M6x105	809971

9.1.5.2 Plate 30 x 245 mm



Product description

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

Scope of delivery

- 1 door handle set

92	R01.5	–	Silver	36 Piece	809966

Accessory set

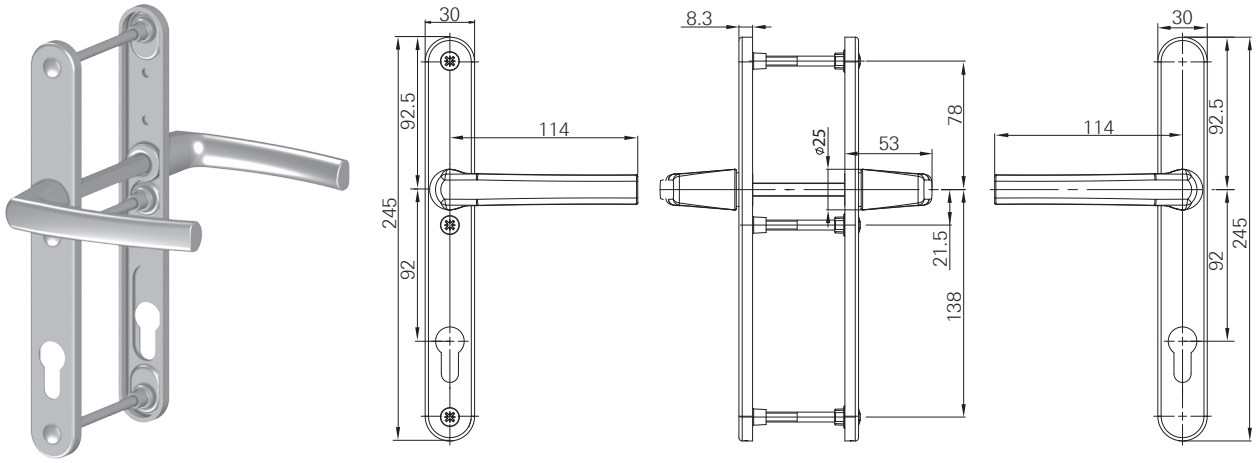
Scope of delivery

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

Accessories set, consisting of:	70	3	M6x105	809974

9.1.6 Door leaf thickness 97 – 102 mm

9.1.6.1 Plate 30 x 245 mm



Product description

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

Scope of delivery

- 1 door handle set

	Roto				№
92	R01.5	–	Silver	36 Piece	809967

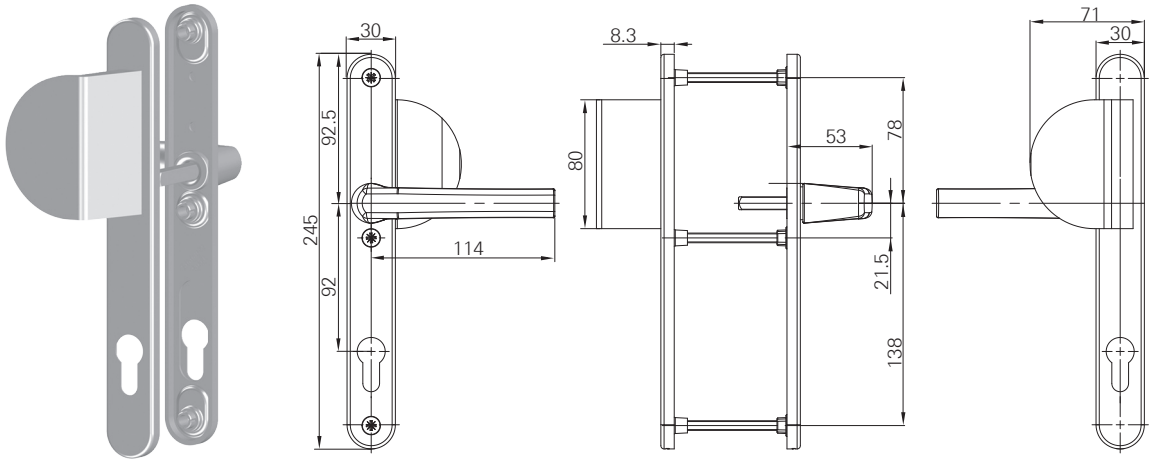
Accessory set

Scope of delivery

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

		#		№
Accessories set, consisting of:	180	3	M6x110	809969

9.1.6.2 Plate 30 x 245 mm



Product description

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

Scope of delivery

- 1 door handle set

92	R01.5	–	Silver	36 Piece	809966

Accessory set

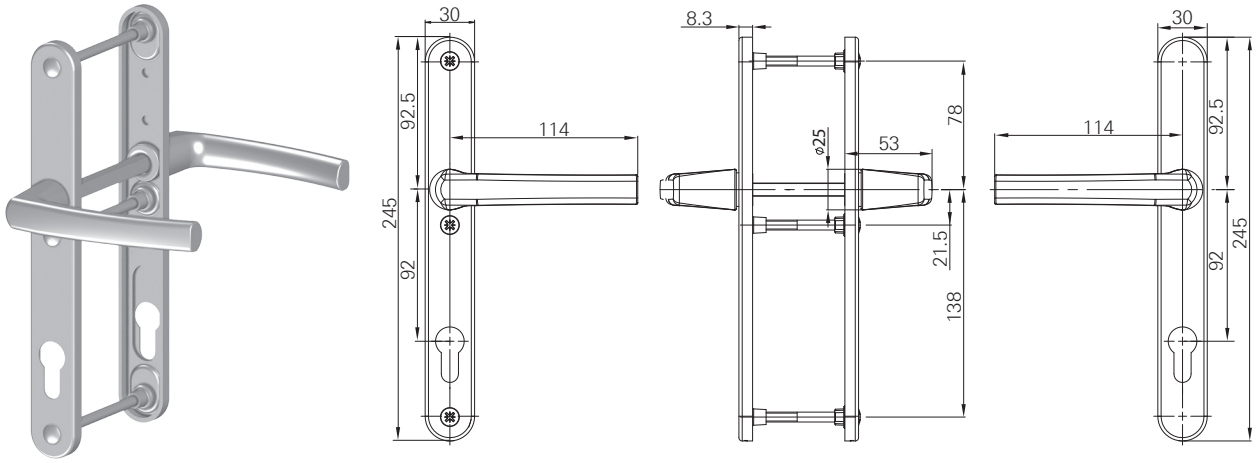
Scope of delivery

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

Accessories set, consisting of:	70	3	M6x110	809973

9.1.7 Door leaf thickness 102 – 107 mm

9.1.7.1 Plate 30 x 245 mm



Product description

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

Scope of delivery

- 1 door handle set

	Roto				№
92	R01.5	–	Silver	36 Piece	809967

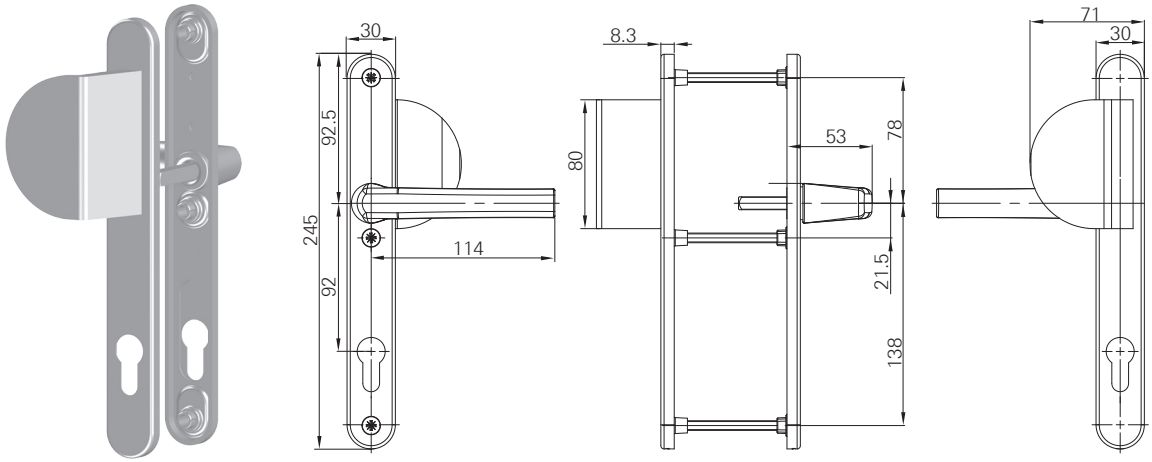
Accessory set

Scope of delivery

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

		#		№
Accessories set, consisting of:	70	3	M6x115	809995

9.1.7.2 Plate 30 x 245 mm



Product description

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

Scope of delivery

- 1 door handle set

92	R01.5	–	Silver	36 Piece	809966

Accessory set

Scope of delivery

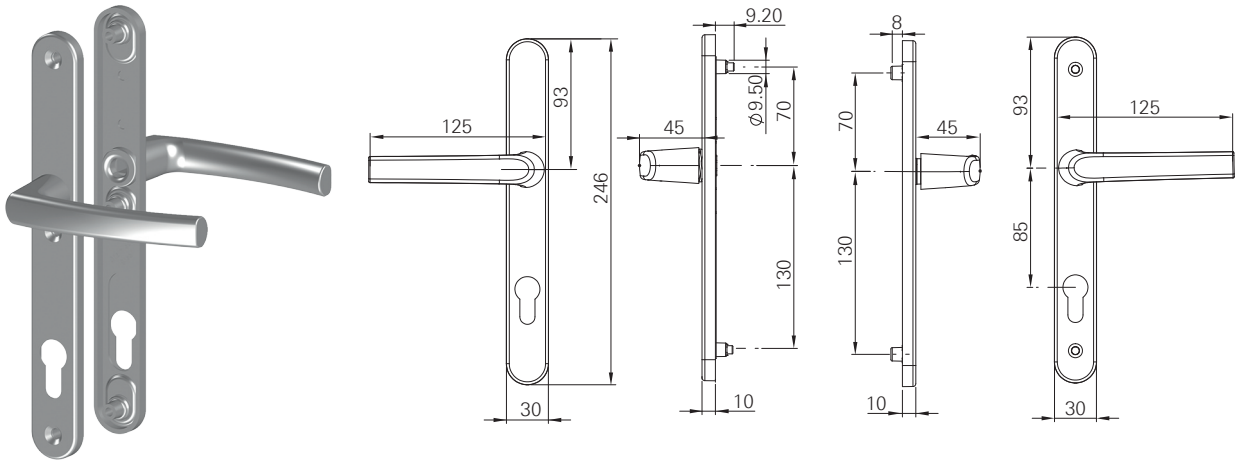
- 1 square spindle: 8 mm
- Screws: see table

Accessories set, consisting of:	185	3	M6x115	809970

9.2 Roto Samba

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

9.2.1.1 Plate 30 x 246 mm



Product description

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

	Roto			#			№
85	R01.1	–	Natural silver	2	M5x75 M5x95	20 Piece	800289
	R01.2	–	Nickel silver	2	M5x75 M5x95	20 Piece	800290
	R01.3	–	Titanium	2	M5x75 M5x95	20 Piece	800291
	R03.1	–	Brass matt	2	M5x75 M5x95	20 Piece	800292
	R04.4	RAL 8022	Black brown	2	M5x75 M5x95	20 Piece	800288
	R05.5	–	Bronze	2	M5x75 M5x95	20 Piece	800293
	R07.2	RAL 9016	Traffic white	2	M5x75 M5x95	20 Piece	800287

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

INFO

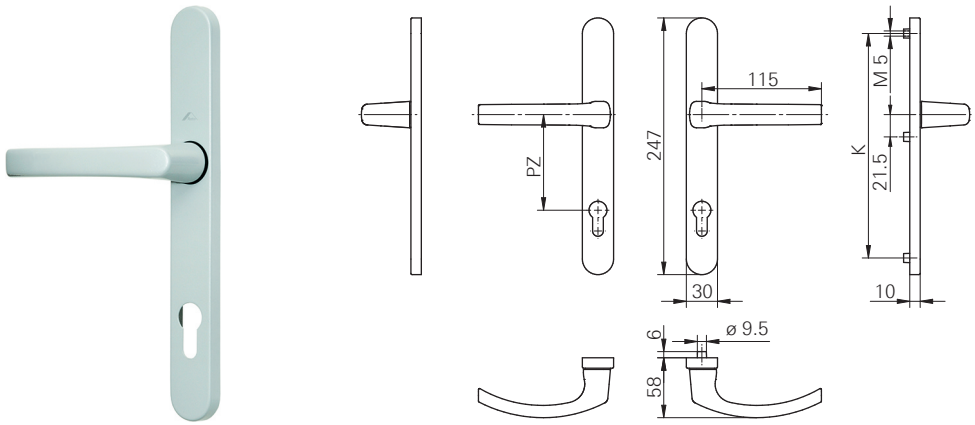
When using a 8 x 115 square spindle, use M5 x 75 screws.

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

9.3 Roto Freestyle

9.3.1 Door leaf thickness 67 – 97 mm

9.3.1.1 Plate 30 x 247 mm



Internal half-set (lever handle)

Product description

- Half-set (lever handle on the inside)
- Profile cylinder hole

  Can be combined with half-set with lever handle on the outside or half-set with knob on the outside
- Balcony and main doors

Scope of delivery

- 1 door handle
- Accessory set (see below)

	Roto				№
92	R07.2	RAL 9016	Traffic white	72 Piece	765921
	R04.1	RAL 8019	Grey brown	72 Piece	765922
	–	RAL 7016	Anthracite grey	72 Piece	765923
	–	RAL 8077	Dark brown	72 Piece	765924
	–	RAL 9006	White aluminium	72 Piece	766015
	–	RAL 9007	Grey aluminium	72 Piece	766016
	–	RAL 1036	Pearl gold	72 Piece	766017

External half-set (lever handle)

Product description

- Half-set (lever handle on the outside)
- Profile cylinder hole

  Can be combined with half-set with lever handle on the inside
- Balcony and main doors

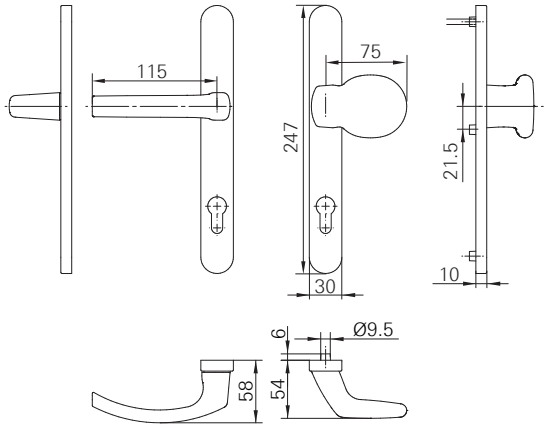
Scope of delivery

- 1 door handle
- Accessory set (see below)

					Nº
92	R07.2	RAL 9016	Traffic white	72 Piece	764758
	R04.1	RAL 8019	Grey brown	72 Piece	764759
	–	RAL 7016	Anthracite grey	72 Piece	764760
	–	RAL 8077	Dark brown	72 Piece	764761
	–	RAL 9006	White aluminium	72 Piece	764762
	–	RAL 9007	Grey aluminium	72 Piece	764763
	–	RAL 1036	Pearl gold	72 Piece	764764

External half-set (knob)





Product description

- Half-set (knob on the outside)
- Profile cylinder hole

  Can be combined with half-set with lever handle on the inside
- Balcony and main doors

Scope of delivery

- 1 door handle
- Accessory set (see below)

					Nº
92	R07.2	RAL 9016	Traffic white	72 Piece	764795
	R04.1	RAL 8019	Grey brown	72 Piece	764796
	–	RAL 7016	Anthracite grey	72 Piece	764797
	–	RAL 8077	Dark brown	72 Piece	764798
	–	RAL 9006	White aluminium	72 Piece	764799
	–	RAL 9007	Grey aluminium	72 Piece	764800
	–	RAL 1036	Pearl gold	72 Piece	764801

Accessory set

Scope of delivery

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

Door leaf thickness 67 - 72 mm

	#		Nº
100	2	M5x80	765624

Door leaf thickness 67 - 77 mm

	#		№
130	2	M5x80	765621

Door leaf thickness 72 - 82 mm

	#		№
110	2	M5x90	765685

Door leaf thickness 77 - 87 mm

	#		№
140	2	M5x90	765622

Door leaf thickness 82 - 92 mm

	#		№
120	2	M5x100	765686

Door leaf thickness 87 - 97 mm

	#		№
150	2	M5x100	765623

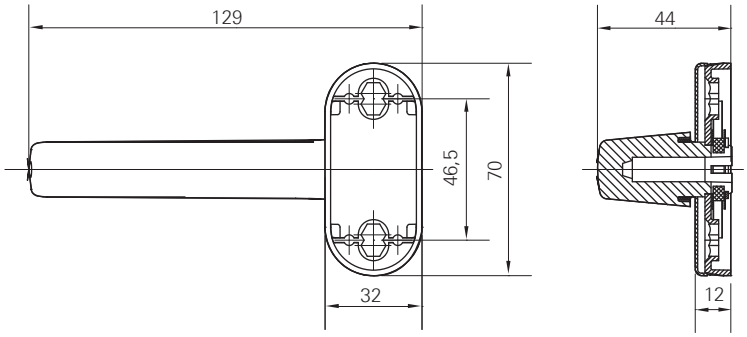
Door leaf thickness 92 - 97 mm

	#		№
130	2	M5x110	765687

9.3.2 Door leaf thickness 60 – 70 mm

9.3.2.1 Spring handle set





Product description

- Spring handle set
  With return spring
- Can be used with locks that are operated by a lever handle or cylinder (possibility of being moved downwards and upwards for activation)
- Main doors

Scope of delivery

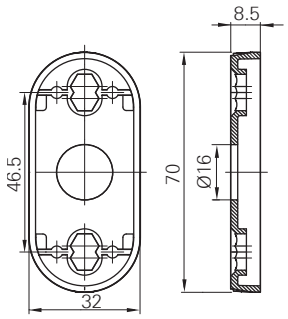
- 1 escutcheon lever handle set
- 1 square spindle: 8 mm
- 4 fixing screws

Escutcheon lever handle set

Roto			i	#			№
R01.4	–	Chromium	Matt chrome	2	M5x65 M5x75	1 Piece	602558
–	RAL 9003	Signal white	–	2	M5x65 M5x75	1 Piece	644114
R06.2	RAL 9005	Jet black	–	2	M5x65 M5x75	1 Piece	553875
–	RAL 9006	Special colour	RAL 9006 – White aluminium	2	M5x65 M5x75	1 Piece	553877
Roh	–	Uncoated	–	2	M5x65 M5x75	30 Piece	553927

Escutcheons – profile cylinder hole





Scope of delivery

- 2 escutcheons
- 4 fixing screws

Roto				#			№
R01.4	–	Chromium	Matt chrome	4	M5x20	1 Set	602559
–	RAL 9003	Signal white	–	4	M5x20	1 Set	644225
R06.2	RAL 9005	Jet black	–	4	M5x20	1 Set	553876
Roh	–	Uncoated	–	4	M5x20	30 Set	553928

Handle accessories




Roto

Geared-handle support

Individual component	203
Set (individual component with screws)	204

10 Accessories

10.1 Geared-handle support

10.1.1 Individual component



Product description

- Geared-handle support for fixing of the geared-handle
- Can be used optionally with thin-walled sash profiles

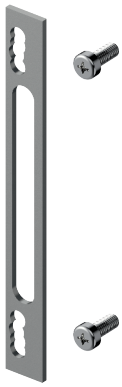
Scope of delivery

- 1 geared-handle support
- Without fixing screws

INFO
Suitable for all Roto Line geard-handles.

AL espagnolette support	For Roto Line AL geared-handle	–	–	100 Piece	331937

10.1.2 Set (individual component with screws)



Product description

- Geared-handle support for fixing of the geared-handle
- Can be used optionally with thin-walled sash profiles

Scope of delivery

- 1 geared-handle support
- 2 fixing screws

INFO
Suitable for all Roto Line geard-handles.

		#			№
AL espagnolette support set	For Roto Line AL geared-handle	2	M5x12	10 Piece	728853

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