



Roto AL

Universal hardware for
aluminium windows and balcony doors

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Efficiency

- Clampable installation: no additional drilling into the profile is necessary
- Maximum long-term functional performance class and corrosion resistance in accordance with QM 328
- The Roto AL modular system requires less storage capacity and reduces the logistics expenditure
- Fewer parts required because the left and right sides are symmetrical, resulting in reduced logistics and administrative outlay



Security

- Burglary protection up to RC 3 in accordance with DIN EN 1627-1630 is possible thanks to small, compact hinge-side components combined with the Roto AL central locking system



Comfort

- Hexalobular socket screws: cordless drill/drivers can be used for rapid and simple installation
- Optional accessories, such as a damped turn restrictor, are available for meeting the most stringent project tender requirements
- Preassembled sash stay with integrated anti-slam device



Design

- Roto standard colours and special colours are possible
- Great freedom of design thanks to max. sash weight of 300 kg and max. sash height of 3000 mm
- Wide selection of handle versions



Universal hardware for aluminium windows and balcony doors

Pioneering in the aluminium sector

Roto hardware systems for aluminium windows and balcony doors combine state-of-the-art technology with ultimate security and an appealing appearance.

Based on the modular design concept, they can be integrated into all common Euro-chamber profile systems. Corrosion-resistant materials make the hardware very durable and offer a high degree of resistance to environmental influences.



The Roto aluminium range – discover the progress made!

Today, with the Roto hardware system for aluminium windows and balcony doors, any project can be implemented in a short time frame and with outstanding quality. This is because our new Roto AL and Roto AL | Designo hardware systems provide the right solution for any project.

Roto AL

The universal hardware with a surface-mounted hinge side sets new standards when it comes to ease of processing and efficiency.

Roto AL | Designo

However, if you require particularly attractive windows without any other design elements to detract from their appearance, then Roto AL | Designo, fully concealed hardware for large aluminium windows and balcony doors, will be your first choice.

Roto AL | Designo STS

The new concealed hinge side for attractive aluminium windows and balcony doors with a stainless-steel hinge side – for high resistance to corrosion, especially in tropical and Mediterranean climates. Certified in accordance with DIN EN 1670, corrosion protection class 5.

Roto hardware systems for aluminium windows and balcony doors combine state-of-the-art technology with ultimate security and an appealing appearance.

Roto AL – the all-rounder

Large sash elements are on-trend – at the same time, the requirements regarding durability, operating convenience and security are becoming more stringent.

The Roto AL hardware system fulfils all these expectations, and can be implemented for all window formats and sizes, as well as for all opening types. Combining it with the Roto AL central locking system for sash heights up to 3000 mm reduces the logistics expenditure and storage space requirements.

Roto has also successfully optimised the installation effort of the hardware system. For example, through hexalobular socket drives on the frames and sash components.

Roto AL, universal hardware for aluminium windows and balcony doors, is suitable for:

- all common window formats
- sash heights up to 3000 mm
- sash weights up to 300 kg
- all standard opening types: Tilt&Turn, Turn-Only, Tilt-Only or floating-mullion sashes and Tilt-First
- resistance classes RC 1 to RC 3
- accessible threshold for T&T | 90 – 130 kg, T&T | 160 kg (incl. RC 2), T-O | 90 – 130 kg, FM (second opening sash) | 90 – 130 kg



No matter what projects or plans you have in mind

Freedom of design up to 3000 mm

There are no limits when it comes to planning and designing attractive construction projects with ceiling-height sash elements. This is because, with Roto AL, universality also means staying flexible regarding the sash height and enabling a maximum sash height of up to 3000 mm.



Standardised hinge side – standardised appearance

Combining windows of different sizes soon leads to a mismatched look. This is not the case with Roto AL. The hardware system is distinguished by a standardised hinge side up to 3000 mm for ceiling-height sash elements.



Because speed pays off

3000 mm-high sashes – for very high potential turnover

Ceiling-height sash elements look good and are on-trend. Roto has increased the maximum sash height of Roto AL to 3000 mm. The hinge side remains standardised. By doing so, Roto makes it possible to increase turnover – no matter the customer's requirements.

Hexalobular socket drives – quicker and more reliable installation

Roto makes hardware installation easier using hexalobular socket drives on the frames and sash components. This ensures that the necessary torques are always achieved, and results in a quicker, more reliable and less laborious installation process. The result is that fabricators benefit from lower production costs and workmanship of increased quality.



Plug-in corner drive – save time without tools

Roto has equipped the Roto AL hardware system with a corner drive which is fixed in place by a plug-in clamping fork – for faster installation without the need for tools.

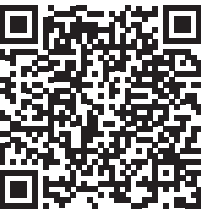


Fixed-dimension connecting rods

Roto Con



Errors when calculating the striker positions are a thing of the past. Roto has standardised connecting rods T4 and T5, and determined the corresponding fixed dimensions. The fixed-dimension connecting rods can be cropped in advance. In this way, Roto AL helps reduce production costs in two ways.



Configure and order with Roto Con

Activate our Roto Con hardware configurator and configure your windows. Select the “ready to use connecting rod” option and generate the technical master data specific to the order.

Finally, the order is sent to your contact at Roto using a form generated in Roto Con.



Roto Con Orders - the online hardware configurator

With the high-performance Roto Con Orders 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 window formats and opening types. You can get your individual parts list, including a technical illustration of hardware itemising, in just four steps. The list can be changed, adapted or personalised as desired. You too can save time when configuring, managing and ordering: with Roto Con Orders.

Roto Object Business

Roto Object Business – security in planning and implementing special solutions



As a technological and market leader in hardware systems for windows and doors, not only do we offer you the highest standards when it comes to security, comfort and design, but we also prioritise first-class service. In this regard, we follow our maxim of “Close to the customer” and support you wherever you need help.

Are you facing a challenge that you can’t readily overcome with standard hardware systems? Roto Object Business is your expert partner when it comes to implementing your projects reliably and economically. Our experienced specialists from Technology, Design and Sales develop the ideal hardware solution for your objectives, in close coordination with you. Whether large-scale, extremely heavy windows, particularly delicate profiles or futuristic geometries – we can help.

Quickly, flexibly, reliably and personally.

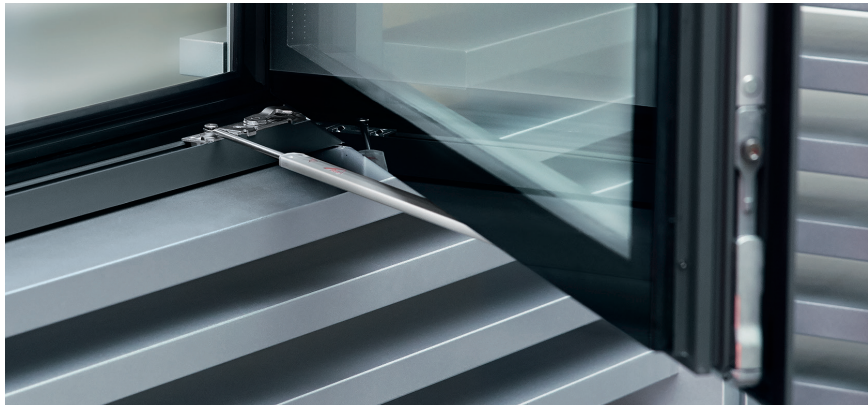


here: Bosco Verticale, Milan, Italy
Roto AL

Accessories

Opening restrictors – simply controlled and secure

Opening restrictors have become an intrinsic feature in the modern fenestration industry, especially for multi-storey buildings. Today, a growing number of specifications list tested opening restrictors as a requirement for manufacturers of aluminium windows. The opening restrictors from Roto satisfy the quality criteria stipulated by ift Rosenheim in specifications. In addition, they impress with their excellent durability and especially flexible options for use.



High maintenance and repair costs are therefore a thing of the past. The Roto AL | opening restrictors protect the hinge side of the reveal against damage from uncontrolled sash movements, caused by draughts or operating errors. The service life of the windows is increased as a result. The same version of the Roto AL | opening restrictors can be used on both sides (right/left), regardless of whether the hinge side is concealed or surface-mounted (version: 1.2, 1.3, 2.1).

Bullet catch

The new bullet catch keeps the sash in the locked position when closing. A spring is centred on the cam if the bullet catch is inaccurately installed or if the sash is incorrectly adjusted. The bullet catch can be used on the left and right, as well as horizontally and vertically.



Certified in accordance with QM 328

Zertifikat / Certificate

Zertifikatsnr. / Certificate No.: 228-9004105-4-5

ift

ROSENHEIM

Dreh- und Drehkippbeschläge für Fenster und Fenstertüren

Turn and tilt-turn hardware for windows and casement doors

Produkt

Roto AL, Roto AL Designo

max. Flügelgewicht

max. casement weight

300 kg

Einsatzbereich

field of application

Systeme mit entsprechender Beschlagsaufnahme

Systems with suitable hardware groove

Hersteller

manufacturer

Roto Frank Fenster- und Türtechnologie GmbH

Wilhelm-Frank Platz 1, DE 70771 Leinfelden-Echterdingen

Produktionsstandort

production site

Roto Frank Fenster- und Türtechnologie GmbH

Eintrachtstrasse 95, D 42551 Velbert

Grundlage(n) / Basis:

ift-Zertifizierungsprogramm für Beschläge

ift-certification scheme for hardware

(QM 328)

Ausgabe/issue 2018

EN 1191

EN 12400

Klasse 3

Dauerfunktion

resistance to repeated opening and closing

EN ISO 9227

EN 1670

bis Klasse 5

Korrosionsschutz

corrosion protection

Mit diesem Zertifikat wird bescheinigt, dass das benannte Bauprodukt den Anforderungen des zugrundeliegenden ift-Zertifizierungsprogramms in der aktuellen Fassung entspricht.

Erstellung von Produktfamilien des aufgeführten Bauproduktes und Erstinprüfung durch eine akkreditierte Prüfstelle nach EN 13126-8:2017 unter Berücksichtigung der Anwendungsdiagramme

Einführung und Aufrechterhaltung einer werkseigenen Produktionskontrolle durch den Hersteller

Erstinspektion des Werkes und der werkseigenen Produktionskontrolle durch ift-Q-Zert

kontinuierliche Fremdüberwachung des Werkes und der werkseigenen Produktionskontrolle durch ift-Q-Zert

Dieses Zertifikat wurde erstmals am 02.10.2015 ausgestellt und gilt 5 Jahre, wenn sich zwischenzeitlich die Festlegungen in der oben angeführten technischen Spezifikation oder die Herstellbedingungen im Werk oder in der werkseigenen Produktionskontrolle selbst nicht wesentlich verändert haben.

Das Zertifikat darf nur unverändert vervielfältigt werden. Alle Änderungen der Voraussetzungen für die Zertifizierung sind dem ift-Q-Zert mit den erforderlichen Nachweisen unverzüglich schriftlich anzuzeigen.

Das Unternehmen ist berechtigt, das benannte Bauprodukt gemäß der ift-Zeichensatzung mit dem „ift-zertifiziert“-Zeichen zu kennzeichnen.

Dieses Zertifikat enthält 2 Anlagen.

This certificate attests that the building product mentioned fulfils the requirements of the underlying ift-certification scheme in its current version.

compilation of product families of the building product listed and initial type-testing by an accredited testing body as per EN 13126-8:2017 based on the application diagrams

implementation and maintenance of a factory production control by the manufacturer

initial inspection of the production site and the factory production control by ift-Q-Zert

continuous third-party control of the production site and the factory production control by ift-Q-Zert

This certificate was first issued on 02.10.2015 and will remain valid for 5 years, as long as neither the conditions laid down in the technical specification listed above nor the manufacturing conditions in the production site nor the factory production control itself are modified significantly.

The reproduction of the certificate without any change from the original is permitted. Any changes to the prerequisites applicable to certification shall be immediately communicated in writing to ift-Q-Zert accompanied by the necessary evidence.

The company is authorized to affix the "ift-certified"-mark to the building product mentioned according to the ift-rules for use of the "ift-certified"-mark.

This certificate contains 2 annexes.

ift Rosenheim

31.05.2021

Gültig bis / Valid until:

16.02.2026

Christian Kehrer

Leiter der ift-Zertifizierungs- und Überwachungsstelle

Head of ift Certification and Surveillance Body

Prof. Jörn P. Lass

Institutsleiter

Director of Institute

228 9004105

EN 17065

ift

ZERTIFIZIERT

CERTIFIED

www.ift-rosenheim.de



**From a single source.
Optimum hardware systems to meet all challenges.**

Window

Hardware systems for windows and balcony doors

Sliding

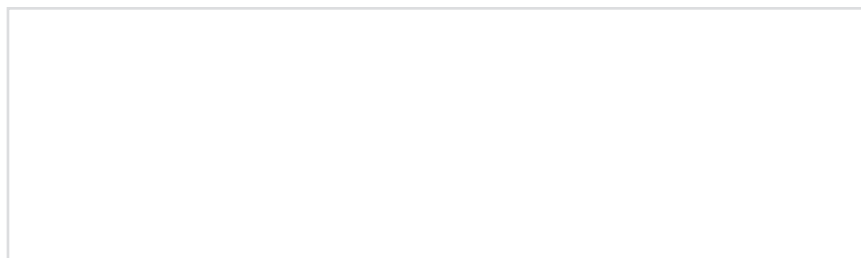
Hardware systems for large sliding windows and doors

Door

Matching hardware technology everything about doors

Equipment

Additional technology for windows and doors



Location finder

