

Roto NT

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

For aluminium profiles with 16 mm hardware groove





Convincingly good windows With surprisingly little effort

Clever technology now also for aluminium profiles with a 16 mm hardware groove

Starting immediately we also offer Roto NT, the world's biggest selling Tilt&Turn hardware system, for aluminium profiles with a 16 mm hardware groove. The system is suitable for virtually all opening types, is compatible to the NT modular system and offers beneficial features right down the line.

Completely concealed hinges emphasise the modern, clear appearance of the aluminium window. And also make window cleaning easier. Today there is – literally – a heavy emphasis on large sash elements and complex multiple glazing. That's why it's good to know that the Roto NT Designo Alu is excellently equipped even for high sash weights.

And with regard to the subjects of convenience and safety as well, the new hardware system offers many strong arguments in favour of purchasing the system.

However, one very decisive advantage for you as a window fabricator lies in the unique clamping mechanism which considerably reduces the required installation effort – and saves time and money.





16 mm

Convincing arguments

More design, comfort and safety for your customers

Window design for the most demanding requirements

Roto NT Designo Alu helps to create perfect aesthetics with completely concealed hinges, allowing the window to merge effortlessly into the building design and surroundings.



Outstanding solution for heavy sashes

Large window sizes, heat and sound reduction glazing are in greater demand than ever before. These kinds of windows are heavy and sash weights of over 100 kg are almost the rule. With just two additional special parts invisible from the outside, extreme stability can be achieved in combination with the standard hardware – for sash weights up to 150 kg. Installation is fast and easy with standard tools.

Also retro-fitted.



Well thought-out details for enhanced comfort

- Generous opening angle of up to 100° enables unimpaired views and prevents damage to the sash and wall
- Tilt restrictor and anti-slam device protect against unpleasant surprises when the window is open
- Permanent lubrication via patented grease depots means long-term smooth-running, low-maintenance windows



Uncompromising safety

Roto NT Designo Alu combines aesthetics and safety. Proven security components offer outstanding burglary protection for concealed hardware up to BRG2 according to EN 1627-1630. The form-fitting, positive clamping of the hardware components prevents shifting of the bearing –

and stands for a high level of stability and safety. The system quality is also outstanding.

Equipment according to customer request

Roto NT Designo Alu offers solutions for 9 and 13 mm hardware axes and is compatible with the NT modular system. As a result,

there is nothing to prohibit customer-specific adjustment and individual equipment, for example with a turn-restrictor for large-area, heavy windows.

16 mm

Pleasing advantages

Reduced time and expense for you

Simply profitable: clamping instead of screwing

The unique clamping mechanism of the Roto NT Designo Alu makes screws virtually superfluous. Frame parts and the clampable hinge side are simply clamped into the frame groove – completely independently of the corner connector geometry of the profile frame.

Everything fits perfectly and functions simply, quickly and therefore inexpensively.

Form-fitting, positive clamping is ensured by a combination of clamp-block and clamp-strip with a piercing screw which penetrates the profile. Various clamp-strips are available for different profile geometries.



Assembly and installation in record time

The window sashes can be adjusted very simply three-dimensionally with adjusting screws. A 4 mm Allen key is sufficient for making all adjustments on the hinge side; adjustment reserves are indicated on a scale. Special force transfer devices invisible when installed enable the use of compact components, which can be installed quickly and easily.

Greater efficiency with modular design

With Roto NT Designo Alu the hinge-side components are perfectly matched to the Roto NT modular system.

Your benefits: a broad range of possible combinations, fast, flexible installation, minimal component diversity and therefore reduced production and storage costs.



Strong standard: flexible, secure and a good value

In addition to the design-oriented Roto NT Designo Alu product line, we now also offer an inexpensive basic version of the system for aluminium profiles with a 16 mm hardware groove. The hardware components on the visible hinge side can be screwed on, they enable an opening width of up to 180° and are excellently suited for sash weights up to 100 kg.

Cover caps are also available in various colours to match the respective frame colour.



Top stability thanks to useful details

The stable diecast zinc angle of the hinge is positioned in groove and fastened with four screws. If the lower screw cannot be set, for example in case of a collision with the corner connector located in the profile, a special, glass-fibre reinforced PVC extension is clipped in. This enables the screw to be screwed in easily at another point. This PVC extension is also suitable for use with a turn-restrictor.

Hardware concept in accordance with modular design principle

Of course, the new Roto NT hinge side for aluminium profiles is 100% compatible to the Roto NT modular system. All components are optimally matched to each other.

The advantages:

- All components are based on the same platform and can always be coupled at the same points

- Size-dependent components always have the same cropping range

- A small, clear range of parts covers all types of windows

As a result, Roto NT stands for a broad range of applications and offers excellent conditions for economical, successful window production.

16 mm



Creates inner values

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From a single source: The optimum hardware system to meet all challenges

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

Roto AluVision | Comprehensive hardware solutions for windows and doors made of aluminium

Roto Door | The attuned range of components for permanently tightly shut doors

Roto Patio | Hardware systems for large sliding windows and doors