

## **Press information**

**Date:** 21/03/2012

### **Roto window and door technology for “fensterbau/frontale” 2012**

“NT” range greatly expanded / New Roto developments in modular Tilt&Turn hardware system / Concealed hinge side for aluminium profiles with 16 mm hardware groove / Solid interlocking and positive fitting clamping / Lever-operated espagnolettes: “Plus” promise met / Window damper: “small but powerful” / Beneficial to people and to material / Barrier-free solutions

### **Modular system access routes**

**Nuremberg/Leinfelden-Echterdingen - (rp)** From a fitting to an institution – this is the motto Roto uses to describe the more than 10 years of success of its “NT” range. Introduced at the turn of the millennium as a Tilt&Turn innovation with single-handed operation and the possibility of fully automated production, it has successively developed within hardware technology into a synonym for quality, security, ease of operation, durability, design and ease of assembly. One result of this: with well over 100 million sets sold, this range is now the “worldwide bestseller” in windows and balcony doors. This success is based squarely on the permanent, customer and benefit-oriented expansion of the range into a modular universal system. The manufacturer also lives up to its innovative tradition in 2012, and reemphasised this at “fensterbau/frontale” – in the process delivering trade visitors with the required proof.

### **Aesthetic exclusivity**

Among other innovations, the “NT Designo” concealed hinge side for aluminium profiles with 16 mm hardware groove celebrated its premiere in Nuremberg. The solution suitable for 9 mm and 13 mm

hardware axes can be screwed in the sash area and can be clamped on the frame side. The clamp in the frame groove thereby considerably simplifies assembly, makes it independent of many corner connector geometries in the profile frame, and distinguishes itself as an “extremely economical method” due to substantial savings of both time and costs. In addition, according to the producer it is solid-interlocking and positive-fitting. While the combination of clamping block, clamping strip and piercing screw provides the interlock, the piercing screw running through the profile guarantees the positive fit as the bearing can no longer be moved. All together, this results in a clear distinguishing feature as well as a permanent security advantage.

In the standard version, the innovation is already equipped for window sashes with a weight of up to 100 kg. Thanks to the additional use of the load transfer in the sash and frame part, the load-bearing capacity increases to 150 kg. In addition, the concealed hinge-side appearance offers both a trend-oriented aesthetic advantage and positive logistical effects (no cover caps, fewer components). Last but not least, the “Designo Alu” is fully compatible with the modular “NT” hardware system and so can be supplemented with all matching accessories such as arrestable ventilation and arrestable brake stays. The comfortable opening angle of 100 degrees and the burglary protection function up to RC 2 rounds off the portrait of this new addition.

### **Ease of operation**

An additional novelty in the “NT” modular system: the lever-operated espagnolette Plus. It was particularly convincing in handling, because the 2-component lever (zinc die-cast/TPE) can be easily moved perpendicular to the dummy mullion. The rubber-coated handle surface gives it a pleasant feel. When the window is opened, it is virtually flush with the overlap (170°). This almost completely excludes the risk of injury as well as damage to the passive sash caused by slamming closed the active element.

The user-friendly, “NT” window with standard-fitted, preassembled lifting mishandling device is suitable for installation in timber, aluminium and PVC profiles. In the latter case, it achieves RC 2 class without additional components. And it was said that it can be combined with constant espagnolettes, as well as espagnolettes arranged in the centre.

### **Smooth efficiency**

Roto describes this implementation of a practical, added-value idea as “small but powerful”. The concrete result: “SoftClose”, the new, easily retrofittable window damper for PVC profiles. It also solves the well-known and troublesome noise problem that arises when a tilted window sash suddenly slams shut due to a sudden draught. While the current comfort module exerts a strong braking force, it is also more “moderate” in cases that are not as drastic. The damping effect therefore depends on the speed at which the window is slammed shut.

To ensure exceptionally gentle closing, “SoftClose” only needs to be screwed into the profiles. The number of dampers required depends on the size of the sash formats. by the way, the ingenious growth in the “NT” range in no way impairs the safety and tightness of the windows. Instead, it is soft to both persons and material.

### **Demonstrated competence**

Roto also presented special examples to meet the increasing demand for barrier-free applications. This included the connection of the surface-mounted Tilt&Turn and Turn-Only hardware “PowerHinge” with the “Eifel TB” threshold, which meets the requirements of DIN 18025. In this configuration, the aesthetic hinge side allows for heavy, room-high windows and balcony doors made of timber or timber/aluminium with a maximum sash weight of 200 kg. A special

height-offset pivot rest is used here. The conclusion of the construction supplier in the Franconian metropolis: “NT therefore means competency for barrier-free construction.”

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*Photo captions*

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The “NT Designo” concealed hinge side has also been available for aluminium profiles with 16 mm hardware groove since the “fensterbau/frontale”. Roto emphasises that with its positive-fit and friction-fit, easy-to-install clamp on the frame side, this new product boasts a “definite unique feature”.

**Photo:** Roto

**NT\_Designo\_Al.u.jpg**

For the “fensterbau/frontale”, Roto significantly expanded its modular and universal “NT” hardware system. This also included the “NT Designo” concealed hinge side for aluminium profiles. Due to an additional load transfer device in the sash and frame part, the new product is suitable for elements up to 150 kg. In the photo: a corner hinge.

**Photo:** Roto

**NT\_Des\_Al.u\_Eckb.jpg**

According to Roto, the handling of the new “NT lever-operated espagnolette Plus” is especially convincing. That’s because: The 2-component lever can easily be moved perpendicular to the dummy mullion. The preassembled lifting mishandling device fitted throughout the product range expansion is suitable for installation in timber, aluminium and PVC profiles.

**Photo:** Roto

**Stulpfluegelgetr\_Plus.jpg**

Roto characterised this implementation of a practical, added-value idea as “small but powerful”. The concrete result: “SoftClose”, the new, easily retrofittable window damper for PVC profiles. The ingenious growth in the “NT” range ensures that tilted sashes are closed exceptionally gently.

**Photo:** Roto

**SoftClose.jpg**

Roto also presented special examples to meet the increasing demand for barrier-free applications during the “fensterbau/frontale”. This included the connection of the surface-mounted Tilt&Turn and Turn-Only hardware “NT PowerHinge” for heavy, floor-to-ceiling windows and balcony doors with the “Eifel TB” threshold. It meets the requirements of DIN 18025.

**Photo:** Roto

**PowerHinge\_Barrierefrei.jpg**