

TECHNOLOGY IN MOTION

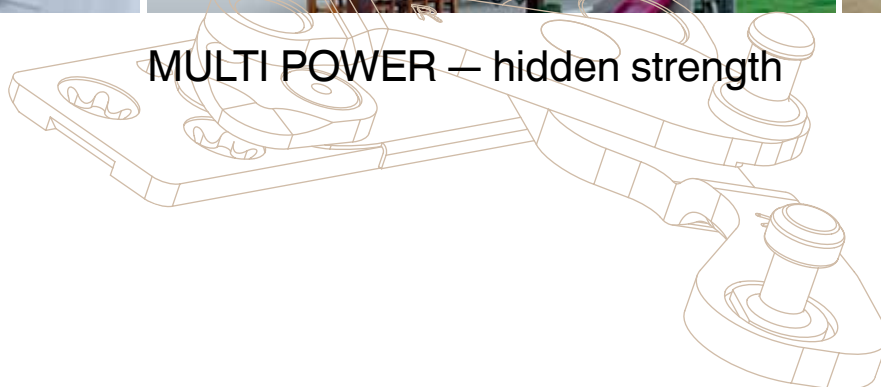


# MACO MULTI

TURN-ONLY AND T&T HARDWARE



MULTI POWER — hidden strength



FULLY CONCEALED  
HARDWARE

**MACO  
MULTI**



The completely concealed hinge-side is synonymous of a new generation of tilt&turn hardware technology. The MULTI POWER is thermally effective burglar-resistant security with a sash weight of 130kg for windows and 150kg for casement doors.

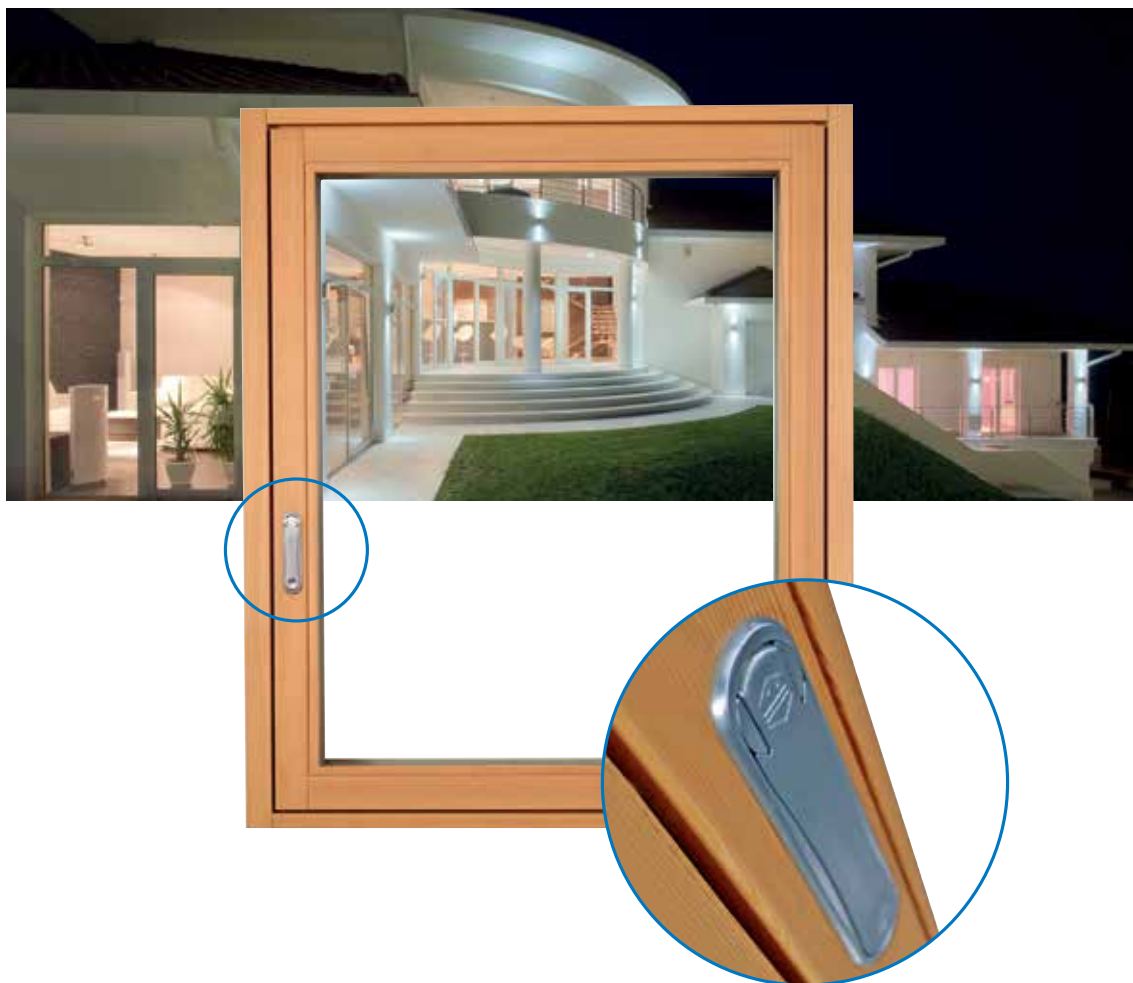
The flush design of optional timber or plastic elements underpins interior architecture in the 21st century. Adapting the MULTI POWER to thresholds combines the hinge-side requirements of the barrier-free threshold in the sense of DIN 18040 or ÖN B 1600 with the design-oriented advantages of invisible fittings.



**Flush-mounted and fully concealed, without the need for additional load distribution**



## Benefits for your Sales personnel



### It's a must

- Burglar resistant security up to RC 3 potential
- Large opening width with 100° integrated end stop in the hinge positions
- No visible fittings
- High-performance hardware and modern, purist design
- Allows the use of narrow frame profiles
- Optimal visibility, maximum daylight: The sash turns towards the frame in the end setting
- Very low clearances - from 4 mm (profile related)
- No breaks in the seals
- No thermal bridges
- Flush-mounted window systems with shadow joints from 4 mm: The hinge opening curve ensures that the sash overlap cannot move in the frame rebate on the bearing side.
- No condensation
- No guide slots: servicing effort is negligible
- The aesthetic upgrade PVC cover and window handle available flush in the casement
- Fully concealed hardware can be used in combination with threshold



## That's what everybody wants



### **Optimally sealed thermal insulation**

Fully concealed design and high sash loading capacity bring optimal thermal insulation values. Up to 150 kg sash weight even accommodates triple glazing effortlessly. The hardware is protected in the rebate area where it does not come into contact with the air inside the room, and thereby effectively avoids thermal bridges. Both aspects, the concealed fittings and the triple glazing have a decisive influence on the thermal coefficient.

### **Reliable burglary protection**

The compact design allows installation of the security strikers right into the corners. The interaction between the i.S. security roller cams and the i.S. security striker plates means that the i.S. locking device automatically sets the air gap between 10 and 14 mm. The contact pressure of the i.S. cam can also be adjusted.

Burglary protection up to resistance class RC 3 is guaranteed for MULTI POWER.

### **Permanently clean**

The MULTI POWER does not have guide slots where dirt can collect. The pivot post is concealed beneath the cover. This not only looks good, it also provides protection from dirt deposits, which affect the hardware from the outside.

If you are looking for a robust hardware surface over the long term, TRICOAT-PLUS should be your first choice.

### **Timeless beauty**

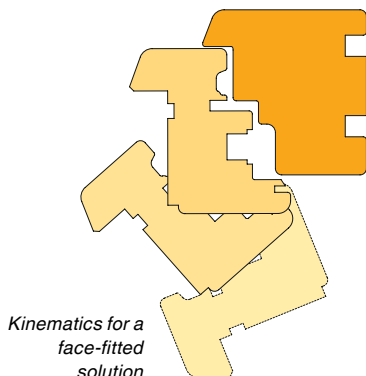
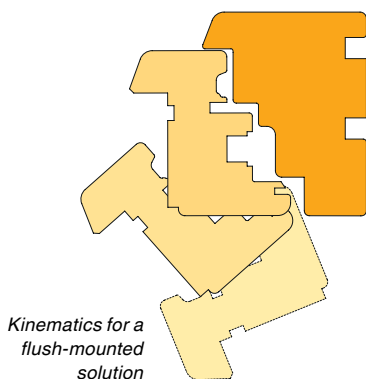
The flush, fully concealed design means that only the window handle is visible at the sash. The sash and frame combine to form a blending element.

### **No obstacles**

The fully concealed MULTI POWER hinge version can be used in combination with a threshold in order to implement/convert to a barrier-free design as per DIN 18040 or ÖN B 1600.



## Your benefits – as a window manufacturer



- Only 4 mm clearance required
- No need for additional load distribution on flush-mounted or face-fitted windows up to 130 kg and French doors up to 150 kg sash weight
- Excellent thermal insulation due to fully concealed design
- The high sash loading capacity accommodate triple glazing units
- The unique kinematics enables an opening angle of 100 degrees
- Hinge components are equipped with an end stop
- The optional opening and turn restrictor, as well as the integrated sash lifter, ensure safe operation of the window.
- No open guide slots in the pivot post hinge
- Can be combined with threshold
- Fully-automated production potential
- End stop for height-adjustment screw
- preventing incorrect adjustment
- Integrated anti-slam device for tilt position or tilt restriction optional
- Side-adjustment in scissor stay via step rivet, no self-readjustment potential
- Easy installation since no optional components up to maximum weight

### Unique hinge kinematics

When opened, the sash first turns inwards away from the frame. This enables a flush unit design.

The sash does not stop there but moves back towards the frame again in its end setting. This results in optimal visibility.





## Certainly the right choice



### Advantages of compact construction for corner and scissor stay hinges

- No need to drill holes in the frame for positioning pins
- Horizontal center locks and burglary protection possible even for extremely narrow sashes
- MULTI POWER in timber from a sash rebate width of 24 mm
- Milling jigs under 24 mm available
- PVC cover for corner hinges, logo imprinting feasible
- Pivot post and corner support adjustable in three dimensions (height, side, gasket compression)
- All setting points are readily visible and easy to access
- Profile packers for all conventional PVC profiles
- Drilling jigs for pivot post and scissor stay hinge, 3-sash windows and thresholds
- Incredibly compact base plate 3-sashed pivot post

The MULTI POWER holds the weight - no need for extra support. This is because the pivot post and scissor stay hinge have been modified to avoid the need for integration of a additional load distributing component.



*Cover with window manufacturer logo possible.*

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## Product description



The hardware is tested and designed in accordance with test standards QM328 and RAL GZ607/3.



## Technical applications

- MULTI-MATIC hardware system
- Windows up to 130 kg sash weight
- Casement doors up to 150 kg sash weight
- For timber and PVC
- Flush-mounted or face-fitted window systems with shadow joints from 4 mm
- For 9 and 13 mm hardware axis
- For aluminium systems with 16 mm fitting groove
- Sash rebate widths from 370 up to a maximum of 1.650 mm
- Sash rebate heights from 360 up to a maximum of 2.800 mm
- For single-sash, doublesash and multi-sash windows



## Product description



The hardware is tested and designed in accordance with test standards QM328 and RAL GZ607/3.

### Pivot post/scissor stay hinge

- Designs for turn&tilt, tiltfirst, turn-only or tilt-only
- Designs with or without night-vent
- Gasket compression adjustment in the scissor stay arm
- Uniform faceplate for turn&tilt and tilt-first version
- Maintenance-free PVC sliding carriage in the scissor stay
- For timber and PVC
- For 9 and 13 mm hardware axes
- Approved for all MACO system tests (burglary resistance) up to RC 3
- All faceplates with gripping positions (can be processed fully automatically on the sash)
- Corner support with gripping position (can be processed fully automatically on the sash)
- Optimised lubrication, so grease cannot be seen or felt
- Pivot post and corner support with adapter for thresholds (for timber and PVC)
- End stop for height-adjustment screw
- Side-adjustment in scissor stay via step rivet (no self-readjustment possible)
- Integrated end stop for corner and scissor stay hinge
- Integrated anti-slam device in scissor stay faceplate, tilt restriction optional







## Product description



The hardware is tested and designed in accordance with test standards QM328 and RAL GZ607/3.

### Pivot post for the threshold



- For timber and PVC
- For 13 mm hardware axes
- Realisation of barrier-free construction as per DIN 18040 and ÖN B 1600 with suitable threshold made possible
- Packers for thresholds for a perfect fit/rear finish for the threshold profile
- In conjunction with our cover cap, the lowered pivot post forms a visually appealing, closed unit.
- All the advantages of a threshold can be used in conjunction with the fully concealed hardware.



Version for timber



Version for PVC



## Notes

A large rectangular area filled with a fine grid of light gray lines, intended for taking notes.



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