

TECHNOLOGY IN MOTION



MACO MULTI

TURN-ONLY AND T&T HARDWARE



DT160 – a powerhouse for more thermal and visual comfort

PIVOT POST AND
SCISSOR-STAY HINGE
FOR A TIMBER LOAD
CAPACITY OF 160 KG



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Large surfaces, lots of glass, lashings of light, and ideally insulated. Modern construction and living combine large-scale window formats with extremely high energy efficiency requirements. Our hardware stays on top of this trend for ever heavier window units.

The new MACO hinge-side can handle heavy timber casement doors up to a sash weight of 160 kg and thereby expands the existing double pot program – while maintaining full compatibility with the existing MULTI-MATIC parts.



Extended performance range with new features

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For heavyweights



With a load capacity of 160 kg, the double pot hinge can be used by the majority of timber casement door manufacturers.

This means that triple or even quadruple glazing for maximum insulation values is not a problem. Additional screw holes in the pivot post and scissor stay

hinge ensure the necessary load distribution and a secure hold. What's more, the new hinge-side can be used for burglary-resistance grades up to RC 3.

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So many good reasons to choose the double pot 160 kg



Timeless design

Attractively shaped cover caps cover the pivot post and scissor stay hinge, thereby ensuring an attractive look. The new covers have the same design as the existing

ones, which means they can be combined as desired. What's more, all new cover caps also match the DT130 range. This means maximum flexibility for you. In addition,

the routing required for the 4 mm air gap design is also now concealed underneath a recess cover cap.



Attractive appearance guaranteed – the necessary routing on 4-gap systems is concealed by covers

Easy maintenance

An integrated lubrication hole, which now allows greasing of the rebated

corner support during operation and without unhinging the window unit,

ensures quick and cost-effective maintenance of the pivot post.



Optimal thermal insulation

The new double pot basic profile consists of two-component PVC. This means that two different material hardnesses are combined on a component for the first time. The solid, harder body is completed with a sealing lip and a moulded seal on the underside made of softer plastic. The sealing lip ideally compensates for the gaps in the gasket level created by the rebated scissor stay support arm. In addition to the low thermal conductivity of both materials, this ensures that hardly any condensation forms, while the thermal performance is improved.

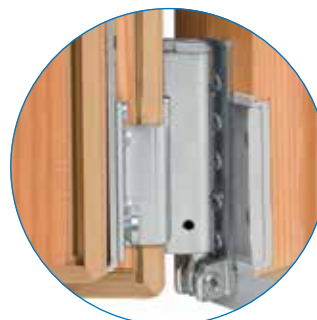


Improved thermal performance thanks to PVC sealing lips

The rubber seal on the bottom of the double pot basic profile also provides height compensation in the event of slight variations in processing.

Low stockholding

The range of pivot posts and scissor stay hinges has been considerably reduced for 12-gap systems. This makes logistics easier for fabricators and ensures low stockholding costs.

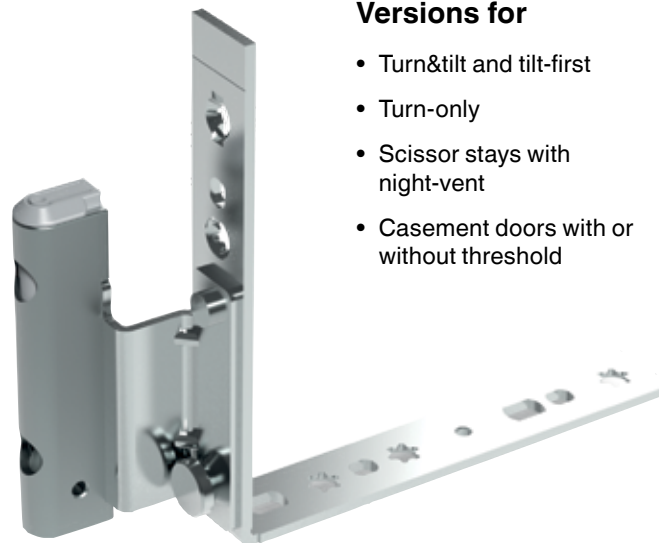


The rubber gasket at the bottom compensates for defects in workmanship





Pivot post and scissor stay hinge product description



Integrated lubrication hole for quick and easy maintenance

Versions for

- Turn&tilt and tilt-first
- Turn-only
- Scissor stays with night-vent
- Casement doors with or without threshold

settings/maintenance

- Rapid maintenance of the pivot post thanks to the integrated lubrication hole in the rebated corner support
- Corner support height adjustment ± 2 mm
- Pivot post side adjustment ± 2 mm
- Gasket compression adjustment in the scissor stay arm
- Gasket compression over the central locking system

Description

- Pot depth 8 mm
- Double pot basic profile made of PVC with sealing lip and seal on the underside
- Pivot post clearance 12/18, side 20 mm, bottom 1.5 mm
- Scissor stay hinge clearance 12/18, side 20 mm, top 7.5 mm
- Secure positioning of the pivot post above a sash weight of 100 kg thanks to $\varnothing 8$ mm supporting dowel below the pivot post
- Uniform routing depth for the pivot post and scissor stay hinge on 4-gap systems: 20 mm for 9V, 24 mm for 13V
- Uniform screw pattern for pivot post and scissor stay hinge: 7 screws each
- Routing, drill-hole and screw pattern possible with power unit
- External screw holes closed with Zamak on scissor stay hinge only the top screw needs to be set.

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Compatibility with existing parts

- Scissor stays and rebated scissor stay support arms from the existing double pot range (DT130)
- Rebated corner supports up to 130 kg from existing DT130 double pot range above 130 kg new rebated corner supports from DT160 double pot range
- Dust cover cap and cover of the rebated corner support from existing double pot range (DT130)
- “Short” pivot post cover cap from existing double pot range (DT130); new “long” pivot post cover cap
- New cover cap for scissor stay hinge with integrated check for correct positioning of the scissor stay hinge pin
- Routing covers for 4-gap systems are separate items for clipping onto the hinge components

Technical application range

- MULTI-MATIC hardware system
- Versions:
 - 4/15-9
 - 4/18-9
 - 4/18-13
 - 12/18-9
 - 12/18-13
 - 12/20-9
 - 12/20-13
- Sizes same as existing double pot range (DT130), but heavier casement doors are possible:
 - Sash rebate width from 260 to a maximum of 1,650 mm
 - Sash rebate height from 270 to a maximum of 2,600 mm
 - Casement doors up to a sash weight of 160 kg
 - Separate application diagram





Advantages for fabricators

- Expansion of the double pot range
- Easy fabrication as the double pot drilling-hole pattern is the same as the existing double pot range (DT130)
- Can be combined with existing double pot range (DT130)
- DT160 scissor stay hinge cover cap is compatible with DT130 scissor stay hinge
- Scissor stay hinge cover cap with integrated check for correct positioning of the scissor stay hinge pin
- “Short” pivot post cover cap is compatible with both double pot ranges
- “Long” DT160 pivot post cover cap is compatible with the DT130 pivot post
- Dirt cover and cover for the rebated corner support compatible with both double pot ranges
- Scissor stay hinge can be used in any version right and left
- Pivot posts can be used for windows and casement doors (no separate design)
- Compensates for production tolerances through seal on the underside of the double pot basic profile
- Easy efficient assembly: no sloped screw fixing required any more
- Uniform screw pattern
- Routing, drill-hole and screw pattern possible with power unit
- Uniform routing depth for the pivot post and scissor stay hinge in the respective 4-gap system

Benefits for the end user

- Heavier casement doors (triple and quadruple glazing possible)
- Optimum compensation for gaps in the gasket level on the rebated scissor stay support arm thanks to the sealing lip on the double pot basic profile, which means reduced condensation formation
- Unrivalled aesthetics with the 4-gap system thanks to routing covers
- Same attractively shaped appearance as the existing double pot range (DT130)
- Version with or without threshold possible for casement doors
- Rapid maintenance of the pivot post thanks to the integrated lubrication hole in the rebated corner support (no need to unhinge the sash)

