



TECHNOLOGY IN MOTION

Welcome to our World of Windows

Our solutions for your timber, PVC and aluminium windows



TIMBER

PVC

ALUMINIUM

Contents

Our promise	4
Our solutions	6
Multi Power, Multi Mammut, Multi Zero, E hardware, Security window, SBS Comfort Drive, SKA 20 Comfort Drive, Primat FL 190, Primat Compact 195, smoke and heat extractors, ConfigTool, turn-and-tilt hardware, tilt-and-turn hardware, Transit threshold, Tornado, Rustico, Comfort hardware, Espags	
Our accessories	34
Window shapes	36
Our surfaces	38



Windows all round We are here for you

We are the right partner for your windows. We think far beyond the individual hardware component. We offer you a variety of complete solutions for a wide range of requirements, including comprehensive services. Benefit from our many years of experience and we will realise your windows together.



Our promise Your benefits



Security

We specialise in burglar resistance and retrofitting. Trust in our years of experience in mechanical and electronic engineering.



Accessibility

We help you eliminate obstacles from your life with zero thresholds and easy-to-operate and automated elements.



Energy efficient

Improve your environmental impact with sustainable windows with gaskets and thresholds that perfectly match the hardware.



Surface protection

Silverlook-Evo and Tricoat-Evo make hardware even more resistant, durable and smooth-running for added convenience during installation and operation.






Smart Home

Our smart building components make living more comfortable and secure. Ask us for details.



Partnerships

We support you from the initial enquiry through to after-sales service. Our employees are at your side.



Your success Our service

As your full-service provider, we are at your side throughout the entire process, from element design to after-sale support. We help you with services relating to standards, products and digitalisation, and we are here to answer any questions you might have.



Your benefit Our sustainability

Sustainability is the basis for construction that is ready for the future. You can rely on us: as your supplier, we understand sustainability holistically – ecologically, socially and economically. The Austrian »Circular Globe« label, for example, certifies our efforts regarding the circular economy according to strict criteria.



Multi Power

Concealed hardware? We've got that covered.

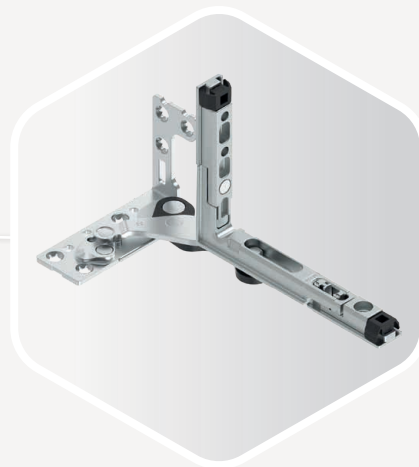
Today's design is also noted for having concealed hardware and flush surfaces. With the Multi Power hinge side, you can fulfil the aesthetic requirements of your customers without compromising on functionality. This system supports multi-sash units and allows particularly convenient window cleaning thanks to its evenness.



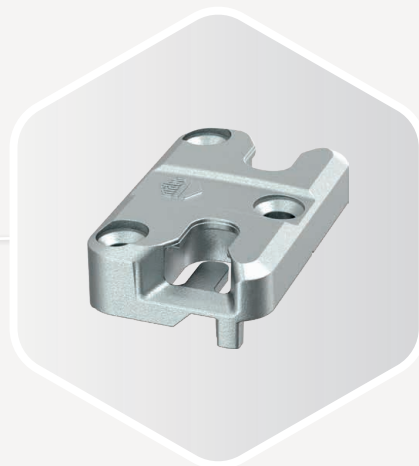
LIFT AND
MISHANDLING DEVICE

Double-sash PVC window with
concealed **Multi Power hardware**





**PIVOT POST AND
CORNER SUPPORT**



STRIKER PLATE

Invisible hardware, please

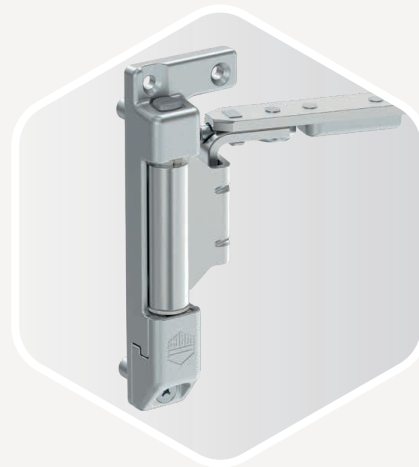
The centre lock with the two-hand turn-and-tilt hardware disappeared from view in the mid-1970s – only the hinges were still visible. Thanks to Multi Power, these hinges are also invisible now, which is big plus point for aesthetics and cleanability.

Multi Mammut

The power pack

Giant windows are in demand like never before. This is where our Multi Mammut heavy-duty hardware shines. Their solid, durable bearing parts allow you to lift timber elements weighing up to 220 kilograms, and PVC elements weighing up to 180 kilograms. We think you'll agree that's quite impressive.

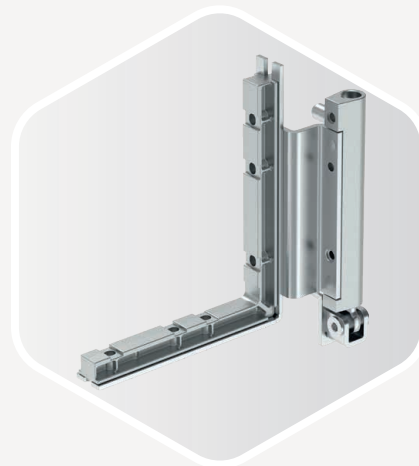
Double-sash timber window with
Multi Mammut heavy-duty hardware



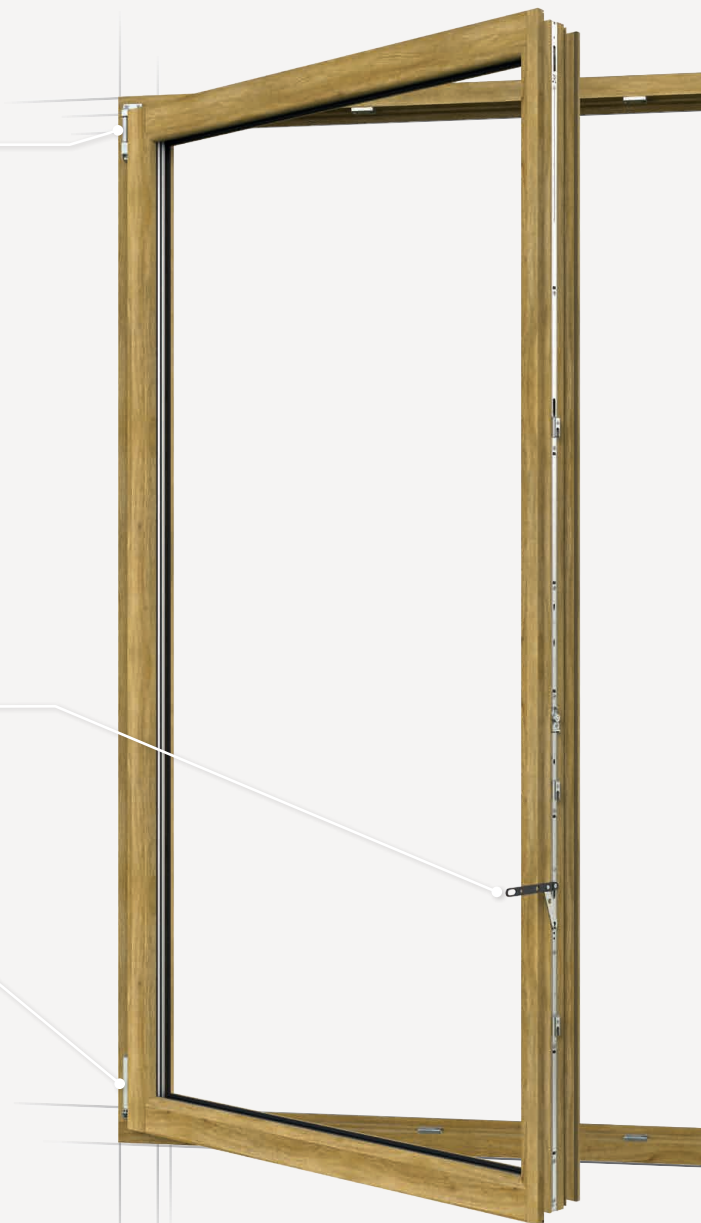
SCISSOR STAY HINGE
Made from highly stable materials

French casement gear

Enables convenient operation of the double-opening sash



PIVOT POST AND CORNER SUPPORT
Made from highly stable materials





SAFETY PIN
Prevents the sash from falling out (optional)



UNITY
Stainless steel handle in modern design

Heavy weight?

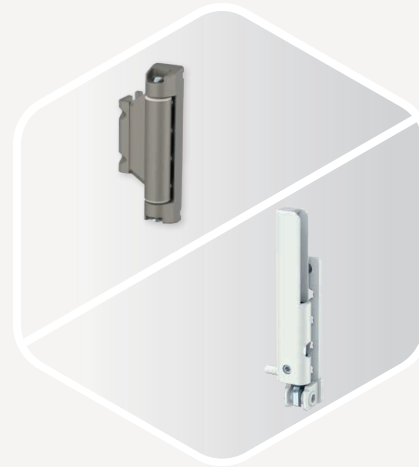
Why do today's windows sometimes weigh 150 or 200 kilograms? The answer is multi-pane glazing – for sound insulation, security and high thermal insulation. In modern buildings, there is also an increasing demand for huge window elements that let large amounts of light in.

Multi Zero

Barrier-free beauty

Does perfect accessibility – such as a threshold that doesn't protrude one millimetre from the floor – have to conflict with elegant design? Not with MACO. We let you implement attractive balcony doors whose good looks don't require sacrificing comfort. Realise real barrier-free access for your customers with our impressively secure solution – tested up to RC 2.

Double-sash PVC balcony door
with **Multi Zero** zero-barrier
threshold system



PIVOT POST AND SCISSOR STAY HINGE

Also available in colour with
high-quality powder coating



MULTI ZERO THRESHOLD

Hook fastener for zero-barrier
threshold systems





System solutions

for many profile houses – you tell us the profile system you are using and the impact-free threshold, and we will find the right solution for you.



MULTI ZERO

Hook fastener for zero-barrier threshold systems

Life without obstacles

Accessibility makes everyday life easier – for everyone. A high threshold, for example, is just as much of an obstacle for a wheelchair user as it is for a father with a pushchair. A floor-to-ceiling window allows bedridden patients to look outside. And the barrier-free floor grille in front of the balcony door? Designing the spacing between the ribs in compliance with standards prevents injuries.

Accessibility is therefore more versatile than you might think at first glance as it removes obstacles and makes life safer and more comfortable.

E hardware

Barrier-free operation

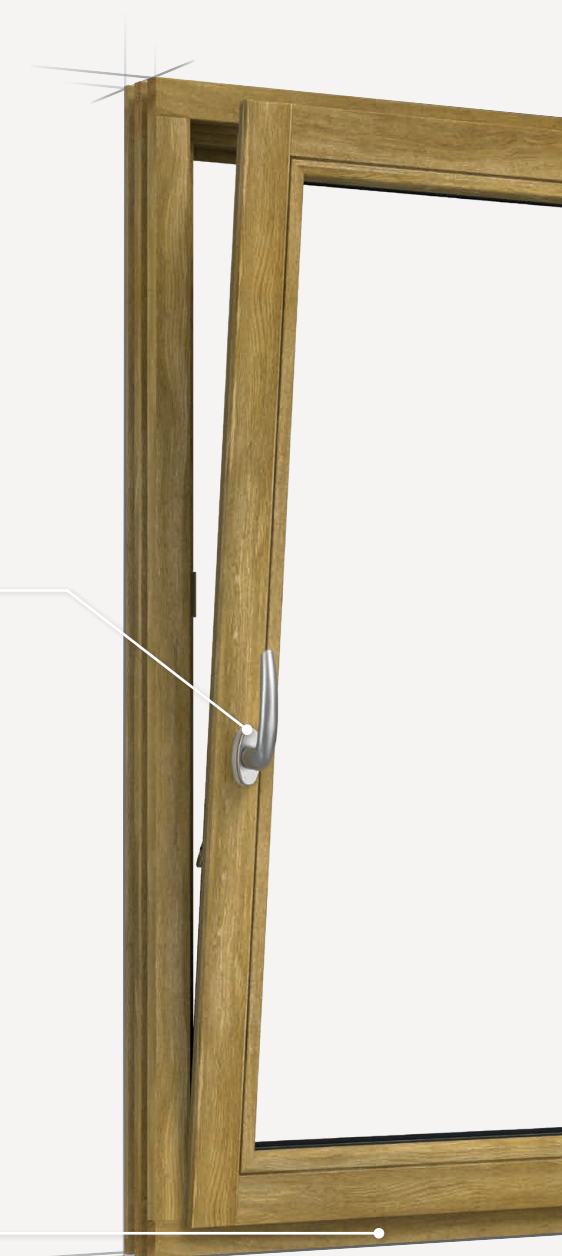
Need to ventilate a room but the window is hard to reach? We've got the solution. With MACO's E hardware, your unit can be tilted automatically via a button or the smart home automation system. The window can still be operated manually as this is very easy to implement with our standard hardware components.



CONTROL
Manual or automatic operation

Simple assembly

No milling of the frame necessary



Timber windows with
E hardware and handle



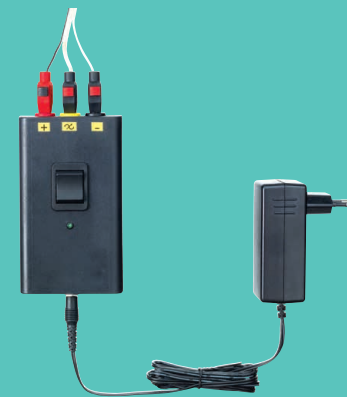
SMART HOME CAPABLE



E HARDWARE
Automated window tilting

No fear of electricity

Test the function of the E hardware during installation in your production facilities with the wire-free commissioning device. This means that your service as a window constructor is usually deemed to have been provided (note the tender requirements), even if the electrician only gets to work later.



COMMISSIONING DEVICE

Security windows? But of course!

The number of burglaries has fallen slightly, fortunately, but security remains one of our most basic human needs. Realise windows that meet this requirement with MACO. An RC 3 security class element makes life difficult for dodgy characters. We also offer you unique features such as innovative wireless sensors and the self-locking gear. Also in our range are lockable window handles, such as our safe with locking cylinder or push button, which complies with the RC 3 standard.

Timber windows with resistance class 3 **security components**

Electronic security

SENSE BY MACO
Smart home capable



eTRONIC
Smart home capable



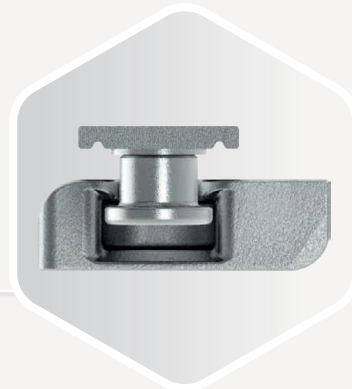
REED CONTACT



Mechanical security



ACTUATION LOCK
For secure opening
of the centre sash



**SAFETY
ROLL PINS**
With security
striker plate



SAFE HANDLE

Reliably tested

MACO is your specialist for burglar resistance. Our electronic and mechanical solutions are a strong defence against thieves. We are also your licensor, which means that we reliably test your security for you. This allows you to prove the burglar resistance of your window elements at a favourable price. Just ask us.

SBS Comfort Drive Electric scissor stay

Structural fire protection features such as smoke extraction systems protect both people and property. In an emergency, the SBS Comfort Drive electric scissor stay ensures that smoke can escape. Within 60 seconds, even large and heavy windows can be opened or closed as well as controlled via the smoke and heat extractors. SBS Comfort Drive is also suitable for controlled natural ventilation.



ELECTRIC SCISSOR STAY
Opens the window in an emergency

Aluminium windows with
SBS Comfort Drive
electric scissor stay

SKA 20 Comfort Drive

Chain drive

Are you looking for a compact chain drive for windows and façade elements, skylights or skylight domes? The SKA 20 Comfort Drive can be flush-mounted or integrated into the profile, with additional locking drives for increased airtightness also possible. This clever solution works very quietly and, in addition, several drives can be conveniently networked with each other via the HAUTAU interface. These can then be operated via smartphone or tablet, for example.



CHAIN DRIVE



Aluminium window with
SKA 20 Comfort Drive chain drive

Primat FL 190

Fresh air for public buildings

Skylight windows are not only the right choice for schools, hotels and hospitals. With the Primat FL 190 skylight opener, windows can be conveniently controlled by hand. This clever system, ideal for rectangular, slanted and arched windows, opens, closes and secures bottom-hung windows made of timber, aluminium and PVC. The optional operation of the central locking system ensures increased airtightness and burglar resistance. With Primat A, there is also a solution for outward-opening top-hung sashes.

PVC windows with
Primat FL 190 skylight opener



SECURITY ROLL PIN
Increased protection
against burglary and
wind load

Operation

Hand lever or narrow
spindle drive

Primat kompakt 195

Automatically compact and quiet

Use the Primat compact 195 automatic skylight opener for natural ventilation (230 volts) or smoke extraction (24 volts). Both variants are super quiet when opening and closing, and also harmonise with many profiles – even narrow ones. They are available with one or two scissor stays and can be used with rectangular or slanted windows. The clever automatic solutions also offer various speeds. These skylight openers are suitable for all materials and can be operated smartly.

Increased airtightness

Through connection to
central locking



TILTING THE SKYLIGHT WINDOW



Smoke & heat extractor

Fast response

Do you need controlled natural ventilation (CNV) and safe smoke and heat extraction (SHEV)? We offer you customised solutions for the automatic opening and closing of your windows and façade elements. This can be controlled manually via push-button or intelligently via sensors, or control can be combined with a building management system. In the event of a fire, the SHEV systems sound the alarm as quickly as possible and ensure that smoke and heat are dissipated. The alarm can be triggered by fire switches, smoke or thermal detectors.



SHEV MODULE CENTRAL RZ 2



FIRE SWITCH

ConfigTool

Simply configure

Our ConfigTool configures and operates MACO and HAUTAU products conveniently at the touch of a button. For example, you can set the lifting speed or open and close your element. The clever software harmonises with Android, iOS and Windows operating systems. You can download it free of charge from the Google Play Store and the Apple App Store.



CONFIGTOOL



For Android



For iOS



For Windows





**The windows
are the eyes
of a house.**

Jules Amédée Barbey d'Aureville



Turn-and-tilt hardware

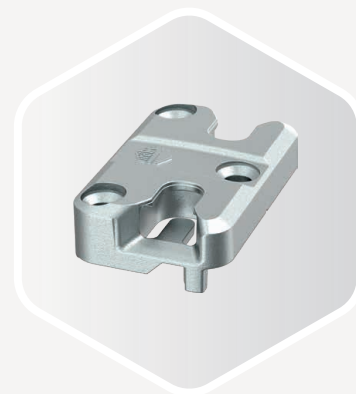
Simple doesn't mean boring

Does your customer want simplicity? Even a minimalist window can shine with features. With our products, you offer basic security against levering out with every window. And not forgetting the anti-slam, anti-lift and anti-jamming devices. Your element gets its finishing touch with optimum energy-saving ventilation.

PVC windows with
Turn-and-tilt hardware



ANTI-SLAM DEVICE



STRIKER PLATE



Tilt-and-turn hardware

A different kind of operation

Tilt-and-turn hardware is in demand when personal safety is at the top of the list of priorities, for example in schools or hotels. In combination with a lockable handle, only tilting is possible. This element can only be opened completely by authorised personnel with the appropriate key.



TILT-AND-TURN HANDLE LOCKABLE

The 180-degree position of the handle is only possible after unlocking with the key.



PIVOT POST

Concealed or surface-mounted

PVC windows with
Tilt-and-turn hardware

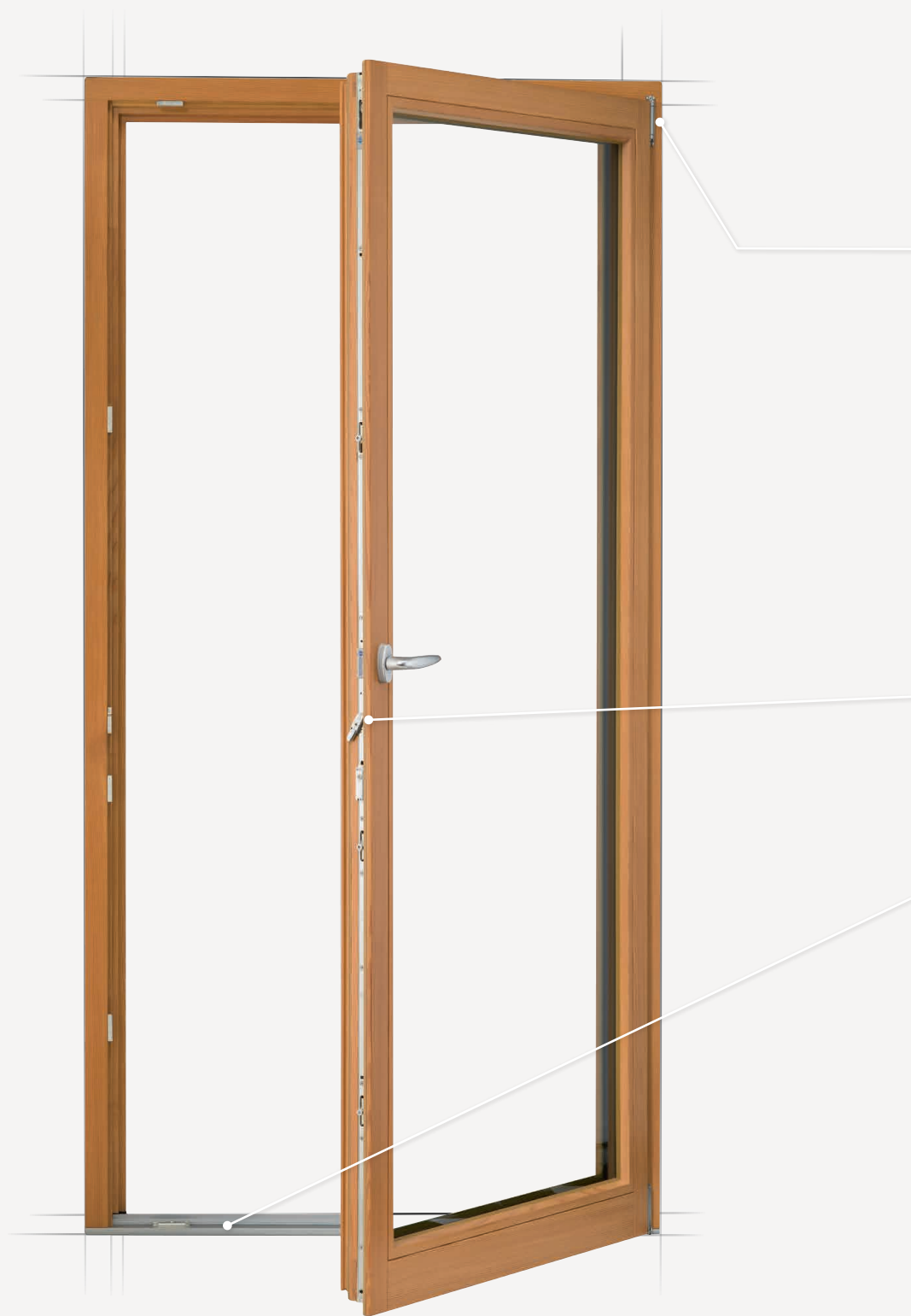


Transit threshold

Above average even in the standard version

This simple timber balcony door on a double-panel basis is impressive. The latch keeps the sash closed, while the thermally optimised pivot post and scissor stay, combined with the Transit threshold, increases living comfort. And the self-locking drive prevents tampering with the pins.

Timber balcony door
with double panel (DT 160) and
Transit threshold





GASKETS

For sashes and/or frames



SCISSOR STAYS

Thermally optimised, visible parts with high-quality powder coating in various colours



TRANSIT THRESHOLD

Alternative to the surrounding frame profile



LIFTING AND FAIL-SAFE DEVICE WITH DOOR CATCH

What can a threshold do?

Our Transit thresholds prevent the penetration of water and air and are suitable for all hardware and for various profiles. Say goodbye to condensation and the associated mould formation. A threshold also makes it easier to walk over the balcony door because it is much lower than the usual frame profiles. This also minimises the risk of falls and stubbed toes considerably.

Tornado

Turned and swung

It doesn't always have to be a traditional window – there are other ways, too. Turn and tilt windows are to Tornado what vertical pivot and swing windows are to our Multi-Matic hardware line. This means you can build elements with us that utilise a different mechanism, so you are also well-prepared for niche requirements.



FOLDING SCISSOR STAY



Optimum ventilation

The tilt opening removes warm stale air at the top while fresh air flows in at the bottom. This corresponds to ventilation with an open turn-and-tilt window

More space

Space-saving ventilation, as only half the sash takes up space in the room

Timber windows with **vertical pivot**
and **swing window hardware**

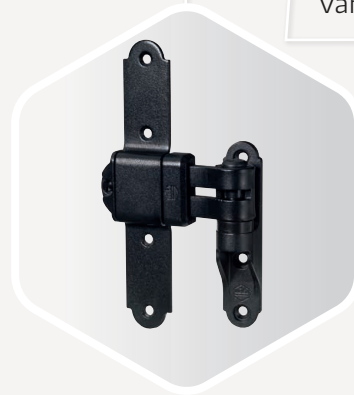


Shutter clasp

Wide range of variants



SHUTTER CLOSURE
Extensive MACO range



CLAMPS AND HINGES

Rustico

For all material worlds

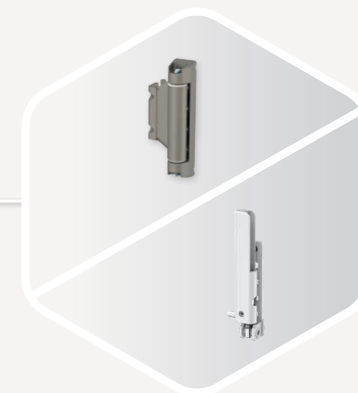
Is your customer trend-conscious? Then aluminium windows are the right solution, as they are easy to clean, robust and durable. Equipped with MACO products, they also boast basic security as standard. Finally, shutters can add the finishing touch. Rustico hardware are versatile and can also be used in minimalist, modern architecture.

Aluminium window with
Rustico

Comfort hardware

Tilting regardless of handle placement

Perhaps your customer is a wheelchair user, or a window is located behind the kitchen counter and thus difficult to reach. MACO Comfort hardware provides you with a practical solution here. It ensures unrestricted operation, as the handle is located where it is easily accessible – namely on the lower sash frame.



**PIVOT POST AND
SCISSOR STAYS**
Also available in colour
thanks to powder coating

Turn lock

Ensures easy
window operation

Long handle

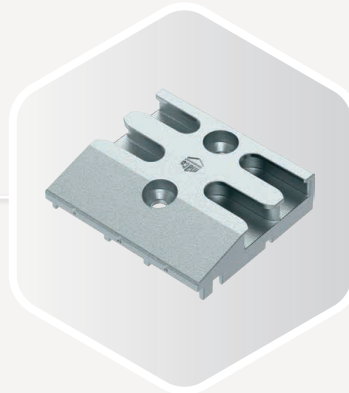
Enables convenient operation of the
window with little effort

Espags hardware Totally British

Outward-opening windows are particularly popular in the UK and Scandinavia. We take this into account with our Espags hardware. This hardware range opens up unimagined freedom – giving you new sales opportunities and your customers more space in the living room.

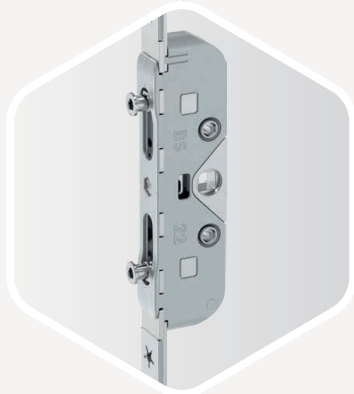
Tilt window

Opens outwards



NIGHT VENT

Ventilation – very economical thanks to special striker plates in the frame

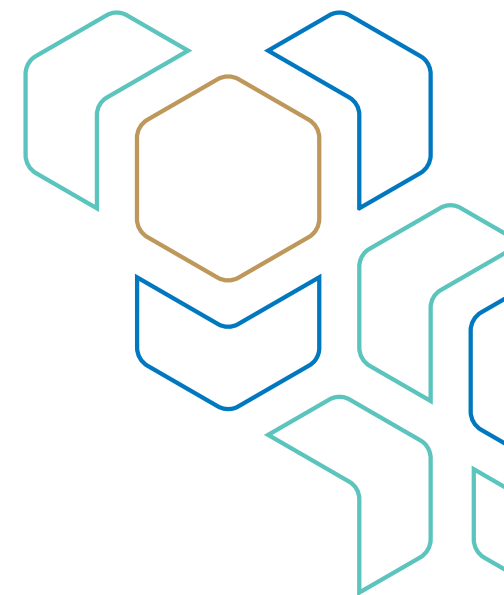


SECURITY

The special safety pin ensures secure and convenient locking of the sash

Aluminium windows with outward-opening
Espags hardware





Our accessories **Everything for your window**

From gaskets to window rebate valves – the right accessories complete your windows. Differentiate yourself from your competitors and offer your customers added value. You will find a selection from our range in this chapter and we will be happy to advise you on further options.



Window components

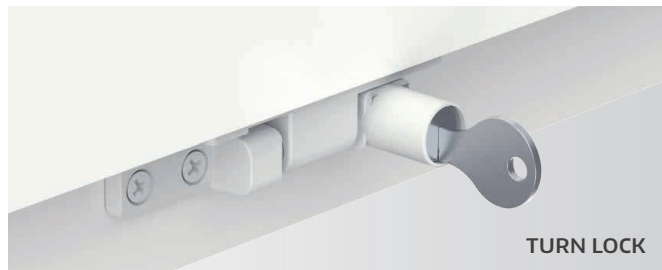
Everything from one source



WINDOW REBATE VALVE



COMFORT LOCK



TURN LOCK



TURN AND OPENING LIMITER



UNITY

HARMONY

RHAPSODY



SAFETY PIN



WINDOW AUTOMATION & SMOKE AND HEAT EXTRACTION

Window shapes

Everything is possible

The Multi hardware system offers you limitless possibilities. With MACO you can also realise creative shapes – from round, basket and segmental arches to slanted or rectangular windows with a single, double or multi-sash. And you also have a choice of opening types – turn, tilt, turn-and-tilt, swing, turn, slide-and-tilt. Everything is possible, in shape and colour.





The surfaces

An overview

Tricoat-Evo

When it has to be robust

Extreme areas of application require extreme protection. From coastal climates to acidic woods – with Tricoat-Evo you have the right coating. Easy to use and especially resistant to multiple influences.



Coating structure

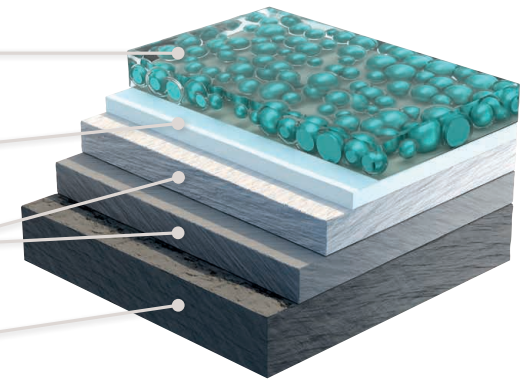
Tricoat-Evo

Tribological sealing with nanocapsules (Evo)

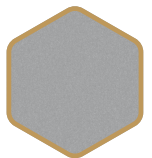
Thick-layer passivation

Extremely strong duplex coating: up to 600 HV (hardness according to Vickers)

Steel or Zamak



TRICOAT-EVO



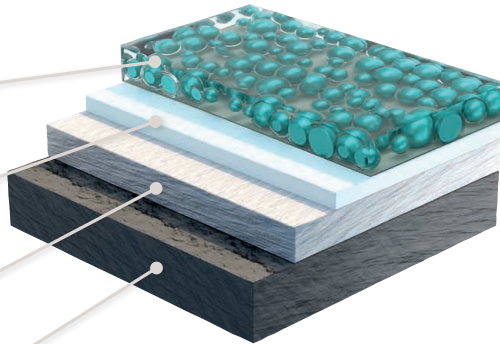
Coating structure Silverlook-Evo

Tribological sealing with
nanocapsules (Evo)

Thick-layer passivation

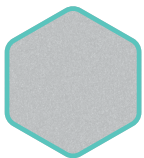
Microcrystalline
electrogalvanising

Steel or Zamak



Silverlook-Evo Good protection as standard

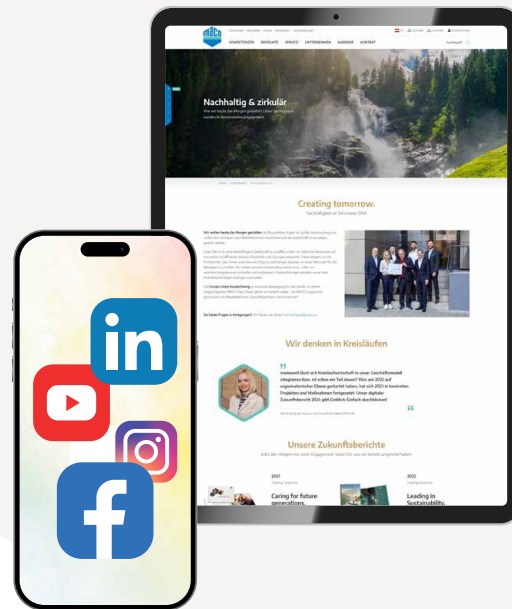
At MACO, Silverlook-Evo is standard, and is self-healing as well as self-lubricating. The coating with nanocapsules fills up small scratches, increases ease of use and makes hardware more durable and more resistant to corrosion.



SILVERLOOK-EVO

Would you like everything from a single source?

We provide you with hardware solutions for your large surfaces, windows and doors – for timber, PVC and aluminium. Experience our versatile range of systems, with comprehensive service included. Discover more on our website www.maco.eu or contact your MACO customer advisor. Follow us on social media for the latest news.



MACO near you:
www.maco.eu/contact



This document is constantly being revised.
You can find the current version at <https://www.maco.eu/assets/757986>
or by scanning the QR code.

Created: 01/2020 – Modified: 15.03.2024
Order no. 757986
All rights reserved. Changes may be made without notice.