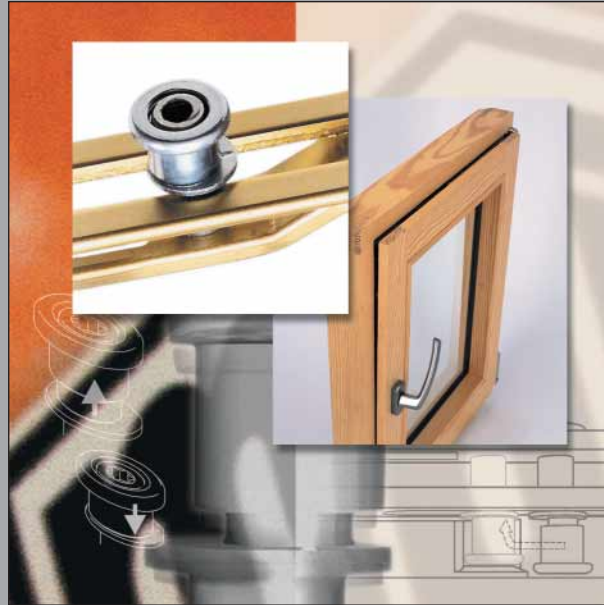




WE ADD VALUE TO WINDOWS



MULTI TREND SYSTEM

THE NEW TILT-AND-TURN WINDOW



multi trend



THE OBJECTIVES OF THE MULTI TREND SYSTEM

Multi Trend System

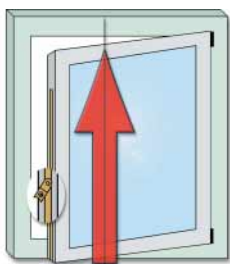
In the last two years the Multi Trend System for tilt-and-turn windows has reached an eminently strong position on the European market, and has created a new standard for quality windows.

The evolution of Maico products clearly does not stop: innovation continues and the level reached today offers a series of advantages to manufacturers of windows and doors and offers to the final user a product of considerable added value:

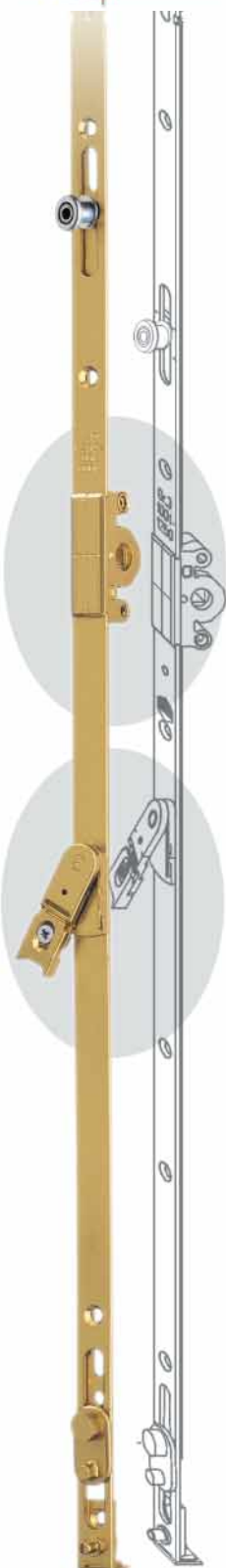
- ⬡ Protection against breaking and entering thanks to the new burglar-proof generation
- ⬡ Aesthetics
- ⬡ Easy operation
- ⬡ Simplification of the manufacturing process
- ⬡ Easy and reduced maintenance.



THE NEW TREND DRIVE GEAR



Maico is pre-fitting as standard, on drive gears for tilt-and-turn windows, a protective device against erroneous operation. Now this device has been further improved, and can perform a number of duties:



The sash-lift device

- Requires no adjustment or maintenance (tested over 15,000 operations);
- During closure, it lifts the window, with no great effort, to the correct position;
- Avoids erroneous operation (with open sash);
- Placed near the handle, in the ideal position to avoid sash torsion;
- Fitted as standard on all Trend drive gears.

MULTI TREND

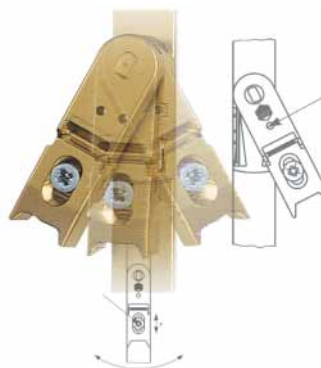
Handle fastening

- Inserts for handle fastening are pre-fitted as standard;
- suited for both metric M5 screws and for chipboard screws.



Adjustment of sash lift device

- Can be used on both sides: the operation direction is changed by pressing the device;
- Height adjustment ± 3 mm with a Phillips screwdriver.



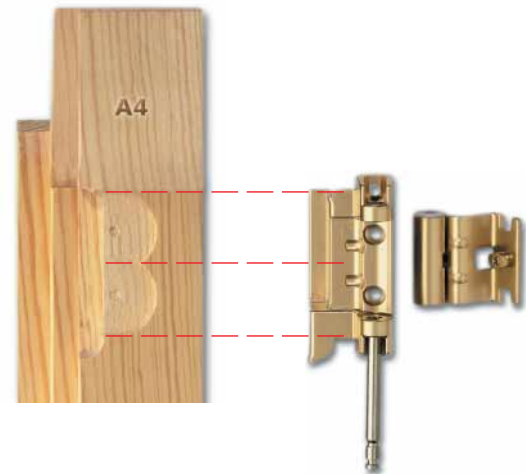
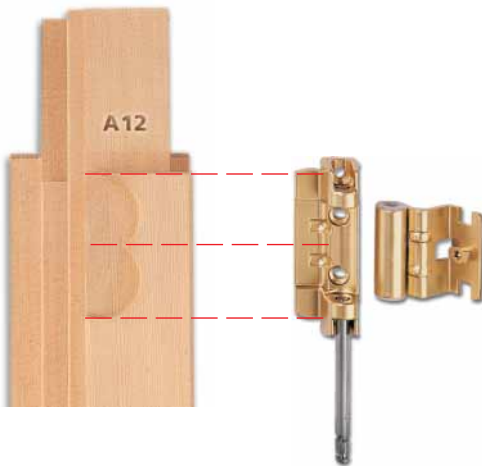
Springing tilt-swing

- Avoids abrupt sash swing when in tilt open position.



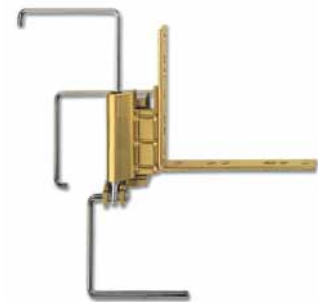
Stay support

- With rebate height 18 mm, the stay support remains flush;
- High stability due to inclined screw fastening;
- Braked hinges as standard avoid involuntary window movements;
- Can be used on both sides (only for 12 mm air-gap version);
- Guaranteed safety: the pin can be removed only with the window closed.

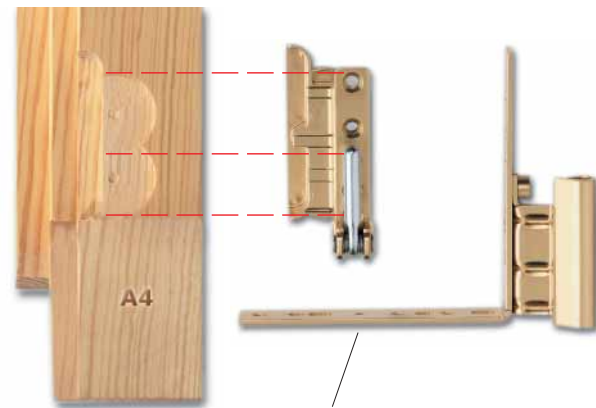
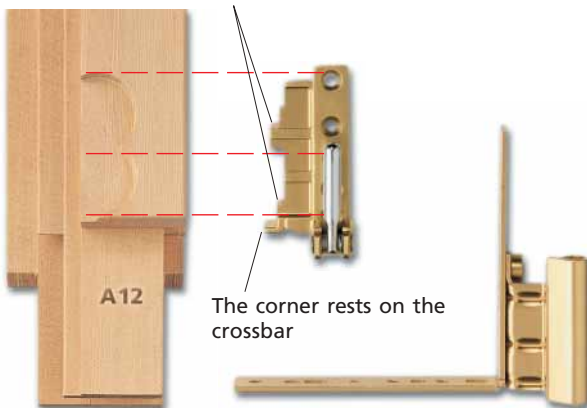


Corner hinge

- Can be used with any rebate profile;
- With rebate height 20 mm for air-gap 12 mm and 18 mm for gap 4 mm, the hinge remains flush;
- Three-dimensional adjustment with a hexagonal socket spanner;
- No screws on the side of the rebate;
- No need to cut the seals.



With the window closed or tilted, the sash cannot be lifted.



Can also be used for balcony doors/windows with threshold

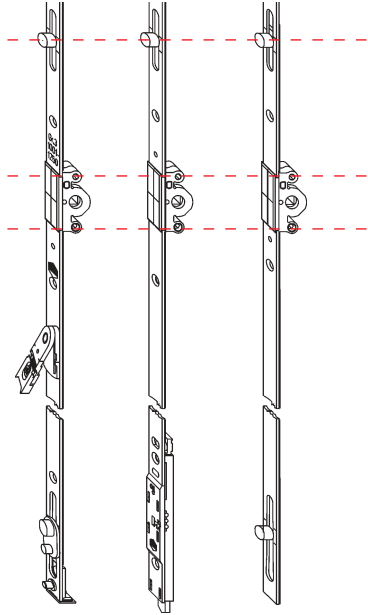
MULTI TREND

Rational assembly

- Milling can be done on separate parts before assembling.
- Same milling for hinges and stay supports; capacity load 130 kg;
- Disappearing screws;
- Covers in a range of colours.



HINGE DEVELOPMENT AND ESPAGNOLETTES



Adaptation on espagnolettes and inversion drive gear for standardised installation both for tilt-and-turn and turn windows

Espagnolette and inversion drive gear have threaded holes for handle fastening. These, together with standardised cam positions on T&T drive gears, assure a simple production process for both, turn and tilt & turn windows.

DEVELOPMENT

Timber Multi Trend hinge with screw fastening on the rebate side

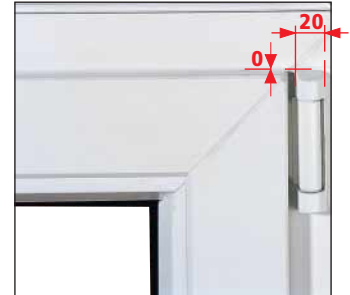
Greater stability of the hinge corner, thanks to the additional screw fastening on the rebate side.





Stay support

- Upper part flush with the rebate;
- Frictioned as standard, avoids involuntary window movement;
- Can be used on both sides;
- Lateral and pressure adjustment.

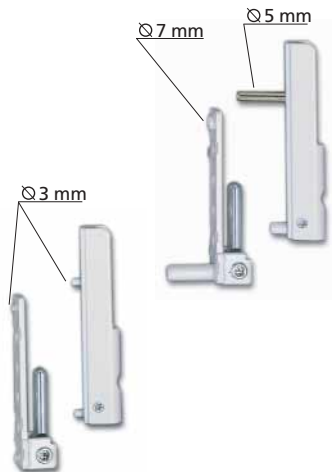
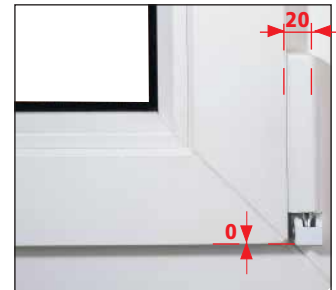


Rational assembly

- Assembly can be done on the separate parts;
- Same drilling template for hinges and stay supports;
- Coverings in seven different colours;
- Pins 7 or 3 mm;
- Capacity load 120 kg.

Corner hinge

- Lower part flush with the rebate;
- Adjustable in height, lateral and in pressure;
- Can be used on both sides.

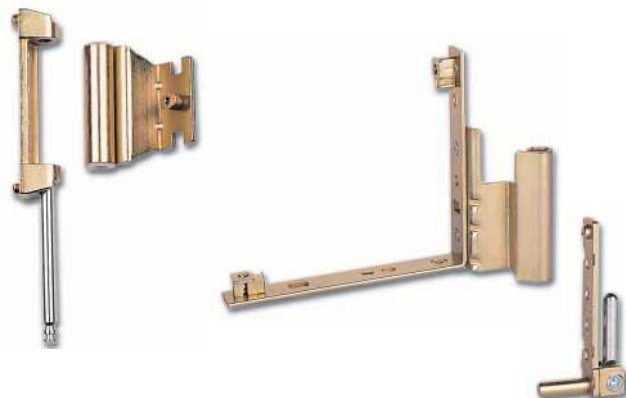


Three-dimensional adjustment

Advantages of Trend for mixed systems

The advantages of Trend are valid for aluminium-timber profiles too:

- Sashes "frictioned" against involuntary movement;
- hinge and stay support jut only 2mm with regard to the upper and lower rebates;
- frame hinge-part can be used on both sides;
- greater stability of the sash hinge-part thanks to the brackets.

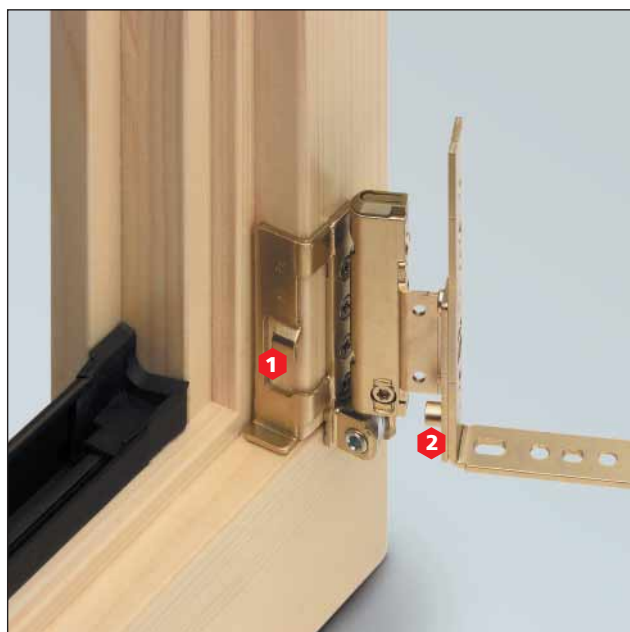




SYSTEM OF SUPPORT

Multi Trend hinge and stay support: rational and individual supporting devices

- ◈ Simple fitting with no templates thanks to the rebate on the frame.
- ◈ The large carrier surface and the use of four screws avoid sagging even of heavy windows.
- ◈ Coverings available in many different colours.
- ◈ Same adjustment range and overall sizes for all hinges with 12 mm air systems.



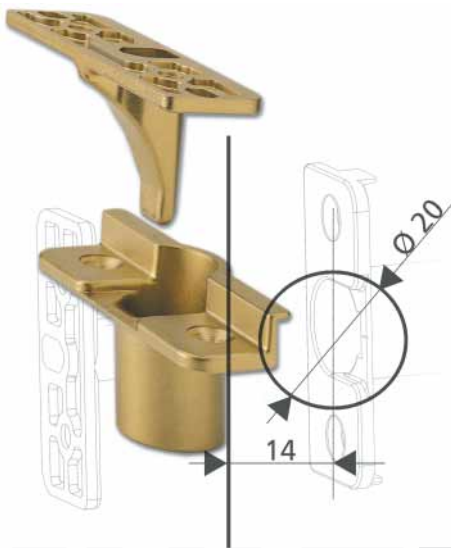
- ◈ Protection against lifting thanks to a bend on the frame hinge **1** and to a pin on the sash hinge **2**.
- ◈ Thanks to a special profile on timber windows, milling of the sash rebate can be avoided.

RATIONAL



Disappearing central hinge

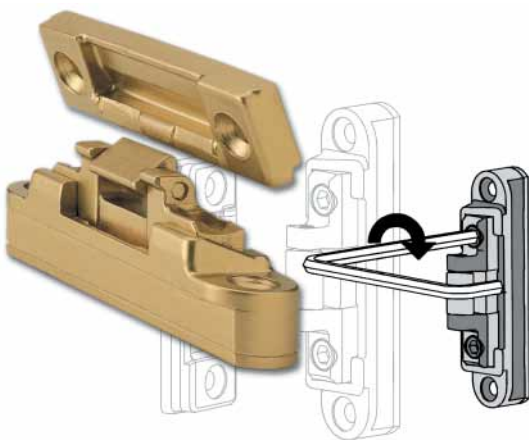
To further improve the aesthetics of a window, the disappearing central hinge is available as a special Maico-solution. Used mainly for tall windows, it helps to prevent deformation, also acting as a protection against unhinging. To be fitted in the groove, it is completely invisible when the window is closed.



Embedded central hinge

- For all timber profiles;
- No adjustment needed;
- Simple milling on the frame;
- No grooves needed;
- Separate parts assembly;
- For use on both sides;

MULTI TREND

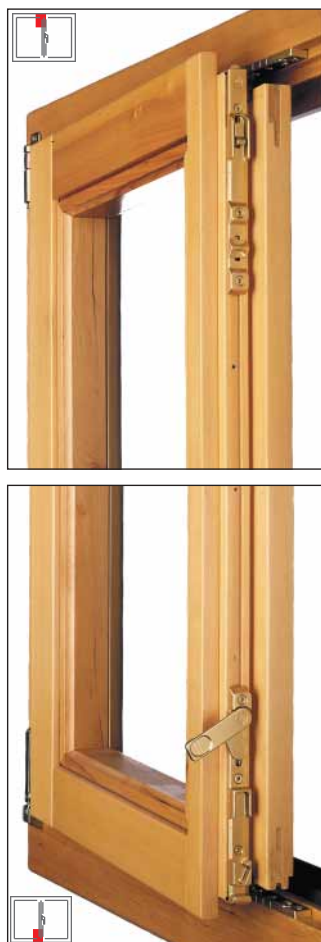


„Universal“ central hinge

- For all profiles in uPVC, timber and mixed;
- Installed in the groove
- No adjustment needed;
- No particular drilling needed;
- Easy fastening in the groove;
- Separate parts assembly;
- Self adjusting for air gap 10 - 13 mm;
- Adjustable for air gaps greater than 13 mm;
- For use on both sides.



DOUBLE TILT-AND-TURN WINDOWS



Upper and lower shootbolts

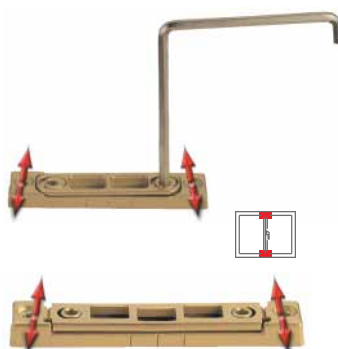
To obtain stable closure of semi-fixed sashes at the top and bottom, MAICO proposes the solution with two shootbolts. Closing the tilt-and-turn window, the lower shootbolt locks automatically. With the handle of the drive gear in the closed position, the upper closure pin activates the upper shootbolt.



Espagnolette with lever control

The ideal solution for double windows consists in the central lever control of the espagnolette. This allows operation from a handy position. Both, the top and bottom end-pieces, can be opened at the same time.

MULTI TREND



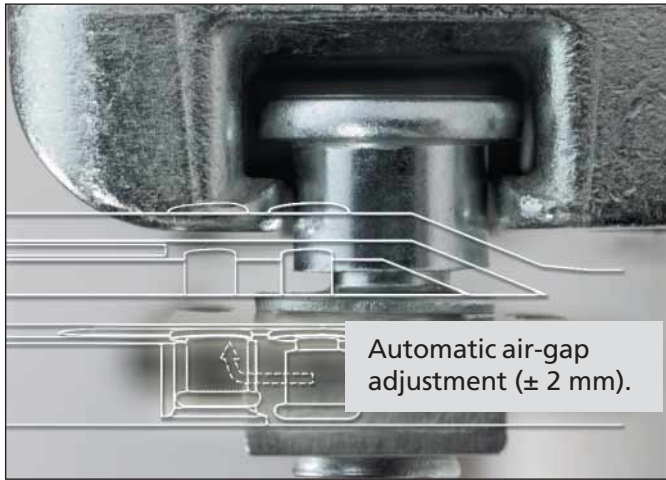
Striker plates for shootbolts and espagnolettes

To be used in combination with lever controlled espagnolettes or with shootbolts. The standard striker plates have two fastenings and they are pressure adjustable.



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THE NEW ANTI-BURGLAR GENERATION

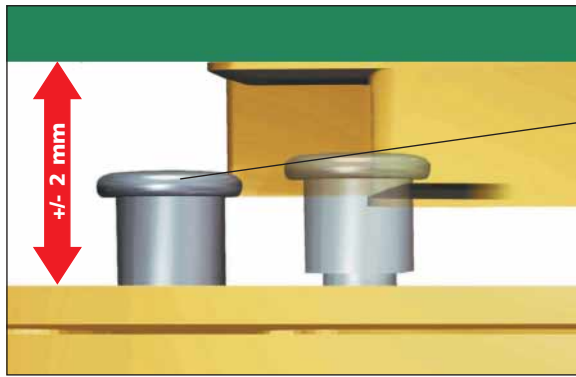


Intelligent safety - the auto regulation mushroom cam.

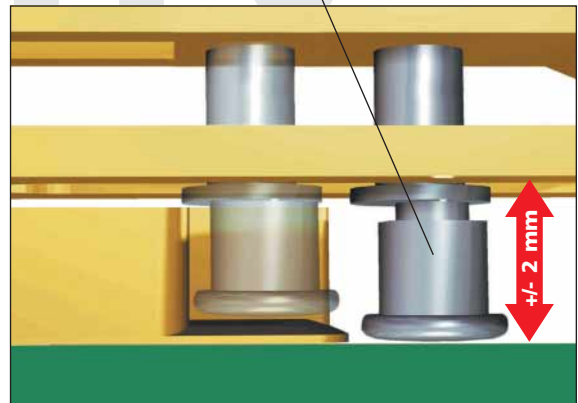
With the new burglar-proof system characterised by auto regulation mushroom cams, MAICO offers the market the most advanced and intelligent fitting system, giving an important contribution to security.

Self-adjustment

No particular adjustment of the fittings is needed: the auto regulation cam automatically adapts to the profile gap and to material deformation.



SECURITY TV



Pressure adjustment
Easy pressure adjustment.



AhS and EN-V
Can be combined with standard and/or safety striker plates; guarantees complete conformity to AhS and EN-V 1627-30 standards (anti burglar regulations).



INDIVIDUAL CHOICE



Silver colour

Aesthetics is an individual choice. The customer can choose between two MAICO mechanism colours, with no loss of resistance to atmospheric agents.

AESTHETICS

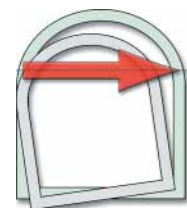
- ◆ Standard components (in silver and tropical colour).
- ◆ Treatment using the same wax impregnation system on both, tropical and silver colour components.
- ◆ Conforms to RAL standards for corrosion resistance.



- ◆ Safeguarding the environment, no Chromic acid (Cr6) is used in the production process.
- ◆ Even without application of coverings on hinges and stay supports, the window meets high aesthetic needs.

Arches and trapezoids

The new Trend mechanism is also available for arched and trapezoid windows.

**Lateral adjustment**

- Using a 4-mm hexagonal socket spanner.

- Standard stay supports are used.
- Can be combined with all standard supports for timber, uPVC and timber/aluminium.
- Pressure adjustable.
- The sash-lift device lifts the window automatically to the correct position. Therefore no wedge stop is needed.
- Double adjustment as for standard stays.





UP TO DATE

Trend - rationalisation of fitting assembly.

The new Trend tilt-and-turn mechanism has been developed above all under the aspect of rationalisation.

Rationalisation of window assembly is a huge advantage to non-industrial type production. It is essential in automatic assembly

lines, where it is now possible to install the fittings on a window in only 1-2 minutes.

The assembly steps:

- Carry out all operations on the separate piece;
- Using the clips, fasten the mechanisms in the groove;
- Tighten the screws.



The **clips** (plastic brackets) are fitted as standard on all components of the Trend tilt-and-turn window mechanism. Useful for manual fitting and above all for automatic assembly.



Window fitting production line.

MULTITREND



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EASY AND FUNCTIONAL

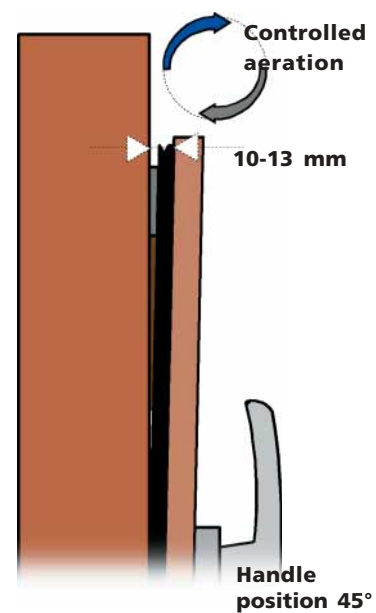


Scissor stays for controlled aeration

Above all during changes of season, the stay for controlled aeration allows correct room ventilation with no excessive heat-loss. By preventing condensation, it avoids the formation of unhealthy mould.

By turning the handle 45° the window locks at 10-13 mm from the frame, a gap that varies with the size of the window.

The reduced air pressure difference between inside and outside allows slow but effective air change.



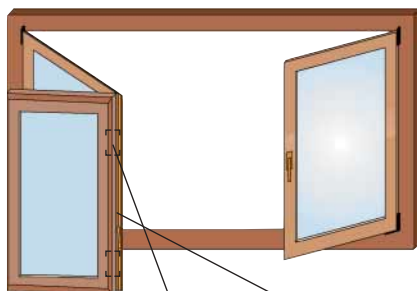
- Simple and easy to use.
- No additional component.
- Safety against accidental closure.
- Protection against condensation.
- Healthy and correct room ventilation.
- No particular operations during fitting.
- Safety against erroneous operation when tilting.
- Abundant space even for small stay sizes .

FUNCTIONALITY





TRIPLE-SASH EVOLUTION COMPLETE SOLUTIONS FOR ALL SYSTEMS



Connected sashes.

Espagnolette, with the lever not standing proud of the sash. Developed to guarantee the end-user a triple window with the same comfort found in a window with standard espagnolette (a single operation closes the window at top and bottom). The lever rotates 180° rather than 50°. This means that during closure of the central window there is no risk of damaging the front lever (which is standing proud of the sash).



Two-dimensional hinge adjustment

The main feature of the new adjustable hinge for triple sash windows, is above all the high stability it offers to the window. Two-dimensional, i.e. adjustable lateral and in height, it guarantees optimal window operation. The hinge can be used in combination with standard coverings, guaranteeing total uniformity of colour, in line with the other coverings.

To make precise hinge fitting easy, a specific template is available.



SOLUTIONS



Separate windows

Maico offers all necessary accessories for the triple window solution with separate sashes, which is an interesting alternative to the system with connected sashes.



Independent hinge

The hinge is fastened to the frame and allows independent opening of the central window. Lateral and height adjustment is given.



Bevelled striker plates

To guarantee that each single sash can be opened with no difficulty, special bevelled striker plates have been developed. These avoid catching of the central window sash during opening or closure.





MAICO QUALITY

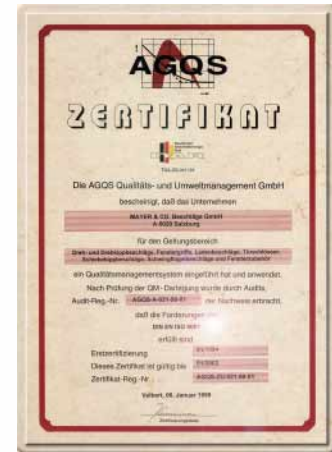


RAL

The RAL quality mark, provided by the Association for quality protection in the window and door sector, is granted to windows that have passed various tests, defined according to the size and weight of a sample window.

ISO 9001

International certification of production quality.



Surface

MAICO window fittings are characterised by surfaces in galvanised and chromed steel as well as by wax impregnation.



This corrosion protection has been tested by exposure to salt spray for more than 500 hours.

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