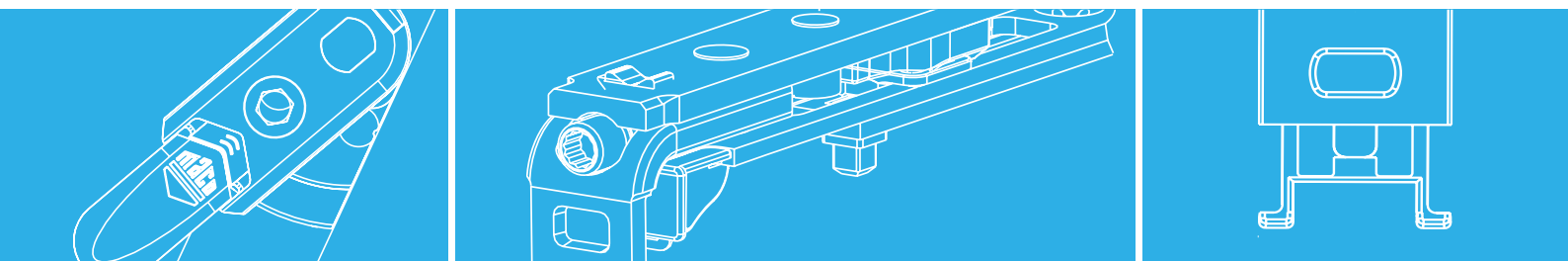


TECHNOLOGY IN MOTION



MACO MULTI-MATIC

TILT AND TURN FITTINGS



Installation instructions

PVC WINDOWS



Note on the MACO surface-finish

MACO fittings are electrogalvanised, passivated and sealed with wax. We guarantee that the surface-finish protection complies with the Quality Assurance Association standards for Tilt&Turn fittings RAL-RG 607/3 and RAL-RG 607/13.

The MACO wax sealing

- Achieves a far higher corrosion protection level than required.
- Better gliding properties.
- More uniform surface finish

MACO TRICOAT fittings

The MACO TRICOAT surface finish has been specifically developed for application areas in which corrosion resistance of electrogalvanised surface finishes does not provide sufficient protection.

The colour of the MACO TRICOAT surface finish is only available in a light shade of grey.

Abbreviations:

SRH	=	Sash rebate height
SRW	=	Sash rebate width
ST	=	Striker
FE	=	Faceplate extension
CL	=	Centre lock



Table of contents

Application ranges (sizes, weights, safety instructions)	4
The single-sashed window	11
The double and/or multi-sashed window	27
The Tilt-Only window	33
The half round window	41
The angled window	49



Application ranges for Tilt&Turn windows and doors

Sash rebate dimensions BS 15

Standard 	SRW	320	
	SRH	360	
Max.	SRW	1650	However not over 3 m ² total surface area and/or 120 kg sash weight and the width-to-height ratio SRH : SRW max. 1 : 1,5
	SRH	2600	
Min. SRH 	SRW	320	With short corner-drive (long leg horizontal), scissor stay 400 and drive-gear 430
	SRH	270	
Min. SRW 	SRW	260	With short corner-drive (long leg vertical), scissor stay 400 and drive-gear 430
	SRH	360	

Sash rebate dimensions BS 6.5

Standard 	SRW	320	
	SRH	455	
Max.	SRW	1650	However not over 3 m ² total surface area and/or 120 kg sash weight and the width-to-height ratio SRH : SRW max. 1 : 1,5.
	SRH	2600	
Min. SRH 	SRW	320	With short corner-drive (long leg horizontal), scissor stay 400 and drive-gear 660
	SRH	365	
Min. SRW 	SRW	260	With short corner-drive (long leg vertical), scissor stay 400 and drive-gear 660
	SRH	455	

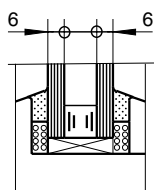


Diagrams for determining permissible sash sizes for windows and doors

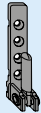
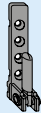
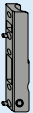
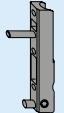
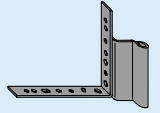
Glass thickness mm	24	22	20	18	16	14	12	1 mm Glass =
Weight kg/m ²	60	55	50	45	40	35	30	2,5 kg/m ²



= Glass thickness 12 mm



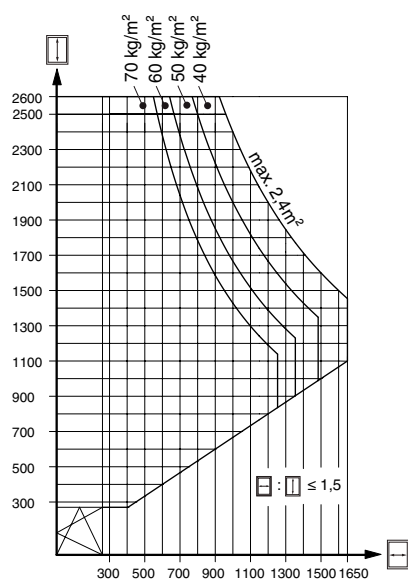
All sash sizes within the application range and a width-to-height ratio of SRW : SRH ≤ 1.5 : 1 are permissible at a glass weight of less than 30 kg/m².

Corner support	Pivot post	Pivot post with positioning pins 3 mm	Pivot post with short supporting pins, Ø 7 mm	Pivot post with supporting pins Ø 7 mm, 12 mm long	Pivot post with supporting pins Ø 7 mm, 23 mm long	Rebate corner AS for Rebate corner supports
						
 Corner support supporting pins 3 mm		Max. sash weight 100 kg and 2,4 m ²	Max. sash weight 100 kg and 2,4 m ²	Max. sash weight 100 kg and 2,4 m ²	Max. sash weight 100 kg and 2,4 m ²	
 Corner support supporting pins Ø 5 mm		Max. sash weight 100 kg and 3 m ²	Max. sash weight 100 kg and 3 m ²	Max. sash weight 120 kg and 3 m ²	Max. sash weight 120 kg and 3 m ²	
 Rebate corner support		Max. sash weight 100 kg and 3 m ²	Max. sash weight 100 kg and 3 m ²	Max. sash weight 120 kg and 3 m ²	Max. sash weight 120 kg and 3 m ²	Max. sash weight 120 kg and 3 m ²

ATTENTION: Restrictions on individual components must be observed!

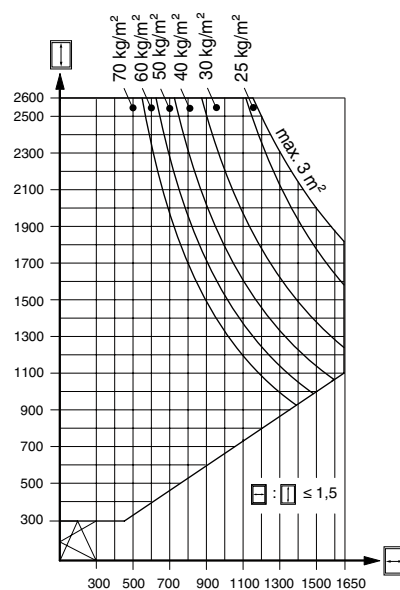


Max. 100 kg sash weight
2,4 m²

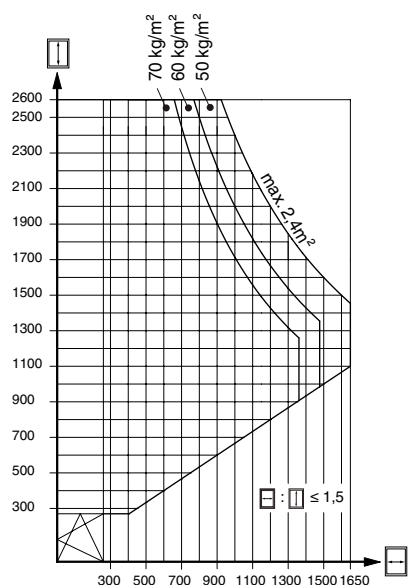


When using pivot posts and scissor stay hinges with 100 kg load capacity and corner supports with 3 mm positioning pin.

Max. 100 kg sash weight
3 m²

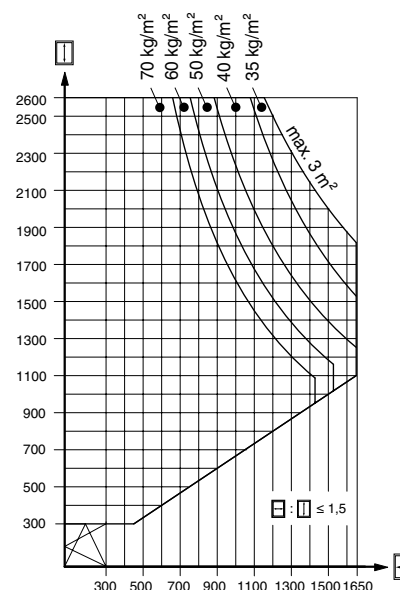


Max. 120 kg sash weight
2,4 m²



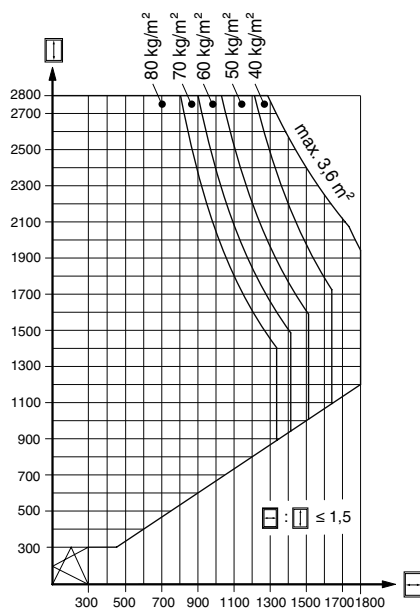
When using pivot posts and scissor stay hinges with 120 kg load capacity and corner supports with 3 mm positioning pin.

Max. 120 kg sash weight
3 m²



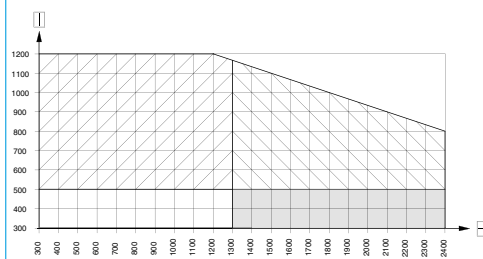


 Mammut
max. 180 kg sash weight
3,6 m²



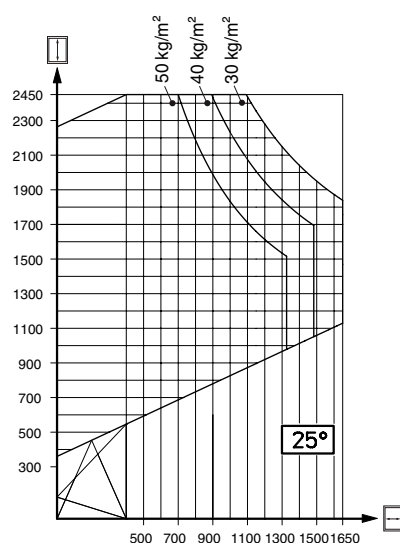
 Tilt-Only windows
max. 80 kg sash weight

für die Verwendung der FPS ist das Anwendungsdiagramm der FPS zu beachten!



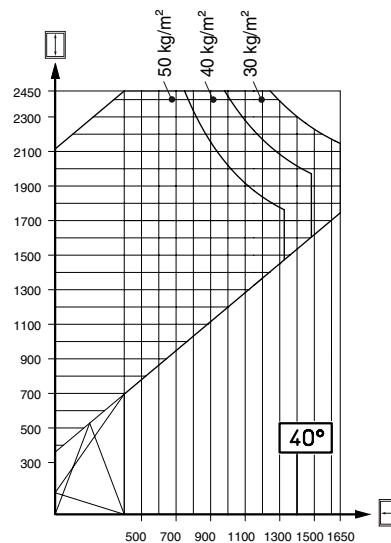
- ☐ 1 Tilt-Only stay arm + restrictor and cleaning stay size 1
- ☒ 1 Tilt-Only stay arm + restrictor and cleaning stay size 2
- ☐ 2 Tilt-Only stay arm + restrictor and cleaning stay size 1
- ☒ 2 Tilt-Only stay arm + restrictor and cleaning stay size 2

 Angled window with angled
scissor-stay max. 80 kg
sash weight



SRH = refers to max. hinge-sided sash height

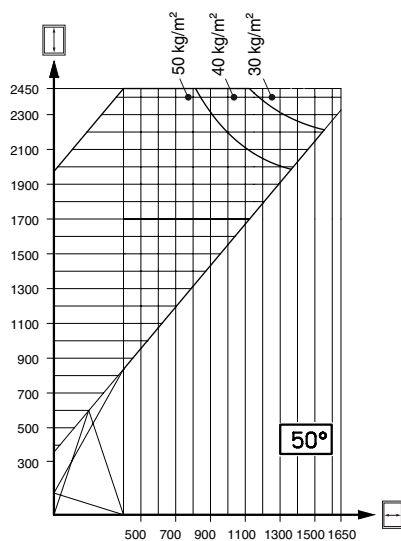
 Angled window with angled
scissor-stay max. 80 kg
sash weight



SRH = refers to max. hinge-sided sash height



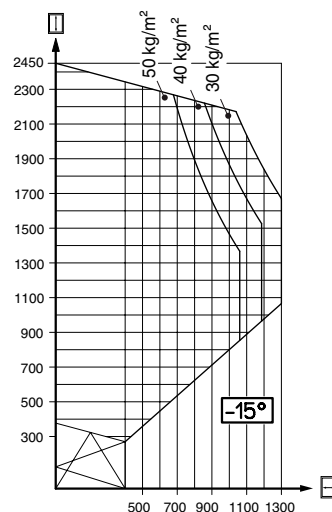
**Angled window with angled
scissor-stay max. 80 kg
sash weight**



SRH = refers to max. hinge-sided sash height



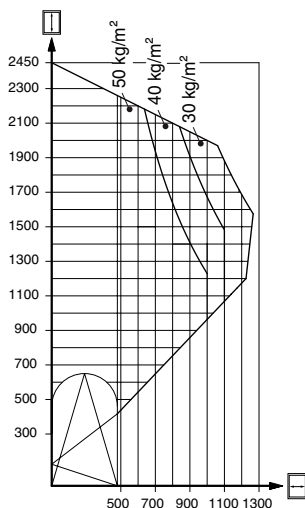
**Angled window with angled
scissor-stay max. 80 kg
sash weight**



SRH = refers to max. hinge-sided sash height



**Half round window with
half-round scissor-stay
max. 80 kg sash weight**



SRH = start of half round



Fabrication instructions

Load-bearing components for sub-assemblies with security relevant characteristics

PVC windows and doors

The sash weights for pivot posts, scissor stay hinges and Turn-Only hinges stated in the individual catalogues are the max. possible sash weights from MACO. The profile manufacturers' maximum weight specifications may not be exceeded. Please also adhere to the application diagrams.



Fixing the load-bearing components



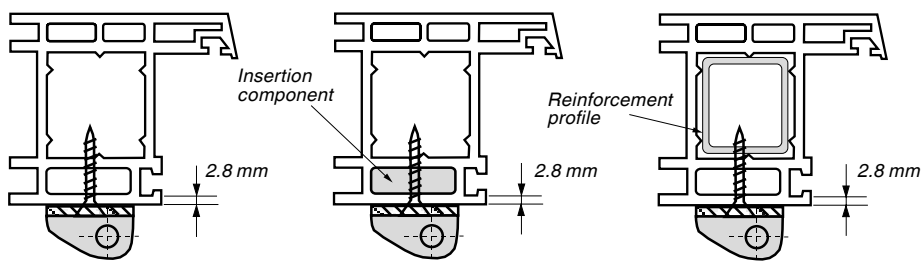
DANGER!

The screw fixing of the hinge parts must comply with the requirements of Directive TBDK (Quality Association for Locks and Hardware www.schlossindustrie.de) and conform to EN 13126-8!

Fittings groove

Die Beschlagnut muss entsprechend den Angaben in unseren Print- und Onlinekatalogen ausgeführt sein!

Hinge fixing drawings

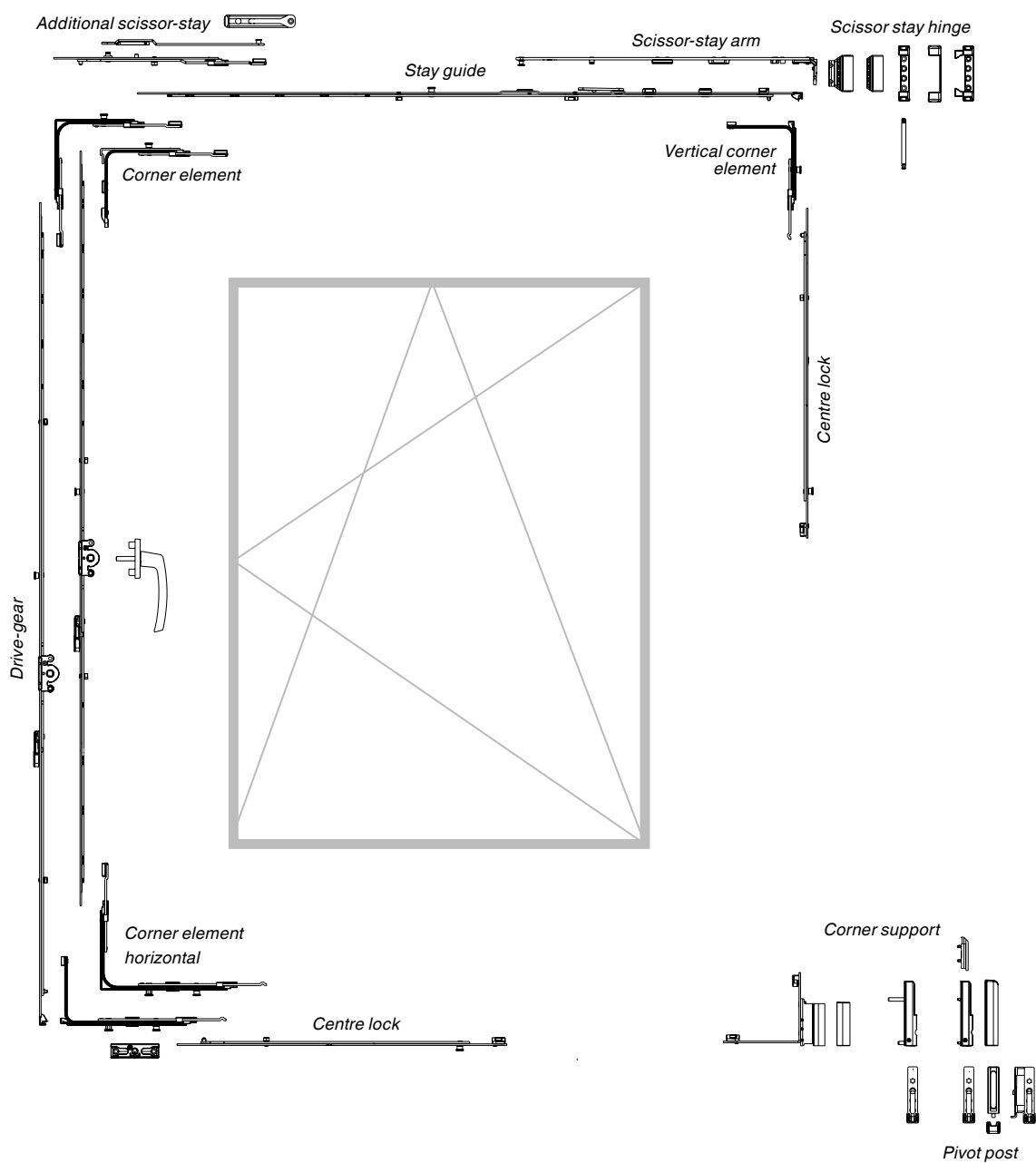


**MACO
MULTI-MATIC**



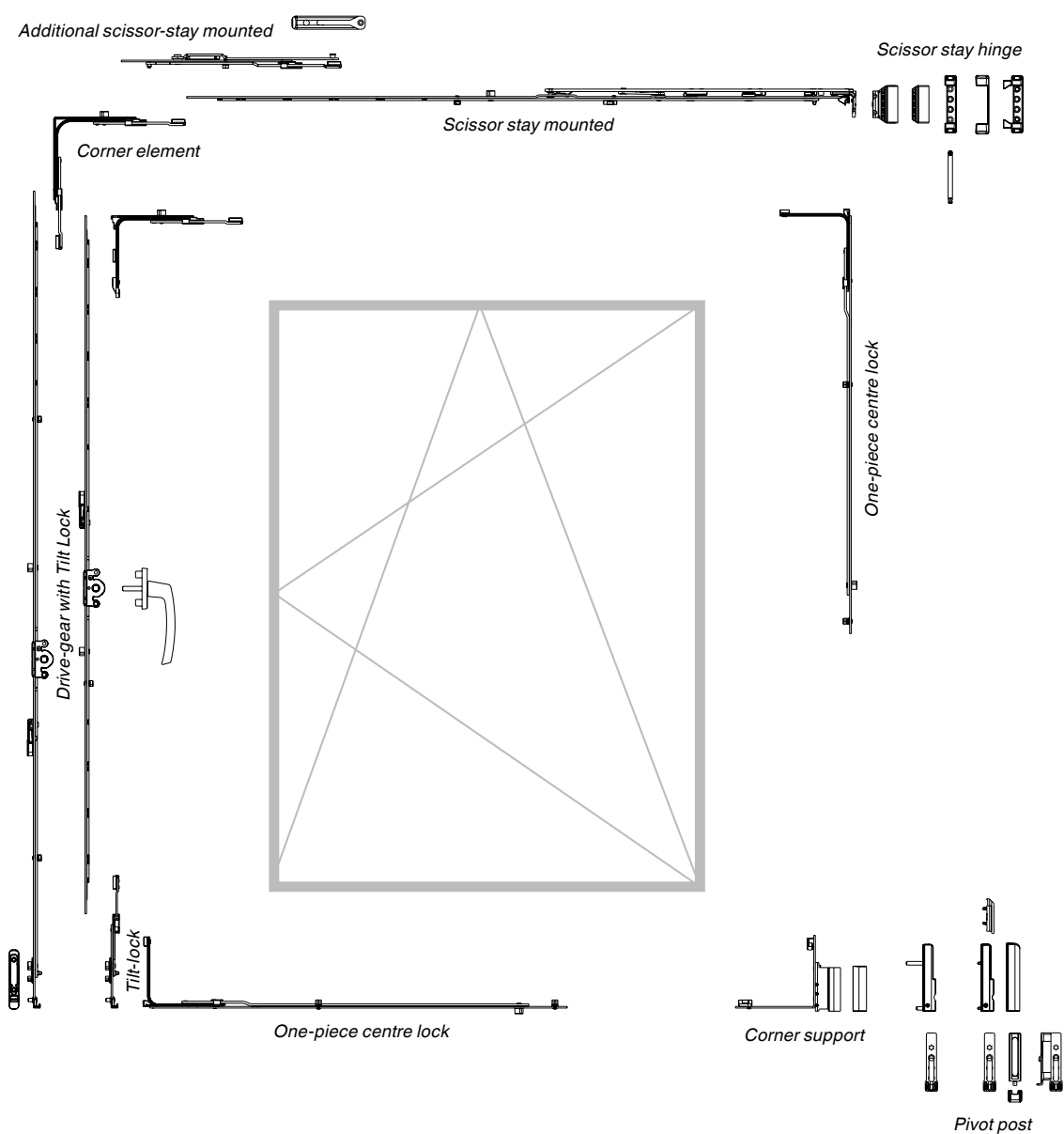


Tilt&Turn fittings MM





Tilt&Turn fittings MM-KS

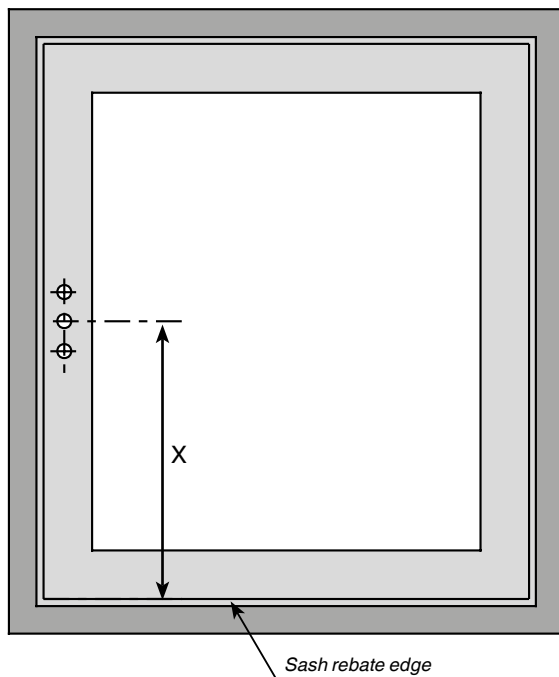
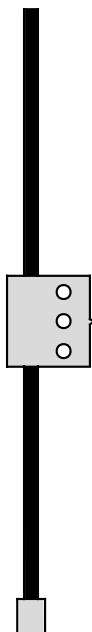




Installation of the sash fittings components

Handle drilling

Drive-gear drilling jig Order no. 203861 (Ø 3 Ø 3 Ø 3)
Order no. 203862 (Ø 12 Ø 3 Ø 12)



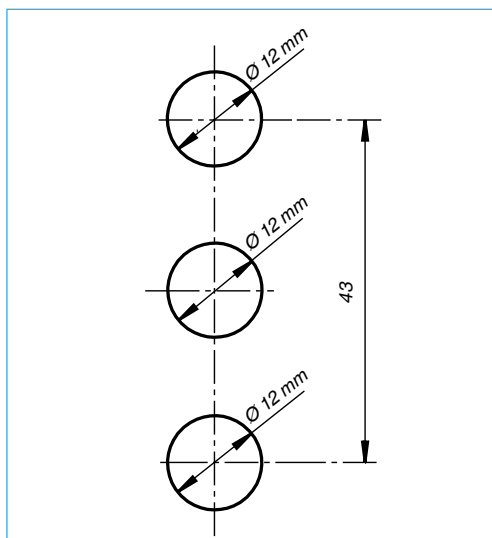
Dimension X	Size
125	430
190	660
300	840
400	1090
500	1340
600	1590
700	1700
1050	1950
1050	2200
1050	2450

Adjust the drive-gear drilling jig (order no. 203861, 203862) to suit the drive-gear, allow it to lie up against the sash rebate edge and predrill with a Ø 3 mm drill.

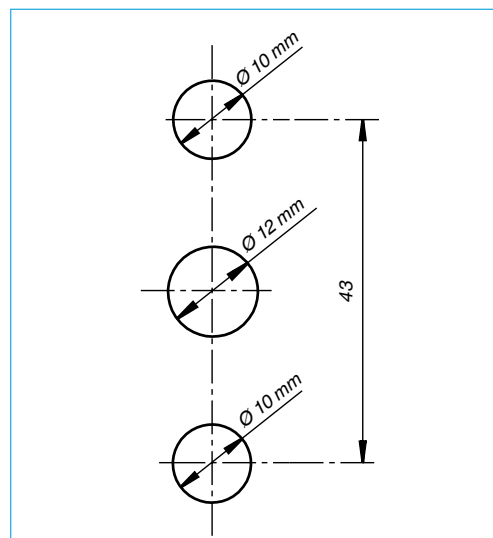
In the case of variable handle-height drive-gears, mark the sash centre, line up the drive-gear drilling jig with the notch on the side and predrill.

Drill hole patterns

For window handles with Ø 12 mm lugs

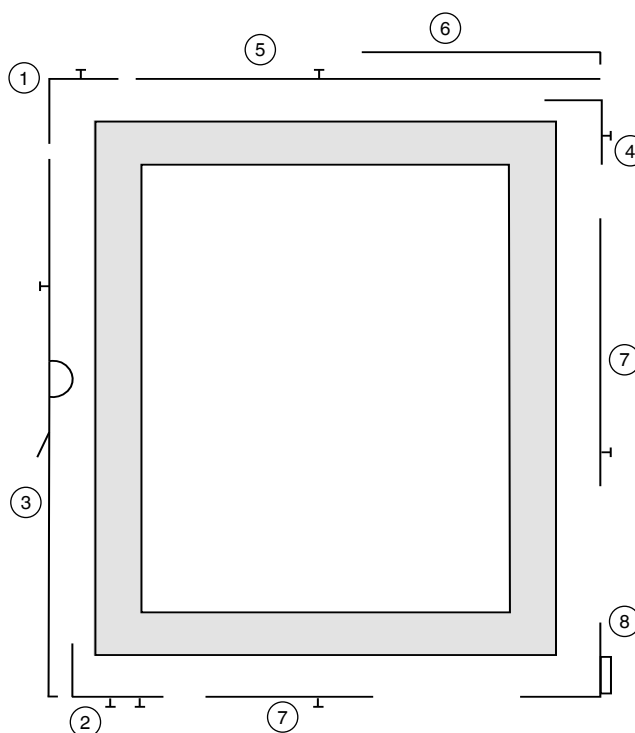


For window handles with Ø 10 mm lugs





Installation and cropping of the MM sash fittings components



- Install the **corner element** ①.
- Insert the **horizontal corner element** ② (Fig. 1).
- Crop the **drive-gear** ③ and screw-fix together with the **corner elements** (Fig. 2). DANGER*
- Insert the **vertical corner element** ④ (Fig. 1).
- Crop the **stay guide** ⑤ (Fig. 2) and screw-fix together with the **corner elements**. From FFB 1300 mm use stabilising scissor stay! ATTENTION**
- Mount the **scissor-stay arm** ⑥. Clip on the stay support arm to the scissor stay end-bracket and turn the bayonet coupling 90° with a TORX 20 bit (Fig. 3).
- Install the **centre lock** ⑦.
MACO recommendation: From FFB/ FFH over 800 mm, please note the profile manufacturer's specifications!
- Insert and screw-fix the **corner support** ⑧ to the rebate-leg.
- The centre-fixings (preset centred camfixing) are released upon operating the fittings for the first time.
- The sash lifter on the drive-gear must be activated by tilting it outwards.

* For DK drives 430 and 660, the corner element must be screw fitted horizontally and additionally vertically in the groove base!

** For scissor stay faceplates 600, the corner element must be screw fitted vertically and additionally horizontally in the groove base.



Fig. 1

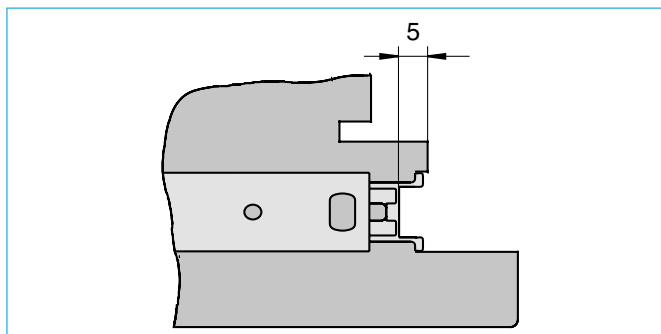


Fig. 2 - Cropping pattern

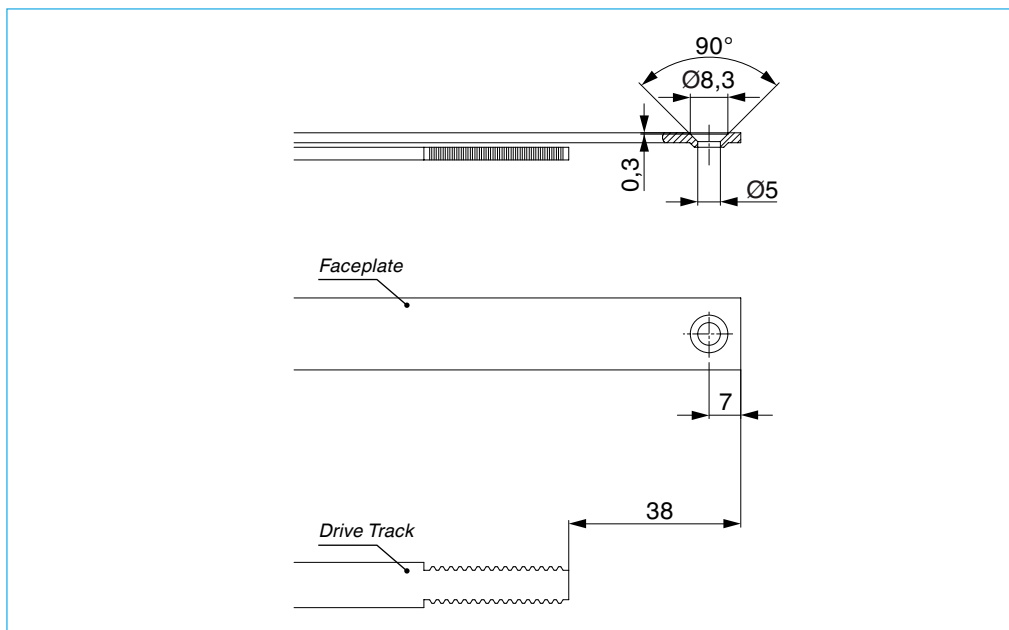
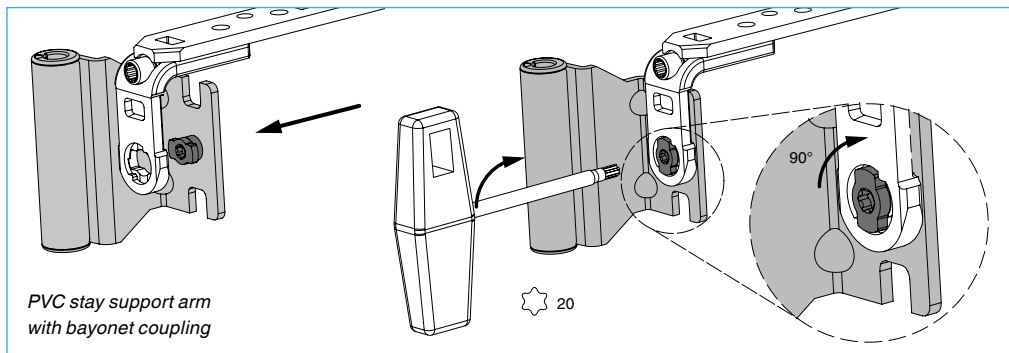


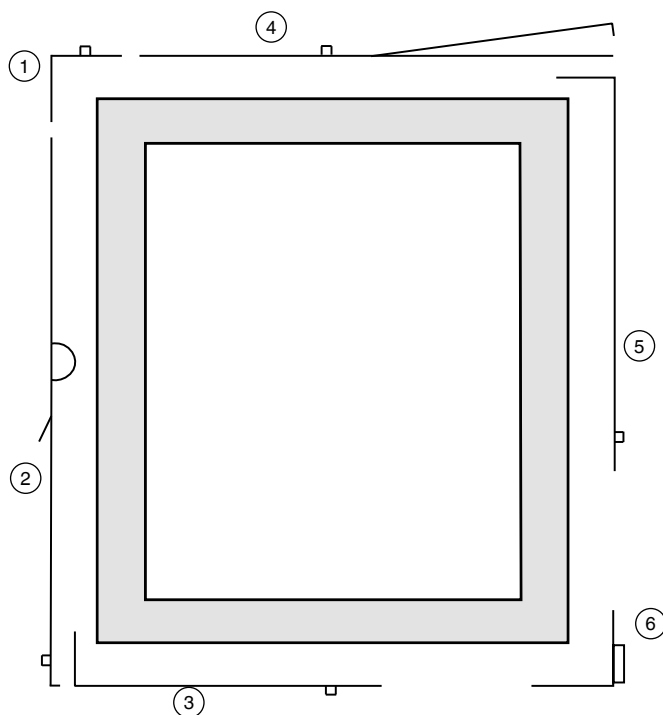
Fig. 3



Please note: The bayonet coupling must be turned 90°!



Installation and cropping of the MM-KS sash fittings components



- Install the **corner element** ①.
- Crop the **drive-gear** ② (Fig. 2) and screw-fix together with the **corner element** ①.
(n SRW over 800 mm, firstly insert the **centre lock horizontal** ③, Fig.1).
DANGER*
- Crop the **mounted scissor stay** ④ (Fig. 2) and screw-fix together with the **corner element** ① (On SRH over 800 mm, firstly insert the **centre lock** ⑤, Fig. 1). MACO recommendation: From FFB/FFH over 800 mm, please note the profile manufacturer's specifications!
From FFB 1300 mm use stabilising scissor stay!
- Clip on the stay support arm to the scissor stay end-bracket and turn the bayonet coupling 90° with a TORX 20 bit (Fig. 3).
- Insert and screw-fix the **corner support** ⑥ to the rebate-leg.
- The centre-fixings (preset centred cam-fixing) are released upon operating the fittings for the first time.
- The sash lifter on the drive-gear must be activated by tilting it outwards.

* For DK drives 430 and 660, the centre lock must be also screw fitted vertically in the groove base!

** For scissor stay faceplate 600, the centre lock must also be screw fitted horizontally in the groove base.



Fig. 1

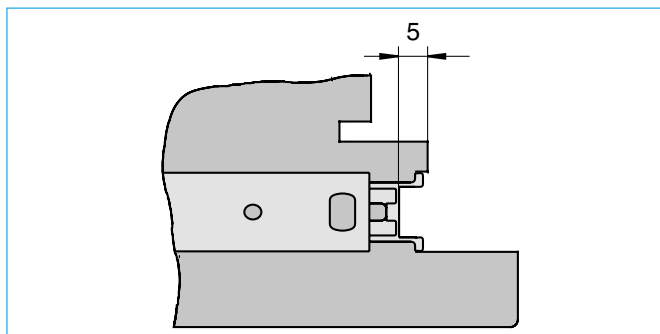


Fig. 2 - Cropping pattern

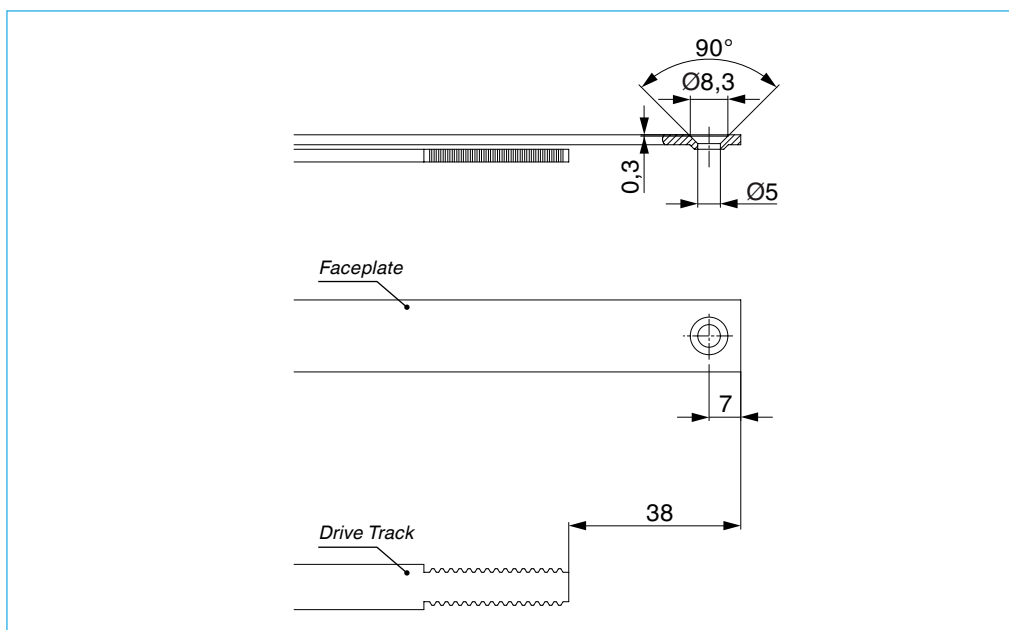
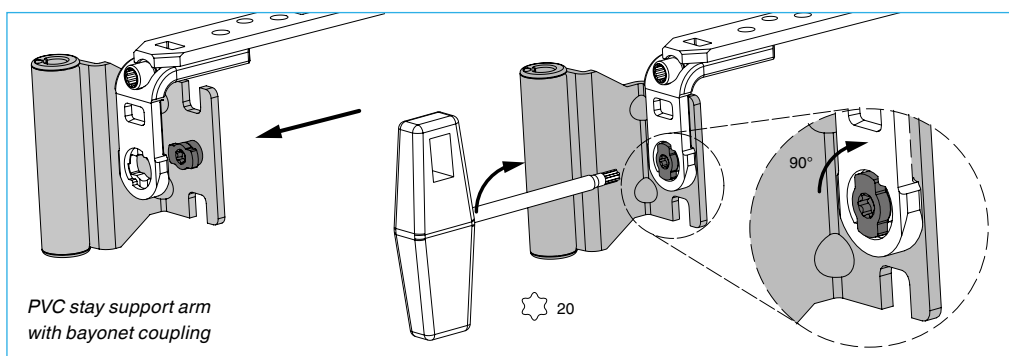


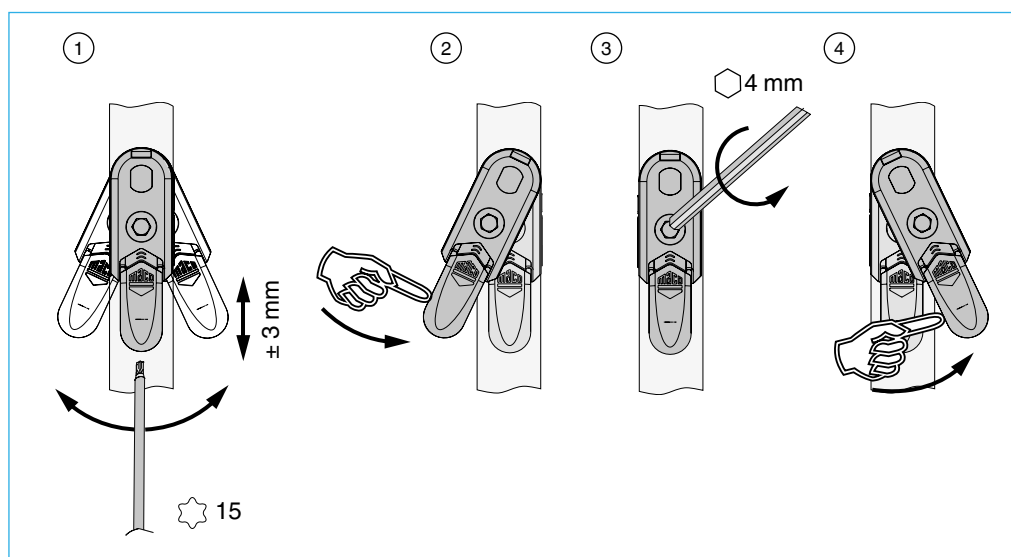
Fig. 3



Please note: The bayonet coupling must be turned 90°!



Adjusting the sash lifter

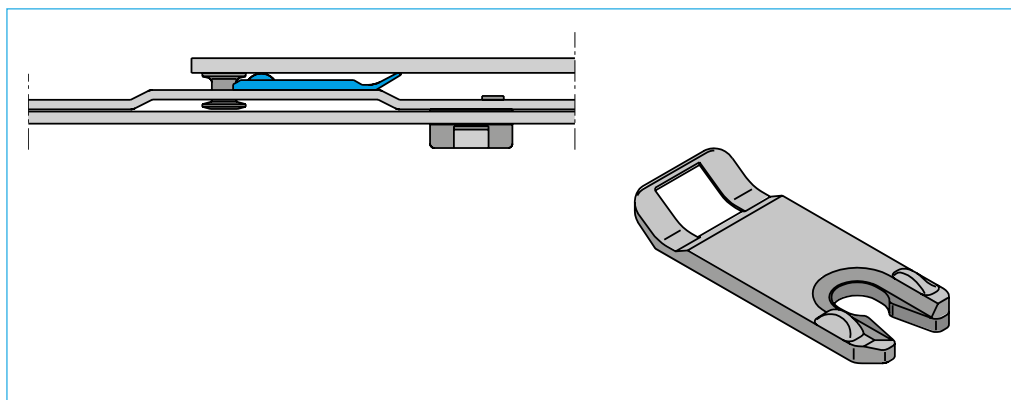


- ① Tilt the drive-gear's sash lifter in the desired direction until you hear an audible click. The sash lifter is subsequently fully operational.
Set to the required height by turning the adjusting screw with a Torx 15 bit.
- ② Position the sash lifter into the centre.
- ③ Turn in the direction depicted above until it snaps into place (4 mm Allen Key).
- ④ Swivelling of the sash lifter.

Scissor-stay restrictor

A scissor-stay restrictor must be installed on sash rebate heights under 600 mm.

For FFH over 600 mm, a scissor stay limiter may be necessary if the window profile or the window geometry makes this necessary.

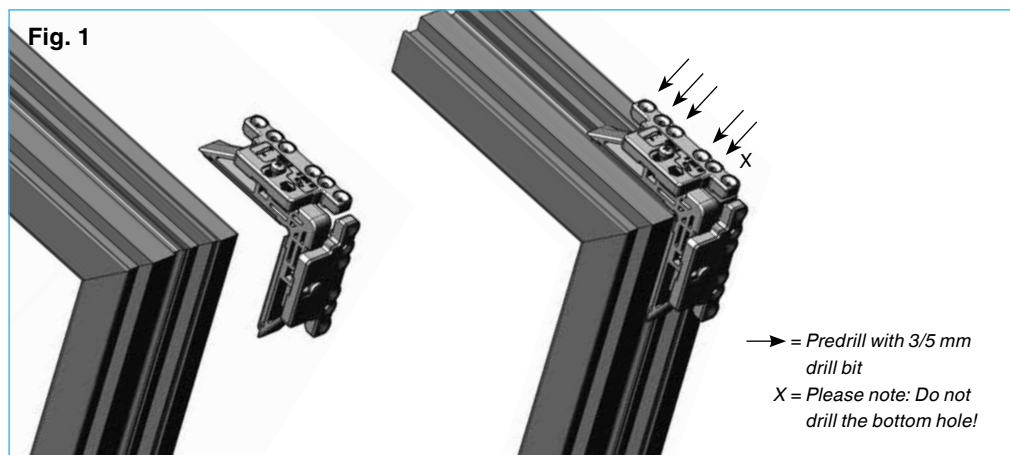


For scissor stay size Gr. 400/600/800 use 43551 (black)
For scissor stay size Gr. 1050/1300 use 43552 (white)
For Additional scissor-stay use 43613

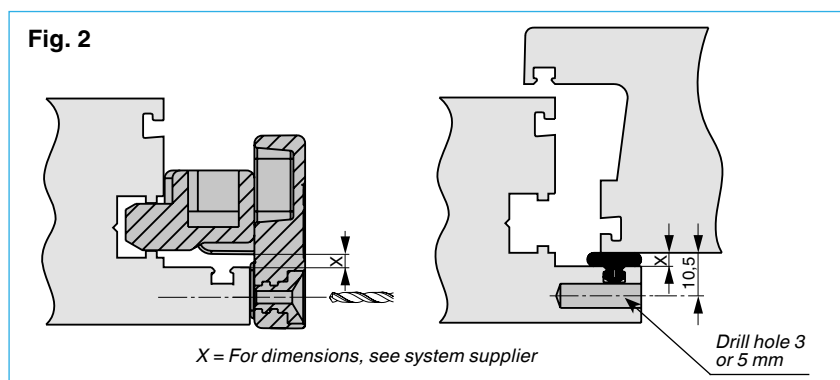


Pivot post installation with positioning pins 3 mm and supporting pins 5 mm

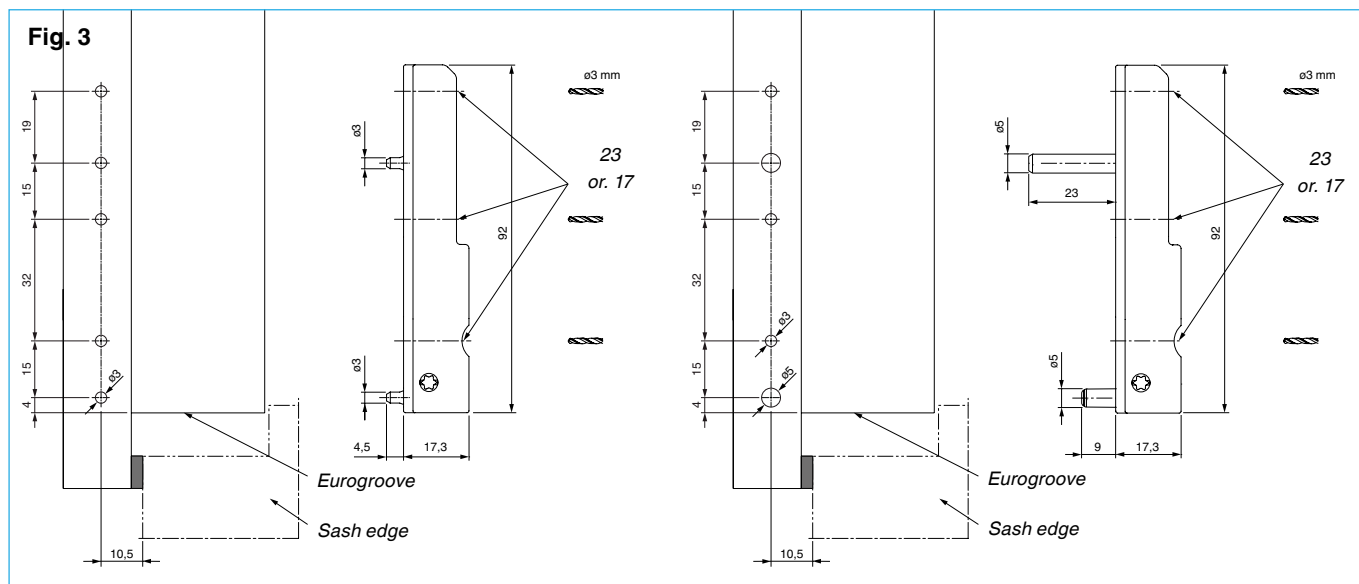
Corner support jig (corner-clamping in the fittings groove)



1. Position the drilling jig in the fittings groove (Fig. 1).
2. Adjust the distance on the side (Note the coverage dimension, Fig. 2).
Attention: gasket compression according to system supplier.
3. Predrill using a Ø 3 mm and/or 5 mm drill (Fig. 3)!



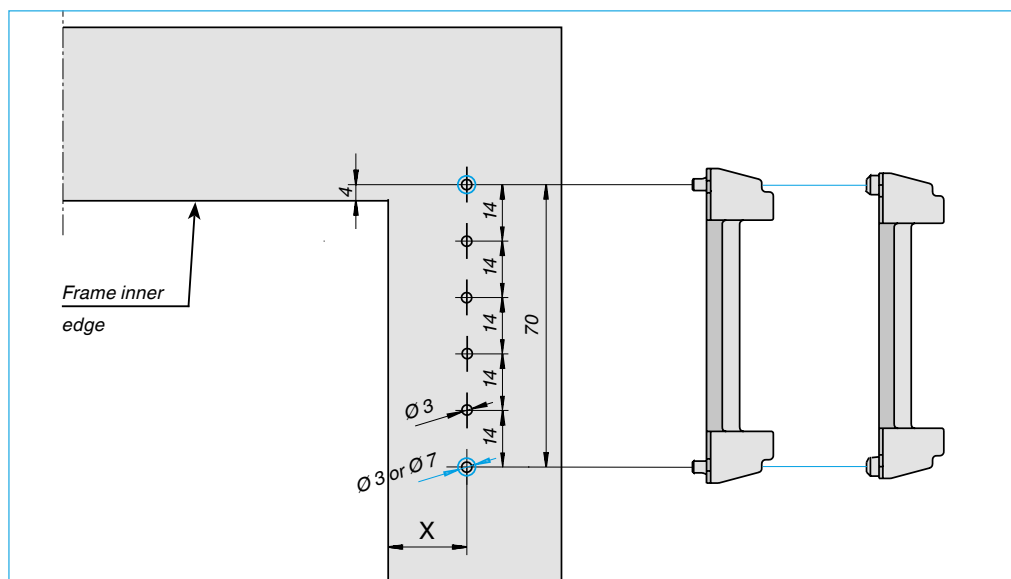
No	Sash drilling jigs
21564	For 3 mm supporting pins
28235	For 3 mm supporting pins (for 5° slope)
21562	For 5 mm supporting pins
23279	For 5 mm supporting pins (for 5° slope)





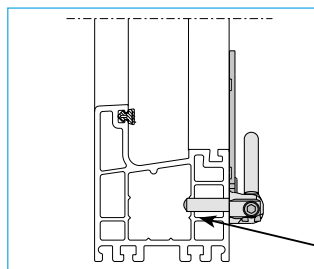
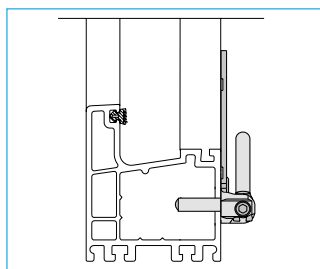
Installation of the frame fittings components

Stay hinge and pivot post drilling dimensions



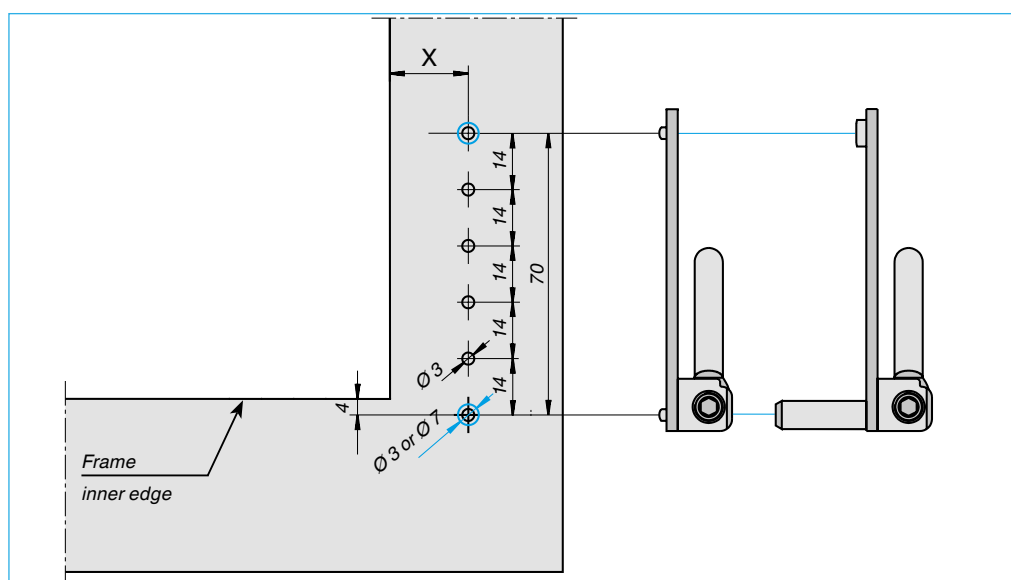
Sash weight up to 100 kg

Sash weight up to 120 kg



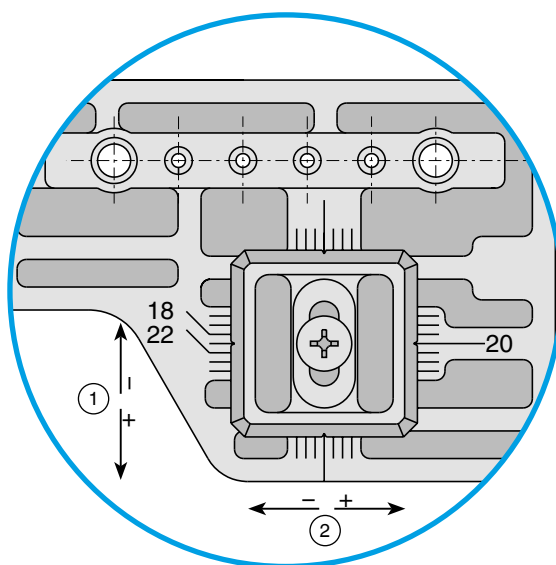
Rebate-leg	Dimension X
18	17,5
20	19,5
22	21,5

Supporting pin must
penetrate through 2 profile walls!





Adjusting the MULTI drilling jig for PVC stay hinges and pivot posts



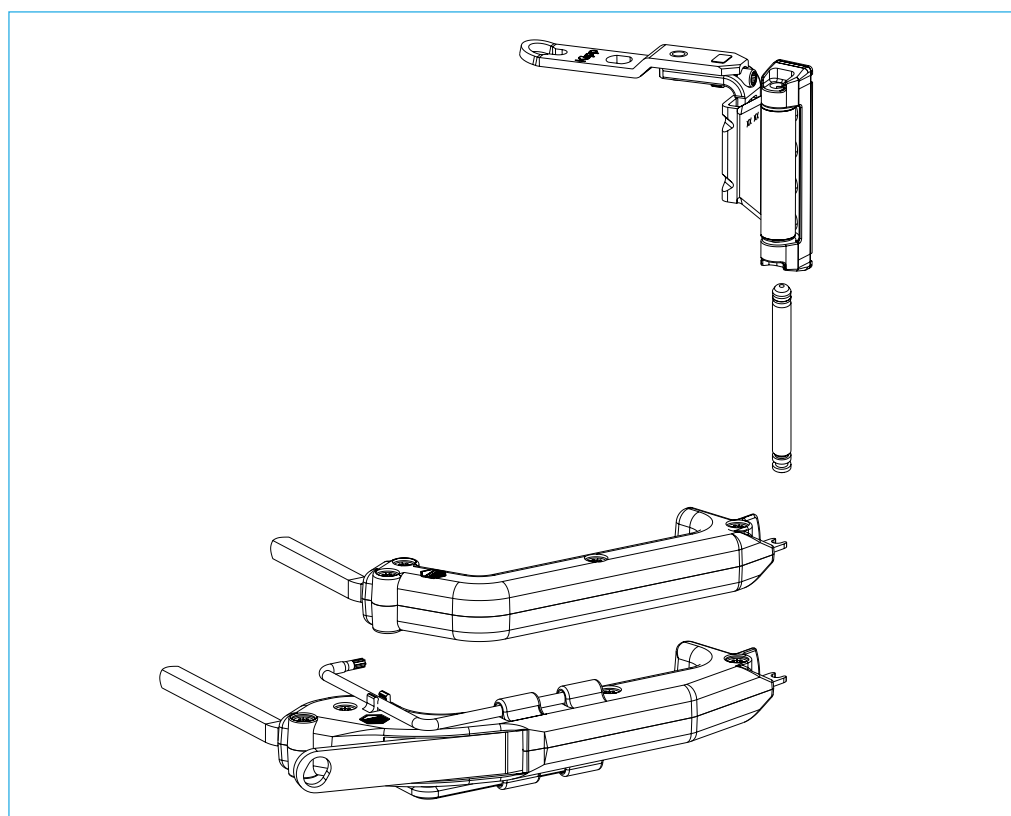
Installation:

- ① Adjust the frame drilling jig to the required rebate-leg (refer to the drawing above). Position the drilling jig and predrill with a $\varnothing$ 3 mm or 7 mm drill.
- ② Depending on the rebate clearance gap of the jig (for more rebate clearance - adjust to the plus, for less rebate clearance - adjust to the minus). Predrill for both the left and right pivot posts and scissor stay hinges with the same jig settings.

No	Frame drilling jig	Drilling-hole diameter
28597	For scissor stays and pivot posts, self-clamping	7 mm
21958	For scissor stays and pivot posts, with 3 mm supporting pins	3 mm
21694	For scissor stays and pivot posts, with 7 mm supporting pins	7 mm



Hinging the sash



Hinge the sash into the pivot post at a 90° opening angle.

1. Position the stay support arm into the scissor stay hinge and close the sash (do not lock!).

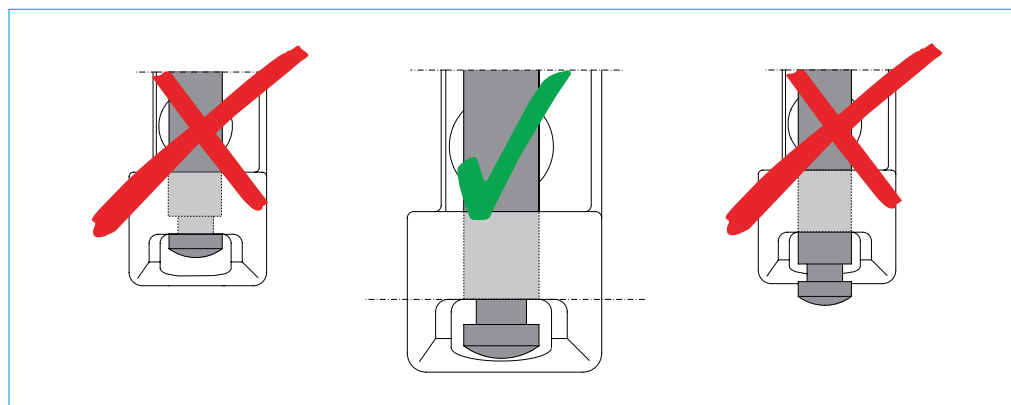
2. Push the scissor stay-hinge pin in fully while the window is closed.

3. **Visual checking of the position of the scissor stay-hinge pin is imperative (refer to the illustration)!**



PLEASE NOTE:

Non-compliance can lead to sashes falling out!



Striker installation



Extend it to the max. and using the stops, position it at the top and bottom. Clamp the sliding rod, position and then screw on the strikers and sash lifter (note the drive-gear size marked on the jig).



**Hinge-side
centre lock:**

**Bottom horizontal
centre lock:**

Scissor stay:

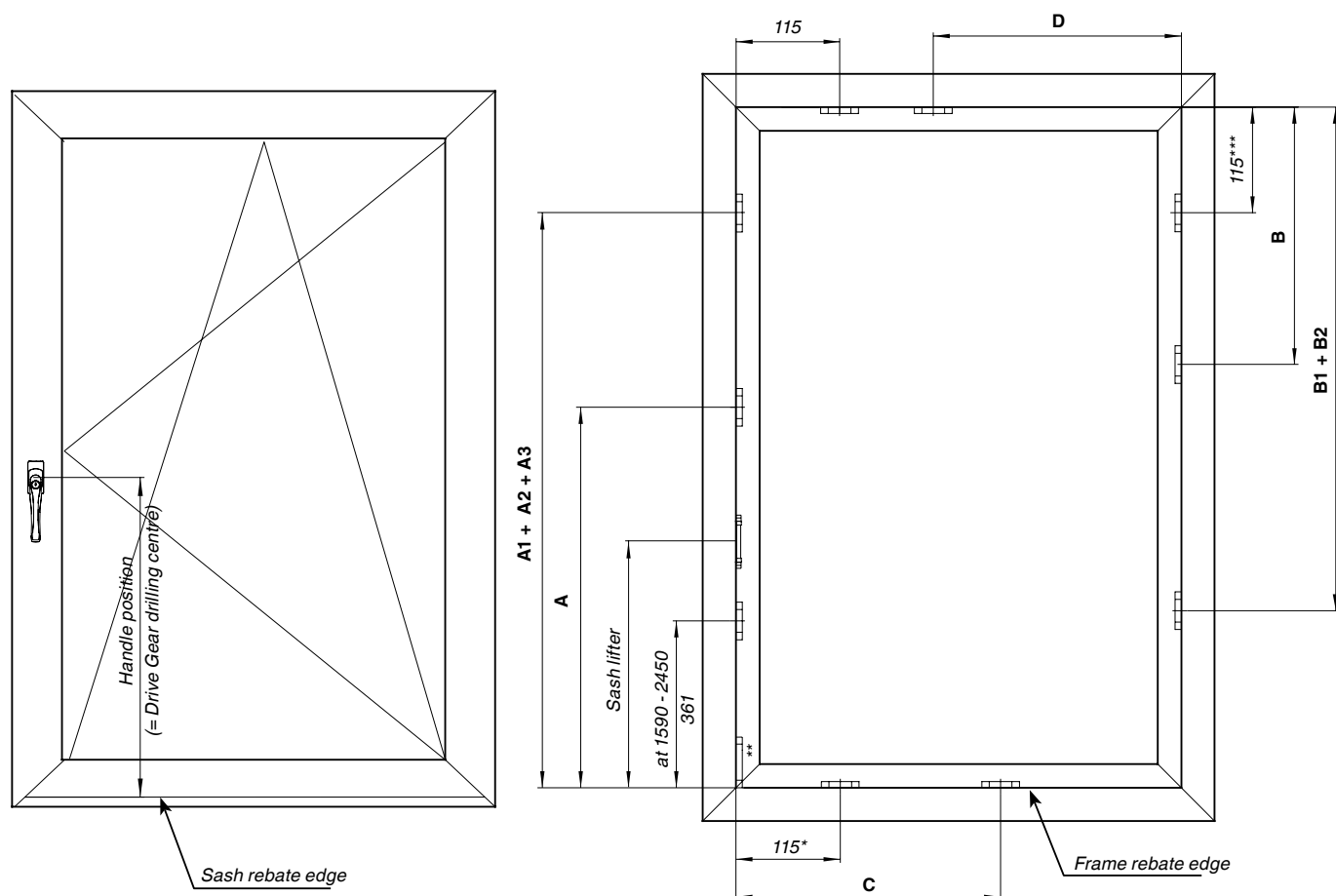
Position the jig on the top hinge-side, insert the striker in the striker holder for the scissor stay and then screw on (refer to the illustration marked on the jig).

No	Jigs for TU-ON/T&T fixed handle height drive-gears
204773	SRH 431 - 660
204774	SRH 661 - 1340
204775	SRH 1341 - 1700
204776	SRH 1701 - 2450
No	Jigs for TU-ON/T&T variable/centred handle-height drive-gears
206049	Size 800 / Size 1250 / Size 1750
206067	Size 2250
No	Jig for centre locks, scissor stays and corner elements
204771	SRH 200 - 2450 / SRW 195 - 1500



Striker drilling locations

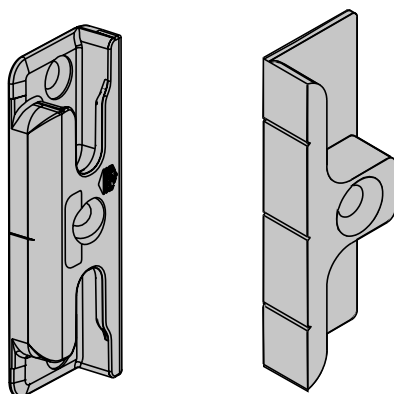
All dimensions refer to the **frame rebate dimensions**:



*Only when using horizontal corner element and horizontal tilt-lock

** Only when using drive-gear with Safety Catch

***When using vertical corner element



Please note:

The striker drilling location dimensions refer to the centre of the striker (Notch).



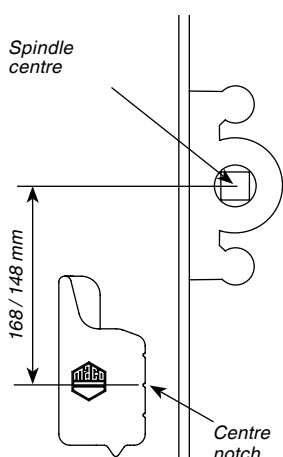
Striker positioning, sash lifters for fixed handle-height drive-gears with 12 mm air gap

Drive-gear size	SRH	Sash lifter	A	A1	A2	A3	Handle position without air gap
430	360 - 430	-	-	-	-	-	125
660	431 - 660	34	-	-	-	-	190
840	661 - 840	164	441	-	-	-	300
1090	841 - 1090	264	586	-	-	-	400
1340	1091 - 1340	364	686	-	-	-	500
1590	1341 - 1590	464	-	921	-	-	600
1700	1591 - 1700	564	-	1021	-	-	700
1950	1701 - 1950	914	-	796	1466	-	1050
2200	1951 - 2200	914	-	796	1466	-	1050
2450	2201 - 2450	914	-	796	1466	1966	1050

Stay guide size	SRW	D
400	315 - 400	-
600	401 - 600	-
800	601 - 800	-
800 i. S.	601 - 800	403
1050	801 - 1050	506
1300	1051 - 1300	565

Centre lock size	SRW/SRH	C	B	B1	B2
140	-	-	-	-	-
235	-	-	-	-	-
1280	801 - 1280	565	565	-	-
1500	1281 - 1500	800	800	-	-
2200	1701 - 2200	-	800	1506	-
2450	2201 - 2450	-	800	1506	1977

Sash lifter positioning for fixed and variable handle-height drive-gears



Spindle centre to sash lifter centre	Drive-gear size	SRH
-	430	360 - 430
168	660	431 - 660
148	840	661 - 840
148	1090	841 - 1090
148	1340	1091 - 1340
148	1590	1341 - 1590
148	1700	1591 - 1700
148	1950	1701 - 1950
148	2200	1951 - 2200
148	2450	2201 - 2450



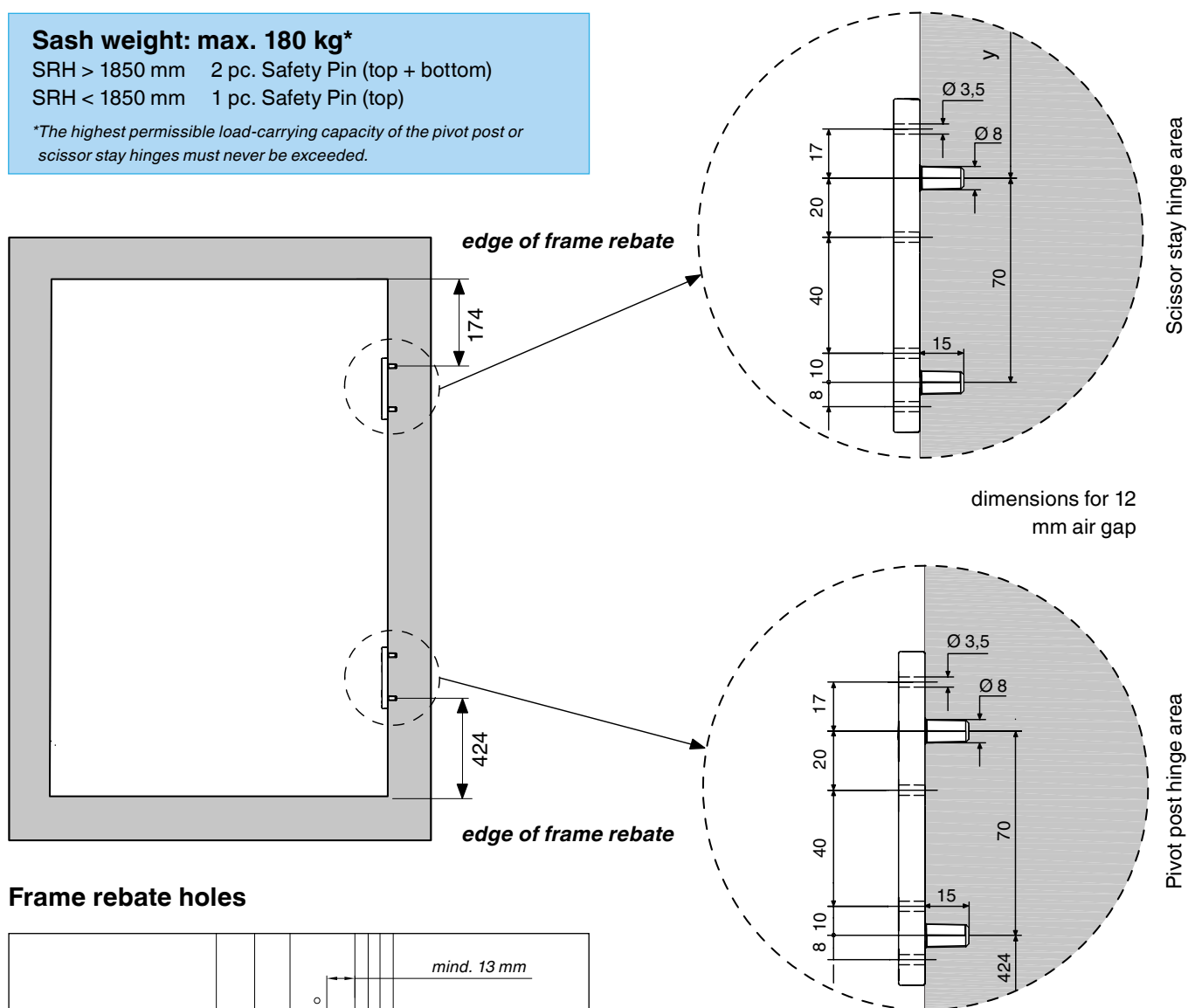
Anti-unhinge device „Safety Pin“

Sash weight: max. 180 kg*

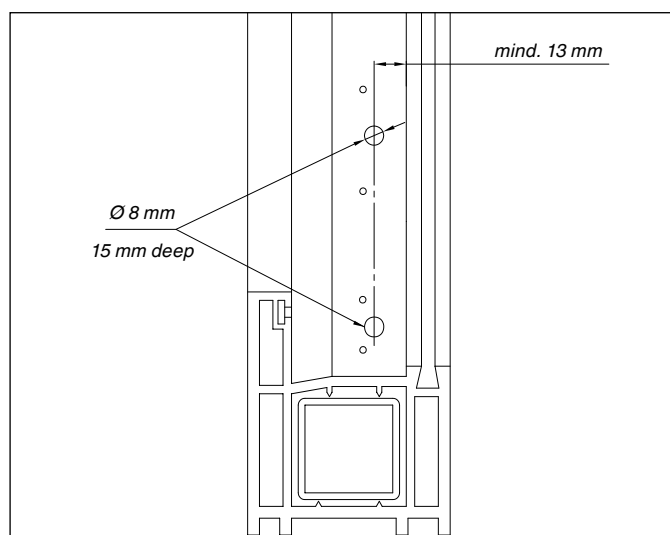
SRH > 1850 mm 2 pc. Safety Pin (top + bottom)

SRH < 1850 mm 1 pc. Safety Pin (top)

**The highest permissible load-carrying capacity of the pivot post or scissor stay hinges must never be exceeded.*



Frame rebate holes



Sash component

215159 anti-unhinge device for PVC and timber top extendable 1 i.S. Silver

209774 anti-unhinge device for PVC and timber bottom silver

Frame component

104363 hinged plate right

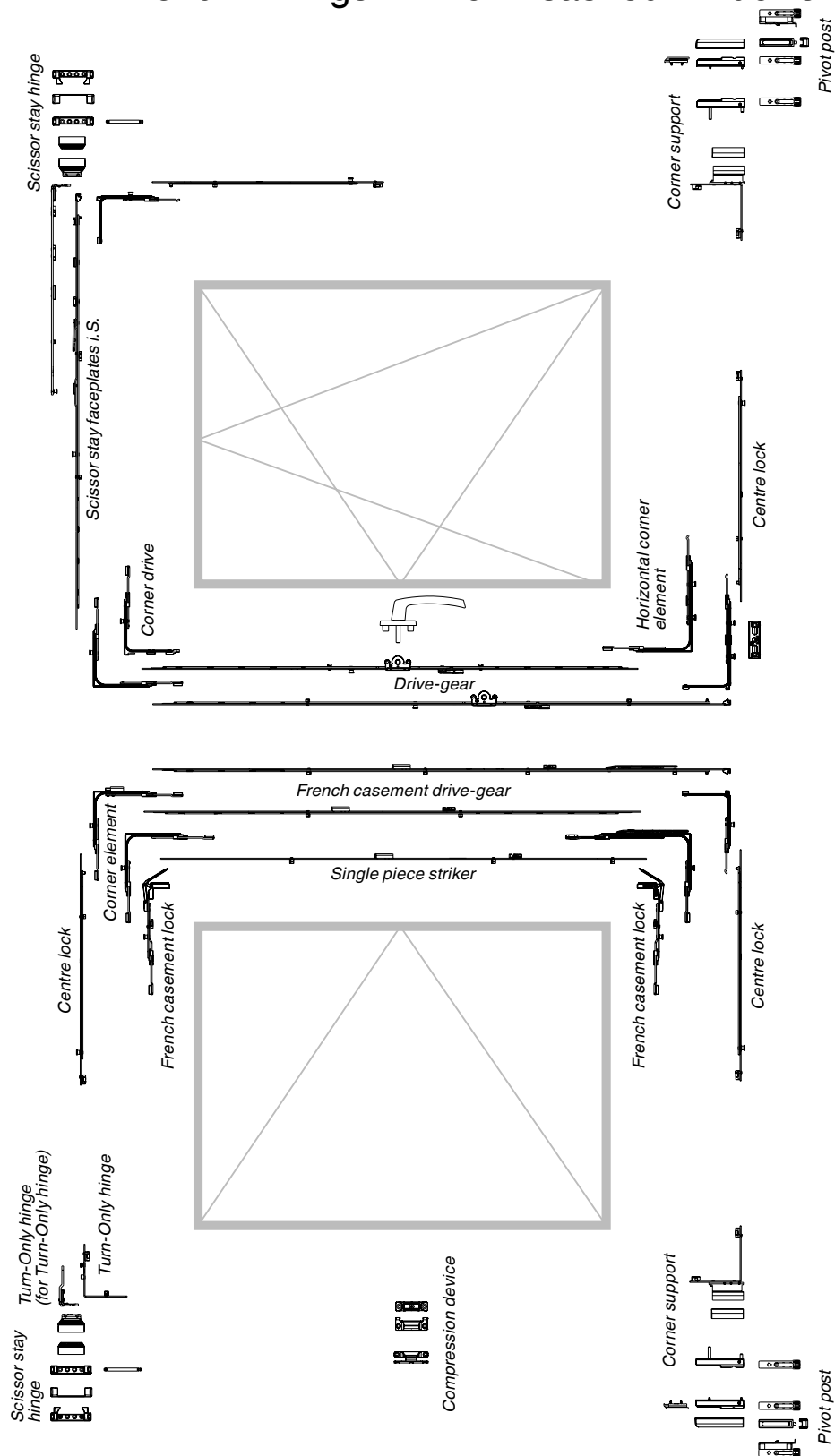
104364 hinged plate left

363605 packer for hinged plate PVC 2 mm

363606 packer for hinged plate PVC 3 mm

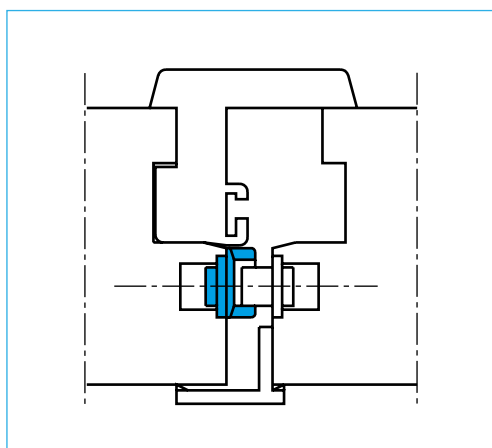


Tilt&Turn fittings MM for 2-sashed windows



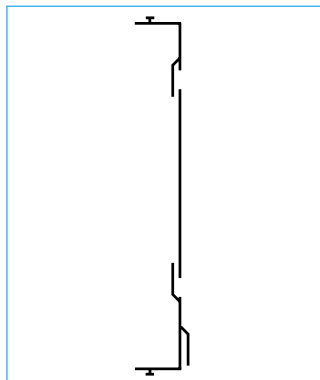


Installation of 2-sashed windows fittings components MM French casement drive-gear with mounted strikers



Installation when using fixed handleheight drive-gears:

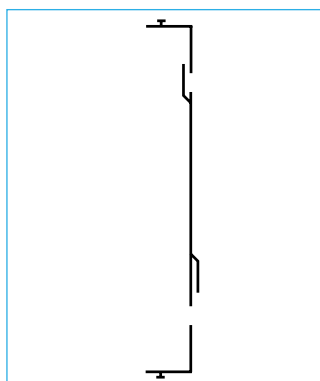
1. Install the top and bottom corner element.
2. Crop and screw-fix the French casement drive-gear with the reverse-action lever closed



Installation when using variable handle-height drivegears:

SRH 841 - 1250

1. Install the top and bottom corner element.
2. Crop the centre part with the reverse-action lever closed, insert (noting that the notch is opposite the handle centre) and screw-fix.



SRH 1251 - 1750

SRH 1751 - 2250

1. Install the top and bottom corner element.
2. Crop the centre part with the reverse-action lever closed, insert (noting that the notch is opposite the handle centre) and screw-fix.

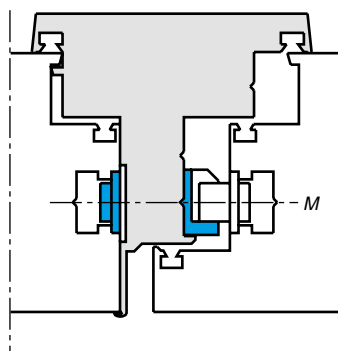
** SRW and SRH of 800 mm is a MACO recommendation, adhere to the profile manufacturers' specifications!*

Installation of the French window sash fittings with single piece striker

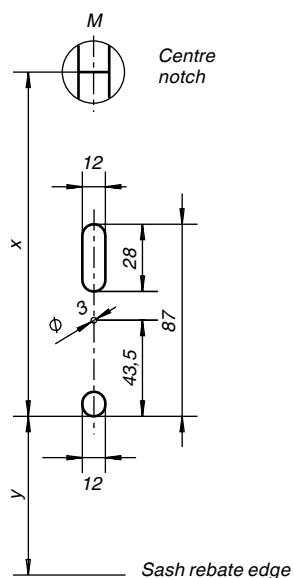
1. Install the top and bottom horizontal French window sash fittings
2. Crop and screw-fix the single piece door striker (only for i. S.).



French casement drive-gear without MM strikers



M = Centre hardware groove



Installation when using fixed handle-height drivegears:

1. Install the top and bottom corner element. For variable drives 1250, use concealed corner element (205973).
2. Crop and screw-fix the French casement drivegear with the reverseaction lever closed.

Reverse-action lever routing:

3. Cut the connection sleeve according to the floating mullion profile depth, assemble the French casement drive-gear in the closed position and screw-fix.
4. Open the reverse-action lever (with this, the centre-fixings are undone) Screw-fix a screw into the screw hole under the reverse-action lever.
5. Position the strikers using the installation jig.

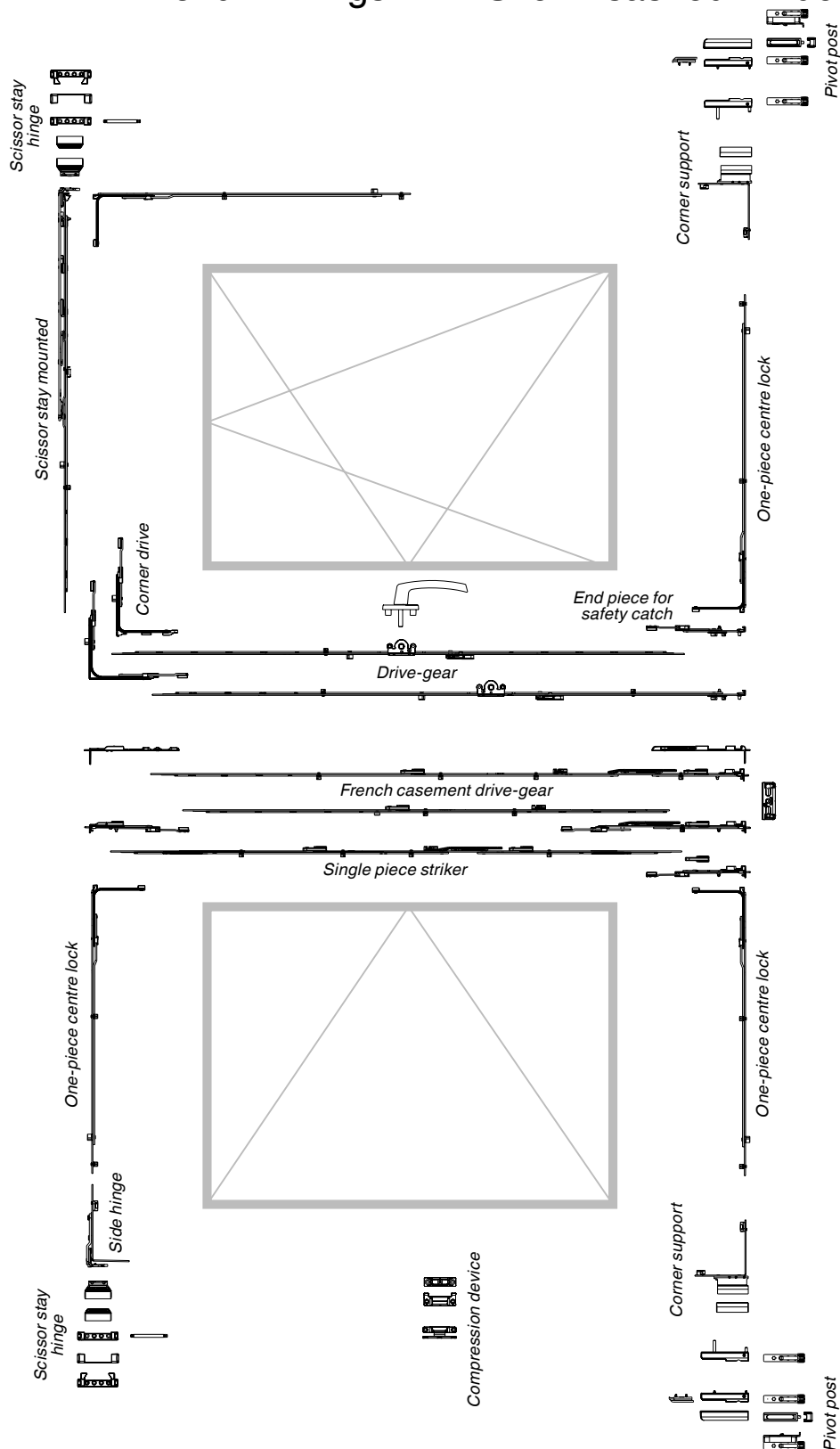


** SRW and SRH of 800 mm is a MACO recommendation, adhere to the profile manufacturers' specifications!*

Fix				Variable		
HD	SRH	X	Y	SRH	X	Y
190	431 - 660	132 mm	58 mm	841 - 1250	-	56 mm
300	661 - 840	242 mm	58 mm	1251 - 1750	242	-
400	841 - 1090	242 mm	158 mm	1751 - 2250	440	-
500	1091 - 1340	342 mm	158 mm			
600	1341 - 1590	442 mm	158 mm			
700	1591 - 1700	542 mm	158 mm			
1050	1701 - 2450	537 mm	513 mm			



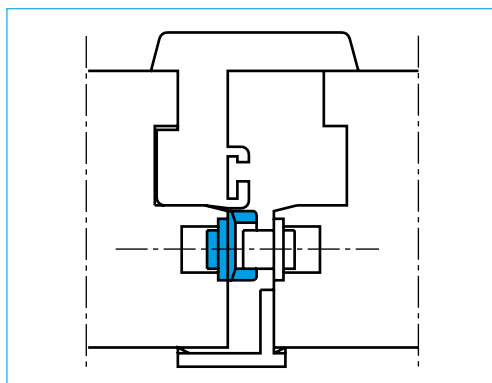
Tilt&Turn fittings MMKS for 2-sashed windows





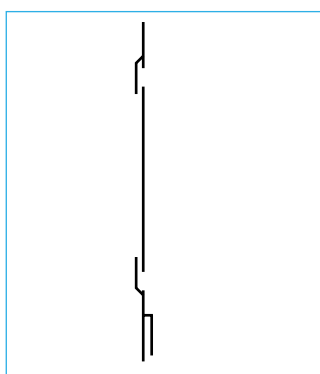
Installation of 2-sashed windows fittings components MMKS

French casement drive-gear with mounted strikers



Installation when using fixed handleheight drive-gears:

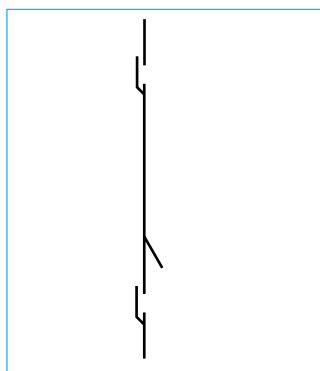
1. Insert and screw-fix the top end piece.
2. Crop the French casement drive-gear with the reverse-action lever closed – the same length as the fixed handle-height T&T drive-gear – and screw-fix.



Installation when using variable handle-height drivegears:

SRH 841 - 1250

1. Insert the top end piece.
2. Insert the bottom end piece.
3. Crop the centre part, insert (noting that the notch is opposite the handle centre) and screw-fix.



SRH 1251 - 1750

SRH 1751 - 2250

1. Insert the top and bottom end piece.
2. Crop the centre part with the reverse-action lever closed, insert (noting that the notch is opposite the handle centre) and screw-fix.

Shootbolt installation

1. Position the strikers with the jig and screwfix.
2. Position the top and bottom shootbolts and screw-fix.

Deadbolt striker installation

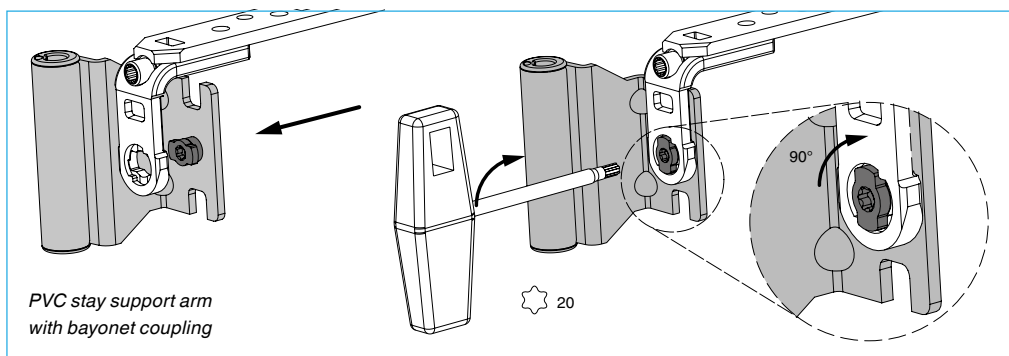
Mark the deadbolt strikers while the Turn-Only sash is hinged and then mount, or use jig 21398.

** SRW and SRH of 800 mm is a MACO recommendation, adhere to the profile manufacturers' specifications!*



Turn-Only hinge, pivot post and scissor stay hinge installation

1. Insert the Turn-Only hinge faceplate in the fittings groove and screwfix.
2. Clip in the pivot bearing for the Turn-Only hinge.
3. Clip on the stay support arm to the scissor stay end-bracket and turn the bayonet coupling with a TORX 20 bit (refer to the illustration).
4. Predrill and mount the corner support and pivot post as well as the scissor stay hinge, as described for Tilt&Turn fittings.



Compression device installation

Screw-fixed compression device

1. Press the sash lightly while the window is closed.
2. Position the compression device and screw-fix while pressed.
3. The centre-fixing (preset centred cam-fixing) is undone when the sash is opened.

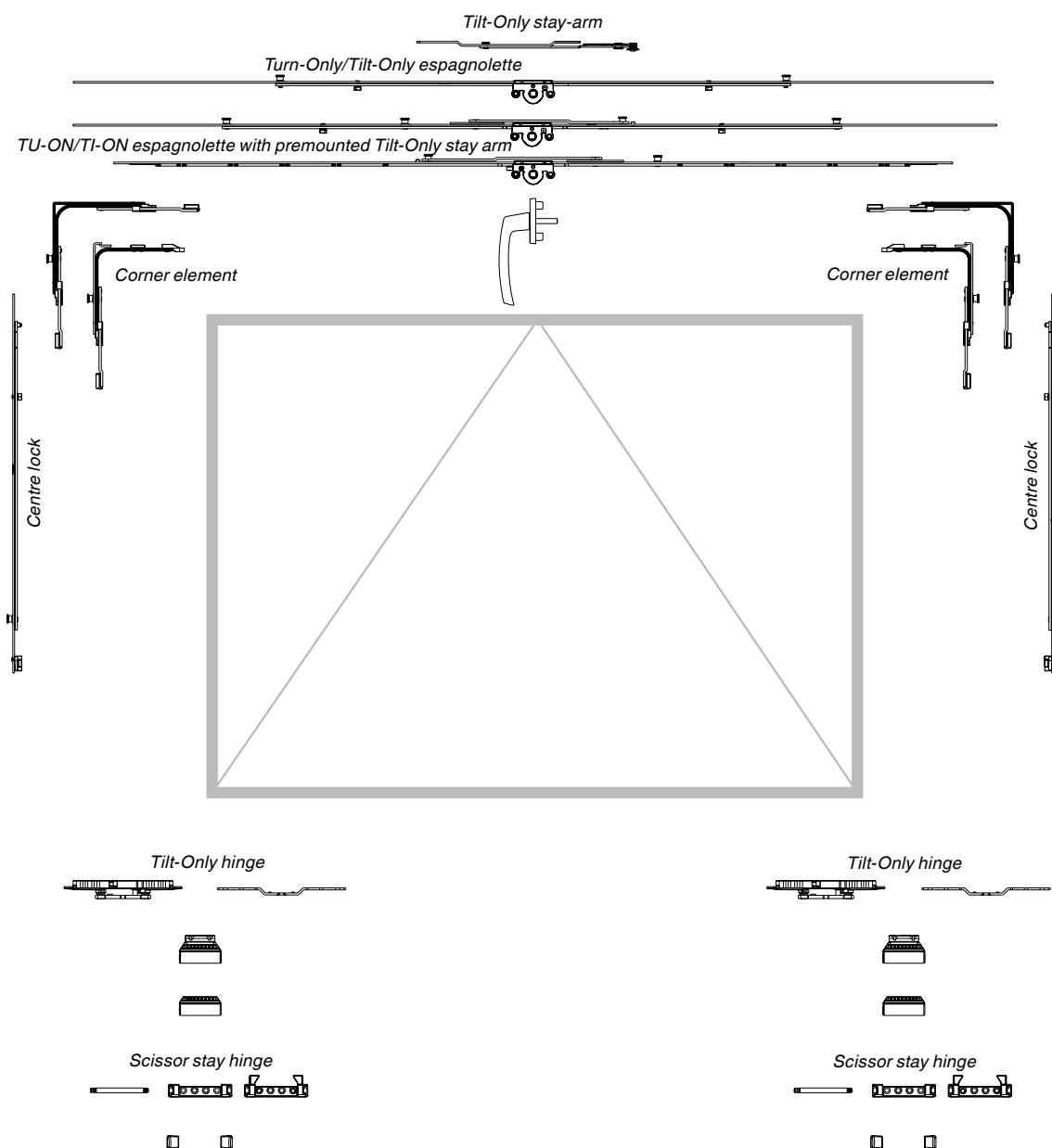
Universal compression device

Position the sash and frame component with the jig.

Please note:
The sash must have a eurogroove!



Tilt-Only fittings MM



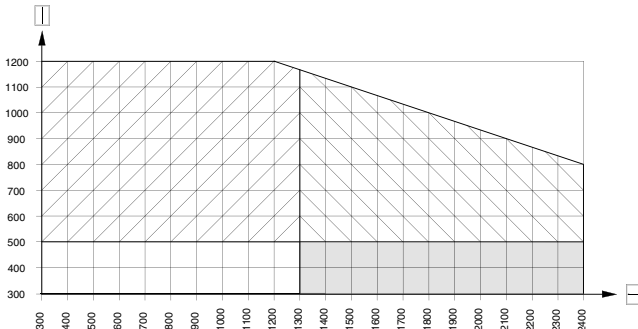
Attention:

From FFB 1000 mm, use a third tilt-only hinge!

For this use, the directive FPKF „restrictor and cleaning stays for tilt-only sashes and tilt skylights“ must be considered (www.schlossindustrie.de).

Fittings combination MM

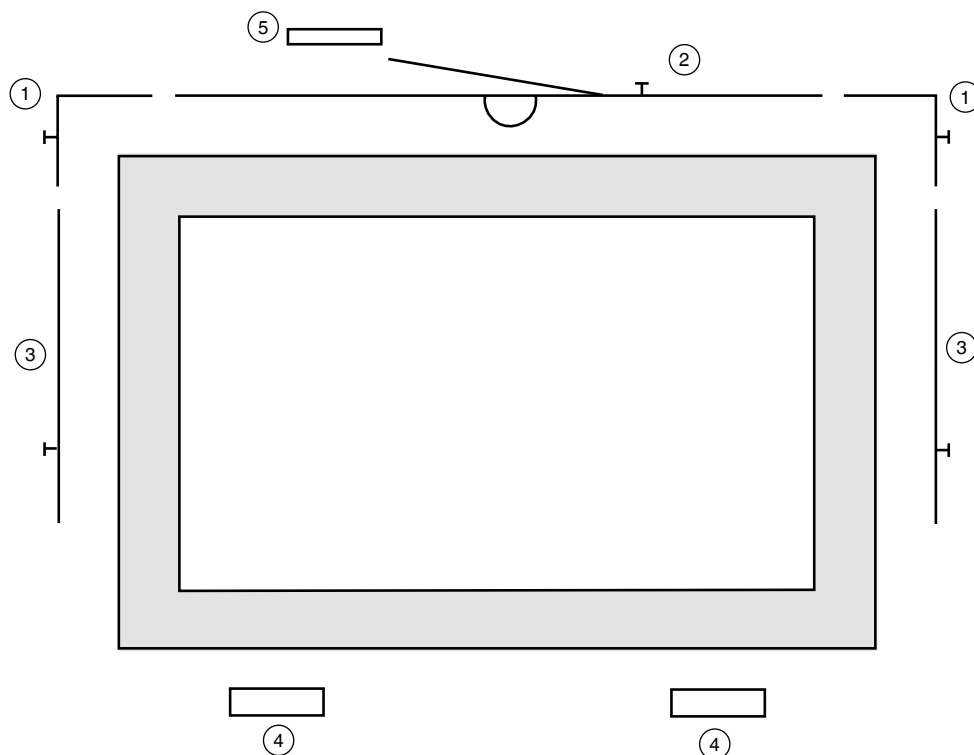
 The FPS application diagram must be observed for the use of FPS!



- ☐ 1 Tilt-Only stay arm + restrictor and cleaning stay size 1
- ☒ 1 Tilt-Only stay arm + restrictor and cleaning stay size 2
- ☐ 2 Tilt-Only stay arms + restrictor and cleaning stay size 1
- ☐ 2 Tilt-Only stay arms + restrictor and cleaning stay size 2



Installation and cropping of the MM sash fittings components



- Install the **corner element** (1).
- **Crop the TU.-ON./TI.-ON. espagnolette with Tilt-Only stay-arm** (2) and screw-fix together with the **corner element** (1) (use two Tilt-Only stay-arms from SRW 1200 mm).
- Install the **centre locks** (3) (from a SRH over 800 mm)*.
- Install the **Tilt-Only hinges** (4) (use a third Tilt-Only hinge from a SRW over 1000 mm or 60 kg sash weight).
PLEASE NOTE: Use glazing spacer-blocks on the window pane in the vicinity of the Tilt-Only hinges.
- Install the **Tilt-Only stay-arm housing** (5)
Mark the Tilt-Only stayarm's notch (Fig. 1, (1)) on the frame with a pencil, line up the

Tilt-Only stayarm housing's mark with the notch and mount (Fig. 1, (2)).

- Install the restrictor and cleaning stay. For this use, the directive FPKF „restrictor and cleaning stays for tilt-only sashes and tilt skylights“ must be considered (www.schlossindustrie.de).

** SRW and SRH of 800 mm is a MACO recommendation, adhere to the profile manufacturers' specifications!*



Cropping pattern

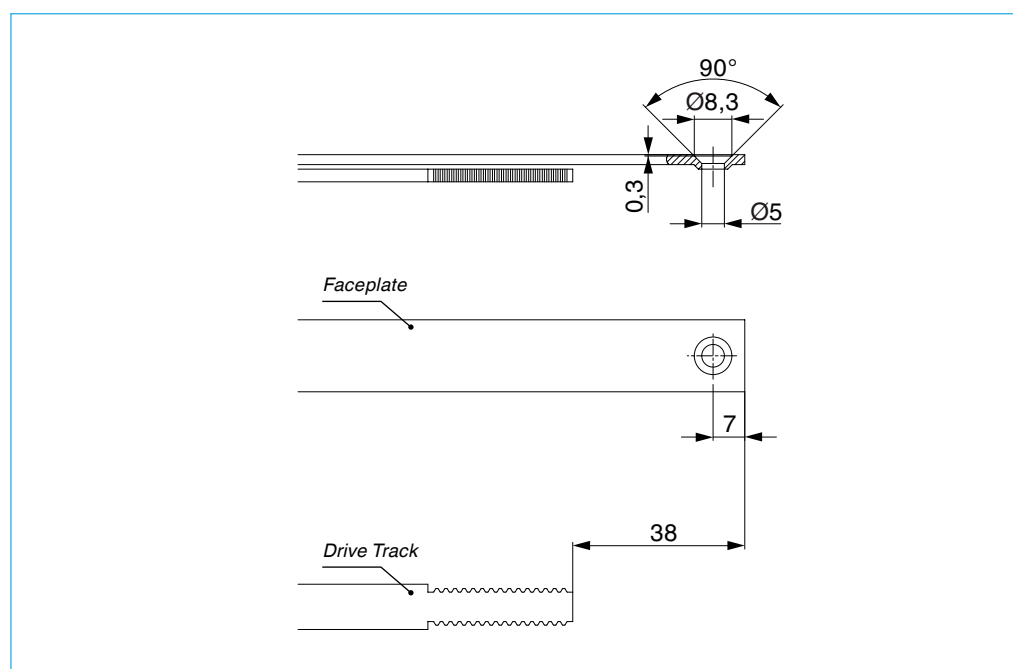


Fig. 1

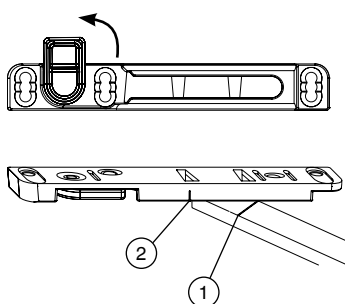
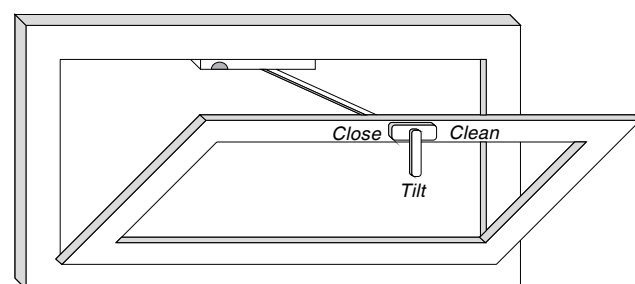


Fig. 2

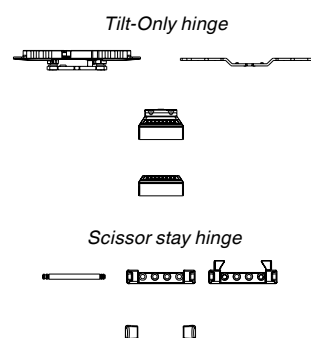
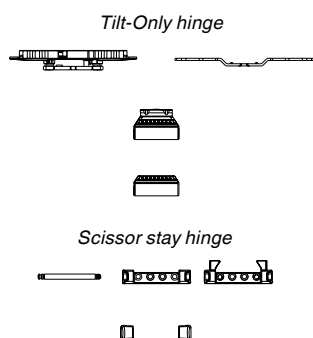
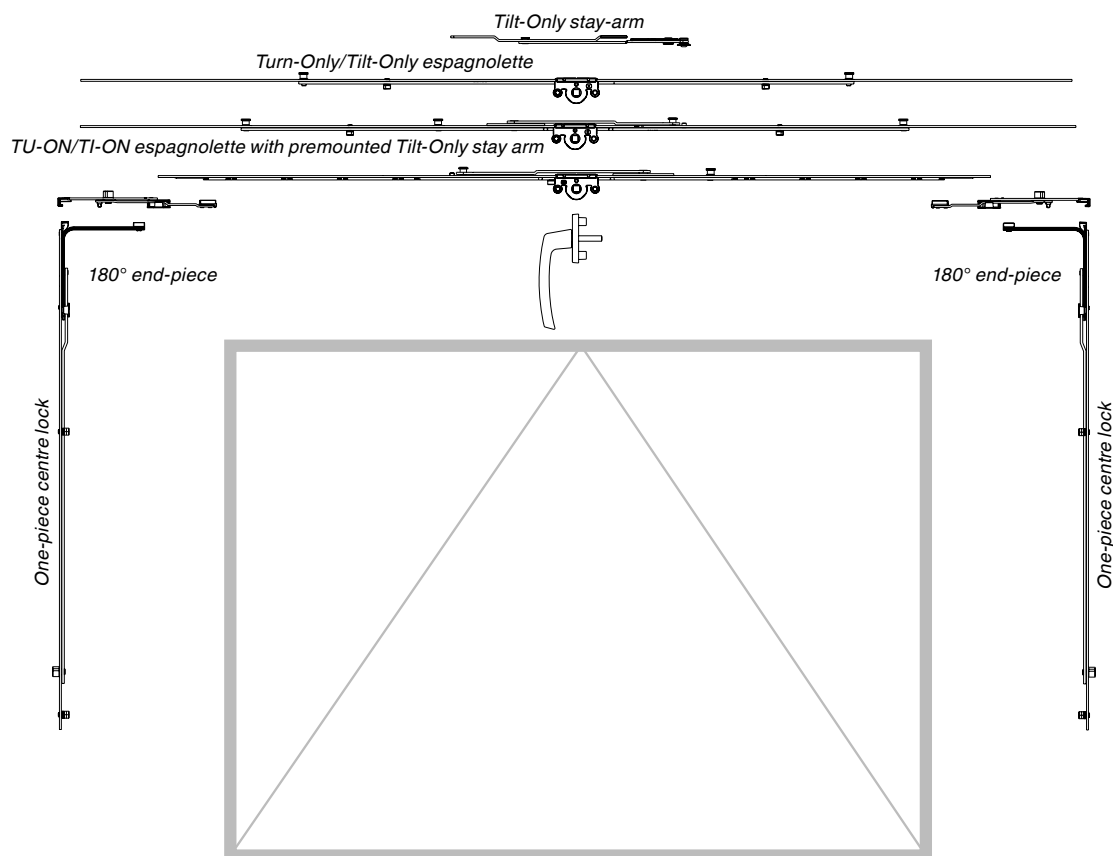


Hinging & unhinging the Tilt-Only stay arm

1. In order to hinge the sash, bring the window handle into the cleaning position (Fig. 2).
2. Open the safety device on the Tilt-Only stay-arm housing and hinge the scissor-stay arm (Fig. 1).
3. Bring the window handle into the tilt-mode (Fig. 2) and close the safety device again (Fig. 1).
1. When unhinging in the tilted position, open the safety device (Fig. 1).
2. Close the sash, bring the handle into the cleaning position and open the sash (Fig. 2).



Tilt-Only fittings MMKS



Attention:

From FFB 1000 mm, use a third tilt-only hinge!

For this use, the directive FPKF „restrictor and cleaning stays for tilt-only sashes and tilt skylights“ must be considered (www.schlossindustrie.de).

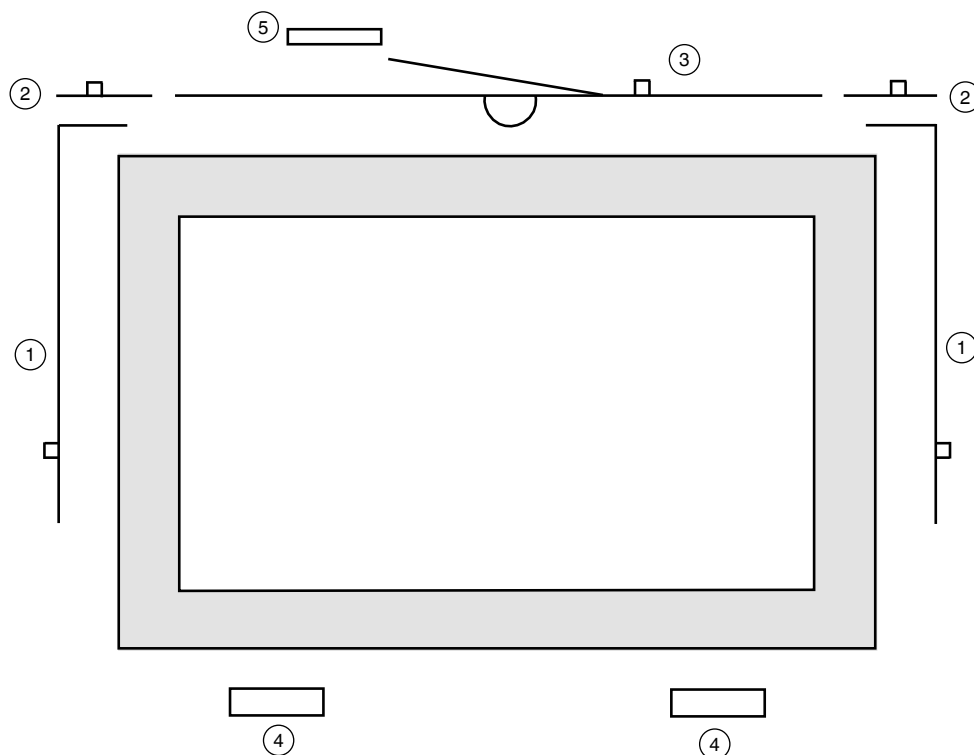


Fittings combination MMKS

	SRW	750-1250	1251-1700	1701-2200	2201-2400
SRH		1 VHH TU.-ON./TI.-ON. espag. preass. tilt-rocker 1 i. S. 2 end pieces 1 VZ 1 striker 2 Tilt-Only hinges 1 Tilt-Only stay-arm housing <i>Use a third Tilt-Only hinge on PVC from SRW 1000!</i> Use a restrictor and cleaning stay!!!	1 VHH TU.-ON./TI.-ON. espag. preass. tilt-rocker 2 i. S. 2 end pieces 1 VZ 2 strikers 3 Tilt-Only hinges 2 Tilt-Only stay-arm housings	1 VHH TU.-ON./TI.-ON. espag. preass. tilt-rocker 3 i. S. 2 end pieces 1 VZ 3 strikers 3 Tilt-Only hinges 2 Tilt-Only stay-arm housings	1 VHH TU.-ON./TI.-ON. espag. preass. tilt-rocker 3 i. S. 2 faceplate extensions 235 i. S. 2 end pieces 1 VZ 5 strikers 3 Tilt-Only hinges 2 Tilt-Only stay-arm housings
300 - 800	Restrictor and cleaning stay; refer to the application diagram!!!				
801 - 1200	2 one-piece centre locks 1280 1 VZ 2 strikers Restrictor and cleaning stay; refer to the application diagram!!!				
		The FPS application diagram must be observed for the use of FPS! ☐ 1 Tilt-Only stay arm + restrictor and cleaning stay size 1 ☒ 1 Tilt-Only stay arm + restrictor and cleaning stay size 2 ☐ 2 Tilt-Only stay arms + restrictor and cleaning stay size 1 ☒ 2 Tilt-Only stay arms + restrictor and cleaning stay size 2			

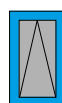


Installation and cropping of the MMKS sash fittings components



- Install the **one-piece centre locks** (1) (from a SRW over 800 mm)*.
- Install the **end pieces** (2) (couple with the centre locks if applicable).
- Crop the **TU.-ON./TI.-ON. espagnolette with Tilt-Only stay-arm** (3) and screw-fix together with the end pieces (use two Tilt-Only stay-arms from SRW 1200 mm).
- Install the **Tilt-Only hinges** (4) (use a third Tilt-Only hinge from a SRW over 1000 mm or 60 kg sash weight). PLEASE NOTE: Use glazing spacer-blocks on the window pane in the vicinity of the Tilt-Only hinges.
- Install the **Tilt-Only stayarm housing** (5) montieren. Mark the Tilt-Only stay-arm's notch (Fig. 1, (1)) on the frame with a pencil, line up the Tilt-Only stay-arm housing's mark with the notch and mount (Fig. 1, (2)).
- Install the restrictor and cleaning stay. For this use, the directive FPKF „restrictor and cleaning stays for tilt-only sashes and tilt skylights“ must be considered (www.schlossindustrie.de).

* SRW and SRH of 800 mm is a MACO recommendation, adhere to the profile manufacturers' specifications!





Cropping pattern

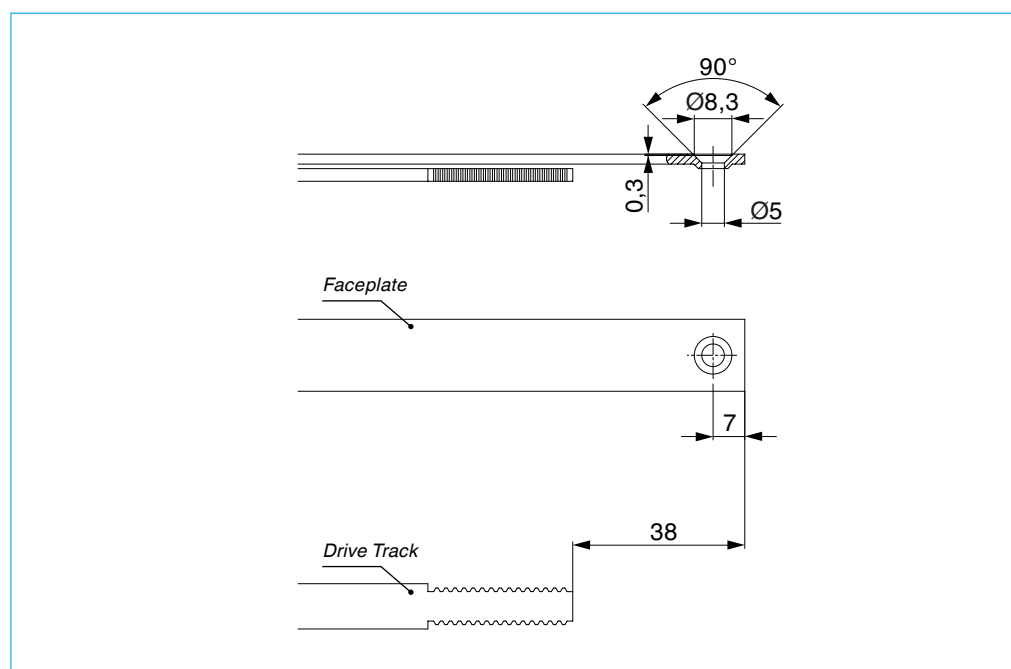


Fig. 1

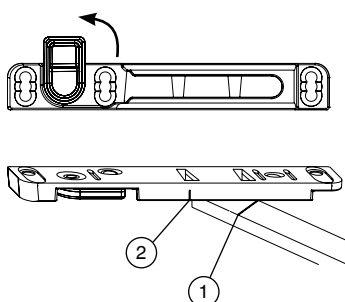
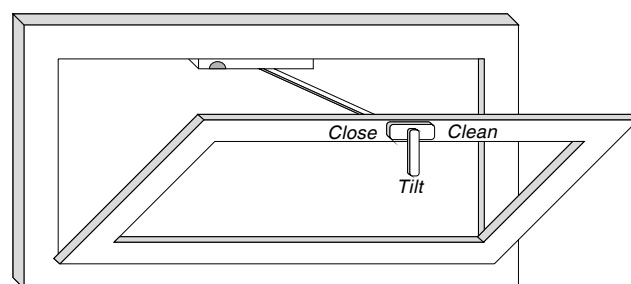


Fig. 2

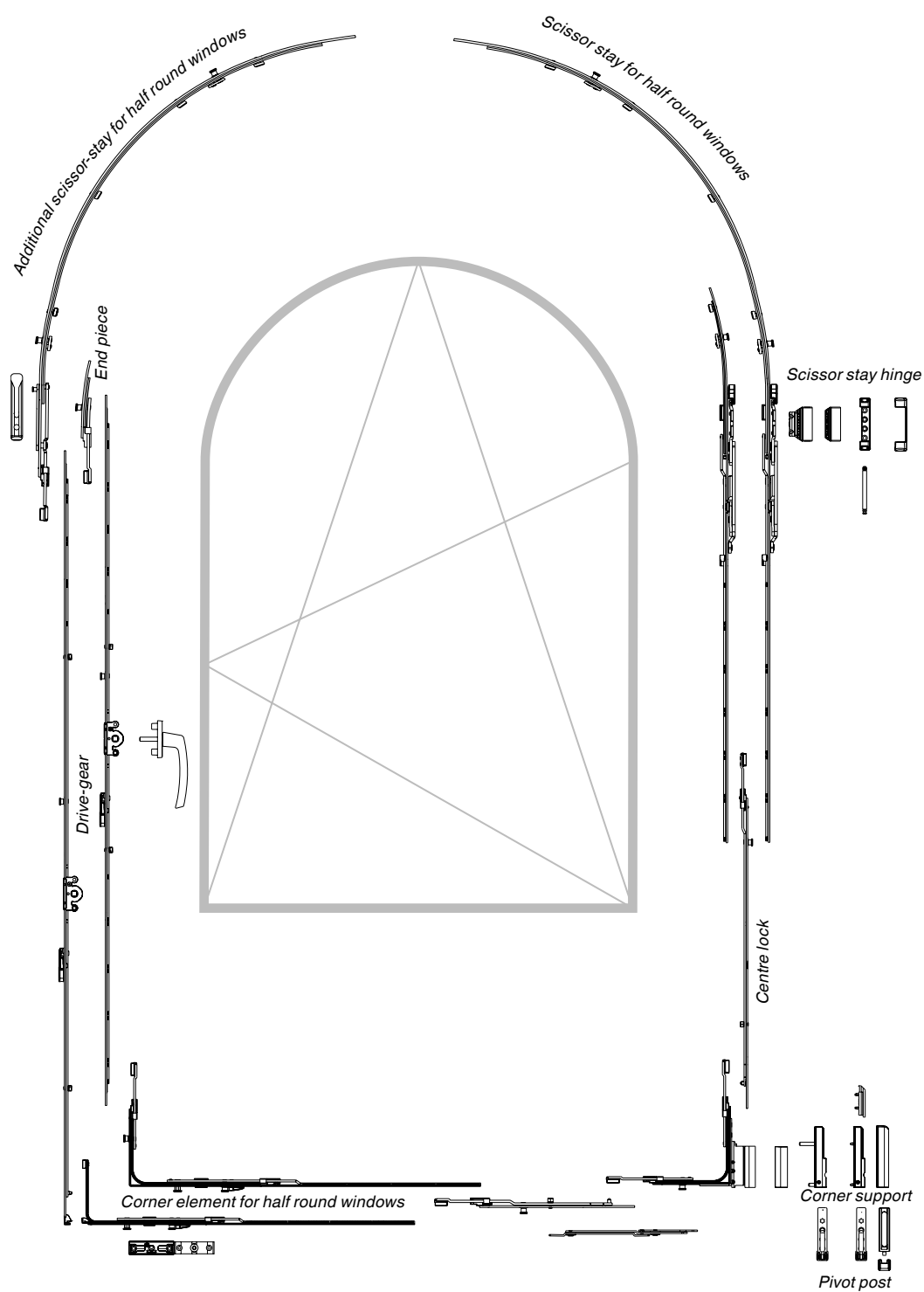


Hinging & unhinging the Tilt-Only stay arm

1. In order to hinge the sash, bring the window handle into the cleaning position (Fig. 2).
2. Open the safety device on the Tilt-Only stay-arm housing and hinge the scissor-stay arm (Fig. 1).
3. Bring the window handle into the tilt-mode (Fig. 2) and close the safety device again (Fig. 1).
1. When unhinging in the tilted position, open the safety device (Fig. 1).
2. Close the sash, bring the handle into the cleaning position and open the sash (Fig. 2).



Half round fittings MM

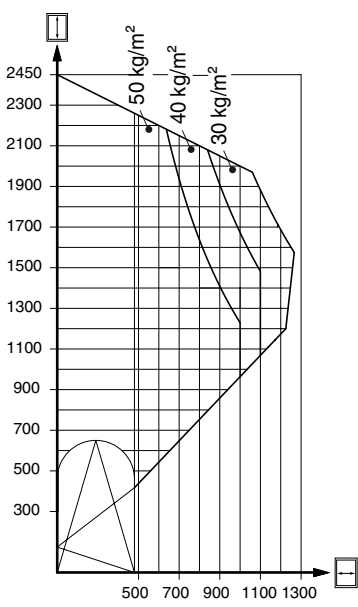




Fittings combination MM

	SRW	370 – 620	621 – 905	906 – 1140	1141 – 1250
SRH		1 half-round scissor-stay 620 1 Horizontal corner element for half round windows 1 i.S. striker 2 std strikers	1 half-round scissor-stay 1250 1 Horizontal corner element for half round windows 1 i.S. striker 4 std strikers 1 faceplate extension 235	1 half-round scissor-stay 1250 1 Horizontal corner element for half round windows 1 i.S. striker 4 std strikers 1 centre lock 1280V <i>Use an additional scissor-stay from SRW 1000 or 60 kg!</i>	1 half-round scissor-stay 1250 1 Horizontal corner element for half round windows 1 i.S. striker 4 std strikers 1 centre lock 1500V <i>Use an additional scissor-stay from SRW 1000 or 60 kg!</i>
370 - 430	1 T&T drive-gear 430 1 top end-piece 1 corner element 1 i.S.				
431 - 660	1 T&T drive-gear 660 1 top end-piece 1 corner element 1 i.S. 1 std striker 1 sash lifter				
661 - 840	1 T&T drive-gear 840 1 top end-piece 1 corner element 1 i.S. 2 std strikers 1 sash lifter <i>From SRH 781 use SV 235; additional ST required!</i>				
841 - 1090	1 T&T drive-gear 1090 1 top end-piece 1 corner element 1 i.S. 1 faceplate ext. 235 3 std strikers 1 sash lifter <i>Use CL 1280V instead of faceplate extension 235 from SRH 1011!</i>				
1091 - 1340	1 T&T drive-gear 1340 1 top end-piece 1 corner drive 1i.S 1 centre lock 1280V 3 std strikers 1 sash lifter <i>Use CL 1500V instead of 1280V from SRH 1246!</i>				
1341 - 1590	1 T&T drive-gear 1590 1 top end-piece 1 corner element 1 i.S. 1 centre lock 1500V 3 std strikers 1 sash lifter <i>From SRH 1481 use SV 235; additional ST required!</i>				
1701 - 1950	1 T&T drive-gear 1950 1 top end-piece 1 corner element 1 i.S. 1 centre lock 1500V 1 centre lock 1280V 6 std strikers 1 sash lifter				
1951 - 2200	1 T&T drive-gear 2200 1 top end-piece 1 corner element 1 i.S. 1 centre lock 1500V 1 centre lock 1500V 6 std strikers 1 sash lifter				

 **Application diagram for half round windows up to 80 kg sash weight**

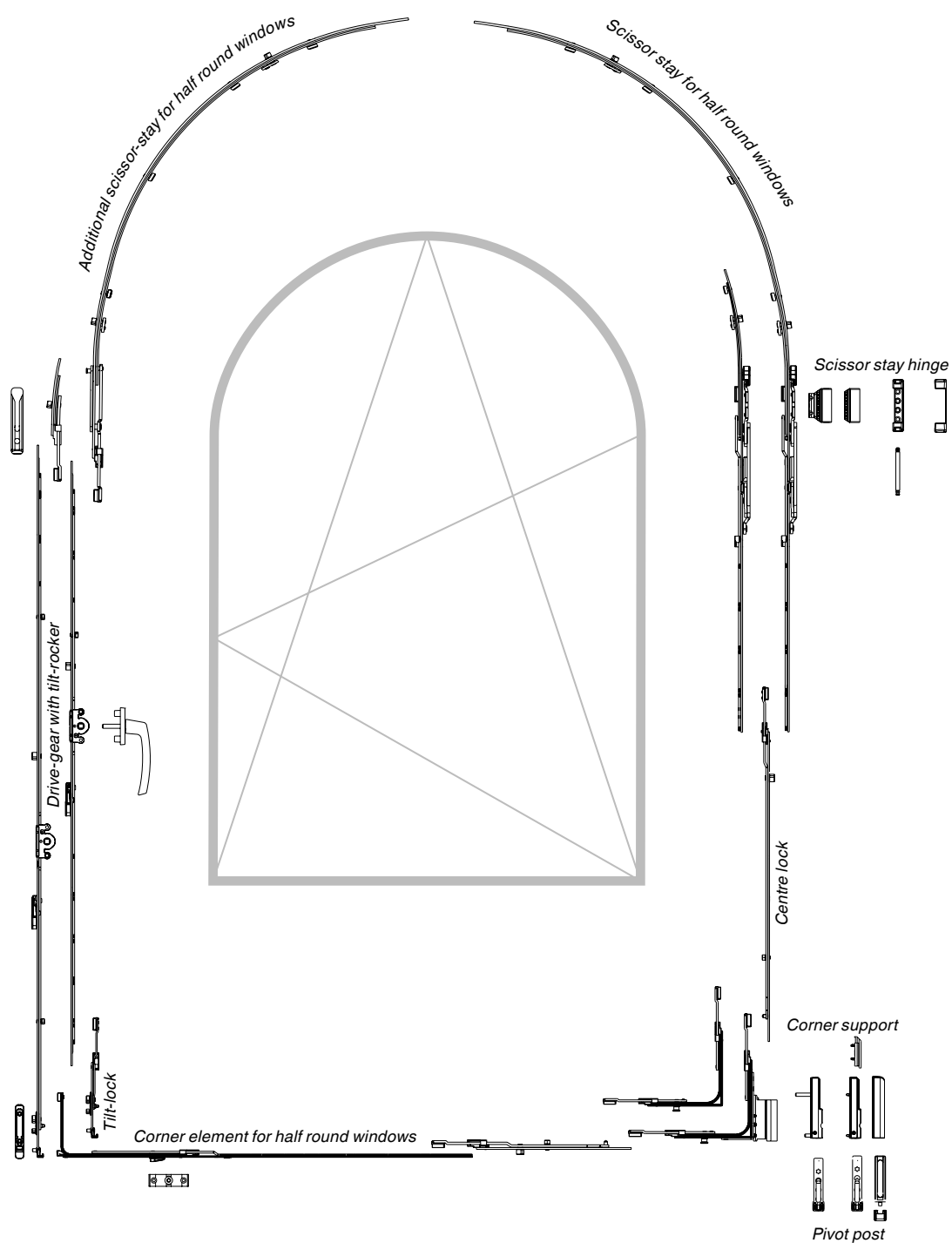


The diagram is a graph with the vertical axis representing window height in mm (ranging from 300 to 2450) and the horizontal axis representing window width in mm (ranging from 500 to 1300). Three curves are plotted, representing different weight limits: 50 kg/m², 40 kg/m², and 30 kg/m². A shaded region indicates the area where the window weight is within the specified limits. A small diagram of a half-round window is shown in the bottom left corner of the graph area.

The use of a sash lifter striker and run up wedge is compulsory (refer to page 46/ Fig. 1)!



Half round fittings MMKS



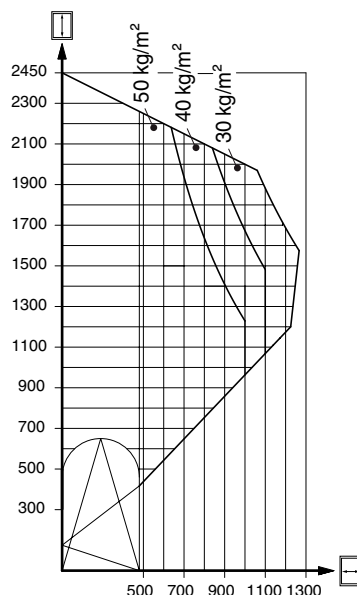


Fittings combination MMKS

	SRW	370 – 620	621 – 905	906 – 1140	1141 – 1250
SRH		1 half-round scissor-stay 620 1 i.S. 1 horizontal HR corner element 3 std strikers	1 half-round scissor-stay 1250 2 i.S. 1 horizontal HR corner element 5 std strikers 1 faceplate extension 235 1 i.S.	1 half-round scissor-stay 1250 2 i.S. 1 horizontal HR corner element 5 std strikers 1 centre lock 1280V 1 i.S. <i>Use an additional scissor-stay from SRW 1000 or 60 kg!</i>	1 half-round scissor-stay 1250 2 i.S. 1 horizontal HR corner element 5 std strikers 1 centre lock 1500V 1 i.S. <i>Use an additional scissor-stay from SRW 1000 or 60 kg!</i>
370 - 430	1 TU-ON / T&T drive-gear 430 1 top end-piece 1 i.S. 1 corner element 1 VZ 1 std striker 1 tilt striker				
431 - 660	1 TU-ON / T&T drive-gear 660 1 top end-piece 1 i.S. 1 corner element 1 VZ 1 std striker 1 tilt striker				
661 - 840	1 T&T drive-gear 840 1 VZ 1 top end-piece 1 i.S. 1 corner element 1 VZ 2 std strikers 1 sash lifter 1 tilt striker <i>From SRH 781 use SV 235; additional ST required!</i>				
841 - 1090	1 T&T drive-gear 1090 1 VZ 1 top end-piece 1 i.S. 1 corner element 1 VZ 1 faceplate ext. 235 1 i.S. 3 std strikers 1 sash lifter 1 tilt striker <i>From SRH 1011: CL 1280V instead of SV 235!</i>				
1091 - 1340	1 T&T drive-gear 1340 1 VZ 1 top end-piece 1 i.S. 1 corner element 1 VZ 1 centre lock 1280V 1 i.S. 3 std strikers 1 sash lifter 1 tilt striker <i>From SRH 1246: CL 1500V instead of 1280V!</i>				
1341 - 1590	1 T&T drive-gear 1590 2 VZ 1 top end-piece 1 i.S. 1 corner element 1 VZ 1 centre lock 1500V 1 i.S. 4 std strikers 1 sash lifter 1 tilt striker <i>From SRH 1481 use SV 235; additional ST required!</i>				
1591 - 1700	1 T&T drive-gear 1700 2 VZ 1 top end-piece 1 i.S. 1 corner element 1 VZ 1 centre lock 1500V 1 i.S. 1 centre lock 1280V 1 i.S. 5 std strikers 1 sash lifter 1 tilt striker				
1701 - 1950	1 T&T drive-gear 1950 3 VZ 1 top end-piece 1 i.S. 1 corner element 1 VZ 1 centre lock 1500V 1 i.S. 1 centre lock 1280V 1 i.S. 6 std strikers 1 sash lifter 1 tilt striker				
1951 - 2200	1 T&T drive-gear 2200 3 VZ 1 top end-piece 1 i.S. 1 corner element 1 VZ 1 centre lock 1500V 1 i.S. 1 centre lock 1500V 1 i.S. 6 std strikers 1 sash lifter 1 tilt striker				



**Application diagram for half round windows
up to 80 kg sash weight**



The use of a sash lifter striker and run up wedge is compulsory (refer to page 46/Fig. 1)!



Installation and cropping of the sash fittings components MM/MMKS

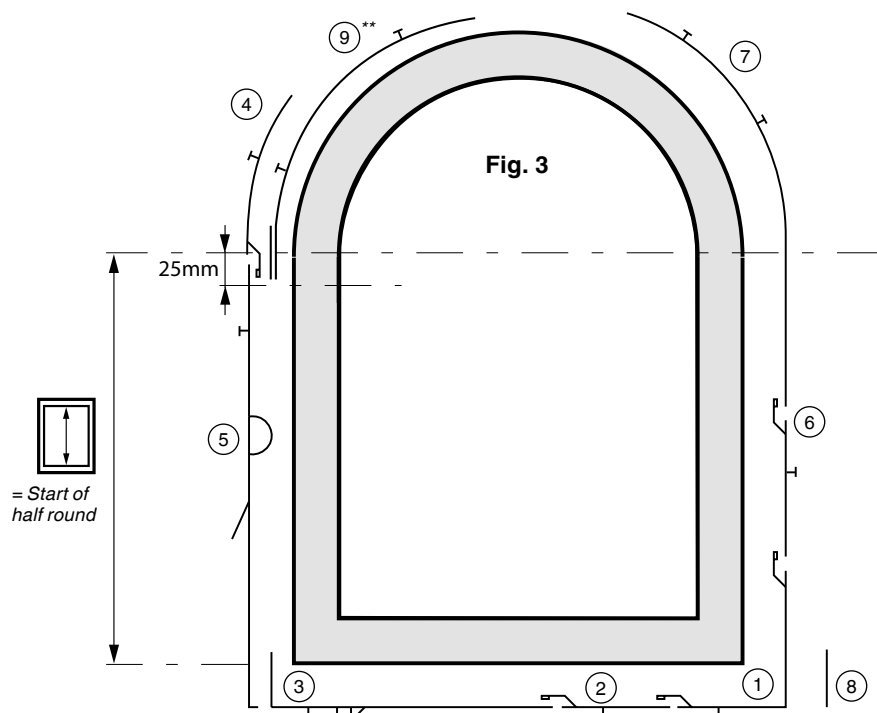


Fig. 1

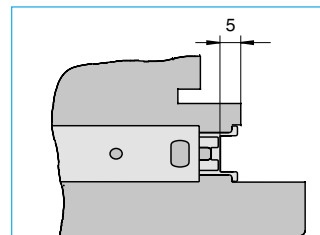
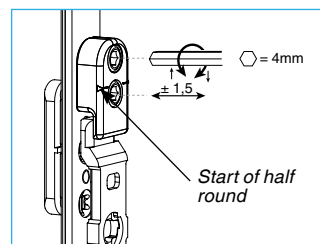


Fig. 2



- Attach the corner support jig (no. 21562/ 21564) and predrill (refer to page 19/ Fig. 1)
- Insert **corner element** ① opening on the SRW faceplate extension / Insert centre lock ② and screw-fix together.
- Crop the half **corner element** ③ / extend and screw-fix together with the corner element (Fig. 1).
- Install **top end-piece** ④ or **additional scissor-stay*** ⑨ (if required).
PLEASE NOTE:
Notch on stabilising stayarm = 25 mm below the start of half round (refer to Fig. 3)
- Crop and install the **drivegear** ⑤.
- Depending on the SRH, insert a **faceplate extension** or **centre lock** ⑥ and screw-fix with the corner element.
- Crop the **half round scissor stay** ⑦ position the notch at the start of the half round (Fig. 2.). Bring the mounted scissor stay into the tilt-mode in order to screw-fix all screws (screws under the scissor-stay arm!) Bring the scissor stay back into the turn-mode!
- Attach and screw-fix the **corner support** ⑧ to the rebate-leg.
- The centre-fixings (preset centred cam-fixing) are activated upon operating the fittings for the first time.
- The sash lifter on the drive-gear must be activated by tilting it outwards.
- **Remove the locking screw** (refer to the red sticker on the fitting) from the scissor-stay arm!

*From SRW 1000 mm or 60 kg sash weight





2-sashed half round window MM

Specify the SRH up to the beginning of the half round when selecting the drive-gear for 2-sashed half round windows.

- ① Drive-gear
- ② Corner element for angled windows
- ③ Corner element
- ④ Horizontal corner element for half round windows
- ⑤ Vertical corner element
- ⑥ Scissor stay for half round windows
- ⑦ Centre lock
- ⑧ Pivot post
- ⑨ Corner support
- ⑩ Half round Turn-Only hinge
- ⑪ Compression device

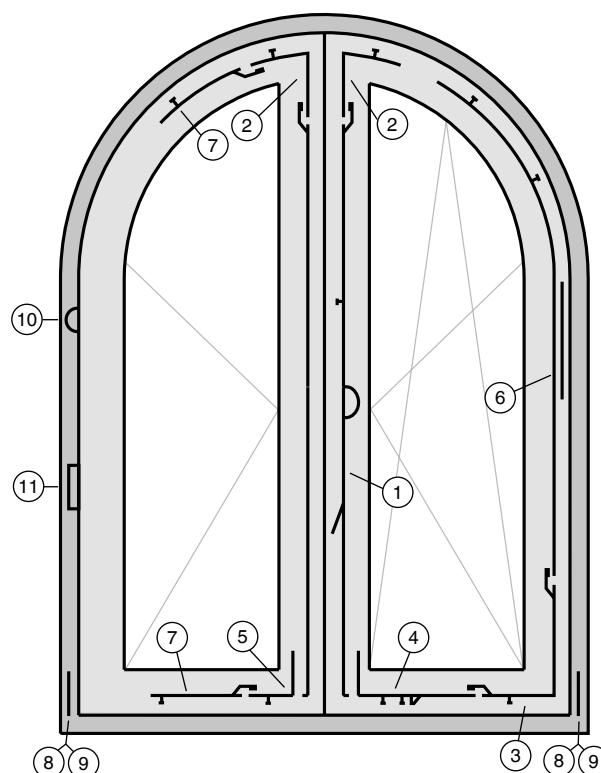
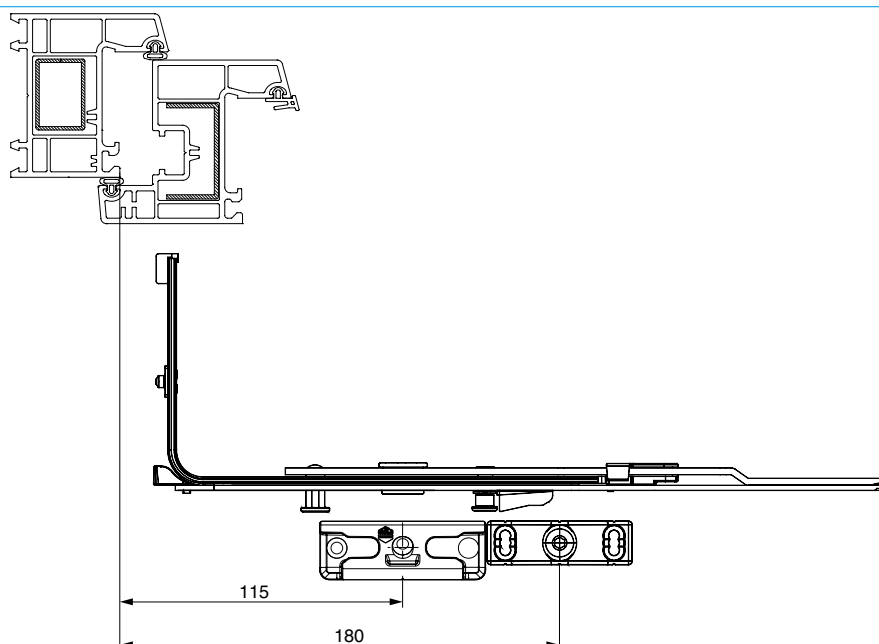


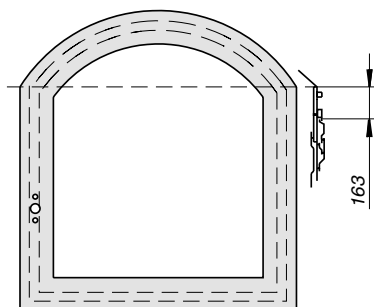
Fig. 1





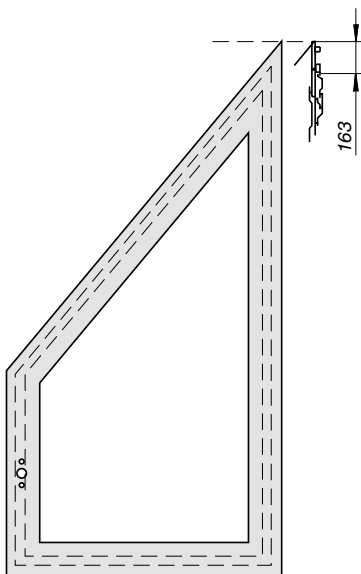
Half-round fittings for use on segmental arched, angled or elliptical arched windows

Position the notch of the half round scissor stay 163 mm below the start of the rounding!



Segmental arched windows

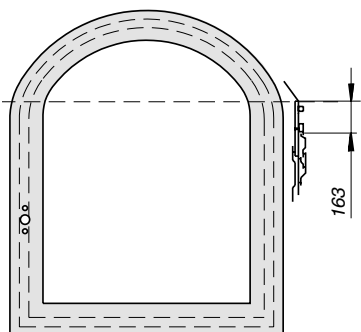
Use the angled window corner element and centre lock horizontally from an arc length of 1000 mm. Only use scissor stay 620! The application range on the hinge-side is changed by 163 mm.



Angled windows

In the case of application ranges larger than $+50^\circ$ or smaller than -15° , a locking point cannot be located in the slope. Only use scissor stay 620! The hinge-side application range changes by 163 mm.

The maximum angle of $+50^\circ$ or -15° cannot be reached with all profiles!



Elliptical arched windows

Here the half round scissor stay 1250 or the half round additional scissor-stay can be used as a centre lock. The hinge-side application range changes by 163 mm.

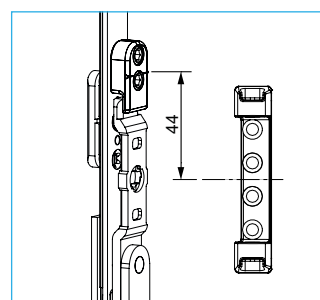
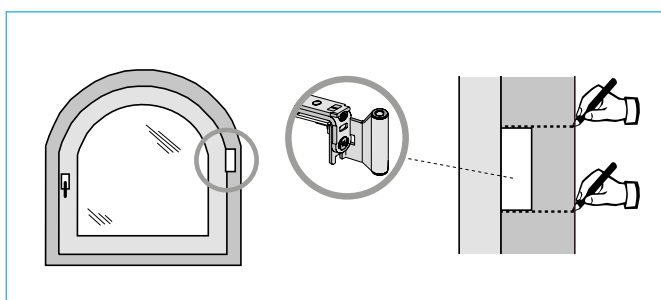




Frame installation

Refer to the 1-sashed windows installation instructions for pivot post drilling procedures.

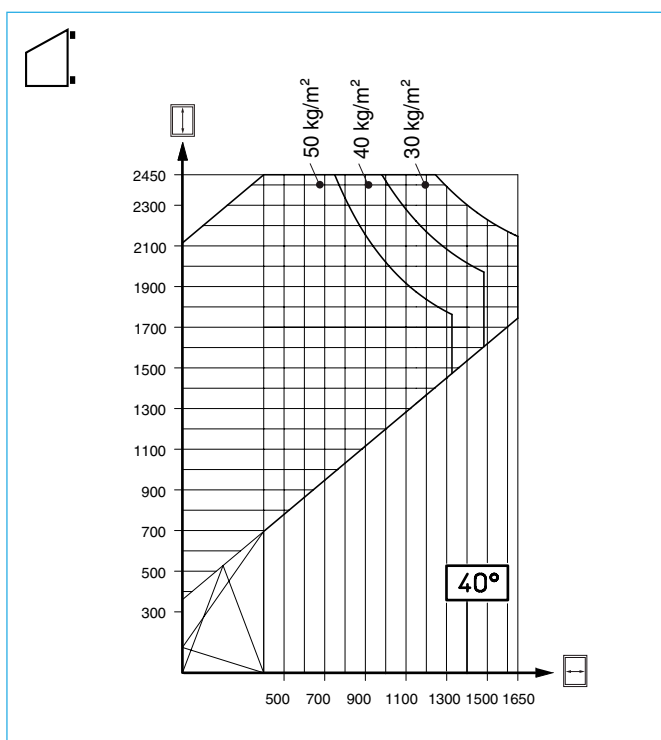
Carry out the scissor stay hinge drilling with the designated stick-on drill jig. (put in the sash, mark stay support arm, position stick-on jig (refer to Fig.) and predrill with 3 mm or 5 mm drill bit)!



Closing parts must be traced in the arch. Drive-gear sided and bottom horizontal strikers are installed in the same manner as on 1-sashed windows.

Application diagram

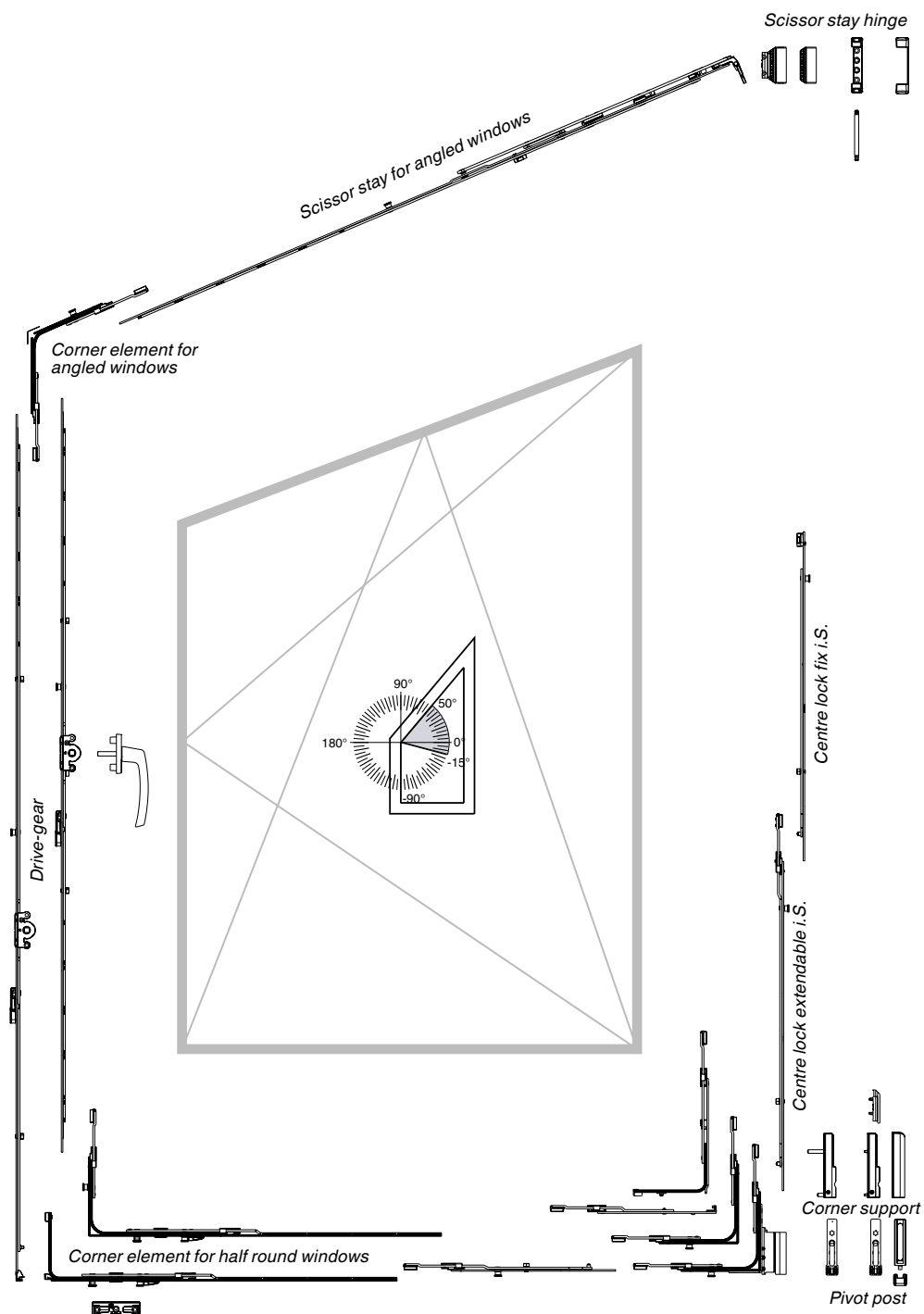
Use of half-round scissor-stay on angled windows



The application diagram for half round windows applies to angled windows from -1° to -15° (refer to page 42/44).



Angled window fittings MM





Fittings combination MM

	SRW	430 – 630	500 – 800	801 – 1050	1051 – 1300
FFH		1 angled window scissor-stay 630 1 striker i.S. 2 std strikers	1 angled window scissor-stay 800 1 striker i.S. 2 or 3 std strikers <i>Use faceplate extension 140 or 235 from SRW 671!</i> 140 up to SRW 810 / 235 up to SRW 905	1 angled window scissor-stay 1050 1 striker i.S. 4 std strikers 1 faceplate extension 235 <i>Use CL 1280V instead of faceplate extension 235 from SRW 906!</i>	1 angled window scissor-stay 1300 1 striker i.S. 4 std strikers 1 centre lock 1280V <i>Use CL 1500V instead of CL 1280V from SRH 1141!</i> <i>Use additional scissor-stay up to SRW 1650!</i>
360 - 430	1 T&T drive-gear 430 1 corner element for PW 1 i.S. 1 corner element 1 i.S. 1 hor. corner element for HR				
431 - 660	1 T&T drive-gear 660 1 corner element for PW 1 i.S. 1 corner element 1 i.S. 1 hor. corner element for HR 1 std striker / 1 sash lifter				
661 - 840	1 T&T drive-gear 840 1 corner element for PW 1 i.S. 1 corner element 1 i.S. 1 hor. corner element for HR 1 std striker / 1 sash lifter				
841 - 1090	1 T&T drive-gear 1090 1 corner element for PW 1 i.S. 1 corner element 1 i.S. 1 hor. corner element for HR 1 centre lock 1280 2 std strikers / 1 sash lifter				
1091 - 1340	1 T&T drive-gear 1340 1 corner element for PW 1 i.S. 1 corner element 1 i.S. 1 hor. corner element for HR 1 centre lock 1280 2 std strikers / 1 sash lifter				
1341 - 1590	1 T&T drive-gear 1590 1 corner element for PW 1 i.S. 1 corner element 1 i.S. 1 hor. corner element for HR 1 centre lock 1500 3 std strikers / 1 sash lifter				
1591 - 1700	1 T&T drive-gear 1700 1 corner element for PW 1 i.S. 1 corner element 1 i.S. 1 hor. corner element for HR 1 centre lock 1500V 1 centre lock 1280 5 std strikers / 1 sash lifter				
1701 - 1950	1 T&T drive-gear 1950 1 corner element for PW 1 i.S. 1 corner element 1 i.S. 1 hor. corner element for HR 1 centre lock 1500V 1 centre lock 1500 5 std strikers / 1 sash lifter				
1951 - 2200	1 T&T drive-gear 2200 1 corner element for PW 1 i.S. 1 corner element 1 i.S. 1 hor. corner element for HR 1 centre lock 1500V 1 centre lock 1500 5 std strikers / 1 sash lifter				
2201 - 2450	1 T&T drive-gear 2450 1 corner element for PW 1 i.S. 1 corner element 1 i.S. 1 hor. corner element for HR 1 centre lock 1500V 1 centre lock 1500 6 std strikers / 1 sash lifter				

**Note different application diagrams
depending on the slant (MULTI-MATIC 49778 Catalogue)!**



Installation of the sash fittings components MM

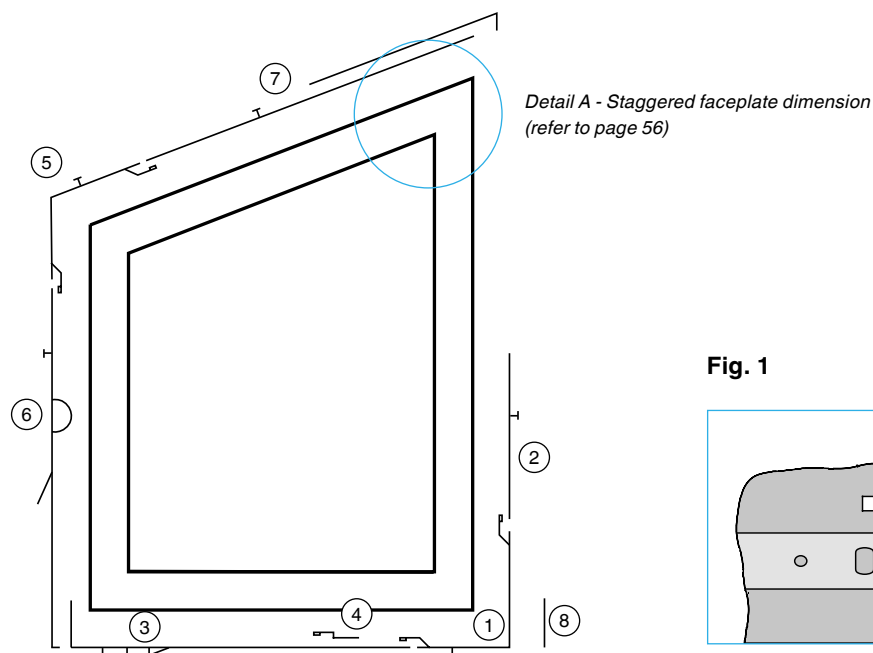
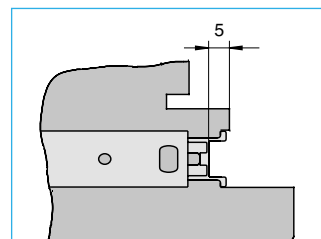


Fig. 1



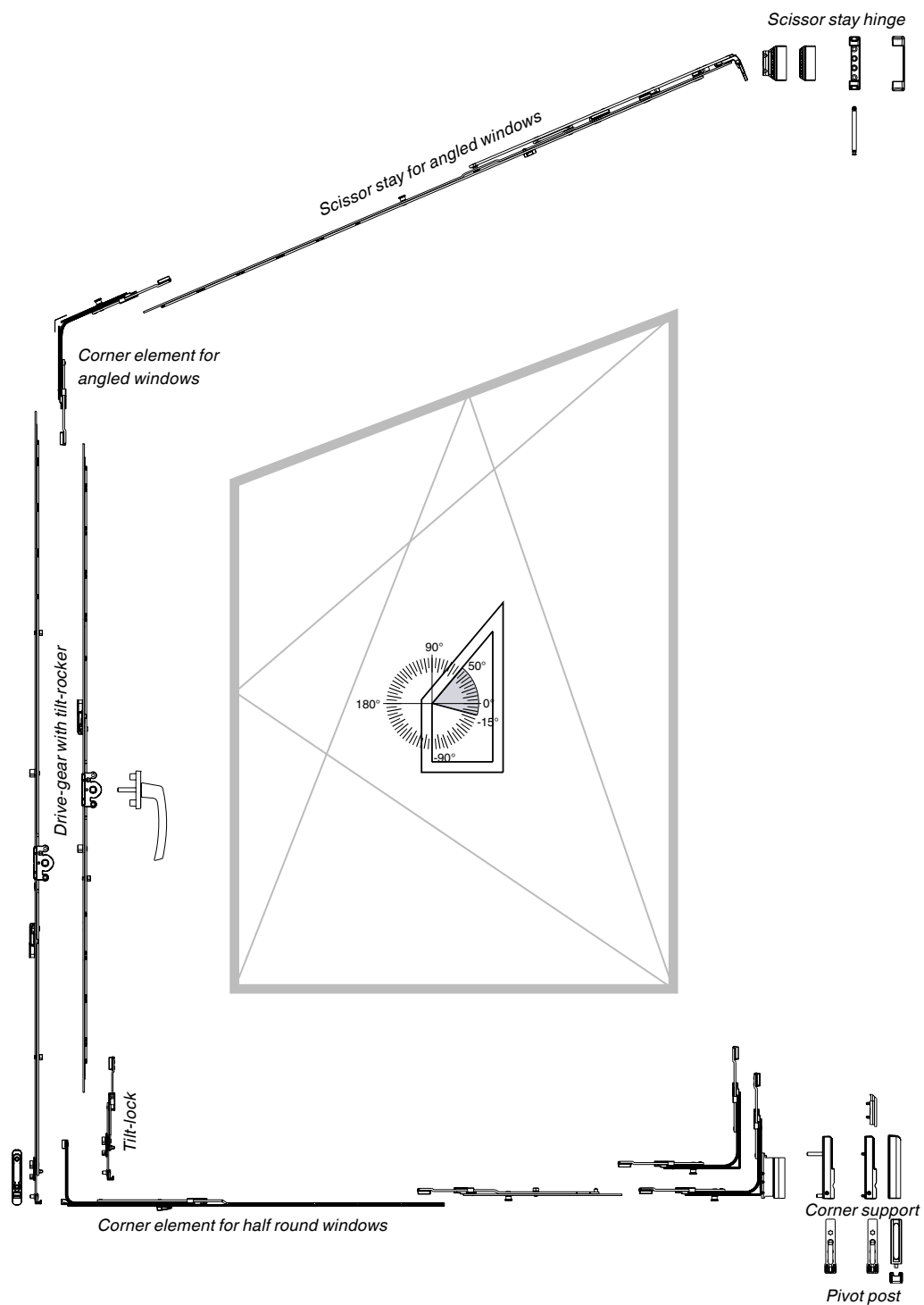
- Attach the corner support jig (no. 21562/ 21564) and predrill (refer to page 19/ Fig. 1)
- Insert the **corner element** ① Insert the corner element.
(couple with **centre lock** ② if SRH is over 800 mm)* and screw-fix.
- Crop the **half round corner element** ③ / extend ④ and screw-fix together with the corner element. (Fig. 1).
- Install the **corner element for angled windows** ⑤.
- Crop the **drive-gear** ⑥ and screw-fix together with the corner elements.
- Crop the **angled window scissor-stay** ⑦ / extend and screw-fix together with the corner element for angled windows (Note the staggered faceplate dimension, refer to page 56/ Fig. 1).
- Attach and screw-fix the **corner support** ⑧ to the rebate-leg.
- The centre-fixings (preset centred cam-fixing) are activated upon operating the fittings for the first time
- The sash lifter on the drive-gear must be activated by tilting it outwards.

**SRW and SRH of 800 mm is a MACO recommendation, adhere to the profile manufacturers' specifications!*





Angled window fittings MMKS





Fittings combination MMKS

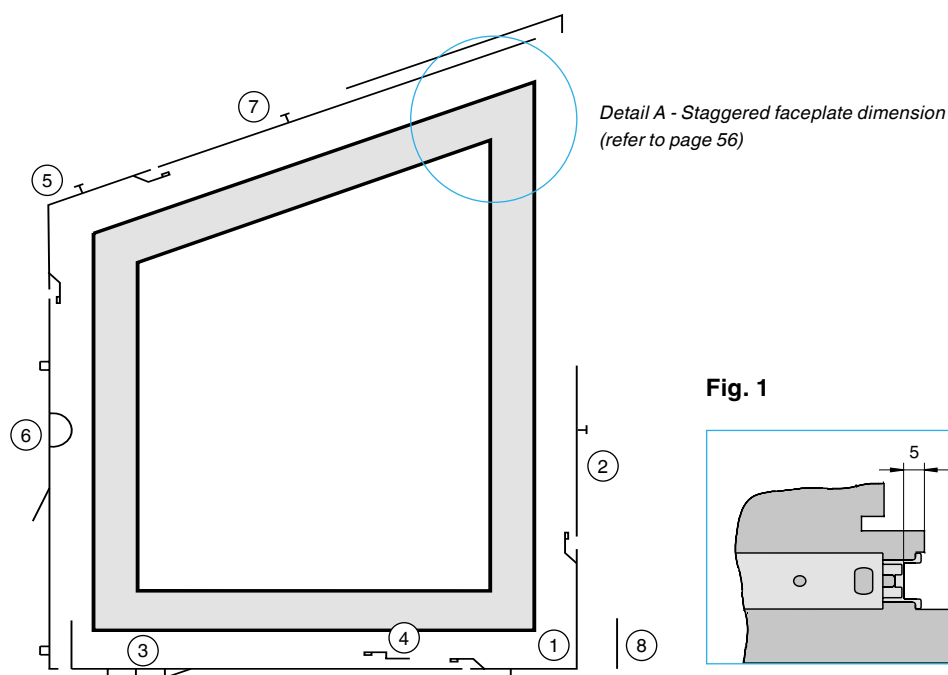
	SRW	430 – 630	500 – 800	801 – 1050	1051 – 1300
SRH		1 angled window scissor-stay 630 1 horizontal corner element for HR 1 end piece 180° 1 VZ 3 std strikers	1 angled window scissor-stay 800 1 horizontal corner element for HR 1 end piece 180° 1 VZ 3 or 4 std strikers <i>Use faceplate extension 140 or 235 from SRW 671!</i> 140 up to SRW 810 / 235 up to SRW 905	1 half-round scissor-stay 1050 1 i.S. 1 horizontal corner element for HR 1 faceplate extension 235 1 i.S. 1 end piece 180° 1 VZ 5 std strikers <i>Use CL 1280V instead of faceplate extension 235 from SRW 906!</i>	1 half-round scissor-stay 1050 1 i.S. 1 horizontal corner element for HR 1 faceplate extension 235 1 i.S. 1 end piece 180° 1 VZ 5 std strikers <i>Use CL 1280V instead of faceplate extension 235 from SRW 906!</i>
360 - 430	1 T&T drive-gear 430 1 corner element for PW 1 i.S. 1 tilt striker				
431 - 660	1 T&T drive-gear 660 1 corner element for PW 1 i.S. 1 tilt striker 1 sash lifter				
661 - 840	1 T&T drive-gear 840 1VZ 1 corner element for PW 1 i.S. 1 tilt striker 1 std striker 1 sash lifter				
841 - 1090	1 T&T drive-gear 1090 1VZ 1 corner element for PW 1 i.S. 1 centre lock 1280 1VZ 1 tilt striker 2 std strikers 1 sash lifter				
1091 - 1340	1 T&T drive-gear 1340 1VZ 1 corner element for PW 1 i.S. 1 1-pc. centre lock 1280 1VZ 1 tilt striker 2 std strikers 1 sash lifter				
1341 - 1590	1 T&T drive-gear 1590 2VZ 1 corner element for PW 1 i.S. 1 1-pc. centre lock 1500 1VZ 1 tilt striker 3 std strikers 1 sash lifter				
1591 - 1700	1 T&T drive-gear 1700 2VZ 1 corner element for PW 1 i.S. 1 1-pc. centre lock 2200 2VZ 1 tilt striker 4 std strikers 1 sash lifter				
1701 - 1950	1 T&T drive-gear 1950 3VZ 1 corner element for PW 1 i.S. 1 1-pc. centre lock 2200 2VZ 1 tilt striker 5 std strikers 1 sash lifter				
1951 - 2200	1 T&T drive-gear 2200 3VZ 1 corner element for PW 1 i.S. 1 1-pc. centre lock 2200 2VZ 1 tilt striker 5 std strikers 1 sash lifter				
2201 - 2450	1 T&T drive-gear 2450 4VZ 1 corner element for PW 1 i.S. 1 1-pc. centre lock 2450 3VZ 1 tilt striker 7 std strikers 1 sash lifter				

**Note different application diagrams
depending on the slant (MULTI-MATIC 49778 Catalogue)!**





Installation of the sash fittings components MMKS



- Attach the corner support jig (no. 21562/ 21564) and predrill (refer to page 19/ Fig. 1).
- Insert the **end piece** ① (couple with centre lock ② if SRH is over 800 mm)* and screw-fix.
- Crop the **half round corner element** ③ / extend ④ and screw-fix together with the corner element (Fig. 1).
- Install the **corner element** for angled windows ⑤. Mount the foil.
- Crop the **drive-gear** ⑥ and screw-fix together with the corner elements.
- Crop the **angled window scissor-stay** ⑦ / extend and screw-fix together with the corner element for angled windows (Note the staggered faceplate dimension, refer to page 56/ Fig. 1).
- Attach and screw-fix the **corner support** ⑧ to the rebate-leg.
- The centre-fixings (preset centred cam-fixing) are released upon operating the fittings for the first time
- The sash lifter on the drive-gear must be activated by tilting it outwards.

** SRW and SRH of 800 mm is a MACO recommendation, adhere to the profile manufacturers' specifications!*



Table to determine the scissor-stay size

Difference between SRH (hinge-side) — SRH (drive-gear side in mm)	Sash rebate width in mm														
	1250	1250	1150	1100	1050	1000	950	900	850	800	750	700	650	600	550
1250															
1250															
1150															
1100															
1050															
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400															
350															
300															
250															
200															
150															
100															
50															
400	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
450															
500															
550															
600															
650															
700															
750															
800															
850															
900															
950															
1000															
1050															
1100															
1150															
1200															
1250															

Interpreting the table correctly:

738 = Dimension of the pitch length
 28,5° = Angled angle of the window

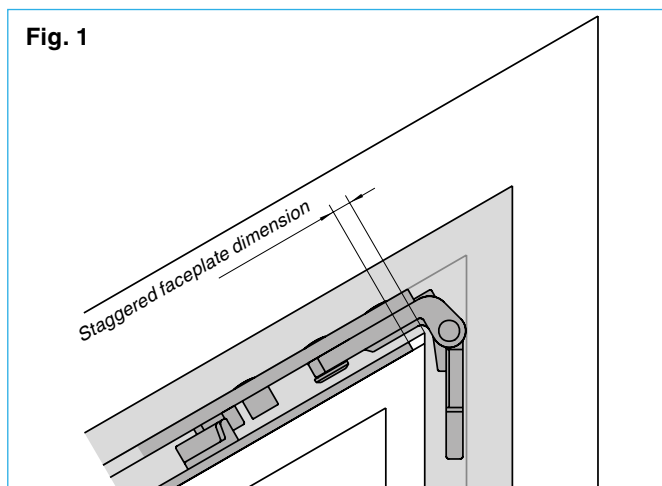


Tilt-Turn sashes

Detail A:

The staggered faceplate dimension is the distance from the sash rebate edge to the stay guide.

Fig. 1



Staggered faceplate dimension on a 12 mm air gap			
Pitched angle	Stay-support sash-hinge scissor-stay for angled windows	Pitched angle	Stay-support sash-hinge scissor-stay for angled windows
50°	1	15°	3
45°	1	10°	3
40°	2	5°	2
35°	2	0°	2
30°	2	-5°	2
25°	3	-10°	2
20°	3	-15°	1

Turn-Only sashes

The specifications for T&T fittings also apply to Turn-Only windows (application ranges, drilling and routing).

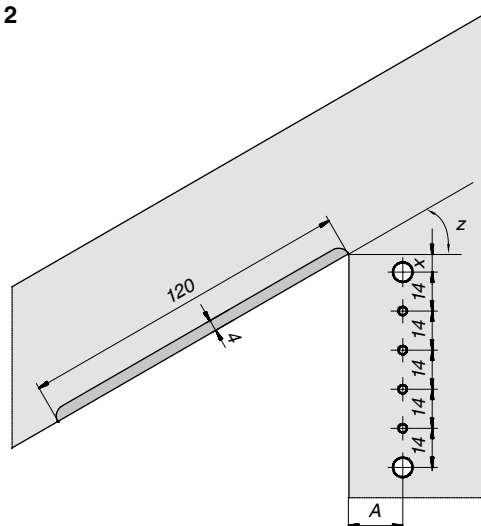
Staggered faceplate dimension on a 12 mm air gap			
Pitched angle	Turn-Only hinge for angled window	Pitched angle	Turn-Only hinge for angled window
50°	12	15°	14
45°	13	10°	14
40°	13	5°	14
35°	14	0°	14
30°	14	-5°	14
25°	14	-10°	13
20°	14	-15°	13



Scissor stay hinge drilling

Maximum routing at 50°.
Routing depth (4 mm)
reduced with decreasing
angle.
Particular attention must be
given to ensure that the
profile can accommodate this
routing!

Fig. 2



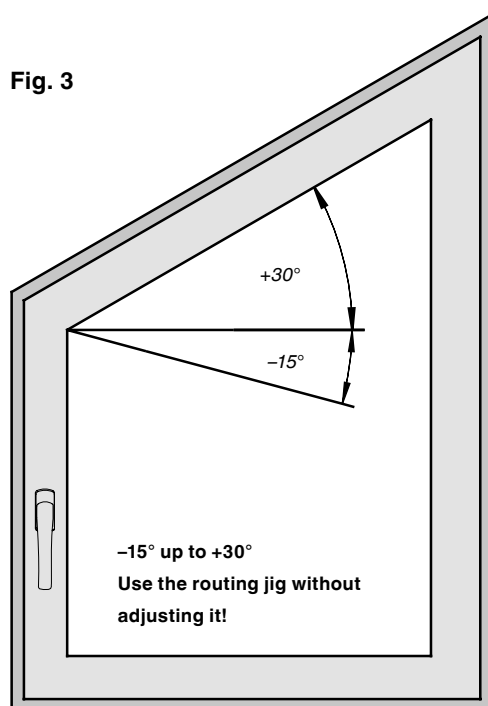
Rebate-leg	Dimension A
18 mm	17,5
20 mm	19,5
Pitched angle	Dimension x with 12mm air gap
50°	15
45°	12
40°	10
35°	8
30°	7
25°	6
20°	5
15°	4
10°	3
5°	3
0°	2
-5°	2
-10°	2
-15°	1





Frame installation

Fig. 3



Routing-jig application range for angled windows (refer to Fig. 3):

The routing-jigs can be used for -15° up to $+30^\circ$.

The stop-block must be removed for windows with an angle of more than 30° and the dimension marked as stated in Fig. 2 (page 57) or use the enclosed stick-on jig!

Please note!

The routing-jigs are equipped with a yellow stop-block. In the event of the air gap not complying with the window design, the tolerances may not be compensated with the drilling-plate stop! Use packers for this purpose.

Strikers: in the angled area must be marked manually. Drive-gear sided and bottom horizontal strikers are installed with the jig for 1-sashed windows.

For hinge-sided strikers: position the centre lock jig on the bottom hinge-side at the pivot post, insert the striker in the horizontal striker holder and screw-fix.

Pivot post: Refer to the 1-sashed windows installation instructions for pivot post drilling procedures.



Notes

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

**MACO
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