

HINGE SYSTEM RECOMMENDATION

TIOMOS M-SERIES FOR GREATER DESIGN SCOPE

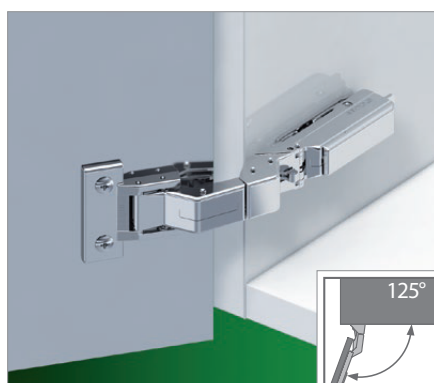
ADVANTAGES OF THE TIOMOS M0 AND M9 HINGES

- Perfect design without visible plastic parts
- Greatest door overlay with up to 25 mm*
- Tool-free, 3-stage damper adjustment:
Smooth door closure irrespective of the size and weight
- 30% more mounting plate overlay:
Very high stability and less dropping under load
- Mounting plate with 4-point fixing:
High stability
- Available in 3 versions:
 - With integrated damper (3 adjustable damping levels)
 - Without integrated damper
 - Without self-closing mechanism (without spring)

* M0: 22 - 25 mm only with opening angle reduction clip.

TIOMOS M0

125° HINGE (DOOR THICKNESSES OF 6 TO 10 MM)



- No cup hole necessary
- For door overlays of up to 25 mm
- Compatible with all mounting plates in the Tiomos range
- Zero protrusion up to 14 mm overlay

ORDER INFORMATION

Door overlay			Cranking	Damper		without spring	Item No.
Overlay	Half overlay	Inset		with	without		Click-on For screw fixing
			-		-	-	F029 140331
				-		-	F047 140332
				-			F049 140333

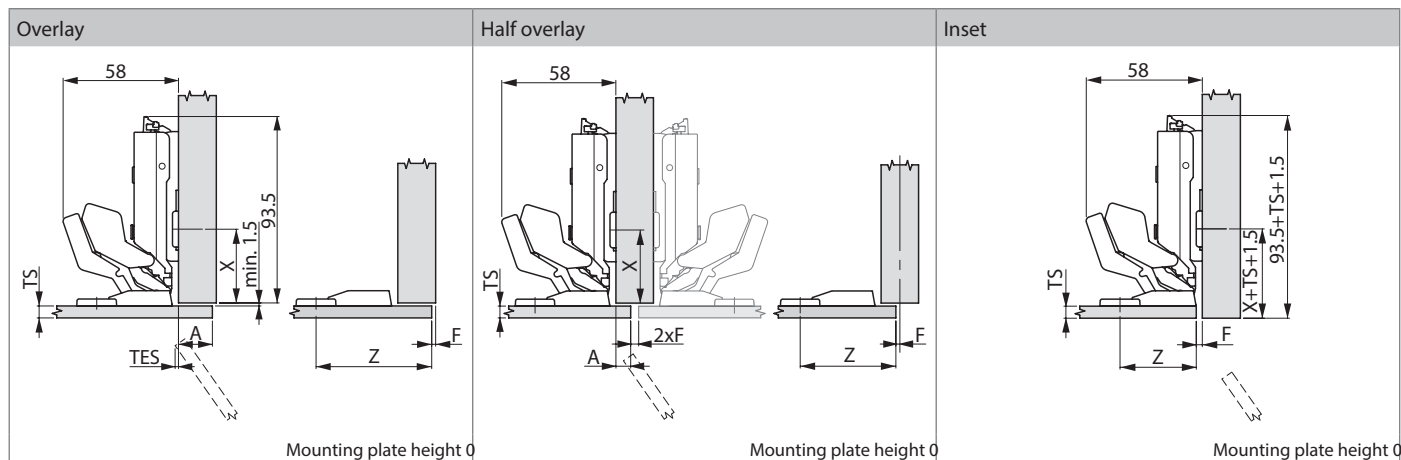
FASTENING OPTIONS

	Designation	Item No.
	Euro screw, nickel-plated, Ø 6.3 mm	F146 073979
	Countersunk screw M4 x 8 mm, sleeve M4 x 5.5 mm, internal hex key For a minimum door thickness of 6,4 mm SWISSCDF.	F072 135928

		Material thickness		
		6,4 mm	8,4 mm	10,4 mm
Material	SWISSCDF	F072 135928		
		F146 073979		

INSTALLATION INFORMATION

All dimensions in millimetres



MINIMUM GAP/MINIMUM REVEAL

Values with a mounting plate height 0

Screwing dimension (Z)	38	39	47	49	51	53	55	56	58	60	61	63	64	66
Door protrusion (TES)	0	0	0	0	0	0	0	0.5	1.5	3	3.4	0	0	0
Door overlay (A)	-3	-2	6	8	10	12	14	15	17	19	20	22 ¹	23 ¹	25 ¹
Min. reveal (F)/gap (S)	F S	F S	F S	F S	F S	F S	F S	F S	F S	F S	F S	F S	F S	F S
Door thickness 6-10 (TS)	2	1.5	2	1.5	2	1.5	2	1.5	2	1.5	2	1.5	2	1.5

¹ Door thickness A = 22 - 25 only with opening angle reduction clip.

CROSS MOUNTING PLATE

LINEAR MOUNTING PLATE

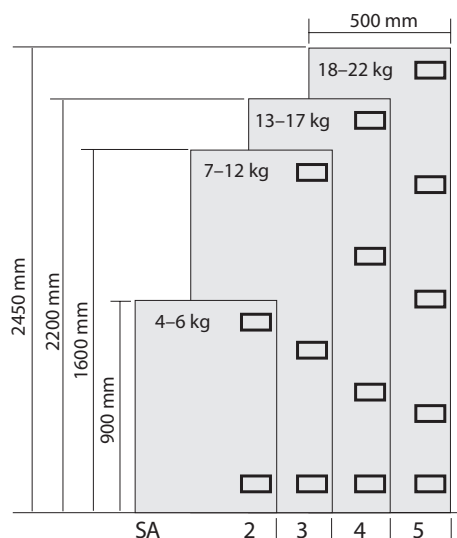
SCREWING POSITION

Hole spacing	Mounting plate height 0	Mounting plate position (X)
28	37	
37	46	

Hole spacing	Mounting plate height 0	Mounting plate position (X)
X	29	

Hole spacing	Mounting plate height 0	Mounting plate position (X)
Z	A+41	
A	max. 25	

NUMBER OF HINGES



NOTES

An inset application is achieved with the mounting plate (X) and a low housing screwing distance (Z).

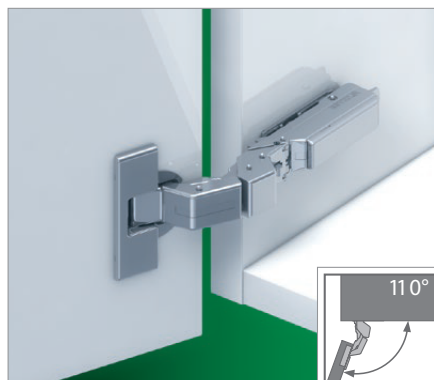
- ① Installation advice
Countersunk screw M4 x 8 mm with sleeve M4 x 5.5 mm:
1. Drill a Ø 5 mm hole.
Drilling depth: 6 mm
2. Slightly countersink the edge of the hole
3. Insert the sleeve
4. Knock in the sleeve with a hammer
5. Position the hinge and secure with the screws

- ① Installation advice
Euro cheesehead screw Ø 6.3 x 10.5 mm:
1. Drill a Ø 5 mm hole
2. Position the hinge and secure with the screws

- ① Installation advice: Depending on the type and thickness of the base material the pull-out resistances can vary with the same fastening method. For information regarding the selection and processing of the base material please contact the base material supplier.

- ① Liability claims: Please note that GRASS cannot accept any liability for damage resulting from unsuitable fastening materials or methods.

TIOMOS M9 110° HINGE (DOOR THICKNESSES OF 12 TO 28 MM)



- 35 mm full cup drilled hole
- Low cup depth of 9 mm

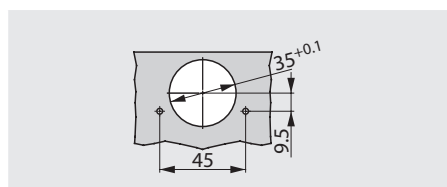
ORDER INFORMATION

Door overlay	Drilling template	Cranking	Dämpfung		without spring	Item No.
			with	without		Click-on For screw fixing
Overlay  Half overlay  Inset 	45/9.5	14		-	-	F029 140338
			-		-	F047 140339
			-			F049 140340
	48/9			-	-	F029 140334
			-		-	F047 140335
			-			F049 140336
	48/6			-	-	F029 140341
			-		-	F047 140342
			-			F049 140343

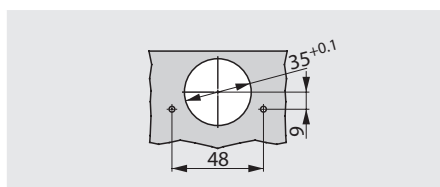
Cup material: Zamak, nickel-plated/arm material: Zamak, nickel-plated

DRILLING PATTERNS FOR SCREW FIXING

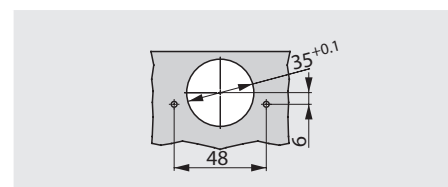
45/9.5



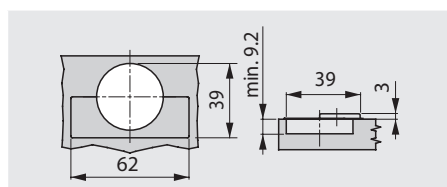
48/9



48/6



CUP DIMENSIONS



INSTALLATION INFORMATION

All dimensions in millimetres

Overlay	Max. overlay
Mounting plate height 0	Mounting plate height 0 * Dimension for mounting plate for 37 mm hole spacing

MINIMUM GAP/MINIMUM REVEAL

values for 0 mounting plate height

Door thickness (TS)	Cup distance (TA)		3		4		5		6		7		8		9		10		11		12		13	
	Door protrusion (TES)		0.8		1.1		1.5		1.8		2.2		2.5		2.9		3.2		3.5		3.9		4.2	
	Door overlay (A)		4		5		6		7		8		9		10		11		12		13		14	
	min. reveal (F)/gap (S)		F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S
	12-20		1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5
Door thickness (TS)	Cup distance (TA)		14		15		16		17		18		19		20		21		22		23		24	
	Door protrusion (TES)		4.6		4.9		5.3		5.6		5.9		6.3		6.6		7		7.3		7.6		8	
	Door overlay (A)		15		16		17		18		19		20		21		22		23		24		25	
	min. reveal (F)/gap (S)		F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S
	12-20		1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	2	1	2	1	2

ACCESSORIES FOR TIOMOS M0 AND M9

	Designation	Imprinted/Embossed	Item No.
	Hinge arm cover cap, steel, nickel-plated, not imprinted	On request	F072 135500
	Hinge arm cover cap, right, steel, nickel-plated, GRASS imprint	GRASS logo	F072 135550
	Hinge arm cover cap, left, steel, nickel-plated, GRASS imprint		F072 135551
	Premium hinge arm cover cap with integrated clip protection, plastic, black, not imprinted	On request	F072 140504
	Hinge cup cover cap, steel, nickel-plated, not imprinted (for M9 hinges only)	–	F072 135503

	Designation	Item No.
	Tipmatic pin for wooden and aluminium frame doors	F069 135396

	Designation	Item No.
	90° opening angle reduction clip	F072 135871

NOTE

Minimum reveal for doors with chamfered edges (R = 1 mm) set at factory setting.
Trial fitting is recommended for all door thicknesses.