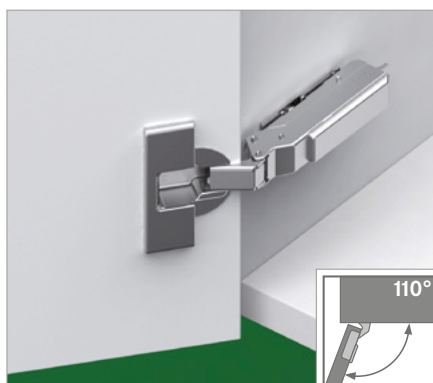


TIOMOS 110

110° hinge (door thicknesses up to 24 mm)



- 110° opening angle
- Optimum reveals for door thicknesses up to 24 mm
- Convenient depth adjustment via worm gear
- 3-dimensional adjustment with appropriate mounting plate

Available in 3 versions:

- With integrated damper (3 adjustable damping levels)
- Without integrated damper
- Without self-closing mechanism (without spring)

ORDER INFORMATION FOR DRILLING PATTERN 45/9.5

Door overlay		Cranking	Damper			Art.-no.			
			with	without	without spring	Click-on			Impresso without tools
						For screw fixing	For press fitting	Quick ³	
Full overlay ¹		0	■	-	-	F028138519	F028138523	F022140090	F017139329
			-	■	-	F045138457	F045138461	F039140030	F034139300
			-	■	■	F046138579	-	-	F035139357
Overlay ¹		3	■	-	-	F028138520	F028138524	F022140091	F017139330
			-	■	-	F045138458	F045138462	F039140031	F034139301
			-	■	■	F046138580	-	-	F035139358
Half overlay ²		9.5	■	-	-	F028138521	F028138525	F022140092	F017139331
			-	■	-	F045138459	F045138463	F039140032	F034139302
			-	■	■	F046138581	-	-	F035139359
Inset ²		19	■	-	-	F028138522	F028138526	F022140093	F017139332
			-	■	-	F045138460	F045138464	F039140033	F034139303
			-	■	■	F046138582	-	-	F035139360

¹ Cup material: steel, nickel-plated / Arm material: steel, nickel-plated

² Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

³ Additional drilling patterns, opening angles 95°/110°/120°/160° and angle applications on request.

COVER CAPS

	Designation	Cranking	Imprinted/Embossed	Art.-no.
	Hinge arm cover cap, steel, nickel-plated, not imprinted	0/3/9.5/19	On request	F072135500
	Hinge arm cover cap, right, steel, nickel-plated, GRASS imprint	0/3/9.5/19	GRASS logo	F072135550
	Hinge arm cover cap, left, steel, nickel-plated, GRASS imprint			F072135551
	Premium hinge arm cover cap with integrated clip protection, plastic, black, not imprinted	0/3/9.5/19	On request	F072140504
	Hinge arm cover cap, steel, long, nickel-plated, not imprinted	0/3	On request	F072135504
	Hinge cup cover cap, steel, nickel-plated, not imprinted	0/3/9.5/19	-	F072135503

ACCESSORIES

	Designation	Art.-no.		Designation	Art.-no.
	85° opening angle reduction clip	F072135751		Countersunk wood screw Ø 3.5 x 15 mm	F146073976
	Tipmatic Pin for wooden and aluminium frame doors	F069135396		Unclipping protector	F072135807

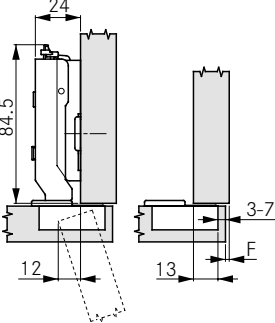
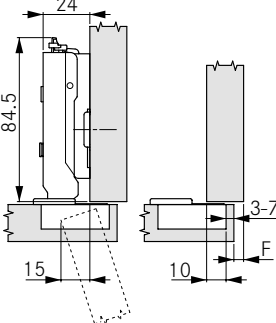
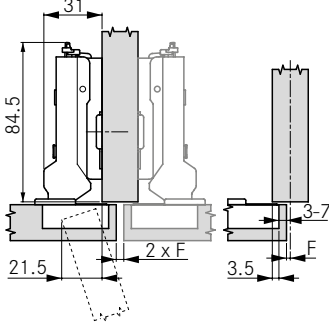
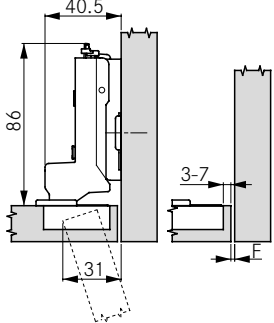
Tiomos mounting plates	102
Accessories	112

Tipmatic	302
Technical information	116

Assembly aids	354

INSTALLATION INFORMATION

All dimensions in millimetres

Full overlay		K0	Overlay		K3	Half overlay		K9.5	Inset ¹		K19																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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MINIMUM GAP

Door thickness		Cup distance				
		3	4	5	6	7
	24.0	1.0	1.0	1.0	1.2 ²	2.1 ²
	22.0	1.0	1.0	1.0	1.0	1.5 ²
	21.0	1.0	1.0	1.0	1.0	1.2 ²
	20.0	1.0	1.0	1.0	1.0	1.0
	19.0	1.0	1.0	1.0	1.0	1.0
	18.0	1.0	1.0	1.0	1.0	1.0
	17.0	1.0	1.0	1.0	1.0	1.0
	16.0	1.0	1.0	1.0	1.0	1.0

² 1.0 at 85° opening angle

MINIMUM REVEAL

Door thickness		Cup distance				
		3	4	5	6	7
	24.0	2.4	2.1	2.1	2.1	2.0
	22.0	1.6	1.6	1.6	1.5	1.5
	21.0	1.4	1.3	1.3	1.3	1.3
	20.0	1.1	1.1	1.1	1.1	1.1
	19.0	0.9	0.9	0.9	0.9	0.9
	18.0	0.7	0.7	0.7	0.7	0.7
	17.0	0.6	0.6	0.6	0.6	0.6
	16.0	0.6	0.6	0.6	0.6	0.6

85° OPENING ANGLE

Door thickness		Cup distance				
		3	4	5	6	7
	36.0	11.1	10.3	9.7	9.1	8.5
	30.0	5.4	4.8	4.4	4.3	4.2
	28.0	3.7	3.6	3.5	3.4	3.3
	26.0	2.9	2.8	2.8	2.7	2.6
	24.0	2.2	2.1	2.1	2.1	2.0
	22.0	1.6	1.6	1.6	1.5	1.5
	21.0	1.4	1.3	1.3	1.3	1.3
	20.0	1.1	1.1	1.1	1.1	1.1
	19.0	0.9	0.9	0.9	0.9	0.9
	18.0	0.7	0.7	0.7	0.7	0.7
16.0	0.6	0.6	0.6	0.6	0.6	
	Minimum reveal (F) ³ at 85°					

³ 85° opening angle reduction clip

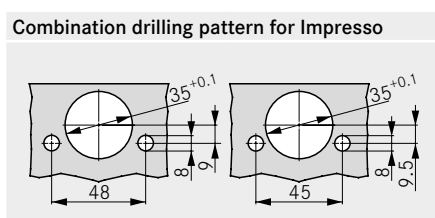
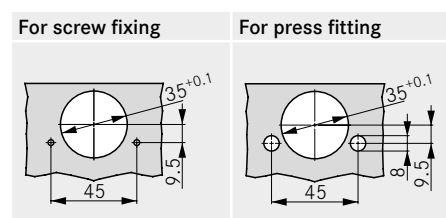
NOTES

The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can open without hindrance.

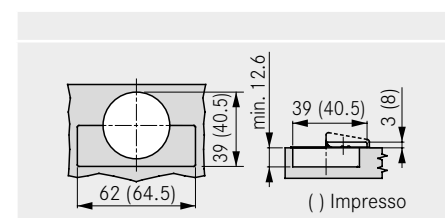
Minimum reveal for doors with bevelled edges (R = 1 mm) (factory setting).

For door thicknesses of 24 mm and above, a trial fitting is recommended.

DRILLING PATTERNS 45/9.5



CUP DIMENSIONS



TIOMOS 110

110° hinge (door thicknesses up to 24 mm)

ORDER INFORMATION FOR DRILLING PATTERN 48/9

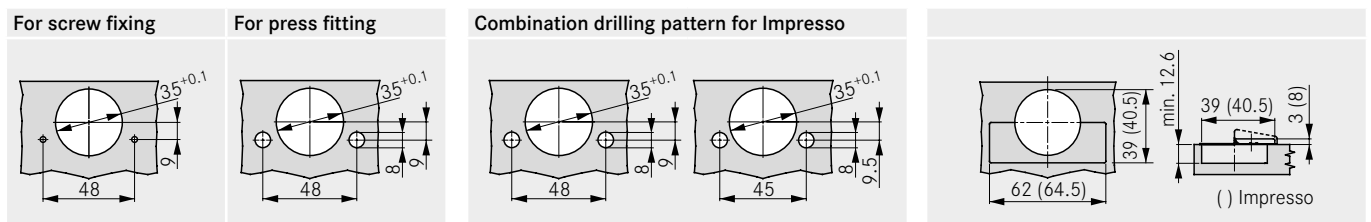
Door overlay		Cranking	Damper		without spring	Art.-no.		
			with	without		Click-on For screw fixing	Click-on For press fitting	Impresso without tools
Full overlay ¹		0	■	-	-	F028138093	F028138097	F017139329
			-	■	-	F045138000	F045138004	F034139300
			-	■	■	F046138184	-	F035139357
Overlay ¹		3	■	-	-	F028138094	F028138098	F017139330
			-	■	-	F045138001	F045138005	F034139301
			-	■	■	F046138185	-	F035139358
Half overlay ²		9.5	■	-	-	F028138095	F028138099	F017139331
			-	■	-	F045138002	F045138006	F034139302
			-	■	■	F046138186	-	F035139359
Inset ²		19	■	-	-	F028138096	F028138100	F017139332
			-	■	-	F045138003	F045138007	F034139303
			-	■	■	F046138187	-	F035139360

¹ Cup material: steel, nickel-plated / Arm material: steel, nickel-plated

² Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

DRILLING PATTERNS 48/9

CUP DIMENSIONS



ORDER INFORMATION FOR DRILLING PATTERN 42/11

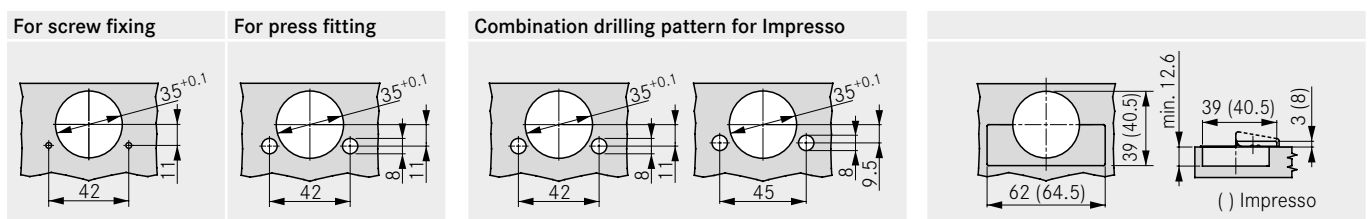
Door overlay		Cranking	Damper		without spring	Art.-no.		
			with	without		Click-on For screw fixing	Click-on For press fitting	Impresso without tools
Full overlay ¹		0	■	-	-	F028138337	F028138341	F017139414
			-	■	-	F045138275	F045138279	F034139385
			-	■	■	F046138397	-	F035139442
Overlay ¹		3	■	-	-	F028138338	F028138342	F017139415
			-	■	-	F045138276	F045138280	F034139386
			-	■	■	F046138398	-	F035139443
Half overlay ²		9.5	■	-	-	F028138339	F028138343	F017139416
			-	■	-	F045138277	F045138281	F034139387
			-	■	■	F046138399	-	F035139444
Inset ²		19	■	-	-	F028138340	F028138344	F017139417
			-	■	-	F045138278	F045138282	F034139388
			-	■	■	F046138400	-	F035139445

¹ Cup material: steel, nickel-plated / Arm material: steel, nickel-plated

² Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

DRILLING PATTERNS 42/11

CUP DIMENSIONS

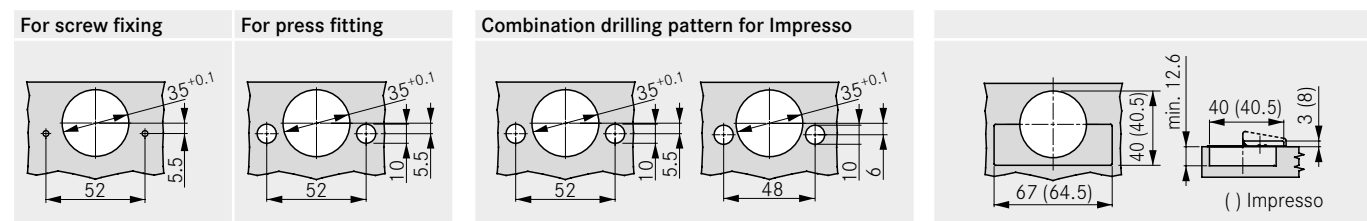


Tiomos mounting plates	102	Tipmatic	302	Assembly aids	354
Accessories	112	Technical information	116		

Door overlay		Cranking	Damper		without spring	Art.-no.		
			with	without		Click-on For screw fixing	Click-on For press fitting	Impresso without tools
Full overlay ¹		0	■	-	-	F028138701	F028138705	F017139499
			-	■	-	F045138639	F045138643	F034139470
			-	■	■	F046138761	-	F035139527
Overlay ¹		3	■	-	-	F028138702	F028138706	F017139500
			-	■	-	F045138640	F045138644	F034139471
			-	■	■	F046138762	-	F035139528
Half overlay ²		9.5	■	-	-	F028138703	F028138707	F017139501
			-	■	-	F045138641	F045138645	F034139472
			-	■	■	F046138763	-	F035139529
Inset ²		19	■	-	-	F028138704	F028138708	F017139502
			-	■	-	F045138642	F045138646	F034139473
			-	■	■	F046138764	-	F035139530

² Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

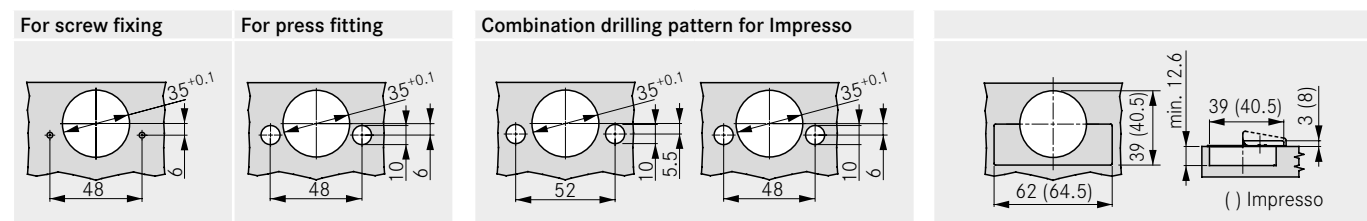
CUP DIMENSIONS



Door overlay		Cranking	Damper		without spring	Art.-no.		
			with	without		Click-on For screw fixing	Click-on For press fitting	Impresso without tools
Full overlay ¹		0	■	-	-	F028138883	F028138887	F017139499
			-	■	-	F045138821	F045138825	F034139470
			-	■	■	F046138943	-	F035139527
Overlay ¹		3	■	-	-	F028138884	F028138888	F017139500
			-	■	-	F045138822	F045138826	F034139471
			-	■	■	F046138944	-	F035139528
Half overlay ²		9.5	■	-	-	F028138885	F028138889	F017139501
			-	■	-	F045138823	F045138827	F034139472
			-	■	■	F046138945	-	F035139529
Inset ²		19	■	-	-	F028138886	F028138890	F017139502
			-	■	-	F045138824	F045138828	F034139473
			-	■	■	F046138946	-	F035139530

² Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

CUP DIMENSIONS



Tiemos mounting plates	102	Tipmatic	302	Assembly aids	354
Accessories	112	Technical information	116		