

TIOMOS 120

120° hinge (door thicknesses up to 24 mm)



- 120° opening angle
- Optimum reveals for door thicknesses up to 22 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		without spring	Art.-no.		
			with	without		Click-on For screw fixing	Click-on For press fitting	Impresso without tools
Full overlay ¹		0	■	-	-	F028 138547	F028 138551	F017 139343
			-	■	-	F045 138485	F045 138489	F034 139314
			-	■	■	F046 138607	-	F035 139371
Overlay ¹		3	■	-	-	F028 138548	F028 138552	F017 139344
			-	■	-	F045 138486	F045 138490	F034 139315
			-	■	■	F046 138608	-	F035 139372
Half overlay ²		9.5	■	-	-	F028 138549	F028 138553	F017 139345
			-	■	-	F045 138487	F045 138491	F034 139316
			-	■	■	F046 138609	-	F035 139373
Inset ²		19	■	-	-	F028 138550	F028 138554	F017 139346
			-	■	-	F045 138488	F045 138492	F034 139317
			-	■	■	F046 138610	-	F035 139374

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

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

COVER CAPS

	Designation	Cranking	Imprinted/Embossed	Art.-no.
	Hinge arm cover cap, steel, nickel-plated, not imprinted	0/3/9.5/19	On request	F072 135500
	Hinge arm cover cap, right, steel, nickel-plated, GRASS imprint	0/3/9.5/19	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	0/3/9.5/19	On request	F072 140504
	Hinge arm cover cap, steel, long, nickel-plated, not imprinted	0/3	On request	F072 135504
	Hinge cup cover cap, steel, nickel-plated, not imprinted	0/3/9.5/19	-	F072 135503

ACCESSORIES

	Designation	Art.-no.
	85° opening angle reduction clip	F072 135751
	Tipmatic Pin for wooden and aluminium frame doors	F069 135396

	Designation	Art.-no.
	Countersunk wood screw Ø 3.5 x 15 mm	F146 073976
	Unclipping protector	F072 135807

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INSTALLATION INFORMATION

All dimensions in millimetres

Full overlay		K0		Overlay		K3		Half overlay		K9.5		Inset ¹		K19	
Mounting plate height 2				Mounting plate height 2				Mounting plate height 2				Mounting plate height 2			

MINIMUM GAP

	Cup distance				
	3	4	5	6	7
24.0	1.2 ²	2.1 ²	3.0 ²	3.9 ²	4.7 ²
22.0	1.0	1.1 ²	2.0 ²	2.9 ²	3.8 ²
21.0	1.0	1.0	1.6 ²	2.4 ²	3.3 ²
20.0	1.0	1.0	1.1 ²	2.0 ²	2.9 ²
19.0	1.0	1.0	1.0	1.5 ²	2.4 ²
18.0	1.0	1.0	1.0	1.0	1.9 ²
17.0	1.0	1.0	1.0	1.0	1.5 ²
16.0	1.0	1.0	1.0	1.0	1.0

Door thickness

² 1.0 at 85° opening angle

MINIMUM REVEAL

	Cup distance				
	3	4	5	6	7
24.0	6.4	5.4	4.4	3.4	2.4
22.0	3.0	2.0	1.5	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

Door thickness

Minimum reveal (F)

85° OPENING ANGLE

	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

Door thickness

³ 85° opening angle reduction clip

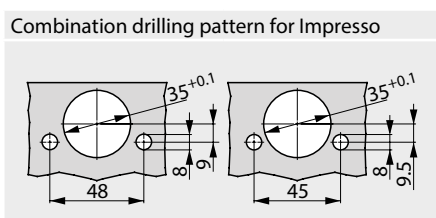
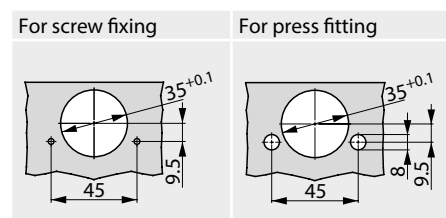
NOTES

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.

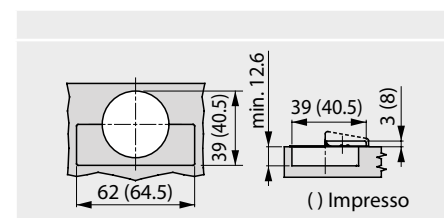
Minimum reveal for doors with bevelled edges (R = 1 mm) (factory setting).

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

DRILLING PATTERNS 45/9.5



CUP DIMENSIONS



TIOMOS 120

120° hinge (door thicknesses up to 24 mm)

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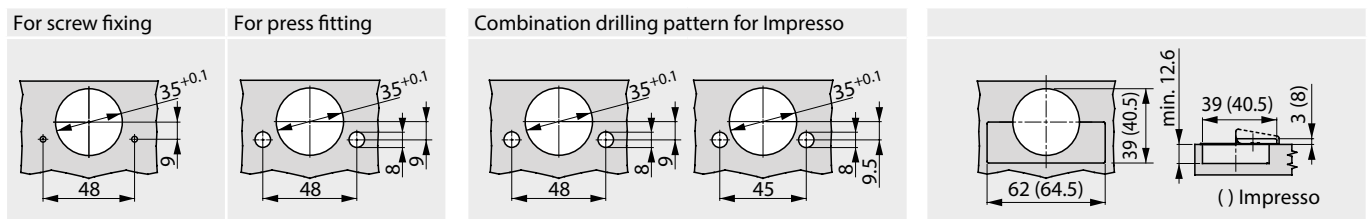
Door overlay		Cranking	Damper		without spring	Art.-no.		
			with	without		Click-on For screw fixing	Click-on For press fitting	Impresso without tools
Full overlay ¹		0	■	-	-	F028 138121	F028 138125	F017 139343
			-	■	-	F045 138028	F045 138032	F034 139314
			-	■	■	F046 138212	-	F035 139371
Overlay ¹		3	■	-	-	F028 138122	F028 138126	F017 139344
			-	■	-	F045 138029	F045 138033	F034 139315
			-	■	■	F046 138213	-	F035 139372
Half overlay ²		9.5	■	-	-	F028 138123	F028 138127	F017 139345
			-	■	-	F045 138030	F045 138034	F034 139316
			-	■	■	F046 138214	-	F035 139373
Inset ²		19	■	-	-	F028 139017	F028 139018	F017 139346
			-	■	-	F045 139019	F045 139020	F034 139317
			-	■	■	F046 139021	-	F035 139374

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



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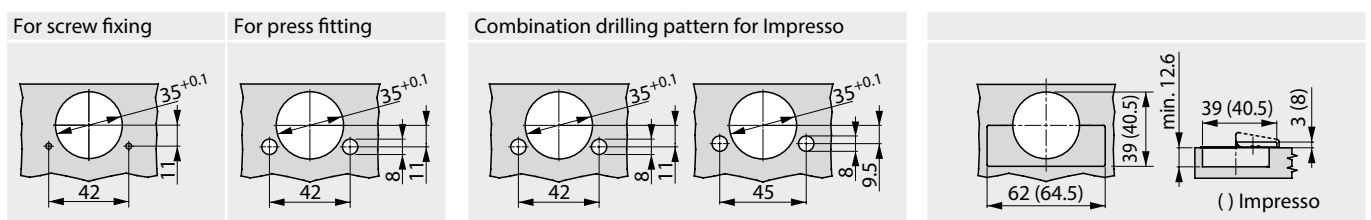
Door overlay		Cranking	Damper		without spring	Art.-no.		
			with	without		Click-on For screw fixing	Click-on For press fitting	Impresso without tools
Full overlay ¹		0	■	-	-	F028 138365	F028 138369	F017 139428
			-	■	-	F045 138303	F045 138307	F034 139399
			-	■	■	F046 138425	-	F035 139456
Overlay ¹		3	■	-	-	F028 138366	F028 138370	F017 139429
			-	■	-	F045 138304	F045 138308	F034 139400
			-	■	■	F046 138426	-	F035 139457
Half overlay ²		9.5	■	-	-	F028 138367	F028 138371	F017 139430
			-	■	-	F045 138305	F045 138309	F034 139401
			-	■	■	F046 138427	-	F035 139458
Inset ²		19	■	-	-	F028 139027	F028 139028	F017 139558
			-	■	-	F045 139029	F045 139030	F034 139559
			-	■	■	F046 139031	-	F035 139560

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

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

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CUP DIMENSIONS



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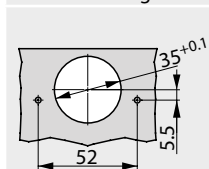
Door overlay		Cranking	Damper		without spring	Art.-no.		
			with	without		Click-on For screw fixing	Click-on For press fitting	Impresso without tools
Full overlay ¹		0	■	-	-	F028 138729	F028 138733	F017 139513
			-	■	-	F045 138667	F045 138671	F034 139484
			-	■	■	F046 138789	-	F035 139541
Overlay ¹		3	■	-	-	F028 138730	F028 138734	F017 139514
			-	■	-	F045 138668	F045 138672	F034 139485
			-	■	■	F046 138790	-	F035 139542
Half overlay ²		9.5	■	-	-	F028 138731	F028 138735	F017 139515
			-	■	-	F045 138669	F045 138673	F034 139486
			-	■	■	F046 138791	-	F035 139543
Inset ²		19	■	-	-	F028 139022	F028 139023	F017 139555
			-	■	-	F045 139024	F045 139025	F034 139556
			-	■	■	F046 139026	-	F035 139557

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

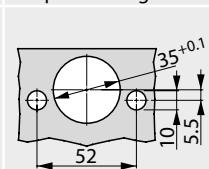
² Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

DRILLING PATTERNS 52/5.5

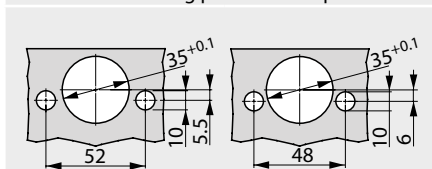
For screw fixing



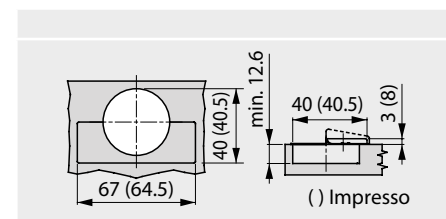
For press fitting



Combination drilling pattern for Impresso



CUP DIMENSIONS



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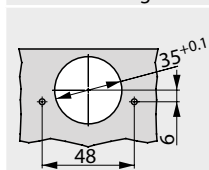
Door overlay		Cranking	Damper		without spring	Art.-no.		
			with	without		Click-on For screw fixing	Click-on For press fitting	Impresso without tools
Full overlay ¹		0	■	-	-	F028 138911	F028 138915	F017 139513
			-	■	-	F045 138849	F045 138853	F034 139484
			-	■	■	F046 138971	-	F035 139541
Overlay ¹		3	■	-	-	F028 138912	F028 138916	F017 139514
			-	■	-	F045 138850	F045 138854	F034 139485
			-	■	■	F046 138972	-	F035 139542
Half overlay ²		9.5	■	-	-	F028 138913	F028 138917	F017 139515
			-	■	-	F045 138851	F045 138855	F034 139486
			-	■	■	F046 138973	-	F035 139543
Inset ²		19	■	-	-	F028 139032	F028 139033	F017 139555
			-	■	-	F045 139034	F045 139035	F034 139556
			-	■	■	F046 139036	-	F035 139557

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

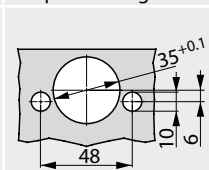
² Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

DRILLING PATTERNS 48/6

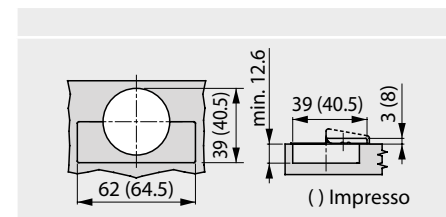
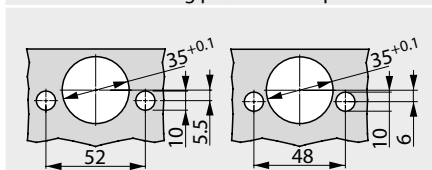
For screw fixing



For press fitting



Combination drilling pattern for Impresso



Tiomos mounting plates

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Tipmatic

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