
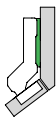












# Tiomos

## Hinge systems

The hinge system with a modern design for all standard and special applications.

Opening angle		Product description	Full overlay	Overlay	Half overlay	Inset	Page
110°		<b>Tiomos 110</b> <ul style="list-style-type: none"> <li>• Optimal reveal for door thicknesses up to 24 mm</li> <li>• Convenient depth adjustment via worm screw</li> <li>• Surfaces: Nickel or Night</li> </ul>					36
120°		<b>Tiomos 120</b> <ul style="list-style-type: none"> <li>• Optimal reveal for door thicknesses up to 22 mm</li> <li>• Convenient depth adjustment via worm screw</li> </ul>					38
155°		<b>Tiomos 155</b> <ul style="list-style-type: none"> <li>• Optimal reveal for door thicknesses up to 32 mm</li> <li>• For cabinets with inset drawers or pull-out shelves</li> <li>• Surfaces: Nickel or Night</li> </ul>					40
95°		<b>Tiomos 95</b> <ul style="list-style-type: none"> <li>• Optimal reveal for door thicknesses up to 28 mm</li> <li>• Convenient depth adjustment via worm screw</li> <li>• Surfaces: Nickel or Night</li> </ul>					42
110°		<b>Tiomos 110 AL</b> <ul style="list-style-type: none"> <li>• Optimal reveal for aluminium frames</li> <li>• Hinge not visible from the outside</li> <li>• Surfaces: Nickel or Night</li> </ul>					44
110°		<b>Tiomos 110/90A</b> <ul style="list-style-type: none"> <li>• Hinge for blind corner constructions</li> <li>• Convenient depth adjustment via worm screw</li> <li>• Surfaces: Nickel or Night</li> </ul>	-		-	-	46
110°		<b>Tiomos 110/90E</b> <ul style="list-style-type: none"> <li>• Hinge for blind corner constructions</li> <li>• Convenient depth adjustment via worm screw</li> <li>• Surfaces: Nickel or Night</li> </ul>	-	-	-		48
110°		<b>Tiomos 110/30A</b> <ul style="list-style-type: none"> <li>• For 30° angled cabinets</li> <li>• Convenient depth adjustment via worm screw</li> </ul>	-		-	-	50
110°		<b>Tiomos 110/30E</b> <ul style="list-style-type: none"> <li>• For 30° angled cabinets</li> <li>• Convenient depth adjustment via worm screw</li> </ul>	-	-	-		52
110°		<b>Tiomos 110/37A</b> <ul style="list-style-type: none"> <li>• For 37° angled cabinets</li> <li>• Convenient depth adjustment via worm screw</li> </ul>	-		-	-	54
110°		<b>Tiomos 110/37E</b> <ul style="list-style-type: none"> <li>• For 37° angled cabinets</li> <li>• Convenient depth adjustment via worm screw</li> </ul>	-	-	-		56
110°		<b>Tiomos 110/45A</b> <ul style="list-style-type: none"> <li>• For 45° angled cabinets</li> <li>• Convenient depth adjustment via worm screw</li> <li>• Surfaces: Nickel or Night</li> </ul>	-		-	-	58

Opening angle		Product description	Full overlay	Overlay	Half overlay	Inset	Page
110°		<b>Tiomos 110/45E</b> <ul style="list-style-type: none"> <li>• For 45° angled cabinets</li> <li>• Convenient depth adjustment via worm screw</li> <li>• Surfaces: Nickel or Night</li> </ul>	-	-	-		60
120°		<b>Tiomos 120/-15A</b> <ul style="list-style-type: none"> <li>• For -15° angled cabinets</li> <li>• Convenient depth adjustment via worm screw</li> </ul>	-		-	-	62
120°		<b>Tiomos 120/-30A</b> <ul style="list-style-type: none"> <li>• For -30° angled cabinets</li> <li>• Convenient depth adjustment via worm screw</li> </ul>	-		-	-	64
120°		<b>Tiomos 120/-45A</b> <ul style="list-style-type: none"> <li>• For -45° angled cabinets</li> <li>• Convenient depth adjustment via worm screw</li> </ul>	-		-	-	66
100°		<b>Tiomos 100</b> <ul style="list-style-type: none"> <li>• For fridge doors (sliding system)</li> <li>• Convenient depth adjustment via worm screw</li> </ul>	-		-	-	68
-		<b>Tiomos PCC</b> <ul style="list-style-type: none"> <li>• For connecting two corner cabinet doors</li> <li>• Convenient depth adjustment via worm screw</li> </ul>	-		-	-	70

Tiomos mounting plates	86
Accessories	96
Technical information	100
Tipmatic Pin for handle-free opening	114
Assembly technology	637
Assembly aids	654

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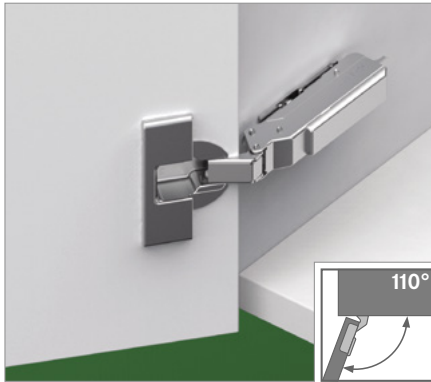
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# TIOMOS 110

110° hinge (door thicknesses up to 24 mm)



- 110° opening angle
- Optimal reveals for door thicknesses up to 24 mm
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate
- Surfaces: Nickel or Night (especially for dark cabinet materials and woods)

#### Available in four versions:

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



## ORDER INFORMATION FOR DRILLING PATTERN 45/9.5, NICKEL

Door overlay	Cranking	Damper		Without spring	With self-opening mechanism <sup>3</sup>	Art. No.		
		With	Without			Click-on for screw fitting	Click-on for press fitting	Impresso tool-free
Full overlay <sup>1</sup>	0	■	-	-	-	<b>F028138519</b>	<b>F028138523</b>	<b>F017139329</b>
		-	■	-	-	<b>F045138457</b>	<b>F045138461</b>	<b>F034139300</b>
		-	■	■	-	<b>F046138579</b>	-	<b>F035139357</b>
Overlay <sup>1</sup>	3	■	-	-	-	<b>F028138520</b>	<b>F028138524</b>	<b>F017139330</b>
		-	■	-	-	<b>F045138458</b>	<b>F045138462</b>	<b>F034139301</b>
		-	■	■	-	<b>F046138580</b>	<b>F046138584</b>	<b>F035139358</b>
Half overlay <sup>2</sup>	9.5	■	-	-	-	<b>F028138521</b>	<b>F028138525</b>	<b>F017139331</b>
		-	■	-	-	<b>F045138459</b>	<b>F045138463</b>	<b>F034139302</b>
		-	■	■	-	<b>F046138581</b>	<b>F046138585</b>	<b>F035139359</b>
Inset <sup>2</sup>	19	■	-	-	-	<b>F028138522</b>	<b>F028138526</b>	<b>F017139332</b>
		-	■	-	-	<b>F045138460</b>	<b>F045138464</b>	<b>F034139303</b>
		-	■	■	-	<b>F046138582</b>	<b>F046138586</b>	<b>F035139360</b>
		-	-	-	■	<b>F046140366</b>	-	-

<sup>1</sup> Cup material: steel, nickel-plated/Arm material: steel, nickel-plated

<sup>2</sup> Cup material: steel, nickel-plated/Arm material: zamak, nickel-plated

<sup>3</sup> Additional Tipmatic Plus Pin required

## ORDER INFORMATION FOR DRILLING PATTERN 45/9.5, NIGHT

Door overlay	Cranking	Damper		Without spring		Art. No.		
		With	Without			Click-on for screw fitting		
Overlay <sup>1</sup>	3	■	-	-		<b>F028139129</b>		
		-	■	-		<b>F045140958</b>		
		-	■	■		<b>F046149603</b>		
Half overlay <sup>2</sup>	9.5	■	-	-		<b>F028139130</b>		
		-	■	-		<b>F045140952</b>		
		-	■	■		<b>F046149604</b>		
Inset <sup>2</sup>	19	■	-	-		<b>F028139131</b>		
		-	■	-		<b>F045140955</b>		
		-	■	■		<b>F046149605</b>		

<sup>1</sup> Cup material: steel, Night/Arm material: steel, Night

<sup>2</sup> Cup material: steel, Night/Arm material: zamak, Night

## PAGE REFERENCES

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Technical information	100	Assembly aids	654		

PLANNING DIMENSIONS

All dimensions in millimetres

Full overlay	K0	Overlay	K3	Half overlay	K9.5	Inset <sup>1</sup>	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 <sup>2</sup>	2.1 <sup>2</sup>
22.0	1.0	1.0	1.0	1.0	1.5 <sup>2</sup>
21.0	1.0	1.0	1.0	1.0	1.2 <sup>2</sup>
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

<sup>2</sup> 1.0 with 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

<sup>3</sup> 85° opening angle reduction clip

NOTES

The minimum gap is the clearance required between the cabinet face and the closed door so that the door can be opened without hindrance.

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

A trial fitting is recommended for door thicknesses from 24 mm.

DRILLING PATTERNS 45/9.5

For screw fitting	For press fitting	Impresso combination drilling pattern

CUP DIMENSIONS

Cup dimensions

( ) Impresso

# TIOMOS 120

120° hinge (door thicknesses up to 24 mm)



- 120° opening angle
- Optimal reveals for door thicknesses up to 22 mm
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate

#### Available in three 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, NICKEL

Door overlay		Cranking	Damper		Without spring	Art. No.		
			With	Without		Click-on for screw fitting	Click-on for press fitting	Impresso tool-free
Full overlay <sup>1</sup>		0	■	-	-	<b>F028 138547</b>	<b>F028 138551</b>	<b>F017 139343</b>
			-	■	-	<b>F045 138485</b>	<b>F045 138489</b>	<b>F034 139314</b>
			-	■	■	<b>F046 138607</b>	<b>F046 138611</b>	<b>F035 139371</b>
Overlay <sup>1</sup>		3	■	-	-	<b>F028 138548</b>	<b>F028 138552</b>	<b>F017 139344</b>
			-	■	-	<b>F045 138486</b>	<b>F045 138490</b>	-
			-	■	■	<b>F046 138608</b>	<b>F046 138612</b>	-
Half overlay <sup>2</sup>		9.5	■	-	-	<b>F028 138549</b>	<b>F028 138553</b>	<b>F017 139345</b>
			-	■	-	<b>F045 138487</b>	<b>F045 138491</b>	<b>F034 139316</b>
			-	■	■	<b>F046 138609</b>	<b>F046 138613</b>	<b>F035 139373</b>
Inset <sup>2</sup>		19	■	-	-	<b>F028 138550</b>	<b>F028 138554</b>	<b>F017 139346</b>
			-	■	-	<b>F045 138488</b>	<b>F045 138492</b>	<b>F034 139317</b>
			-	■	■	<b>F046 138610</b>	<b>F046 138614</b>	<b>F035 139374</b>

<sup>1</sup> Cup material: steel, nickel-plated/Arm material: steel, nickel-plated

<sup>2</sup> Cup material: steel, nickel-plated/Arm material: zamak, nickel-plated

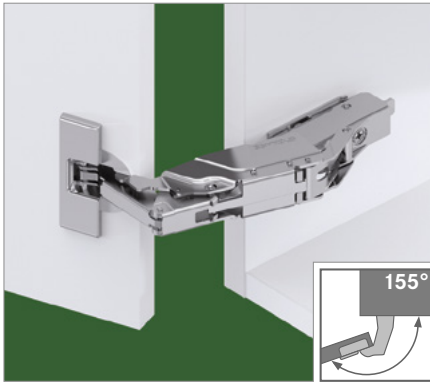
### PAGE REFERENCES

Tiomos mounting plates	86	Tipmatic	114		
Accessories	96	Assembly technology	637		
Technical information	100	Assembly aids	654		



# TIOMOS 155

155° wide-angle hinge (door thicknesses up to 32 mm)



- 155° opening angle
- With convenient depth adjustment via worm screw
- For cabinets with inset drawers or pull-out shelves
- Optimal reveals for door thicknesses up to 32 mm
- 3-dimensional adjustment with corresponding mounting plate
- Minimum reveals
- Shallow cup depth
- Surfaces: Nickel or Night (especially for dark cabinet materials and woods)

### Available in three 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, NICKEL

Door overlay	Cranking	Damper		Without spring	Art. No.		
		With	Without		Click-on for screw fitting	Click-on for press fitting	Impresso tool-free
Full overlay <sup>1</sup>	0	■	-	-	<b>F028 138561</b>	<b>F028 138564</b>	<b>F017 139350</b>
		-	■	-	<b>F045 138499</b>	<b>F045 138502</b>	<b>F034 139321</b>
		-	■	■	<b>F046 138621</b>	<b>F046 138624</b>	-
Overlay <sup>1</sup>	3	■	-	-	<b>F028 138562</b>	<b>F028 138565</b>	<b>F017 139351</b>
		-	■	-	<b>F045 138500</b>	<b>F045 138503</b>	<b>F034 139322</b>
		-	■	■	<b>F046 138622</b>	<b>F046 138625</b>	-
Half overlay <sup>1</sup>	9.5	■	-	-	<b>F028 138563</b>	<b>F028 138566</b>	<b>F017 139352</b>
		-	■	-	<b>F045 138501</b>	<b>F045 138504</b>	<b>F034 139323</b>
		-	■	■	<b>F046 138623</b>	<b>F046 138626</b>	<b>F035 139380</b>

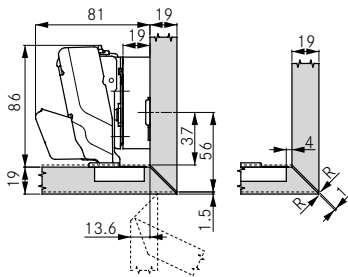
<sup>1</sup> Cup material: zamak, nickel-plated/Arm material: zamak, nickel-plated

## ORDER INFORMATION FOR DRILLING PATTERN 45/9.5, NIGHT

Door overlay	Cranking	Damper		Without spring	Art. No.		
		With	Without		Click-on for screw fitting		
Overlay <sup>1</sup>	3	■	-	-	<b>F028 140944</b>		
Half overlay <sup>1</sup>	9.5	■	-	-	<b>F028 140942</b>		

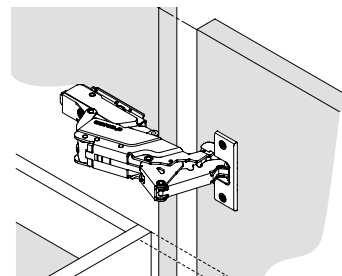
<sup>1</sup> Cup material: zamak, Night/Arm material: zamak, Night

### MITRED APPLICATION (ON ALL SIDES)



With 0 cranking, mounting plate height 19 mm and cup distance 4 mm, door and cabinet edges can meet at mitred angles on all 4 sides.

### ZERO PROTRUSION



### For use with inset drawers.

At 0 cranking, and with all mounting plate thicknesses, the door protrudes inwards at 90°. With cranking size 3 and mounting plate height 3 mm, the door will be flush with the cabinet.

Door thickness (TS)	Mitre, all 4 sides	Mitre, side
	R (min.)	R (min.)
19-20	1.0	0
22	2.0	0
24	3.0	1.0
26	4.2	2.5
28	5.4	3.8
30	6.5	5.3

PLANNING DIMENSIONS

All dimensions in millimetres

Full overlay	K0	Overlay	K3	Half overlay	K9.5	Inset <sup>1</sup>	K0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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MINIMUM GAP

	Cup distance							
	3	4	5	6	7	8		
32.0	1.0	1.0						
31.0	1.0	1.0	1.0					
30.0	1.0	1.0	1.0					
29.0	1.0	1.0	1.0	1.0	1.0	1.0		
28.0	1.0	1.0	1.0	1.0	1.0	1.0		
26.0	1.0	1.0	1.0	1.0	1.0	1.0		
25.0	1.0	1.0	1.0	1.0	1.0	1.0		
24.0	1.0	1.0	1.0	1.0	1.0	1.0		
22.0	1.0	1.0	1.0	1.0	1.0	1.0		
21.0	1.0	1.0	1.0	1.0	1.0	1.0		
20.0	1.0	1.0	1.0	1.0	1.0	1.0		
18.0	1.0	1.0	1.0	1.0	1.0	1.0		
16.0	1.0	1.0	1.0	1.0	1.0	1.0		

Minimum gap

MINIMUM REVEAL

	Cup distance							
	3	4	5	6	7	8		
32.0	0.2	0.2						
31.0	0.2	0.2	0.2	0.2				
30.0	0.2	0.2	0.2	0.2	0.2			
29.0	0.2	0.2	0.2	0.2	0.2	0.2		
28.0	0.0	0.0	0.0	0.0	0.0	0.0		
26.0	0.0	0.0	0.0	0.0	0.0	0.0		
25.0	0.0	0.0	0.0	0.0	0.0	0.0		
24.0	0.0	0.0	0.0	0.0	0.0	0.0		
22.0	0.0	0.0	0.0	0.0	0.0	0.0		
21.0	0.0	0.0	0.0	0.0	0.0	0.0		
20.0	0.0	0.0	0.0	0.0	0.0	0.0		
18.0	0.0	0.0	0.0	0.0	0.0	0.0		
16.0	0.0	0.0	0.0	0.0	0.0	0.0		

Minimum reveal (F)

■ Only possible with 120° angle reduction clip

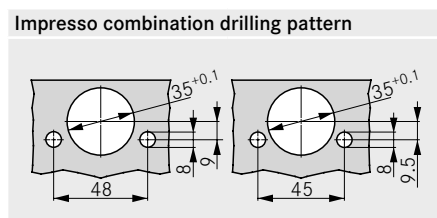
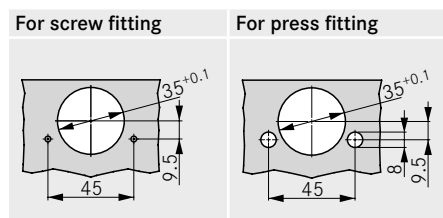
NOTES

The minimum gap is the clearance required between the cabinet face and the closed door so that the door can be opened without hindrance.

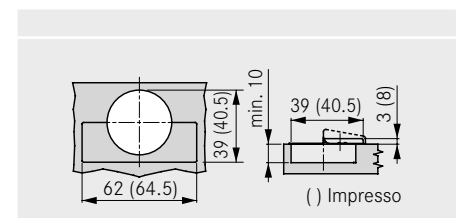
Minimum reveal for doors with chamfered edges (R = 1 mm) with factory setting.

Up to door thickness 28 mm, no reveals are necessary. For door thicknesses from 29 mm, we recommend a trial fitting.

DRILLING PATTERNS 45/9.5



CUP DIMENSIONS



8



# TIOMOS 95

95° hinge (door thicknesses up to 28 mm)



- 95° opening angle
- Optimal reveals for door thicknesses up to 28 mm
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate
- Surfaces: Nickel or Night (especially for dark cabinet materials and woods)

#### Available in three 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, NICKEL

Door overlay	Cranking	Damper			Without spring	Art. No.		
		With	Without	Without spring		Click-on for screw fitting	Click-on for press fitting	Impresso tool-free
Full overlay <sup>1</sup>	0	■	-	-	<b>F028 138567</b>	<b>F028 138571</b>	<b>F017 139353</b>	
		-	■	-	<b>F045 138505</b>	<b>F045 138509</b>	<b>F034 139324</b>	
		-	■	■	<b>F046 138627</b>	<b>F046 138631</b>	<b>F035 139381</b>	
Overlay <sup>1</sup>	3	■	-	-	<b>F028 138568</b>	<b>F028 138572</b>	<b>F017 139354</b>	
		-	■	-	<b>F045 138506</b>	<b>F045 138510</b>	<b>F034 139325</b>	
		-	■	■	<b>F046 138628</b>	<b>F046 138632</b>	<b>F035 139382</b>	
Half overlay <sup>2</sup>	9.5	■	-	-	<b>F028 138569</b>	<b>F028 138573</b>	<b>F017 139355</b>	
		-	■	-	<b>F045 138507</b>	<b>F045 138511</b>	<b>F034 139326</b>	
		-	■	■	-	<b>F046 138633</b>	-	
Inset <sup>2</sup>	19	■	-	-	<b>F028 138570</b>	<b>F028 138574</b>	<b>F017 139356</b>	
		-	■	-	<b>F045 138508</b>	<b>F045 138512</b>	<b>F034 139327</b>	
		-	■	■	-	<b>F046 138634</b>	-	

<sup>1</sup> Cup material: steel, nickel-plated/Arm material: steel, nickel-plated

<sup>2</sup> Cup material: steel, nickel-plated/Arm material: zamak, nickel-plated

### ORDER INFORMATION FOR DRILLING PATTERN 45/9.5, NIGHT

Door overlay	Cranking	Damper			Without spring	Art. No.		
		With	Without	Without spring		Click-on for screw fitting		
Overlay <sup>1</sup>	3	■	-	-	<b>F028 139138</b>			
		-	■	-	<b>F045 149534</b>			
		-	■	■	<b>F046 149609</b>			
Half overlay <sup>2</sup>	9.5	■	-	-	<b>F028 140936</b>			
		-	■	-	<b>F045 149535</b>			
		-	■	■	<b>F046 149610</b>			
Inset <sup>2</sup>	19	■	-	-	<b>F028 140939</b>			
		-	■	-	<b>F045 149536</b>			
		-	■	■	<b>F046 149611</b>			

<sup>1</sup> Cup material: steel, Night/Arm material: steel, Night

<sup>2</sup> Cup material: steel, Night/Arm material: zamak, Night

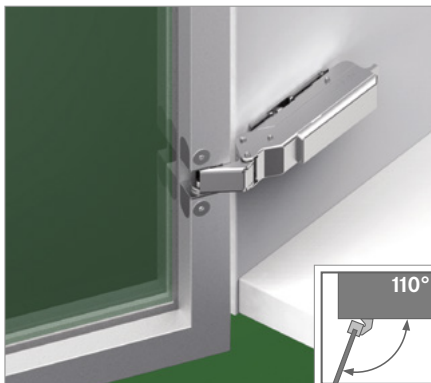
### PAGE REFERENCES

Tiomos mounting plates	86	Tipmatic	114		
Accessories	96	Assembly technology	637		
Technical information	100	Assembly aids	654		



# TIOMOS 110 AL

110° aluminium frame hinge (frame thicknesses up to 24 mm)



- 110° opening angle
- Optimal reveal for aluminium frames up to a max. frame thickness of 24 mm and frame width of 22 mm
- Hinge not visible from the outside
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate
- Surfaces: Nickel or Night (especially for dark cabinet materials and woods)

#### Available in three versions:

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

## ORDER INFORMATION, NICKEL

Door overlay	Cranking	Damper		Without spring	Click-on for screw fitting	Art. No.	
		With	Without				
Full overlay <sup>1</sup>	0	■	-	-	<b>F028 138 154</b>		
		-	■	-	<b>F045 138 061</b>		
		-	■	■	<b>F046 138 245</b>		
Overlay <sup>1</sup>	3	■	-	-	<b>F028 138 155</b>		
		-	■	-	<b>F045 138 062</b>		
		-	■	■	<b>F046 138 246</b>		
Half overlay <sup>2</sup>	9.5	■	-	-	<b>F028 138 156</b>		
		-	■	-	<b>F045 138 063</b>		
		-	■	■	<b>F046 138 247</b>		
Inset <sup>2</sup>	19	■	-	-	<b>F028 138 157</b>		
		-	■	-	<b>F045 138 064</b>		
		-	■	■	<b>F046 138 248</b>		

<sup>1</sup> Cup material: zamak, nickel-plated/Arm material: steel, nickel-plated

<sup>2</sup> Cup material: zamak, nickel-plated/Arm material: zamak, nickel-plated

## ORDER INFORMATION, NIGHT

Door overlay	Cranking	Damper		Without spring	Click-on for screw fitting	Art. No.	
		With	Without				
Overlay <sup>1</sup>	3	■	-	-	<b>F028 140 404</b>		
		-	■	-	<b>F045 149 510</b>		
		-	■	■	<b>F046 149 594</b>		

<sup>1</sup> Cup material: zamak, Night/Arm material: steel, Night

<sup>2</sup> Cup material: zamak, Night/Arm material: zamak, Night

## PAGE REFERENCES

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Technical information	100	Assembly aids	654		

PLANNING DIMENSIONS

All dimensions in millimetres

Full overlay	K0	Overlay	K3	Half overlay	K9.5	Inset <sup>1</sup>	K19																						
<p>Mounting plate height 2</p>		<p>Mounting plate height 2</p>		<p>Mounting plate height 2</p>		<p>Mounting plate height 2 <sup>1</sup> Set mounting plate back by door thickness + 1.5 mm</p>																							
<table border="1"> <thead> <tr> <th>Door overlay</th> <th>Cup distance</th> <th>0</th> <th>2</th> <th>3</th> </tr> </thead> <tbody> <tr> <td>19.0</td> <td>0</td> <td></td> <td></td> <td></td> </tr> <tr> <td>17.0</td> <td>2</td> <td></td> <td></td> <td></td> </tr> <tr> <td>16.0</td> <td>3</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Mounting plate height</p>		Door overlay	Cup distance	0	2	3	19.0	0				17.0	2				16.0	3				<table border="1"> <thead> <tr> <th>Door overlay</th> <th>Cup distance</th> <th>3</th> <th>0</th></tr></thead></table>		Door overlay	Cup distance	3	0	2 <th>3 </th>	3
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13.0	3																												

Mounting plate height

 | Door overlay | Cup distance | 9.5 | 0 | |--------------|--------------|-----|---| |--------------|--------------|-----|---| | | 2  3   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 9.5 | 0 |  |  |  |  | | 7.5 | 2 |  |  |  |  | | 6.5 | 3 |  |  |  |  |  Mounting plate height  | Door reveal | Cup distance | 19 | 0 | |-------------|--------------|----|---| |-------------|--------------|----|---| | | 2  3   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 0.0 | 0 |  |  |  |  | | 2.0 | 2 |  |  |  |  | | 3.0 | 3 |  |  |  |  |  Mounting plate height | | | |

MINIMUM REVEAL

Frame thickness	Frame width				
	18	19	20	21	22
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

Minimum reveal (F)

INSTALLATION DIMENSIONS

Hinge dimensions and reveal calculation with factory setting

Fixing screws are not included

M 3 x 6

min. 13.5

1.3

90°

Ø 3.2

10.5+0.1

15+0.2

1.3

10.5+0.1

max. 24

16.5+0.2

16+0.2

15+0.2

15+0.2

28+0.1

max. 22



# TIOMOS 110/90A

110° blind corner hinge (overlay)



- Hinge for overlay blind corner constructions
- 110° opening angle
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate
- Minimum reveals
- Surfaces: Nickel or Night (especially for dark cabinet materials and woods)

**Available in two versions:**

- With integrated damper (3 adjustable damping levels)
- Without integrated damper

## ORDER INFORMATION FOR DRILLING PATTERN 45/9.5, NICKEL

Door overlay		Damper		Without spring	Art. No.		
		With	Without		Click-on for screw fitting	Click-on for press fitting	Impresso tool-free
Overlay <sup>1</sup>		■	-	-	<b>F028138535</b>	<b>F028138545</b>	<b>F017139341</b>
		-	■	-	-	<b>F045138483</b>	-

<sup>1</sup> Cup material: steel, nickel-plated/Arm material: zamak, nickel-plated

## ORDER INFORMATION FOR DRILLING PATTERN 45/9.5, NIGHT

Door overlay		Damper		Without spring	Art. No.		
		With	Without		Click-on for screw fitting		
Overlay <sup>1</sup>		■	-	-	<b>F028140419</b>		

<sup>1</sup> Cup material: steel, Night/Arm material: zamak, Night

## PAGE REFERENCES

Tiomos mounting plates	86	Tipmatic	114		
Accessories	96	Assembly technology	637		
Technical information	100	Assembly aids	654		

PLANNING DIMENSIONS

All dimensions in millimetres

Inset

Cross mounting plates with mounting distance 37

Drilling distance (X)	Cup distance				
	3	4	5	6	7
30.0	18	19	20	21	22
29.0	17	18	19	20	21
28.0	16	17	18	19	20
27.0	15	16	17	18	19
26.0	14	15	16	17	18

Mounting plate height 0

Door overlay

Linear mounting plates

Drilling distance (X)	Cup distance				
	3	4	5	6	7
13.0	18	19	20	21	22
12.0	17	18	19	20	21
11.0	16	17	18	19	20
10.0	15	16	17	18	19
9.0	14	15	16	17	18

Door overlay

MINIMUM GAP

Door thickness	Cup distance					Minimum gap
	3	4	5	6	7	
24.0	1.0	1.0	1.0	1.2	2.1	
22.0	1.0	1.0	1.0	1.0	1.5	
21.0	1.0	1.0	1.0	1.0	1.2	
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	

NOTES

The minimum gap is the clearance required between the cabinet face and the closed door so that the door can be opened without hindrance.

DRILLING PATTERNS 45/9.5

For screw fitting

For press fitting

Impresso combination drilling pattern

CUP DIMENSIONS

( ) Impresso



# TIOMOS 110/90E

110° blind corner hinge (inset)



- Hinge for blind corner constructions
- 110° opening angle
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate
- Minimum reveals
- Surfaces: Nickel or Night (especially for dark cabinet materials and woods)

#### Available in three 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, NICKEL

Door overlay		Damper		Without spring	Art. No.		
		With	Without		Click-on for screw fitting	Click-on for press fitting	Impresso tool-free
Inset <sup>1</sup>		■	-	-	<b>F028138536</b>	<b>F028138546</b>	<b>F017139342</b>
		-	■	-	<b>F045138474</b>	<b>F045138484</b>	<b>F034139313</b>
		-	■	■	<b>F046138596</b>	<b>F046138606</b>	<b>F035139370</b>

<sup>1</sup> Cup material: steel, nickel-plated/Arm material: zamak, nickel-plated

### ORDER INFORMATION FOR DRILLING PATTERN 45/9.5, NIGHT

Door overlay		Damper		Without spring	Art. No.		
		With	Without		Click-on for screw fitting		
Inset <sup>1</sup>		■	-	-	<b>F028140961</b>		

<sup>1</sup> Cup material: steel, Night/Arm material: zamak, Night

### PAGE REFERENCES

Tiomos mounting plates	86	Tipmatic	114		
Accessories	96	Assembly technology	637		
Technical information	100	Assembly aids	654		

## PLANNING DIMENSIONS

All dimensions in millimetres

**Inset**

Cross mounting plates with mounting distance 37

Linear mounting plates

Drilling distance (X)	Cup distance				
	4	5	6	7	
28.0	1	0			
27.0	2	1	0		
26.0	3	2	1	0	
	Door reveal				

Mounting plate height 3

Drilling distance (X)	Cup distance				
	4	5	6	7	
11.0	1	0			
10.0	2	1	0		
9.0	3	2	1	0	
	Door reveal				

## 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	
	Minimum reveal (F)					

## NOTES

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

Use standard mounting plate height 3 to ensure that the door and blind corner surface are flush.

## DRILLING PATTERNS 45/9.5

**For screw fitting**

**For press fitting**

**Impresso combination drilling pattern**

## CUP DIMENSIONS

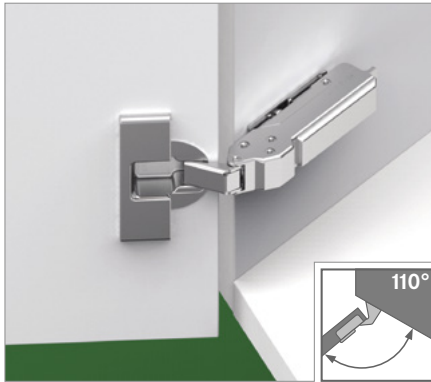
( ) Impresso





# TIOMOS 110/30A

+30° angle corner cabinet hinge (overlay)



- For 30° angled cabinets
- 110° opening angle
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate
- Minimum reveals

**Available in three 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, NICKEL**

Door overlay		Damper			Without spring	Art. No.	
		With	Without	Click-on for screw fitting		Click-on for press fitting	
Overlay <sup>1</sup>		■	-	-	<b>F028 138529</b>	-	
		-	■	-	<b>F045 138467</b>	-	
		-	■	■	<b>F046 138589</b>	<b>F046 138599</b>	

<sup>1</sup> Cup material: steel, nickel-plated/Arm material: zamak, nickel-plated

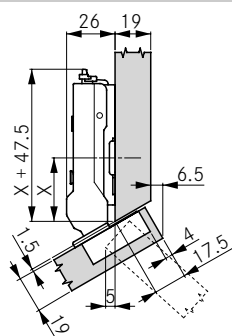
**PAGE REFERENCES**

Tiomos mounting plates	86	Tipmatic	114		
Accessories	96	Assembly technology	637		
Technical information	100	Assembly aids	654		

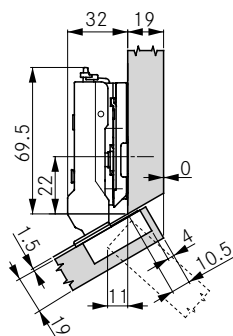
PLANNING DIMENSIONS

All dimensions in millimetres

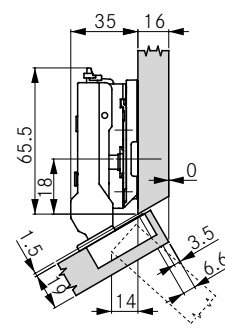
Overlay



Mounting plate height 0

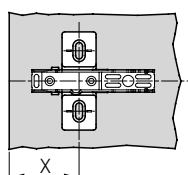


Mounting plate height 6

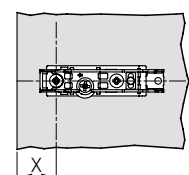


Mounting plate height 9

Door overlay	Cup distance				
	3	4	5	6	7
20.5					0
19.5				0	
18.5			0		2
17.5		0		2	3
16.5	0				
16.0			2	3	
15.5					
15.0		2	3		
14.5					
14.0	2	3			
13.5					
13.0	3				
12.5				6	
11.5			6		
10.5		6			
	Mounting plate height				



Cross mounting plates with mounting distance 37



Linear mounting plates

X	Mounting plate height			
	0	2	3	6
X	34.0	33.0	32.0	30.5
	Cross mounting plate position (X)			

X	Mounting plate height		
	0	2	3
X	17.0	16.0	15.0
	Linear mounting plate position (X)		

MINIMUM GAP

Door thickness	Cup distance				
	3	4	5	6	7
24.0	1.0	1.0	1.0	1.2	2.1
22.0	1.0	1.0	1.0	1.0	1.5
21.0	1.0	1.0	1.0	1.0	1.2
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
	Minimum gap				

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
	Minimum reveal (F)				

NOTES

The minimum gap is the clearance required between the cabinet face and the closed door so that the door can be opened without hindrance.

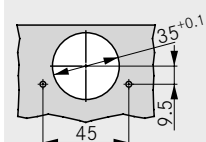
Minimum reveal for doors with chamfered edges (R = 1 mm) with factory setting.

Hinge dimensions and reveal calculation with factory setting.

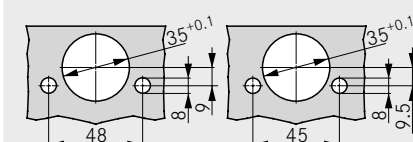
A trial fitting is recommended for door thicknesses from 24 mm.

DRILLING PATTERNS 45/9.5

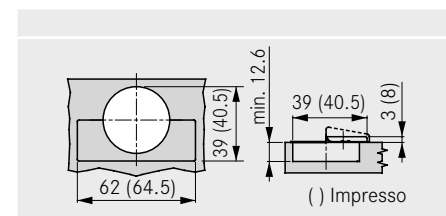
For screw fitting



Impresso combination drilling pattern

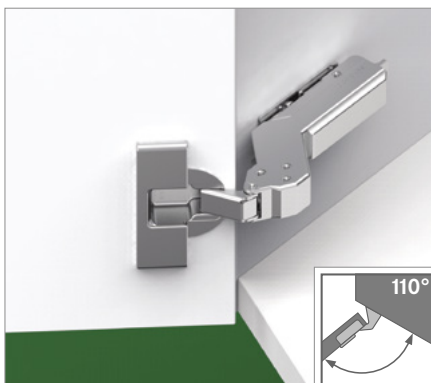


CUP DIMENSIONS



# TIOMOS 110/30E

+30° corner cabinet hinge (inset)



- For 30° angled cabinets
- 110° opening angle
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate
- Minimum reveals

#### Available in three 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, NICKEL

Door overlay		Damper		Without spring	Art. No.		
		With	Without		Click-on for screw fitting	Click-on for press fitting	
Inset <sup>1</sup>		■	-	-	<b>F028 138530</b>	<b>F028 138540</b>	
		-	■	-	<b>F045 138468</b>	<b>F045 138478</b>	
		-	■	■	<b>F046 138590</b>	<b>F046 138600</b>	

<sup>1</sup> Cup material: steel, nickel-plated/Arm material: zamak, nickel-plated

### PAGE REFERENCES

Tiomos mounting plates	86	Tipmatic	114		
Accessories	96	Assembly technology	637		
Technical information	100	Assembly aids	654		

PLANNING DIMENSIONS

All dimensions in millimetres

**Inset**

Mounting plate height 9

	Cup distance					
	3	4	5	6	7	
22	9.5			12		
21	9					
20					12	
19	8	9	9.5			
18		8	9			
17				9.5		
16			8		9.5	
15	6				9	
<b>Door overlay</b>						
						<b>Mounting plate height</b>

Cross mounting plates with mounting distance 37

	Cup distance					
	3	4	5	6	7	
22	63.5			61.5		
21	62.5					
20		61.5			60.0	
19		61.0	60.0			
18		59.0	59.0			
17				58.0		
16			57.5		56.5	
15	57.5				55.5	
<b>Door overlay</b>						
						<b>Cross mounting plate position (X)</b>

MINIMUM REVEAL

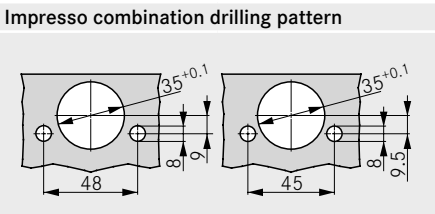
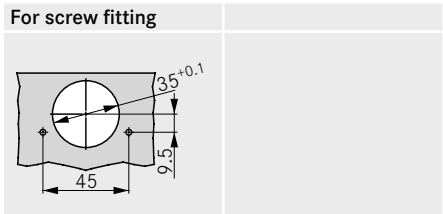
	Cup distance					
	3	4	5	6	7	
24.0	2.4	2.1	2.1	2.1	2.0	
22.0	1.6	1.6	1.6	1.5	1.5	
21.0	1.4	1.3	1.3	1.3	1.3	
20.0	1.1	1.1	1.1	1.1	1.1	
19.0	0.9	0.9	0.9	0.9	0.9	
18.0	0.7	0.7	0.7	0.7	0.7	
17.0	0.6	0.6	0.6	0.6	0.6	
16.0	0.6	0.6	0.6	0.6	0.6	
15.0	0.6	0.6	0.6	0.6	0.6	
<b>Door thickness</b>						
						<b>Minimum reveal (F)</b>

NOTES

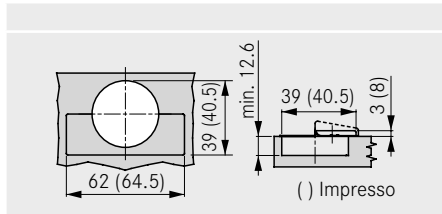
Minimum reveal for doors with chamfered edges (R = 1 mm) with factory setting.

A trial fitting is recommended for door thicknesses from 24 mm.

DRILLING PATTERNS 45/9.5



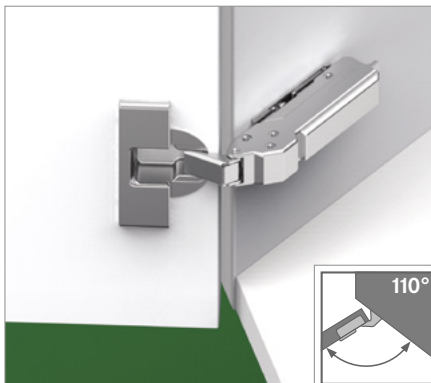
CUP DIMENSIONS



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8

# TIOMOS 110/37A

+37° angle corner cabinet hinge (overlay)




- For 37° angled cabinets
- 110° opening angle
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate
- Minimum reveals

#### Available in three 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, NICKEL

Door overlay		Damper			Without spring	Art. No.		
		With	Without	Without spring		Click-on for screw fitting	Click-on for press fitting	Impresso tool-free
Overlay <sup>1</sup>		■	-	-	<b>F028 138531</b>	<b>F028 138541</b>	-	
		-	■	-	<b>F045 138469</b>	<b>F045 138479</b>	<b>F034 139308</b>	
		-	■	■	<b>F046 138591</b>	<b>F046 138601</b>	<b>F035 139365</b>	

<sup>1</sup> Cup material: steel, nickel-plated/Arm material: zamak, nickel-plated

### PAGE REFERENCES

Tiomos mounting plates	86	Tipmatic	114		
Accessories	96	Assembly technology	637		
Technical information	100	Assembly aids	654		

PLANNING DIMENSIONS

All dimensions in millimetres

Overlay

Mounting plate height 0      Mounting plate height 12      Mounting plate height 12

Door overlay	Cup distance					
	3	4	5	6	7	
21.5					0	
21.0				0		
20.0			0			
19.0		0				
18.5				2		
18.0	0				3	
17.5			2			
17.0				3		
16.5		2				
16.0			3			
15.5	2					
15.0		3				
14.5					6	
14.0	3					
13.0				6		
12.0			6			
11.0		6				
10.0	6					

Mounting plate height

Cross mounting plates with mounting distance 37      Linear mounting plates

X	Mounting plate height				
	0	2	3	6	
X	33.5	32.0	31.0	29.0	

Mounting plate position (X)

X	Mounting plate height		
	0	2	3
X	16.5	15.0	14.0

Linear mounting plate position (X)

MINIMUM GAP

Door thickness	Cup distance					
	3	4	5	6	7	
24.0	1.0	1.0	1.0	1.2	2.1	
22.0	1.0	1.0	1.0	1.0	1.5	
21.0	1.0	1.0	1.0	1.0	1.2	
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	

Minimum gap

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	

Minimum reveal (F)

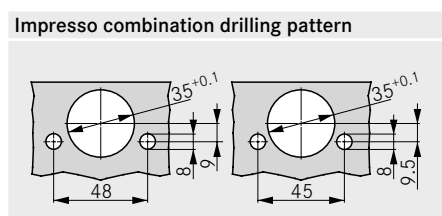
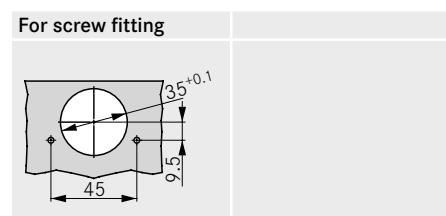
NOTES

The minimum gap is the clearance required between the cabinet face and the closed door so that the door can be opened without hindrance.

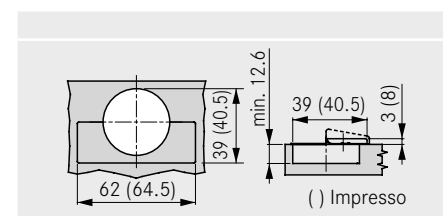
Minimum reveal for doors with chamfered edges (R = 1 mm) with factory setting.

A trial fitting is recommended for door thicknesses from 24 mm.

DRILLING PATTERNS 45/9.5



CUP DIMENSIONS



# TIOMOS 110/37E

+37° corner cabinet hinge (inset)



- For 37° angled cabinets
- 110° opening angle
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate
- Minimum reveals

#### Available in three 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, NICKEL

Door overlay		Damper		Without spring	Art. No.		
		With	Without		Click-on for screw fitting	Click-on for press fitting	Impresso tool-free
Inset <sup>1</sup>		■	-	-	<b>F028 138532</b>	<b>F028 138542</b>	-
		-	■	-	-	<b>F045 138480</b>	<b>F034 139309</b>
		-	■	■	<b>F046 138592</b>	<b>F046 138602</b>	<b>F035 139366</b>

<sup>1</sup> Cup material: steel, nickel-plated/Arm material: zamak, nickel-plated

### PAGE REFERENCES

Tiomos mounting plates	86	Tipmatic	114		
Accessories	96	Assembly technology	637		
Technical information	100	Assembly aids	654		

PLANNING DIMENSIONS

All dimensions in millimetres

Inset

Mounting plate height 12

Door overlay	Cup distance					
	3	4	5	6	7	
22	12		14		15	
21		12		14		
20			12		14	
19				12		
18	9					
17		9.5			12	
16	8	9	9.5			
15		8	9			
	Mounting plate height					

Cross mounting plates with mounting distance 37

Door overlay	Cup distance					
	3	4	5	6	7	
22	59.0		57.5		56.5	
21		57.5		56.5		
20			56.5		55.0	
19				55.0		
18	56.0					
17		54.5			53.0	
16	54.5	54.0	53.0			
15		53.0	52.5			
	Cross mounting plate position (X)					

MINIMUM REVEAL

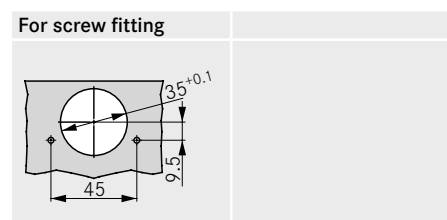
Door thickness	Cup distance					
	3	4	5	6	7	
24.0	2.4	2.1	2.1	2.1	2.0	
22.0	1.6	1.6	1.6	1.5	1.5	
21.0	1.4	1.3	1.3	1.3	1.3	
20.0	1.1	1.1	1.1	1.1	1.1	
19.0	0.9	0.9	0.9	0.9	0.9	
18.0	0.7	0.7	0.7	0.7	0.7	
17.0	0.6	0.6	0.6	0.6	0.6	
16.0	0.6	0.6	0.6	0.6	0.6	
15.0	0.6	0.6	0.6	0.6	0.6	
	Minimum reveal (F)					

NOTES

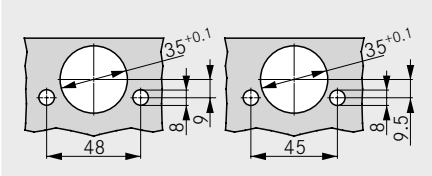
Minimum reveal for doors with chamfered edges (R = 1 mm) with factory setting.

A trial fitting is recommended for door thicknesses from 24 mm.

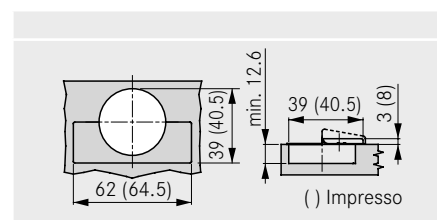
DRILLING PATTERNS 45/9.5



Impresso combination drilling pattern



CUP DIMENSIONS





# TIOMOS 110/45A

+45° angle corner cabinet hinge (overlay)



- For 45° angled cabinets
- 110° opening angle
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate
- Minimum reveals
- Surfaces: Nickel or Night (especially for dark cabinet materials and woods)

#### Available in three 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, NICKEL

Door overlay		Damper		Without spring	Art. No.		
		With	Without		Click-on for screw fitting	Click-on for press fitting	Impresso tool-free
Overlay <sup>1</sup>		■	-	-	<b>F028 138533</b>	<b>F028 138543</b>	<b>F017 139339</b>
		-	■	-	<b>F045 138471</b>	-	<b>F034 139310</b>
		-	■	■	<b>F046 138593</b>	-	<b>F035 139367</b>

<sup>1</sup> Cup material: steel, nickel-plated/Arm material: zamak, nickel-plated

### ORDER INFORMATION FOR DRILLING PATTERN 45/9.5, NIGHT

Door overlay		Damper		Without spring	Art. No.		
		With	Without		Click-on for screw fitting		
Overlay <sup>1</sup>		■	-	-	<b>F028 140962</b>		

<sup>1</sup> Cup material: steel, Night/Arm material: zamak, Night

### PAGE REFERENCES

Tiomas mounting plates	86	Tipmatic	114		
Accessories	96	Assembly technology	637		
Technical information	100	Assembly aids	654		

PLANNING DIMENSIONS

All dimensions in millimetres

Overlay

Mounting plate height 0                      Mounting plate height 8                      Mounting plate height 12

Door overlay	Cup distance					
	3	4	5	6	7	
19.5					0	
19.0						
18.5				0		
18.0						
17.5			0			
17.0						
16.5		0			2	
16.0						
15.5	0			2		3
15.0						
14.5			2			
14.0				3		
13.5		2				
13.0			3			
12.5	2					
12.0		3				
11.0	3				6	
10.0				6		

Mounting plate height

Cross mounting plates with mounting distance 37                      Linear mounting plates

X	Mounting plate height				
	0	2	3	6	
X	30.5	28.5	27.5	24.5	

Cross mounting plate position (X)

X	Mounting plate height			
	0	2	3	
X	13.5	11.5	10.5	

Linear mounting plate position (X)

MINIMUM GAP

Door thickness	Cup distance					
	3	4	5	6	7	
24.0	1.0	1.0	1.0	1.2	2.1	
22.0	1.0	1.0	1.0	1.0	1.5	
21.0	1.0	1.0	1.0	1.0	1.2	
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	

Minimum gap

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	

Minimum reveal (F)

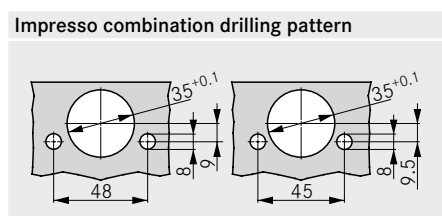
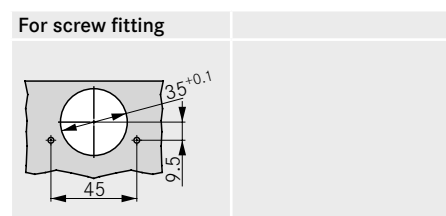
NOTES

The minimum gap is the clearance required between the cabinet face and the closed door so that the door can be opened without hindrance.

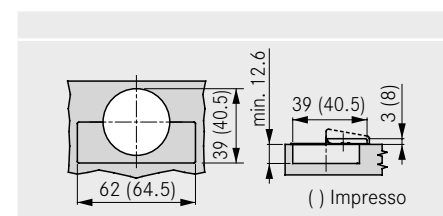
Minimum reveal for doors with chamfered edges (R = 1 mm) with factory setting.

A trial fitting is recommended for door thicknesses from 24 mm.

DRILLING PATTERNS 45/9.5



CUP DIMENSIONS



# TIOMOS 110/45E

+45° corner cabinet hinge (inset)



- For 45° angled cabinets
- 110° opening angle
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate
- Minimum reveals
- Surfaces: Nickel or Night (especially for dark cabinet materials and woods)

#### Available in three 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, NICKEL

Door overlay		Damper		Without spring	Art. No.		
		With	Without		Click-on for screw fitting	Click-on for press fitting	Impresso tool-free
Inset <sup>1</sup>		■	-	-	<b>F028 138534</b>	<b>F028 138544</b>	<b>F017 139340</b>
		-	■	-	<b>F045 138472</b>	<b>F045 138482</b>	-
		-	■	■	-	<b>F046 138604</b>	<b>F035 139368</b>

<sup>1</sup> Cup material: steel, nickel-plated/Arm material: zamak, nickel-plated

## ORDER INFORMATION FOR DRILLING PATTERN 45/9.5, NIGHT

Door overlay		Damper		Without spring	Art. No.		
		With	Without		Click-on for screw fitting		
Overlay <sup>1</sup>		■	-	-	<b>F028 140418</b>		

<sup>1</sup> Cup material: steel, Night/Arm material: zamak, Night

## PAGE REFERENCES

Tiomos mounting plates	86	Tipmatic	114		
Accessories	96	Assembly technology	637		
Technical information	100	Assembly aids	654		

PLANNING DIMENSIONS

All dimensions in millimetres

Inset

Mounting plate height 0

Mounting plate height 14

Cross mounting plates with mounting distance 37

Door reveal	Cup distance					
	3	4	5	6	7	
1			0			
2		0			2	
3	0			2	3	
4			2	3		
5		2	3			
6	2	3				
7	3					
	Mounting plate height					
	Cross mounting plate position (X)					

Door overlay	Cup distance					
	3	4	5	6	7	
22		15.5				
21	14		15			
20			14	15	15.5	
19	12			15	15	
18		12			14	
17			12			
16				12		
15	9				12	
	Mounting plate height					
	Cross mounting plate position (X)					

Door overlay	Cup distance					
	3	4	5	6	7	
22		53.0				
21	53.0		51.5			
20			51.0	50.5	50.0	
19	52.0			50.0	49.0	
18		50.5			48.5	
17			49.0			
16				47.5		
15	49.0				46.0	
	Cross mounting plate position (X)					

MINIMUM REVEAL

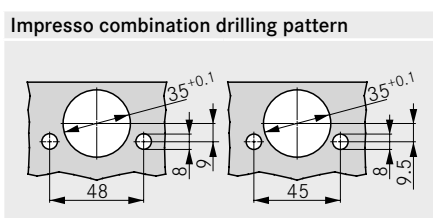
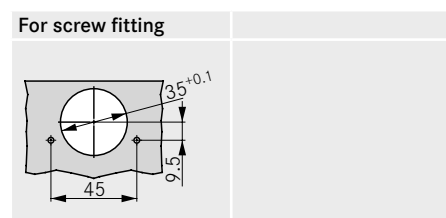
Door thickness	Cup distance					
	3	4	5	6	7	
24.0	2.4	2.1	2.1	2.1	2.0	
22.0	1.6	1.6	1.6	1.5	1.5	
21.0	1.4	1.3	1.3	1.3	1.3	
20.0	1.1	1.1	1.1	1.1	1.1	
19.0	0.9	0.9	0.9	0.9	0.9	
18.0	0.7	0.7	0.7	0.7	0.7	
17.0	0.6	0.6	0.6	0.6	0.6	
16.0	0.6	0.6	0.6	0.6	0.6	
	Minimum reveal (F)					

NOTES

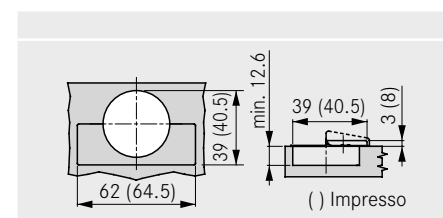
Minimum reveal for doors with chamfered edges (R = 1 mm) with factory setting.

A trial fitting is recommended for door thicknesses from 24 mm.

DRILLING PATTERNS 45/9.5

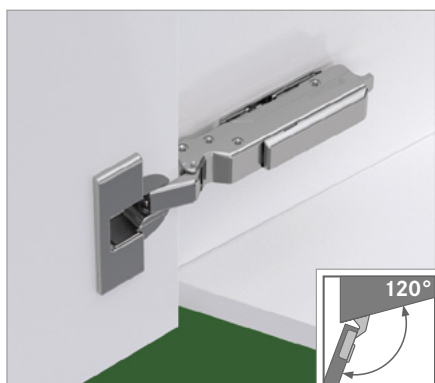


CUP DIMENSIONS



# TIOMOS 120/-15A

-15° angle corner cabinet hinge (overlay)



- For -15° angled cabinets
- 120° opening angle
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate
- Minimum reveals

**Available in two versions:**

- With integrated damper (3 adjustable damping levels)
- Without integrated damper

**ORDER INFORMATION FOR DRILLING PATTERN 45/9.5, NICKEL**

Door overlay		Damper		Without spring	Art. No.		
		With	Without		Click-on for screw fitting	Click-on for press fitting	Impresso tool-free
Overlay <sup>1</sup>		■	-	-	<b>F028 138555</b>	-	<b>F017 139347</b>
		-	■	-	<b>F045 138493</b>	<b>F045 138496</b>	<b>F034 139318</b>

<sup>1</sup> Cup material: steel, nickel-plated/Arm material: zamak, nickel-plated

**PAGE REFERENCES**

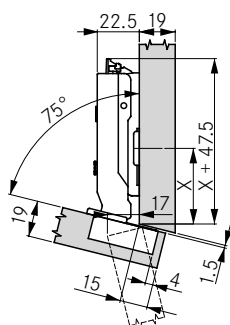
Tiomos mounting plates	86
Accessories	96
Technical information	100

Assembly technology	637
Assembly aids	654


PLANNING DIMENSIONS

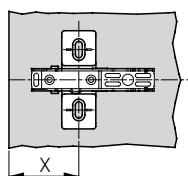
All dimensions in millimetres

Overlay



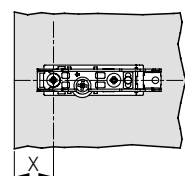
Mounting plate height 0

	Cup distance				
	3	4	5	6	7
18.0					0
17.0				0	
16.0			0		
15.0		0			
14.5				2	3
14.0	0				
13.5			2	3	
13.0					
12.5		2	3		
12.0					
11.5		3			6
11.0					
10.5	3				
10.0				6	
9.5			6		
8.5		6			
Mounting plate height					



Cross mounting plates with mounting distance 37

	Mounting plate height				
	0	2	3	6	
X	40	40.5	40.5	41.5	
Cross mounting plate position (X)					



Linear mounting plates

	Mounting plate height			
	0	2	3	
X	23	23.5	23.5	
Linear mounting plate position (X)				

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	1.0	1.0	1.0	1.0	1.5
16.0	1.0	1.0	1.0	1.0	1.0
Minimum reveal (F)					

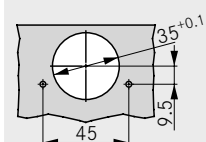
NOTES

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

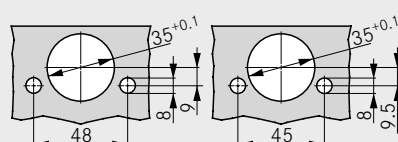
We recommend a trial fitting.

DRILLING PATTERNS 45/9.5

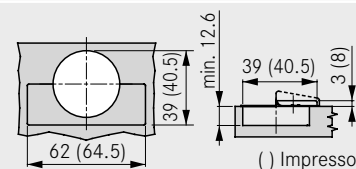
For screw fitting



Impresso combination drilling pattern



CUP DIMENSIONS



( ) Impresso



# TIOMOS 120/-30A

-30° angle corner cabinet hinge (overlay)



- For -30° angled cabinets
- 120° opening angle
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate
- Minimum reveals

**Available in two versions:**

- With integrated damper (3 adjustable damping levels)
- Without integrated damper

**ORDER INFORMATION FOR DRILLING PATTERN 45/9.5, NICKEL**

Door overlay		Damper		Without spring	Art. No.		
		With	Without		Click-on for screw fitting	Click-on for pressfitting	Impresso tool-free
Overlay <sup>1</sup>		■	-	-	<b>F028 138556</b>	<b>F028 138559</b>	<b>F017 139348</b>
		-	■	-	<b>F045 138494</b>	<b>F045 138497</b>	<b>F034 139319</b>

<sup>1</sup> Cup material: steel, nickel-plated/Arm material: zamak, nickel-plated

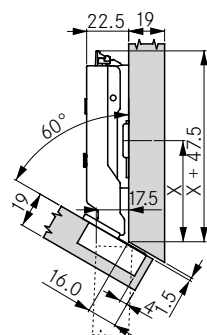
**PAGE REFERENCES**

Tiomos mounting plates	86	Assembly technology	637		
Accessories	96	Assembly aids	654		
Technical information	100				

PLANNING DIMENSIONS

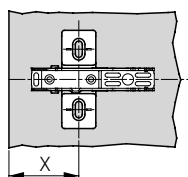
All dimensions in millimetres

Overlay

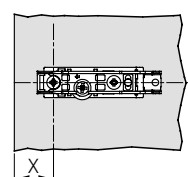


Mounting plate height 0

	Cup distance				
	3	4	5	6	7
19.0					0
18.0				0	
17.0			0		
16.5					2
16.0		0			
15.5				2	
15.0	0				3
14.5			2		
14.0				3	
13.5		2			
13.0			3		
12.5	2				
12.0		3			6
11.5					
11.0	3				6
10.5					
10.0			6		
9.0		6			
8.0	6				
Door overlay					
Mounting plate height					



Cross mounting plates with mounting distance 37



Linear mounting plates

	Mounting plate height				
	0	2	3	6	
X	53.5	55	55.5	57	
Cross mounting plate position (X)					

	Mounting plate height				
	0	2	3		
X	36.5	38	38.5		
Linear mounting plate position (X)					

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	1.0	1.0	1.0	1.0	1.5
16.0	1.0	1.0	1.0	1.0	1.0
Door thickness					
Minimum reveal (F)					

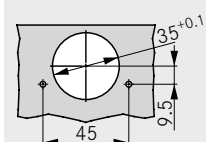
NOTES

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

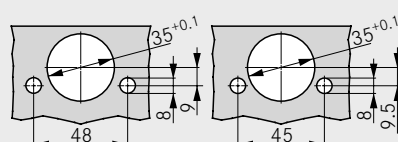
We recommend a trial fitting.

DRILLING PATTERNS 45/9.5

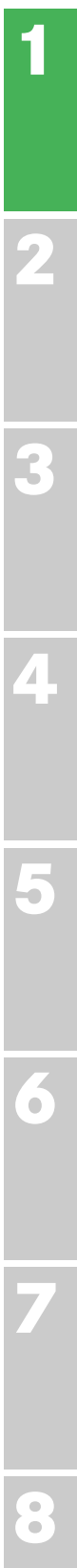
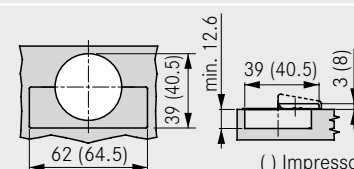
For screw fitting



Impresso combination drilling pattern



CUP DIMENSIONS





# TIOMOS 120/-45A

-45° corner cabinet hinge (overlay)



- For -45° angled cabinets
- 120° opening angle
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate
- Minimum reveals

**Available in two versions:**

- With integrated damper (3 adjustable damping levels)
- Without integrated damper

**ORDER INFORMATION FOR DRILLING PATTERN 45/9.5, NICKEL**

Door overlay		Damper		Without spring	Art. No.		
		With	Without		Click-on for screw fitting	Click-on for press fitting	
Overlay <sup>1</sup>		■	-	-	<b>F028 138557</b>	<b>F028 138560</b>	
		-	■	-	<b>F045 138495</b>	<b>F045 138498</b>	

<sup>1</sup> Cup material: steel, nickel-plated/Arm material: zamak, nickel-plated

**PAGE REFERENCES**

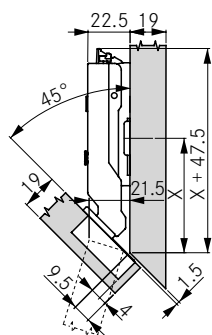
Tiomos mounting plates	86
Accessories	96
Technical information	100

Assembly technology	637
Assembly aids	654


PLANNING DIMENSIONS

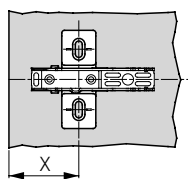
All dimensions in millimetres

Overlay



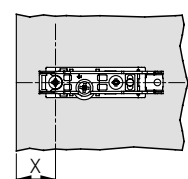
Mounting plate height 0

	Cup distance				
	3	4	5	6	7
12.0					0
11.5				0	
10.5			0		
9.5		0			2
8.5	0			2	
8.0					3
7.5			2		
7.0				3	
6.5		2			
6.0			3		
5.5	2				
5.0		3			
4.5					
4.0	3				6
3.5					
3.0				6	
2.0			6		
1.0		6			
0.0	6				
	Mounting plate height				



Cross mounting plates with mounting distance 37

	Mounting plate height				
	0	2	3	6	
X	60.5	62.5	63.5	66.5	
	Cross mounting plate position (X)				



Linear mounting plates

	Mounting plate height				
	0	2	3		
X	43.5	45.5	46.5		
	Linear mounting plate position (X)				

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	1.0	1.0	1.0	1.0	1.5
16.0	1.0	1.0	1.0	1.0	1.0
	Minimum reveal (F)				

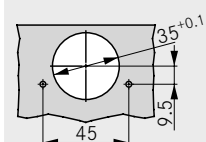
NOTES

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

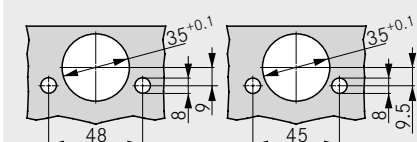
We recommend a trial fitting.

DRILLING PATTERNS 45/9.5

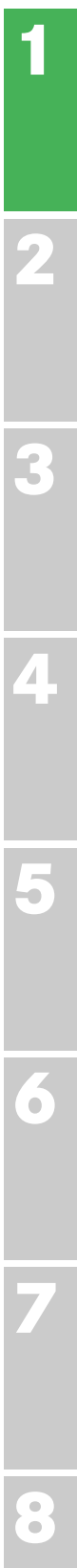
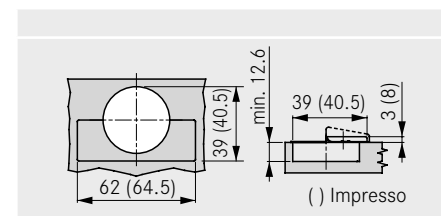
For screw fitting



Impresso combination drilling pattern

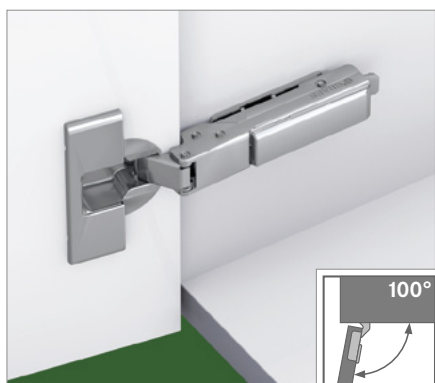


CUP DIMENSIONS



# TIOMOS 100

100° refrigerator hinge



- Hinge for fridge doors (sliding system)
- 100° opening angle
- Flat hinge arm
- With self-closing mechanism (with spring)
- 3-dimensional adjustment with corresponding mounting plate

**Available in one version:**

- Without integrated damper

**ORDER INFORMATION FOR DRILLING PATTERN 45/9.5, NICKEL**

Door overlay		Cranking	Damper		Without spring	Art. No.	
			With	Without		Click-on for screw fitting	Click-on for press fitting
Overlay <sup>1</sup>		3	-	■	-	<b>F045139071</b>	<b>F045139052</b>

<sup>1</sup> Cup material: steel, nickel-plated/Arm material: zamak, nickel-plated

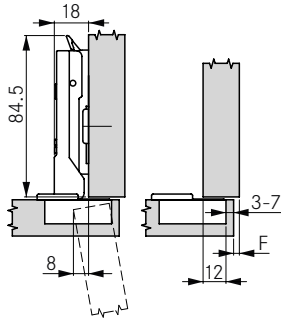
**PAGE REFERENCES**

Tiomos mounting plates	86	Assembly technology	637		
Accessories	96	Assembly aids	654		
Technical information	100				

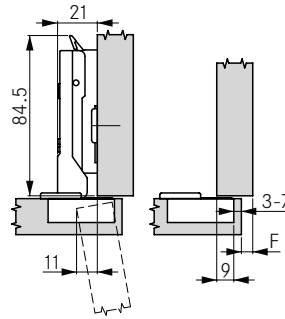
PLANNING DIMENSIONS

All dimensions in millimetres

Overlay



Mounting plate height 0



Mounting plate height 3

Door overlay	Cup distance					
	3	4	5	6	7	
21.0					-2	
20.0				-2		
19.0			-2			
18.0		-2		0		
17.0			0			
16.5	-2					
16.0		0		2	3	
15.5						
15.0	0		2	3		
14.5						
14.0		2	3			
13.5						
13.0	2	3				
12.5						
12.0	3					
	Mounting plate height					

MINIMUM GAP

Door thickness	Cup distance					
	3	4	5	6	7	
26.0	1.0	1.0	1.0	1.2	2.2	
24.0	1.0	1.0	1.0	1.0	1.8	
22.0	1.0	1.0	1.0	1.0	1.1	
20.0	1.0	1.0	1.0	1.0	1.0	
18.0	1.0	1.0	1.0	1.0	1.0	
16.0	1.0	1.0	1.0	1.0	1.0	
	Minimum gap					

MINIMUM REVEAL

Door thickness	Cup distance					
	3	4	5	6	7	
26.0	7.2	6.2	5.2	4.2	3.5	
24.0	4.8	3.8	2.8	2.3	2.2	
22.0	1.9	1.6	1.5	1.4	1.3	
20.0	0.9	0.9	0.9	0.8	0.8	
18.0	0.4	0.4	0.4	0.5	0.5	
16.0	0.3	0.3	0.3	0.3	0.3	
	Minimum reveal (F)					

NOTES

The minimum gap is the clearance required between the cabinet face and the closed door so that the door can be opened without hindrance.

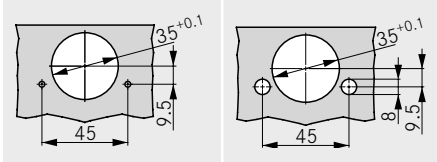
Minimum reveal for doors with chamfered edges (R = 1 mm) with factory setting.

Hinge dimensions and reveal calculation with factory setting.

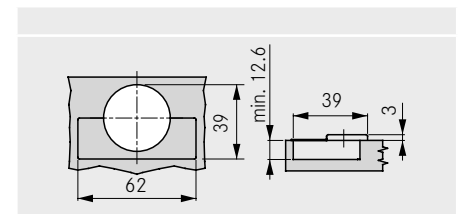
A trial fitting is recommended for door thicknesses from 24 mm.

DRILLING PATTERNS 45/9.5

For screw fitting



CUP DIMENSIONS



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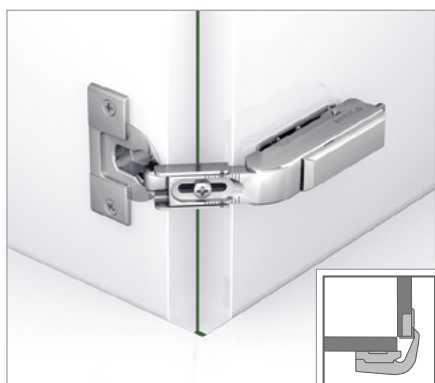
6

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# TIOMOS PCC

Pie-cut corner hinge



- For connecting two corner cabinet doors
- For door thicknesses up to 24 mm (factory setting for 19 mm door thickness with cup distance 3.5 mm)
- 35 mm full cup drill hole
- Shallow cup depth of 11.8 mm
- 3-dimensional adjustment with corresponding mounting plate
- Without integrated damper

**Available in one version:**

- Without integrated damper

## ORDER INFORMATION FOR DRILLING PATTERN 45/9.5, NICKEL

Door overlay		Damper			Without spring	Art. No.		
		With	Without	Click-on for screw fitting		Click-on for press fitting		
1		-	■	-	<b>F045138517</b>	<b>F045138518</b>		

<sup>1</sup> Cup material: steel, nickel-plated/Arm material: zamak, nickel-plated

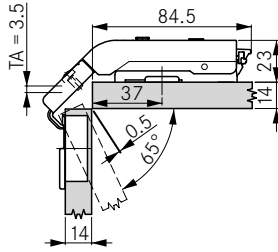
## PAGE REFERENCES

Tiomos mounting plates	86
Accessories	96
Technical information	100

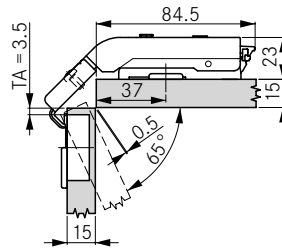
Assembly technology	637
Assembly aids	654


PLANNING DIMENSIONS

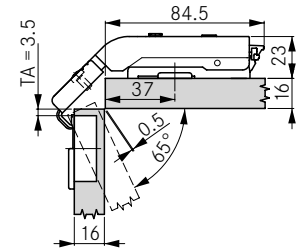
All dimensions in millimetres



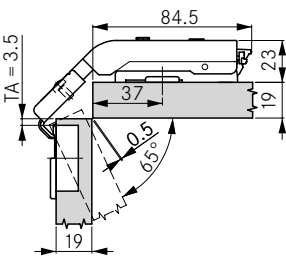
Door thickness (TS) 14 mm  
Cup distance (TA) 3.5 mm  
Mounting plate height 0



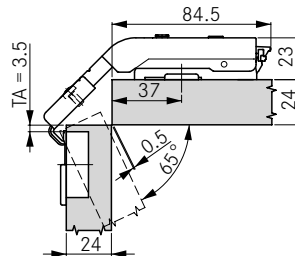
Door thickness (TS) 15 mm  
Cup distance (TA) 3.5 mm  
Mounting plate height 0



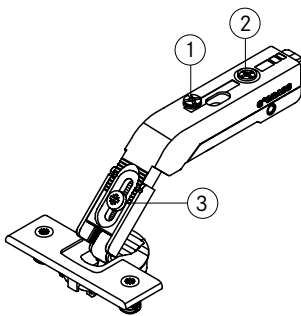
Door thickness (TS) 16 mm  
Cup distance (TA) 3.5 mm  
Mounting plate height 0



Door thickness (TS) 19 mm (factory setting)  
Cup distance (TA) 3.5 mm  
Mounting plate height 0



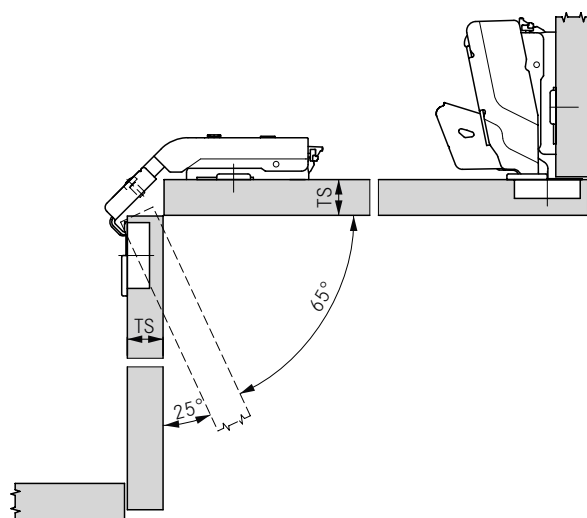
Door thickness (TS) 24 mm  
Cup distance (TA) 3.5 mm  
Mounting plate height 0



Adjustment in the hinge arm:

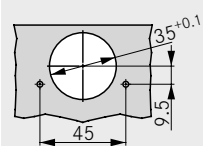
1. Stepless side adjustment  $\pm 2$  mm
2. Stepless depth adjustment via worm screw  $+3/-2$  mm
3. Door thickness 14–24 mm (factory setting 19 mm)

Height adjustment via mounting plate

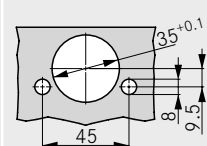


DRILLING PATTERNS 45/9.5

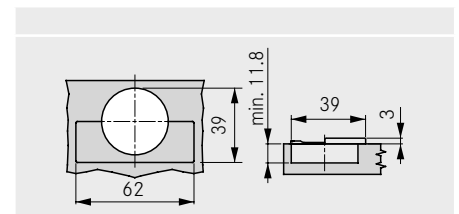
For screw fitting



For press fitting



CUP DIMENSIONS



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**Strong support for  
glass and thin doors.**

# tiomos m series.



With the Tiomos M series, GRASS offers perfect movement for thin doors from 6 mm, glass and mirror doors as well as rebated doors or doors with mitred application. Each available with or without Soft-close damping.



reddot design award  
honourable mention 2010

**THREE VERSATILE  
HINGES FOR  
EVEN THE MOST  
DEMANDING DOOR  
APPLICATIONS.**













**DISCOVER.**



# Tiomos M series

## Hinge systems

The comfortable hinge generation for greater freedom in design.  
For mirrored doors, glass doors, thin doors and much more.

Opening angle		Product description	Full overlay	Overlay	Half overlay	Inset	Page
125°		<b>Tiomos Mirro</b> <ul style="list-style-type: none"> <li>• Glass and mirror door hinge for glue fitting</li> <li>• Convenient depth adjustment via worm screw</li> <li>• Surfaces: Nickel or Night</li> </ul>		-			74
110°		<b>Tiomos M9</b> <ul style="list-style-type: none"> <li>• For four-sided mitred applications, thin doors and rebated doors</li> <li>• Convenient depth adjustment via worm screw</li> <li>• Surfaces: Nickel or Night</li> </ul>		-			80
125°		<b>Tiomos M0</b> <ul style="list-style-type: none"> <li>• Simple screwing without cup hole</li> <li>• For door thicknesses of 6–10 mm</li> </ul>		-			84

Tiomos mounting plates	86
Accessories	96
Technical information	100
Tipmatic Pin for handle-free opening	114
Assembly technology	637
Assembly aids	654

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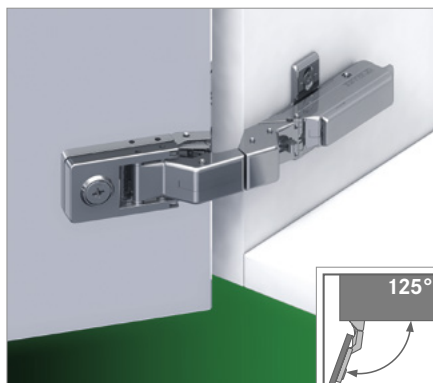
7

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# TIOMOS MIRRO

125° mirror hinge



- 125° opening angle
- Attachment by gluing a stainless steel adapter onto the door side
- Connection of hinge to adapter via cam
- Quick final assembly without drilling into glass
- 3-dimensional adjustment with corresponding mounting plate
- High overlay up to 19 mm
- Surfaces: Nickel or Night (especially for dark cabinet materials and woods)

**Available in three versions:**

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

## ORDER INFORMATION, NICKEL

Door overlay	Cranking	Damper		Without spring	Art. No.		
		With	Without		Click-on for screw fitting		
	14	■	-	-	<b>F029 140325</b>		
		-	■	-	<b>F047 140326</b>		
		-	■	■	<b>F049 140327</b>		

Cup material: zamak, nickel-plated/Arm material: zamak, nickel-plated

## ORDER INFORMATION, NIGHT

Door overlay	Cranking	Damper		Without spring	Art. No.		
		With	Without		Click-on for screw fitting		
	14	■	-	-	<b>F029 140468</b>		
		-	■	■	<b>F049 140470</b>		

Cup material: zamak, Night/Arm material: zamak, Night

## REQUIRED ACCESSORIES

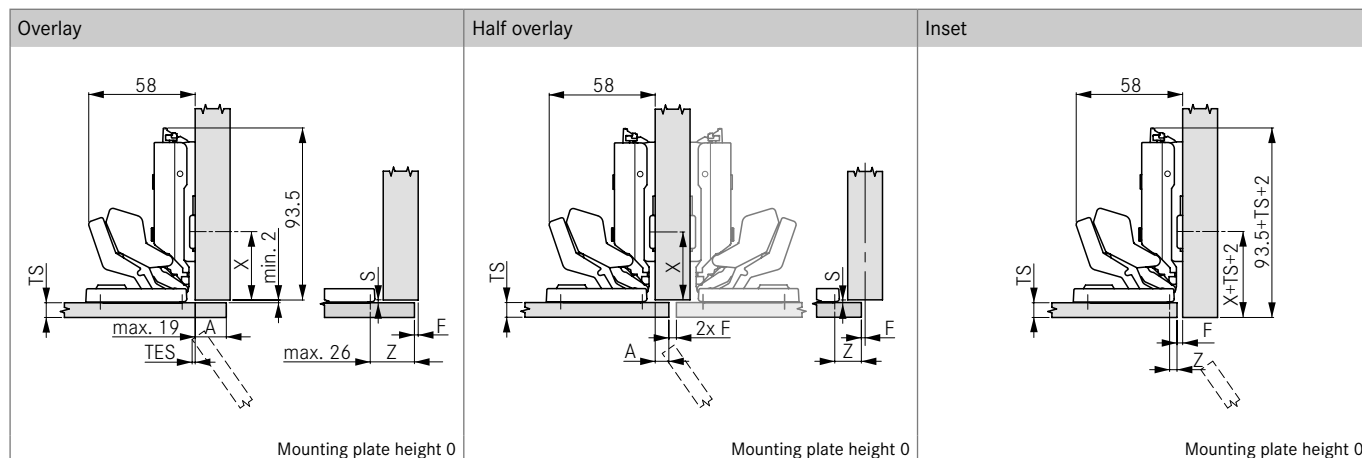
	Designation	Art. No.
	Stainless steel Tiomos Mirro adapter for mirrors	<b>F069073731</b>

## PAGE REFERENCES

Tiomos mounting plates	86	Tipmatic	114		
Accessories	96	Assembly technology	637		
Technical information	100	Assembly aids	654		

PLANNING DIMENSIONS

All dimensions in millimetres



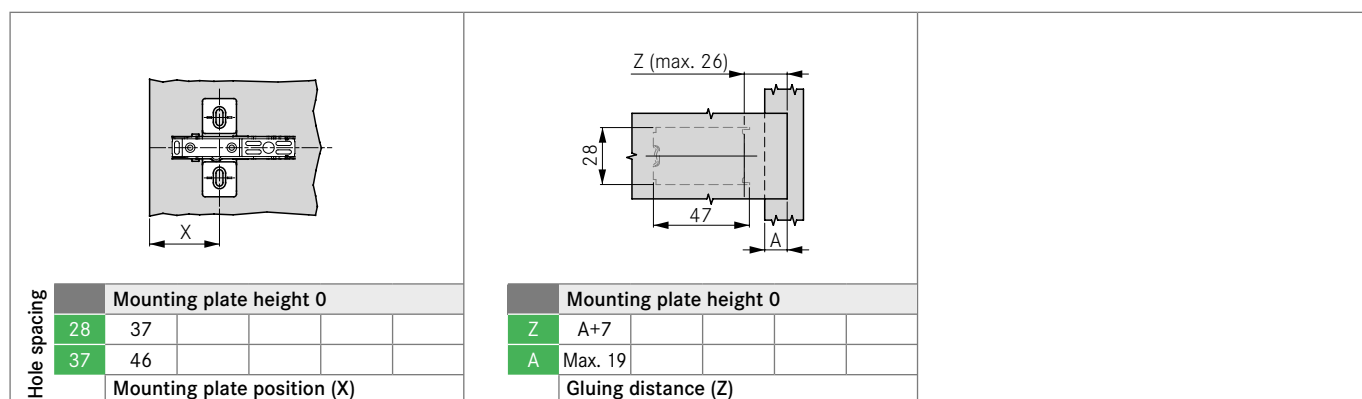
MINIMUM GAP/MINIMUM REVEAL

Values with mounting plate height 0

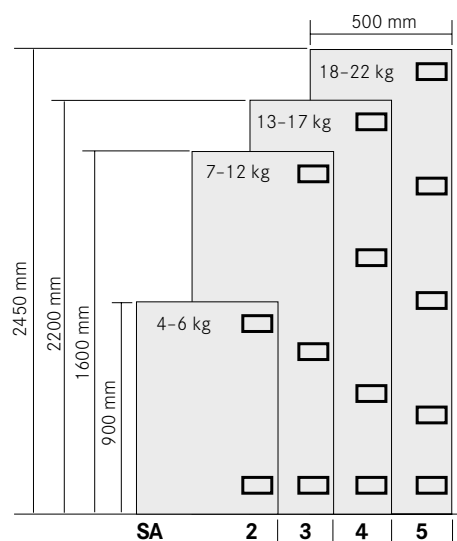
Gluing distance (Z)	4		5		13		15		17		19		21		22		24		26	
Door protrusion (TES)	0		0		0		0		0		0		0.5		1.5		3			
Door overlay (A)	-3		-2		6		8		10		12		14		15		17		19	
Min. reveal (F)/Gap (S)	F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S
Door thickness 3-8 (TS)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

ECO CROSS MOUNTING PLATE

STAINLESS STEEL ADAPTER



NUMBER OF HINGES



NOTES

An inset application is achieved by altering the fixing distance of the mounting plate (X) and reducing the gluing distance (Z).

① **Important:** For mirror or glass doors, all reveals must be at least 1.5 mm (otherwise there is a risk of breakage).

The inside edge of the door must not touch the cabinet when opened.

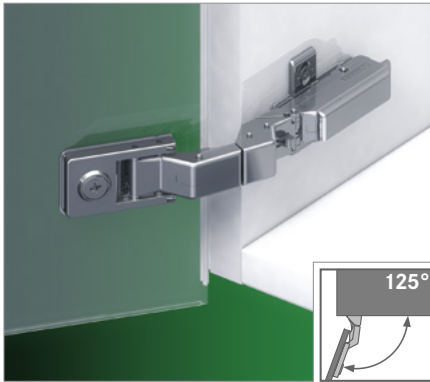
① **Installation advice:** Please contact your glass or door supplier regarding the selection and application of the adhesive for fixing the hinge seat to mirror or glass doors.

① **Liability claims:** Please note that GRASS does not assume any liability for the adhesive and the gluing technique used, nor for any resulting claims.

① **Important:** Mirro hinges must not be used with cam mounting plates.

# TIOMOS MIRRO

125° mirror/clear glass hinge



- 125° opening angle
- Attachment by gluing a zamak adapter onto the door side
- Connection of hinge to adapter via cam
- Quick final assembly without drilling into glass
- 3-dimensional adjustment with corresponding mounting plate
- High overlay up to 19 mm
- Surfaces: Nickel or Night (especially for dark cabinet materials and woods)

**Available in three versions:**

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

**ORDER INFORMATION, NICKEL**

Door overlay	Cranking	Damper		Without spring	Art. No.		
		With	Without		Click-on for screw fitting		
	14	■	-	-	<b>F029 140325</b>		
		-	■	-	<b>F047 140326</b>		
		-	■	■	<b>F049 140327</b>		

Cup material: zamak, nickel-plated/Arm material: zamak, nickel-plated

**ORDER INFORMATION, NIGHT**

Door overlay	Cranking	Damper		Without spring	Art. No.		
		With	Without		Click-on for screw fitting		
	14	■	-	-	<b>F029 140468</b>		
		-	■	■	<b>F049 140470</b>		

Cup material: zamak, Night/Arm material: zamak, Night

**REQUIRED ACCESSORIES**

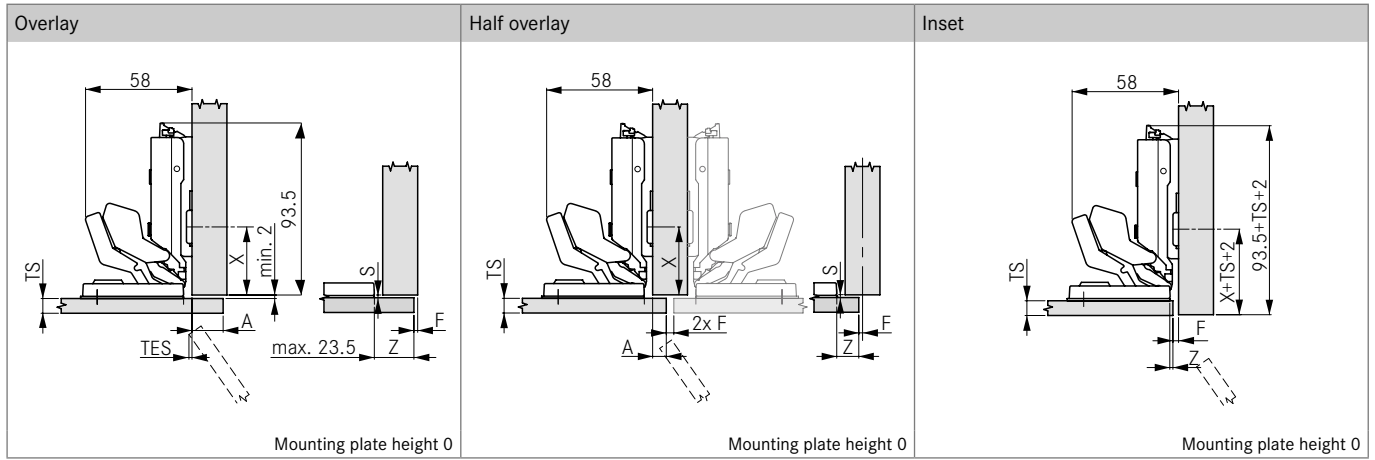
	Designation	Art. No.
	Zamak Tiomos Mirro adapter for mirror and clear glass	<b>F072 135868</b>

**PAGE REFERENCES**

Tiomos mounting plates	86	Tipmatic	114		
Accessories	96	Assembly technology	637		
Technical information	100	Assembly aids	654		

PLANNING DIMENSIONS

All dimensions in millimetres



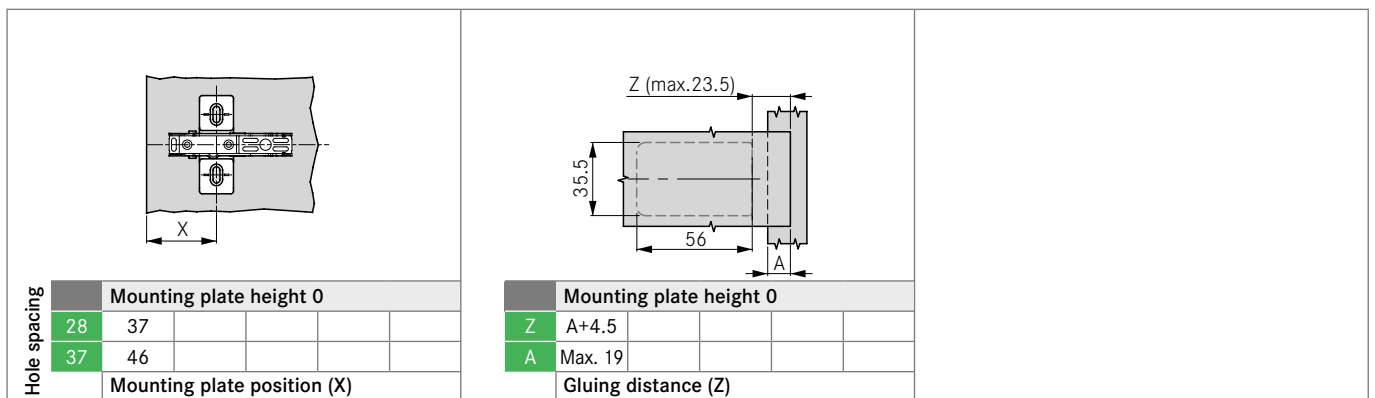
MINIMUM GAP/MINIMUM REVEAL

Values with mounting plate height 0

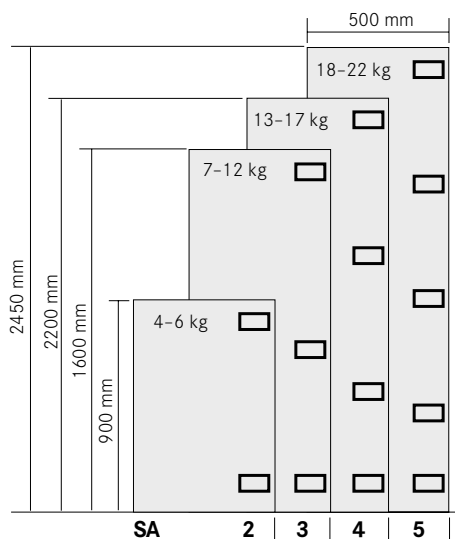
Gluing distance (Z)	1.5	2.5	10.5	12.5	14.5	16.5	18.5	19.5	21.5	23.5
Door protrusion (TES)	0	0	0	0	0	0	0	0.5	1.5	3
Door overlay (A)	-3	-2	6	8	10	12	14	15	17	19
Min. reveal (F)/Gap (S)	F	S	F	S	F	S	F	S	F	S
Door thickness 3-8 (TS)	2	2	2	2	2	2	2	2	2	2

ECO CROSS MOUNTING PLATE

ZAMAK ADAPTER



NUMBER OF HINGES



NOTES

An inset application is achieved by altering the fixing distance of the mounting plate (X) and reducing the gluing distance (Z).

① **Important:** For mirror or glass doors, all reveals must be at least 1.5 mm (otherwise there is a risk of breakage).

The inside edge of the door must not touch the cabinet when opened.

① **Installation advice:** Please contact your glass or door supplier regarding the selection and application of the adhesive for fixing the hinge seat to mirror or glass doors.

① **Liability claims:** Please note that GRASS does not assume any liability for the adhesive and the gluing technique used, nor for any resulting claims.

① **Important:** Mirro hinges must not be used with cam mounting plates.




# TIOMOS MIRRO

## 125° mirror/clear glass hinge



### PLANNING DIMENSIONS

All dimensions in millimetres

#### Corner applications

+5° WEDGE overlay			+5° WEDGE inset			+10° WEDGE overlay		
<b>Adapter</b>	<b>Z</b>		<b>Adapter</b>	<b>Z</b>		<b>Adapter</b>	<b>Z</b>	
Stainless steel	22.5	min. 20	Stainless steel	3	min. 20	Stainless steel	21.5	min. 25
Zamak	20		Zamak	0.5		Zamak	19	
	<b>Height</b>	<b>Art. No.</b>		<b>Height</b>	<b>Art. No.</b>		<b>Height</b>	<b>Art. No.</b>
ECO cross mounting plate	0	<b>F058139721</b>	ECO cross mounting plate	0	<b>F058139721</b>	ECO cross mounting plate	0	<b>F058139721</b>
+5° wedge	3	<b>F072135757</b>	+5° wedge	3	<b>F072135757</b>	+5° wedge (2x)	3	<b>F072135757</b>

#### Corner applications

+10° WEDGE inset			+15° WEDGE overlay					
<b>Adapter</b>	<b>Z</b>		<b>Adapter</b>	<b>Z</b>				
Stainless steel	3	min. 25	Stainless steel	22.5	min. 30			
Zamak	0.5		Zamak	20				
	<b>Height</b>	<b>Art. No.</b>		<b>Height</b>	<b>Art. No.</b>			
ECO cross mounting plate	0	<b>F058139721</b>	ECO cross mounting plate	2	<b>F058139722</b>			
+5° wedge (2x)	3	<b>F072135757</b>	+5° wedge (3x)	3	<b>F072135757</b>			




### PAGE REFERENCES

Tiomos mounting plates	86
Accessories	96
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Tipmatic	114
Assembly technology	637
Assembly aids	654


PLANNING DIMENSIONS

All dimensions in millimetres

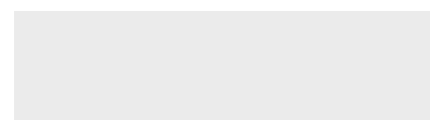
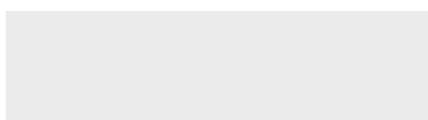
Corner applications								
-5° WEDGE overlay			-5° WEDGE inset			-10° WEDGE inset		
<b>Adapter</b>	<b>Z</b>		<b>Adapter</b>	<b>Z</b>		<b>Adapter</b>	<b>Z</b>	
Stainless steel	22.5	min. 20	Stainless steel	14	min. 20	Stainless steel	23.5	min. 25
Zamak	20		Zamak	11.5		Zamak	21	
	<b>Height</b>	<b>Art. No.</b>		<b>Height</b>	<b>Art. No.</b>		<b>Height</b>	<b>Art. No.</b>
ECO cross mounting plate	0	<b>F058139721</b>	ECO cross mounting plate	0	<b>F058139721</b>	ECO cross mounting plate	0	<b>F058139721</b>
-5° wedge	3	<b>F072135758</b>	-5° wedge	3	<b>F072135758</b>	-5° wedge (2x)	3	<b>F072135758</b>

NOTE

A trial fitting is recommended for all door thicknesses.

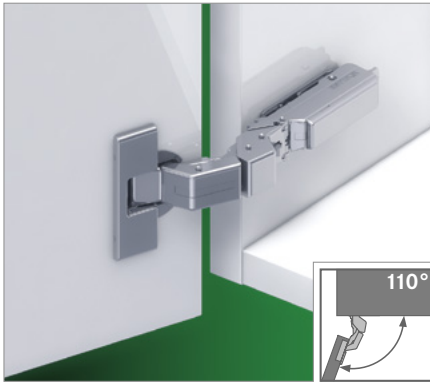
LEGEND

Z	Gluing distance
---	-----------------



# TIOMOS M9

110° hinge (door thicknesses from 12 mm)



- For door thicknesses up to 28 mm
- 35 mm full cup drill hole
- Shallow cup depth of 9 mm
- 3-dimensional adjustment with corresponding mounting plate
- For door overlays up to 25 mm
- Surfaces: Nickel or Night (especially for dark cabinet materials and woods)

**Available in four versions:**

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

**ORDER INFORMATION FOR DRILLING PATTERN 45/9.5, NICKEL**

Door overlay	Cranking	Damper		Without spring	With self-opening mechanism <sup>1</sup>	Art. No.		
		With	Without			Click-on for screw fitting		
	14	■	-	-	-	<b>F029140338</b>		
		-	■	-	-	<b>F047140339</b>		
		-	■	■	-	<b>F049140340</b>		
		-	-	-	■	<b>F049140361</b>		

Cup material: zamak, nickel-plated/Arm material: zamak, nickel-plated

<sup>1</sup> Additional Tipmatic Plus Pin required

**ORDER INFORMATION FOR DRILLING PATTERN 48/9, NIGHT**

Door overlay	Cranking	Damper		Without spring		Art. No.		
		With	Without			Click-on for screw fitting		
	14	■	-	-		<b>F029140467</b>		
		-	■	-		-		
		-	■	■		<b>F049140472</b>		

Cup material: zamak, Night/Arm material: zamak, Night

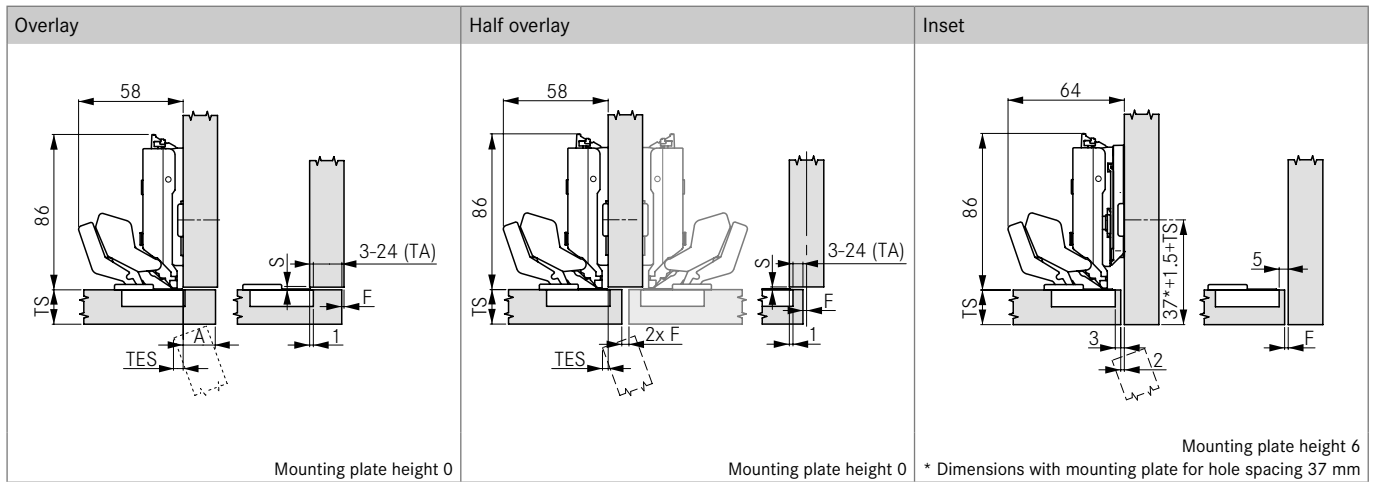
<sup>1</sup> Additional Tipmatic Plus Pin required

**PAGE REFERENCES**

Tiomos mounting plates	86	Tipmatic	114		
Accessories	96	Assembly technology	637		
Technical information	100	Assembly aids	654		

PLANNING DIMENSIONS

All dimensions in millimetres



MINIMUM GAP/MINIMUM REVEAL

Values with mounting plate height 0

Door thickness (TS)	Cup distance (TA)		Door protrusion (TES)		Door overlay (A)		Min. reveal (F)/Gap (S)		F		S		F		S		F		S		F		S		
	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		
	F	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	1	1.5	
22	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	1.5	1.7	1.5	4	1.5
24	1	1.5	1.2	1.5	1.3	1.5	1.5	1.5	1.7	1.5	2	1.5	2.4	1.3	3.3	1.5	8.3	1.5	7.7	1.5	6.9	1.5			
26	2.2	1.5	2.4	1.5	2.7	1.5	3.1	1.5	3.6	1.5	4.7 <sup>1</sup>	1.5	12 <sup>1</sup>	1.5	11.8	1.5	10.9	1.5	9.9	1.5	8.9	1.5			
28	3.9	1.5	4.3	1.5	5.1 <sup>1</sup>	1.5	6.3 <sup>1</sup>	1.5	16 <sup>1</sup>	1.5	16 <sup>1</sup>	1.5	15 <sup>1</sup>	1.5	14 <sup>1</sup>	1.5	13 <sup>1</sup>	1.5	12 <sup>1</sup>	1.5	11 <sup>1</sup>	1.5			

Door thickness (TS)	Cup distance (TA)		Door protrusion (TES)		Door overlay (A)		Min. reveal (F)/Gap (S)		F		S		F		S		F		S		F		S	
	14	15	16	17	18	19	20	21	22	23	24	15	16	17	18	19	20	21	22	23	24	25		
	F	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	2	1	2	1	2
22	4	1.5	3.5	1.5	3	1.5	2.2	1.5	1.7	1.5	1.3	1.5	1	1.5	1	1.5	1	1.5	1	2	1	2	1	2
24	6	1.5	5.2	1.5	4.5	1.5	4	1.5	3.3	1.5	3	1.5	2.5	1.5	2.1	1.5	1.9	2	1.6	2	1.5	2		
26	8	1.5	7.2	1.5	6.4	1.5	5.8	1.5	5.1	1.5	4.6	1.5	4.1	1.5	3.7	1.5	3.3	2	3	2	2.6	2		
28	10 <sup>1</sup>	1.5	9.2	1.5	8.4	1.5	7.6	1.5	6.9	1.5	6.4	1.5	5.8	1.5	5.3	1.5	4.9	2	4.5	2	4.2	2		

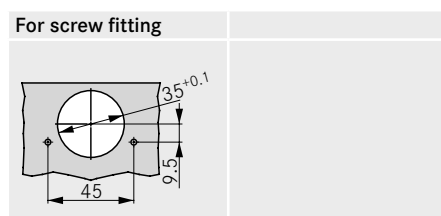
<sup>1</sup> Value can be obtained by using an 85° opening angle reduction clip.

NOTE

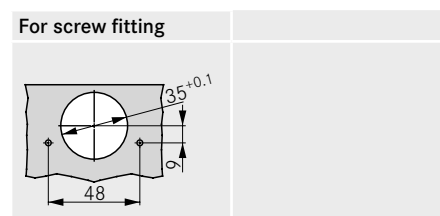
Minimum reveal for doors with chamfered edges (R = 1 mm) with factory setting.

A trial fitting is recommended for all door thicknesses.

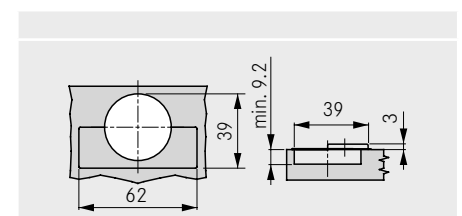
DRILLING PATTERNS 45/9.5



DRILLING PATTERNS 48/9



CUP DIMENSIONS





# TIOMOS M9

110° hinge (door thicknesses from 12 mm)

## PLANNING DIMENSIONS

All dimensions in millimetres

Mitred application – all 4 sides and side		Max. overlay	
12-24 mm			
<p>Mounting plate height 3 * Dimensions with mounting plate for hole spacing 37 mm</p>		<p>Mounting plate height 0 * Dimensions with mounting plate for hole spacing 37 mm</p>	
Door thickness (TS)		Mitre, all 4 sides	Mitre, side
		R (min.)	R (min.)
	12-17	0	0
	18	0.2	0
	19	1	0.4
	20	1.5	1
	21	2.2	1.8
22	3	2.5	
24	4.3	4.1	

## NOTE

1.4-mm reveal with mitre on all sides.

## PAGE REFERENCES

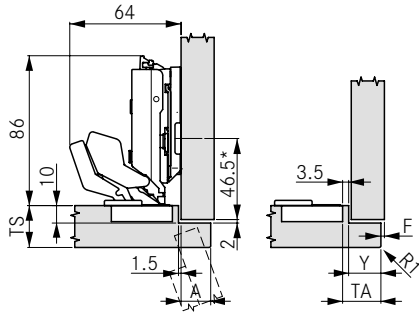
Tiomos mounting plates	86	Tipmatic	114		
Accessories	96	Assembly technology	637		
Technical information	100	Assembly aids	654		

PLANNING DIMENSIONS

All dimensions in millimetres

Rebated applications

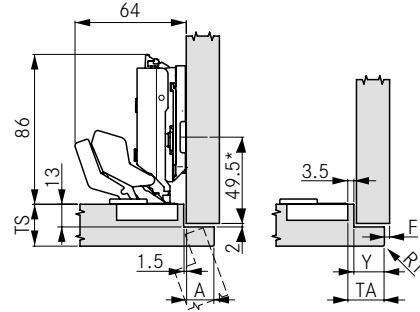
10 mm



Mounting plate height 6  
\* Dimensions with mounting plate for hole spacing 37 mm

Cabinet situation	TS (max.)	A (max.)	Y (max.)	TA (max.)	F (min.)
	20	17	18.5	22	1
	28	17	18.5	22	See reveal table
	38	17	18.5	22	

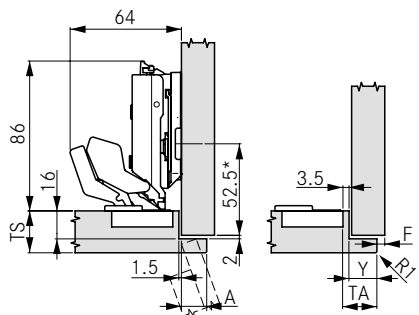
13 mm



Mounting plate height 6  
\* Dimensions with mounting plate for hole spacing 37 mm

Cabinet situation	TS (max.)	A (max.)	Y (max.)	TA (max.)	F (min.)
	20	16	17.5	21	1
	28	16	17.5	21	See reveal table
	35	14	15.5	19	

16 mm



Mounting plate height 6  
\* Dimensions with mounting plate for hole spacing 37 mm

Cabinet situation	TS (max.)	A (max.)	Y (max.)	TA (max.)	F (min.)
	20	14.5	16	19.5	1
	26	14.5	16	19.5	See reveal table
	32	12.5	14	17.5	

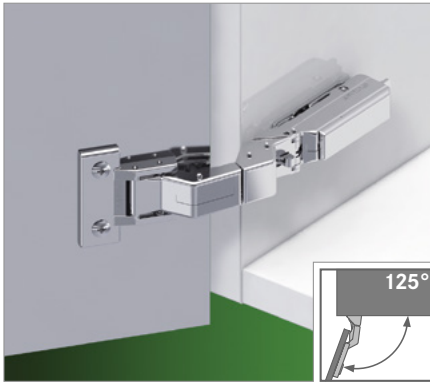
LEGEND

- A Overlay
- F Reveal
- TA Cup distance
- TS Door thickness



# TIOMOS M0

125° hinge (door thicknesses from 6 to 10 mm)



- For door thicknesses of 6–10 mm
- No cup hole necessary
- 3-dimensional adjustment
- For door overlays up to 25 mm
- Compatible with all mounting plates in the Tiomos series
- Zero protrusion up to 14 mm overlay
- 125° opening angle

**Available in three versions:**

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

## ORDER INFORMATION

Door overlay	Cranking	Damper		Without spring	Art. No.		
		With	Without		Click-on for screw fitting		
	-	■	-	-	<b>F029140331</b>		
		-	■	-	<b>F047140332</b>		
		-	■	■	<b>F049140333</b>		

Cup material: zamak, nickel-plated/Arm material: zamak, nickel-plated

## ATTACHMENT OPTIONS

	Designation	Art. No.
	Countersunk screw M4 x 8 mm	<b>F072135947</b>
	Euro screw, nickel-plated, Ø 6.3 x 10.5 mm	<b>F146073979</b>
	Set: 100 countersunk screws M4 x 8 mm, 100 sleeves M4 x 5.5 mm, 1 Allen key	<b>F072135928</b>

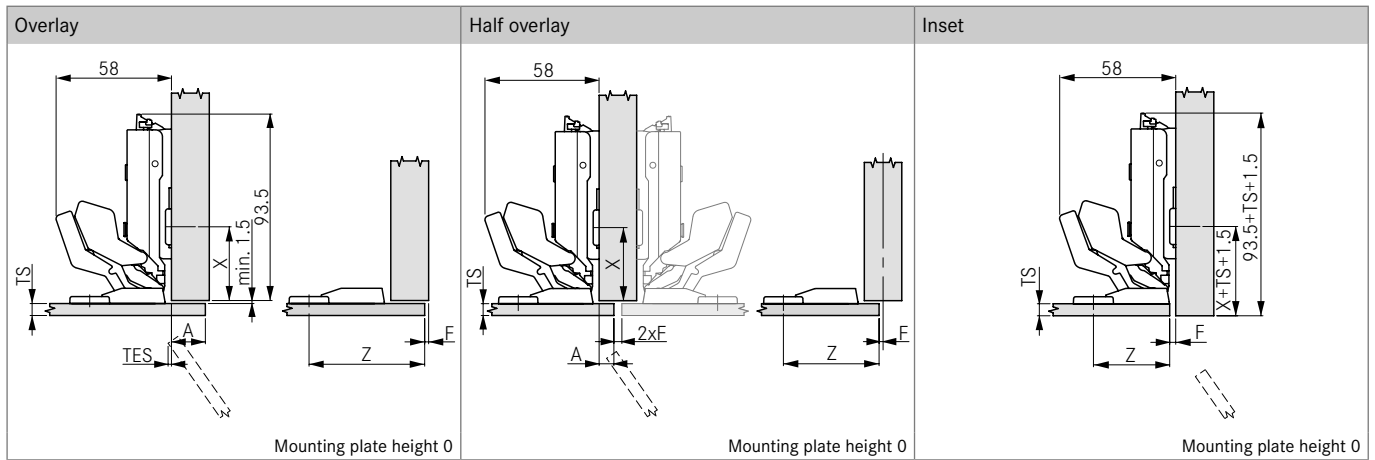
		Material thickness			
		6 mm	6.4 mm	8 mm	10 mm
Material	MDF	-	-	<b>F146073979</b>	
	Chipboard	-	-	<b>F146073979</b>	
	HPL	-	-	<b>F146073979</b>	
	Mineral composite	-	<b>F072135928</b>		
	Aluminium	<b>F072135947</b>			

## PAGE REFERENCES

Tiomos mounting plates	86	Tipmatic	114		
Accessories	96	Assembly technology	637		
Technical information	100	Assembly aids	654		

PLANNING DIMENSIONS

All dimensions in millimetres



MINIMUM GAP/MINIMUM REVEAL

Values with mounting plate height 0

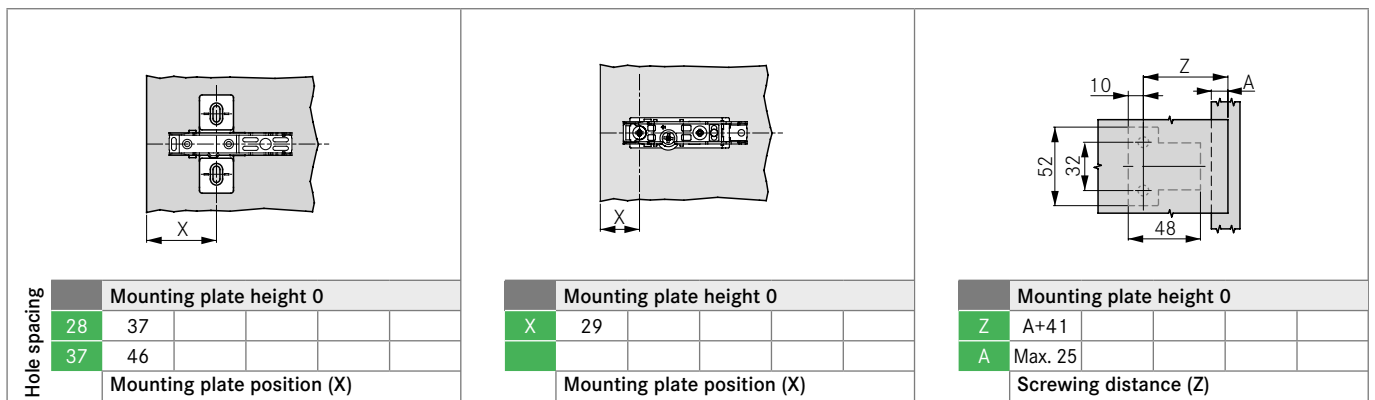
Screwing distance (Z)	38	39	47	49	51	53	55	56	58	60	61	63	64	66						
Door protrusion (TES)	0	0	0	0	0	0	0	0.5	1.5	3	3.4	0	0	0						
Door overlay (A)	-3	-2	6	8	10	12	14	15	17	19	20	22 <sup>1</sup>	23 <sup>1</sup>	25 <sup>1</sup>						
Min. reveal (F)/Gap (S)	F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S		
Door 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	2	2.5	2	3	2	4

<sup>1</sup> Door overlay A = 22–25 only with angle reduction.

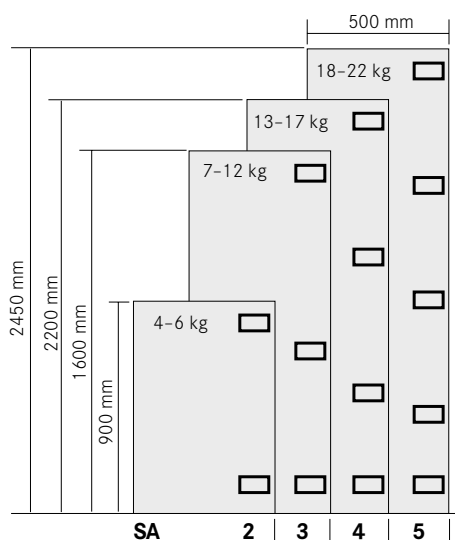
CROSS MOUNTING PLATE

LINEAR MOUNTING PLATE

SCREW-ON POSITION



NUMBER OF HINGES



NOTES

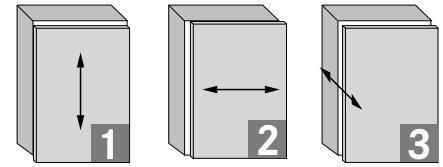
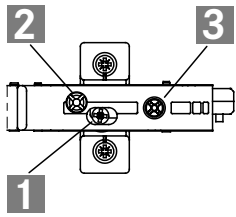
An inset application is achieved through the mounting plate position (X) and a reduced screwing distance (Z).

- ① **Installation advice for countersunk head screw M4 x 8 mm:**
  1. Drill hole with  $\varnothing$  3.3 mm
  2. Cut thread to  $\varnothing$  4 mm
  3. Fit the hinge and fix with the screws
- ① **Installation advice for countersunk head screw M4 x 8 mm with sleeve M4 x 5.5 mm:**
  1. Drill hole with  $\varnothing$  5 mm
  2. Drilling depth: 6 mm
  3. Slightly countersink the edge of the hole
  4. Insert the sleeve
  5. Knock in the sleeve using a hammer
  6. Fit the hinge and fix with the screws

- ① **Installation advice for Euro cheese head  $\varnothing$  6.3 x 10.5 mm:**
  1. Drill hole with  $\varnothing$  5 mm
  2. Fit the hinge and fix with the screws
- ① **Installation advice:** The pull-out resistance can vary based on the type and thickness of the door material, despite using the same fixing method. Please contact your door material supplier regarding the selection and installation of the door material.
- ① **Liability claims:** Please note that GRASS does not assume any liability for damages arising from the use of unsuitable fastening materials or fixing methods.

# TIOMOS

## Mounting plates



(HV) Height adjustment  
+/- 2 mm

(SV) Side adjustment  
+/- 2 mm

(TV) Depth adjustment  
+3/-2 mm

All adjustments can be carried out independently of each other.

### ORDER INFORMATION

#### 1D CROSS MOUNTING PLATE, 4-POINT FIXING

For screw fitting	37/32	Height	Colour	Art. No.
<ul style="list-style-type: none"> <li>Steel, nickel-plated/Night</li> <li>Fixing with wood screws <math>\varnothing</math> 3.5 x 15 mm</li> <li>With convenient height adjustment (HV) via worm screw</li> </ul>		0	Nickel	<b>F058139746</b>
			Night	<b>F058149629</b>
		2	Nickel	<b>F058139747</b>
			Night	<b>F058149630</b>
		3	Nickel	<b>F058139748</b>
			Night	<b>F058149631</b>

#### 1D CROSS MOUNTING PLATE, 4-POINT FIXING

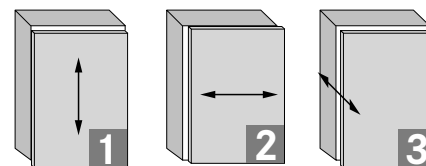
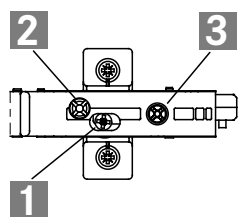
For Euro screws	37/32	Height	Art. No.
<ul style="list-style-type: none"> <li>Steel, nickel-plated</li> <li>Fixing with Euro screws <math>\varnothing</math> 6.3 mm</li> <li>With convenient height adjustment (HV) via worm screw</li> </ul>		0	<b>F058139756</b>
		2	<b>F058139757</b>
		3	<b>F058139758</b>

#### 1D CROSS MOUNTING PLATE, 4-POINT FIXING

With pre-assembled Euro screws (13.5 mm)	37/32	Height	Colour	Art. No.
<ul style="list-style-type: none"> <li>Steel, nickel-plated/Night</li> <li>Fixing with pre-assembled Euro screws <math>\varnothing</math> 6.3 x 13.5 mm</li> <li>With convenient height adjustment (HV) via worm screw</li> </ul>		0	Nickel	<b>F058139761</b>
			Night	<b>F058140386</b>
		2	Nickel	<b>F058139762</b>
			Night	<b>F058140933</b>
		3	Nickel	<b>F058139763</b>
			Night	<b>F058149632</b>

#### 1D CROSS MOUNTING PLATE, 4-POINT FIXING, FOR TWIN APPLICATION

With pre-assembled Euro screws (10 mm)	37/32	Height	Art. No.
<ul style="list-style-type: none"> <li>Steel, nickel-plated</li> <li>Fixing with pre-assembled Euro screws <math>\varnothing</math> 6.3 x 10 mm</li> <li>With convenient height adjustment (HV) via worm screw</li> <li>Suitable for twin application</li> </ul>		0	<b>F058139863</b>
		2	<b>F058139864</b>
		3	<b>F058139865</b>



(HV) Height adjustment  
+/- 2 mm

(SV) Side adjustment  
+/- 2 mm

(TV) Depth adjustment  
+3/-2 mm

All adjustments can be carried out independently of each other.

## ORDER INFORMATION

### 1D CROSS MOUNTING PLATE, 4-POINT FIXING

For press fitting	37/32	Height	Art. No.
<ul style="list-style-type: none"> <li>Steel, nickel-plated</li> <li>Fixing with <math>\varnothing</math> 10 mm dowels</li> <li>With convenient height adjustment (HV) via worm screw</li> <li><b>Do not strike the mounting plate with a hammer</b></li> </ul>		0	<b>F058139751</b>
		2	<b>F058139752</b>
		3	<b>F058139753</b>

### 1D CROSS MOUNTING PLATE QUICK, 4-POINT FIXING

Mounting plate (expansion dowel 11 mm)	37/32	Height	Art. No.
<ul style="list-style-type: none"> <li>Steel, nickel-plated</li> <li>Fixing with <math>\varnothing</math> 5 mm dowels</li> <li>With convenient height adjustment (HV) via worm screw</li> <li><b>Do not strike the mounting plate with a hammer!</b></li> </ul>		0	<b>F058139766</b>
		2	<b>F058139767</b>
		3	<b>F058139768</b>

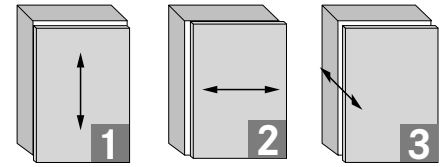
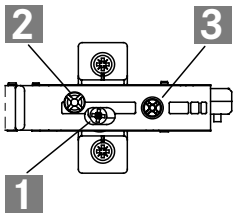
### 1D CROSS MOUNTING PLATE QUICK, 4-POINT FIXING, FOR TWIN APPLICATION

Twin mounting plate (expansion dowel 7.5 mm)	37/32	Height	Art. No.
<ul style="list-style-type: none"> <li>Steel, nickel-plated</li> <li>Fixing with <math>\varnothing</math> 5 mm dowels</li> <li>With convenient height adjustment (HV) via worm screw</li> <li>Suitable for twin application</li> <li><b>Do not strike the mounting plate with a hammer!</b></li> </ul>		0	<b>F058139931</b>
		2	<b>F058139932</b>
		3	<b>F058139933</b>



# TIOMOS

## Mounting plates



(HV) Height adjustment  
+/- 2 mm

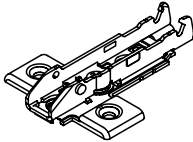
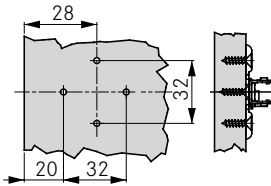
(SV) Side adjustment  
+/- 2 mm

(TV) Depth adjustment  
+3/-2 mm

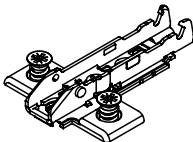
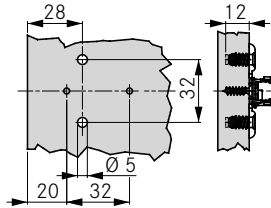
All adjustments can be carried out independently of each other.

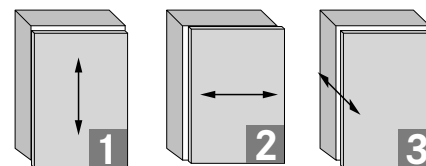
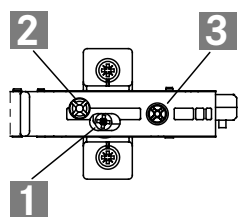
### ORDER INFORMATION

#### 1D CROSS MOUNTING PLATE, 4-POINT FIXING

For screw fitting	28/32	Height	Art. No.
<ul style="list-style-type: none"> <li>Steel, nickel-plated</li> <li>Fixing with wood screws <math>\varnothing 3.5 \times 15</math> mm</li> <li>With convenient height adjustment (HV) via worm screw</li> </ul> 		0	<b>F058139796</b>
		2	<b>F058139797</b>

#### 1D CROSS MOUNTING PLATE, 4-POINT FIXING

With pre-assembled Euro screws (13.5 mm)	28/32	Height	Art. No.
<ul style="list-style-type: none"> <li>Steel, nickel-plated</li> <li>Fixing with pre-assembled Euro screws <math>\varnothing 6.3 \times 13.5</math> mm</li> <li>With convenient height adjustment (HV) via worm screw</li> </ul> 		0	<b>F058139811</b>
		2	<b>F058139812</b>
		3	<b>F058139813</b>



(HV) Height adjustment  
+/- 2 mm

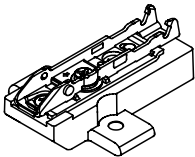
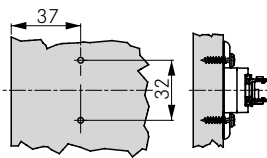
(SV) Side adjustment  
+/- 2 mm

(TV) Depth adjustment  
+3/-2 mm

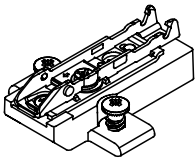
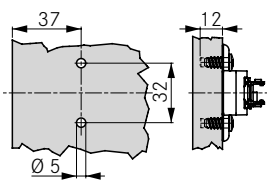
All adjustments can be carried out independently of each other.

## ORDER INFORMATION

### 1D CROSS MOUNTING PLATE, 2-POINT FIXING, FOR SCREW FITTING

For screw fitting	37/32	Height	Art. No.
<ul style="list-style-type: none"> <li>Zamak/steel, nickel-plated</li> <li>Fixing with wood screws <math>\varnothing</math> 3.5 x 15 mm</li> <li>With convenient height adjustment (HV) via worm screw</li> </ul> 		6	<b>F058139892</b>
		8	<b>F058139886</b>
		9	<b>F058139887</b>
		9.5	<b>F058139888</b>
		12	<b>F058139893</b>
		14	<b>F058139889</b>
		15	<b>F058139890</b>
		15.5	<b>F058139891</b>
		19	<b>F058139894</b>
21	<b>F058139895</b>		

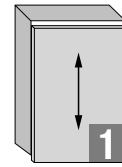
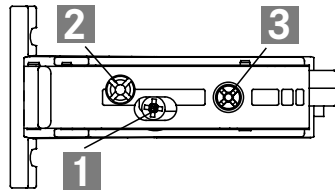
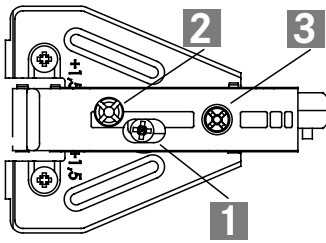
### 1D CROSS MOUNTING PLATE, 2-POINT FIXING

With pre-assembled Euro screws (13.5 mm)	37/32	Height	Art. No.
<ul style="list-style-type: none"> <li>Zamak/steel, nickel-plated</li> <li>Fixing with pre-assembled Euro screws <math>\varnothing</math> 6.3 x 13.5 mm</li> <li>With convenient height adjustment (HV) via worm screw</li> </ul> 		6	<b>F058139873</b>
		8	<b>F058139880</b>
		9	<b>F058139881</b>
		9.5	<b>F058139882</b>
		12	<b>F058139874</b>
		15.5	<b>F058139885</b>
		19	<b>F058139875</b>
		21	<b>F058139896</b>

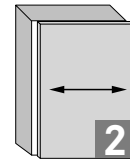


# TIOMOS

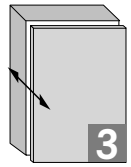
## Mounting plates



(HV) Height adjustment  
+/- 2 mm



(SV) Side adjustment  
+/- 2 mm

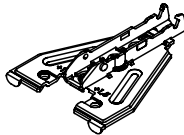
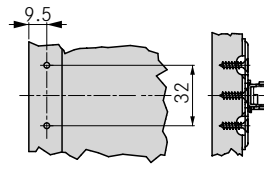


(TV) Depth adjustment  
+3/-2 mm

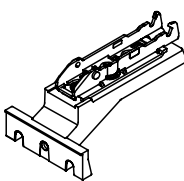
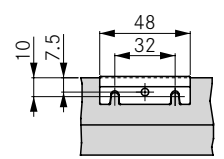
All adjustments can be carried out independently of each other.

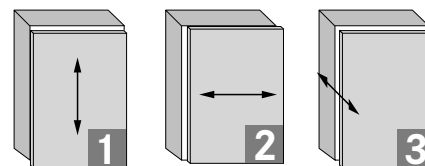
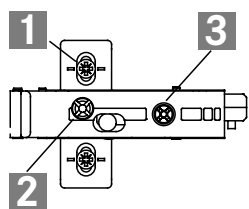
### ORDER INFORMATION

#### 1D DELTA MOUNTING PLATE FOR FRAME CONSTRUCTIONS, 4-POINT FIXING

For screw fitting	9.5/32	Height	Art. No.
<ul style="list-style-type: none"> <li>Steel, nickel-plated</li> <li>Fixing with wood screws Ø 3.5 x 15 mm</li> <li>With convenient height adjustment (HV) via worm screw</li> </ul> 		1.5	<b>F058139825</b>
		3.5	<b>F058139826</b>
		4.5	<b>F058139827</b>

#### INSET BEADED MOUNTING PLATE FOR FRAME CONSTRUCTIONS, 3-POINT FIXING

For screw fitting	10/32	Height	Art. No.																																																
<ul style="list-style-type: none"> <li>For inset doors</li> <li>For use with hinges with cranking 9.5</li> <li>Steel/zamak, nickel-plated</li> <li>Fixing with pan head wood screws</li> <li>With convenient height adjustment (HV) via worm screw</li> </ul> 		0	<b>F058139831</b>																																																
				<table border="1"> <thead> <tr> <th rowspan="8">Door thickness (TS)</th> <th colspan="4">Cup distance (TA)</th> </tr> <tr> <th>3</th> <th>4</th> <th>5</th> <th>6</th> </tr> </thead> <tbody> <tr> <td>28.0</td> <td>4.0</td> <td></td> <td></td> </tr> <tr> <td>26.0</td> <td>4.0</td> <td>3.0</td> <td></td> </tr> <tr> <td>24.0</td> <td>4.0</td> <td>3.0</td> <td>2.0</td> </tr> <tr> <td>22.0</td> <td>4.0</td> <td>3.0</td> <td>2.0</td> </tr> <tr> <td>20.0</td> <td>4.0</td> <td>3.0</td> <td>2.0</td> <td>1.0</td> </tr> <tr> <td>19.0</td> <td>4.0</td> <td>3.0</td> <td>2.0</td> <td>1.0</td> </tr> <tr> <td>18.0</td> <td>4.0</td> <td>3.0</td> <td>2.0</td> <td>1.0</td> </tr> <tr> <td>16.0</td> <td>4.0</td> <td>3.0</td> <td>2.0</td> <td>1.0</td> </tr> <tr> <td colspan="5">Minimum reveal (F)</td> </tr> </tbody> </table>	Door thickness (TS)	Cup distance (TA)				3	4	5	6	28.0	4.0			26.0	4.0	3.0		24.0	4.0	3.0	2.0	22.0	4.0	3.0	2.0	20.0	4.0	3.0	2.0	1.0	19.0	4.0	3.0	2.0	1.0	18.0	4.0	3.0	2.0	1.0	16.0	4.0	3.0	2.0	1.0	Minimum reveal (F)	
Door thickness (TS)	Cup distance (TA)																																																		
	3	4	5	6																																															
	28.0	4.0																																																	
	26.0	4.0	3.0																																																
	24.0	4.0	3.0	2.0																																															
	22.0	4.0	3.0	2.0																																															
	20.0	4.0	3.0	2.0		1.0																																													
	19.0	4.0	3.0	2.0	1.0																																														
18.0	4.0	3.0	2.0	1.0																																															
16.0	4.0	3.0	2.0	1.0																																															
Minimum reveal (F)																																																			



(HV) Height adjustment  
+/- 2.5 mm

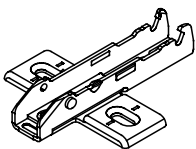
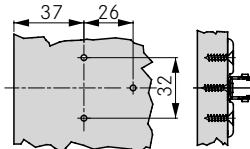
(SV) Side adjustment  
+/- 2 mm

(TV) Depth adjustment  
+3/-2 mm

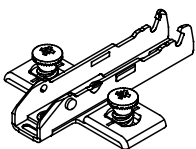
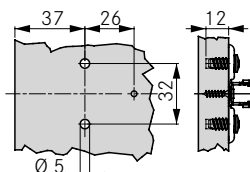
All adjustments can be carried out independently of each other.

## ORDER INFORMATION

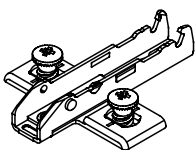
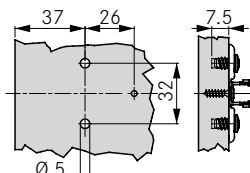
### ECO CROSS MOUNTING PLATE, 3-POINT FIXING

For screw fitting	37/32	Height	Art. No.
<ul style="list-style-type: none"> <li>Steel, nickel-plated</li> <li>Fixing with wood screws <math>\varnothing 3.5 \times 15</math> mm</li> <li>Height adjustment (HV) by means of slot</li> </ul> 		-2	<b>F058139720</b>
		0	<b>F058139721</b>
		2	<b>F058139722</b>
		3	<b>F058139723</b>

### ECO CROSS MOUNTING PLATE, 3-POINT FIXING

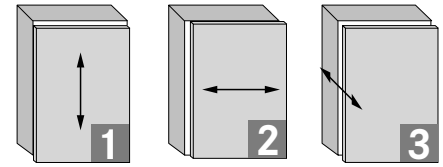
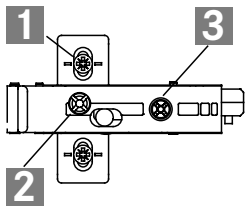
With pre-assembled pan head Euro screws (13.5 mm)	37/32	Height	Art. No.
<ul style="list-style-type: none"> <li>Steel, nickel-plated</li> <li>Fixing with pre-assembled pan head Euro screws <math>\varnothing 6.3 \times 13.5</math> mm</li> <li>Height adjustment (HV) by means of slot</li> </ul> 		-2	<b>F058139735</b>
		0	<b>F058139736</b>
		2	<b>F058139737</b>
		3	<b>F058139738</b>

### ECO CROSS MOUNTING PLATE, 3-POINT FIXING, FOR TWIN APPLICATION

With pre-assembled pan head Euro screws (10.5 mm)	37/32	Height	Art. No.
<ul style="list-style-type: none"> <li>Steel, nickel-plated</li> <li>Fixing with pre-assembled pan head Euro screws <math>\varnothing 6.3 \times 10.5</math> mm</li> <li>Height adjustment (HV) by means of slot</li> <li>For twin application</li> </ul> 		-2	<b>F058139857</b>
		0	<b>F058139858</b>
		2	<b>F058139859</b>
		3	<b>F058139860</b>

# TIOMOS

## Mounting plates



(HV) Height adjustment  
+/- 2.5 mm

(SV) Side adjustment  
+/- 2 mm

(TV) Depth adjustment  
+3/-2 mm

All adjustments can be carried out independently of each other.

### ORDER INFORMATION

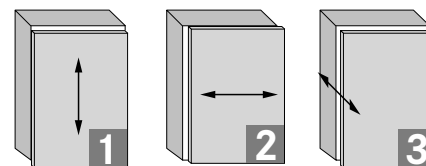
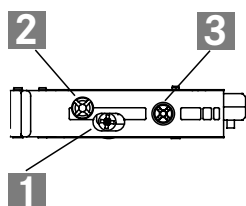
#### ECO CROSS MOUNTING PLATE, 3-POINT FIXING

With pre-assembled pan head Euro screws (13.5 mm)		28/32	Height	Art. No.
<ul style="list-style-type: none"> <li>Steel, nickel-plated</li> <li>Fixing with pre-assembled pan head Euro screws <math>\varnothing 6.3 \times 13.5</math> mm</li> <li>Height adjustment (HV) by means of slot</li> </ul>			-2	<b>F058139785</b>
			0	<b>F058139786</b>
			2	<b>F058139787</b>
			3	<b>F058139788</b>

#### ECO CROSS MOUNTING PLATE QUICK, 3-POINT FIXING

Mounting plate (expansion dowel 11 mm)		37/32	Height	Art. No.
<ul style="list-style-type: none"> <li>Steel, nickel-plated</li> <li>Fixing with <math>\varnothing 5</math> mm dowels</li> <li>Height adjustment (HV) by means of slot</li> <li><b>Do not strike the mounting plate with a hammer!</b></li> </ul>			0	<b>F058139741</b>
			2	<b>F058139742</b>
			3	<b>F058139743</b>

Twin mounting plate (expansion dowel 7.5 mm)		37/32	Height	Art. No.
<ul style="list-style-type: none"> <li>Steel, nickel-plated</li> <li>Fixing with <math>\varnothing 5</math> mm dowels</li> <li>Height adjustment (HV) by means of slot</li> <li>Suitable for twin application</li> <li><b>Do not strike the mounting plate with a hammer!</b></li> </ul>			3	<b>F058139929</b>



(HV) Height adjustment  
+/- 2 mm

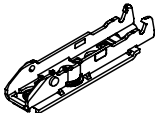
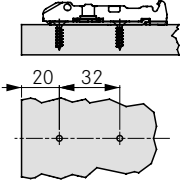
(SV) Side adjustment  
+/- 2 mm

(TV) Depth adjustment  
+3/-2 mm

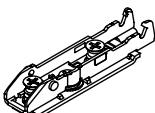
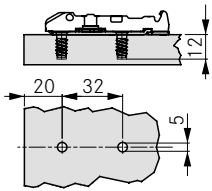
All adjustments can be carried out independently of each other.

## ORDER INFORMATION

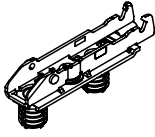
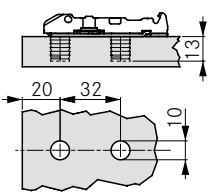
### 1D LINEAR MOUNTING PLATE, 2-POINT FIXING

For screw fitting	20/32	Height	Colour	Art. No.
<ul style="list-style-type: none"> <li>Steel, nickel-plated/Night</li> <li>Fixing with wood screws Ø 3.5 x 15 mm or with Euro screws Ø 6.3 x 13.5 mm</li> <li>With convenient height adjustment (HV) via worm screw</li> </ul> 		0	Nickel	<b>F059139701</b>
			Night	<b>F059139977</b>
		2	Nickel	<b>F059139702</b>
			Night	<b>F059139978</b>
		3	Nickel	<b>F059139703</b>
			Night	<b>F059139979</b>

### 1D LINEAR MOUNTING PLATE, 2-POINT FIXING

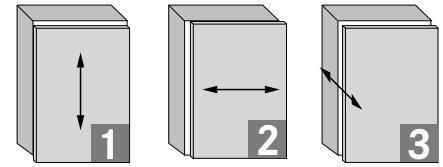
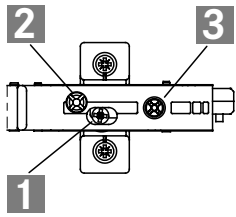
With pre-assembled Euro screws (13.5 mm)	20/32	Height	Art. No.
<ul style="list-style-type: none"> <li>Steel, nickel-plated</li> <li>Fixing with pre-assembled Euro screws Ø 6.3 x 13.5 mm</li> <li>With convenient height adjustment (HV) via worm screw</li> <li><b>Do not strike the mounting plate with a hammer</b></li> </ul> 		0	<b>F059139711</b>
		2	<b>F059139712</b>
		3	<b>F059139713</b>

### 1D LINEAR MOUNTING PLATE, 2-POINT FIXING

For press fitting	20/32	Height	Colour	Art. No.
<ul style="list-style-type: none"> <li>Steel, nickel-plated/Night</li> <li>Fixing with Ø 10 mm dowels</li> <li>With convenient height adjustment (HV) via worm screw</li> <li><b>Do not strike the mounting plate with a hammer</b></li> </ul> 		0	Nickel	<b>F059139706</b>
			Night	<b>F059139980</b>
		2	Nickel	<b>F059139707</b>
			Night	<b>F059149634</b>
		3	Nickel	<b>F059139708</b>

# TIOMOS

## Mounting plates



(HV) Height adjustment  
+/- 2 mm

(SV) Side adjustment  
+/- 2 mm

(TV) Depth adjustment  
+3/-2 mm

All adjustments can be carried out independently of each other.

### ORDER INFORMATION

#### CROSS MOUNTING PLATE FOR 20° ANGLED, 2-POINT FIXING

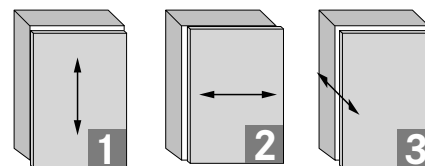
For screw fitting	X/32	Height	Art. No.
<ul style="list-style-type: none"> <li>For 20° angled applications</li> <li>Zamak/steel, nickel-plated</li> <li>Fixing with wood screws Ø 3.5 x 15 mm</li> <li>With convenient height adjustment (HV) via worm screw</li> </ul>		0	<b>F058139902</b>
		2	<b>F058139903</b>
		3	<b>F058139904</b>

#### CROSS MOUNTING PLATE FOR 20° ANGLED, 2-POINT FIXING

With pre-assembled Euro screws (13.5 mm)	X/32	Height	Art. No.
<ul style="list-style-type: none"> <li>For 20° angled applications</li> <li>Zamak/steel, nickel-plated</li> <li>Fixing with pre-assembled Euro screws Ø 6.3 x 13.5 mm</li> <li>With convenient height adjustment (HV) via worm screw</li> </ul>		2	<b>F058139907</b>

#### APPLICATION EXAMPLES FOR 20° ANGLED APPLICATIONS

Overlay application	Half overlay application	Corner application	Mitred application
Tiomos 110/Cracking 3 20° cross mounting plate height 2	Tiomos 110/Cracking 3 20° cross mounting plate height 3.5	Tiomos 110/Cracking 19 20° cross mounting plate height 0	Tiomos 110/Cracking 9.5 20° cross mounting plate height 3.5



(HV) Height  
adjustment  
+/- 2 mm

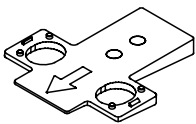
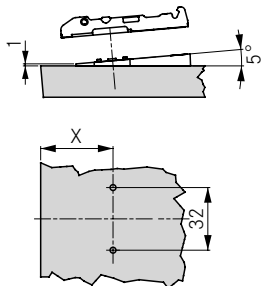
(SV) Side  
adjustment  
+/- 2 mm

(TV) Depth  
adjustment  
+3/-2 mm

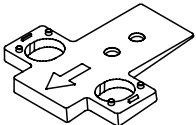
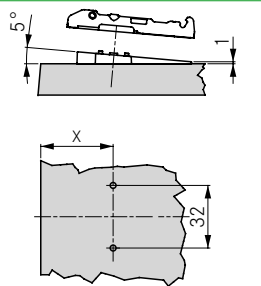
All adjustments can be carried out independently  
of each other.

## ORDER INFORMATION

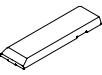

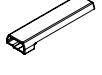
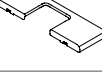
### +5° WEDGE

For screw fitting	37/32	Art. No.
<ul style="list-style-type: none"> <li>• Zamak, nickel-plated</li> <li>• For supporting cross mounting plates</li> <li>• Max. 3-way stacking (trial fitting recommended)</li> </ul> 		<p><b>F072135757</b></p>




### -5° WEDGE

For screw fitting	37/32	Art. No.
<ul style="list-style-type: none"> <li>• Zamak, nickel-plated</li> <li>• For supporting cross mounting plates</li> <li>• Max. 3-way stacking (trial fitting recommended)</li> </ul> 		<p><b>F072135758</b></p>


## COVER CAPS

	Designation	Cranking	Imprinted/Embossed	Art. No.
	Hinge arm cover cap, steel, nickel-plated, not imprinted	0/3/9.5/19	On request	<b>F072135500</b>
	Hinge arm cover cap, steel, Night, not imprinted			<b>F072140519</b>
	Hinge arm cover cap, left, steel, nickel-plated, GRASS embossed	0/3/9.5/19	GRASS logo	<b>F072135550</b>
	Hinge arm cover cap, right, steel, nickel-plated, GRASS embossed			<b>F072135551</b>
	Premium hinge arm cover cap with clip-off protection, plastic, black, not imprinted	0/3/9.5/19	On request	<b>F072140504</b>
	Hinge cup cover cap, steel, nickel-plated, not imprinted	-	On request	<b>F072135503</b>
	Hinge cup cover cap, steel, Night, not imprinted			<b>F072140520</b>


## OPENING ANGLE REDUCTION CLIPS

	Designation			Art. No.
	85° opening angle reduction clip Can be used for all Tiomos 110°/120° standard hinges as well as blind corner hinges. Prevents the door from hitting fronts or walls when fitted at corners. Simple, tool-free assembly. Steel, not nickel-plated			<b>F072135751</b>
	85° opening angle reduction clip Can be used for all Tiomos Mirro, M9 und M0 hinges. Prevents the door from hitting fronts or walls when fitted at corners. Simple, tool-free assembly. Plastic, black			<b>F072135871</b>
	120° opening angle reduction clip Can be used for all Tiomos 155° wide-angle hinges. Prevents the door from hitting fronts or walls when fitted at corners. Simple, tool-free assembly. Plastic, black			<b>F072135753</b>


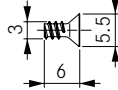

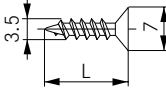

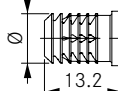
## UNCLIPPING PROTECTOR

	Designation			Artikel-Nr.
	Can be used for all Tiomos standard hinges. Prevents the hinge from being unintentionally unclipped from the mounting plate. Simple, tool-free assembly.			<b>F072135807</b>

## SPACER RING

	Designation	Height		Art. No.
	Enables the use of standard hinges on thin doors, easy assembly, 2-way stacking, suitable for all Tiomos hinges	1.5		<b>F072135885</b>

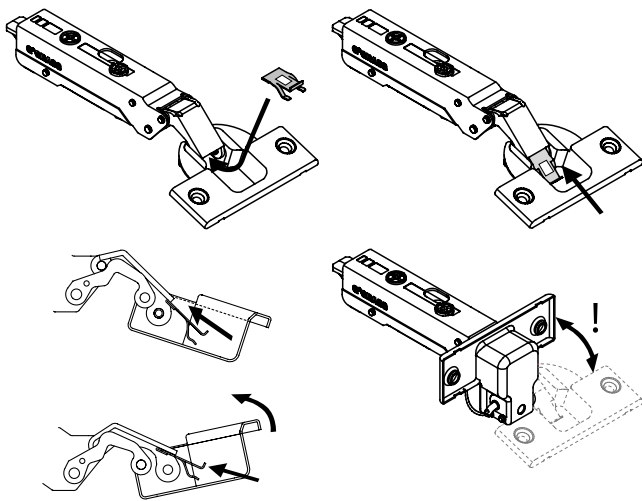
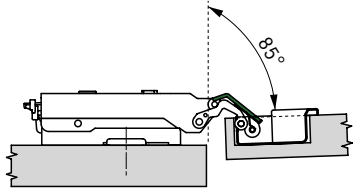
## FIXING SCREWS, DOWELS

	Designation			Art. No.
	Steel housing fixing screw for aluminium frame hinge, nickel-plated, M3 x 6 mm	L = 6		<b>F069073405</b>
	Countersunk head wood screw, Night, Ø 3.5 mm	L = 15		<b>F072135961</b>
	Dowel for hinge cup, plastic PA 6.6, L = 13.2 mm (not compatible with 160° wide-angle hinge)	Ø = 8		<b>F072135773</b>
		Ø = 10		<b>F072135798</b>

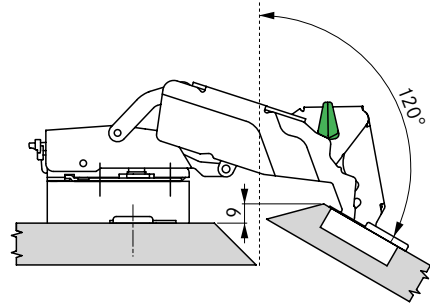
INSTALLATION INSTRUCTIONS

All dimensions in millimetres

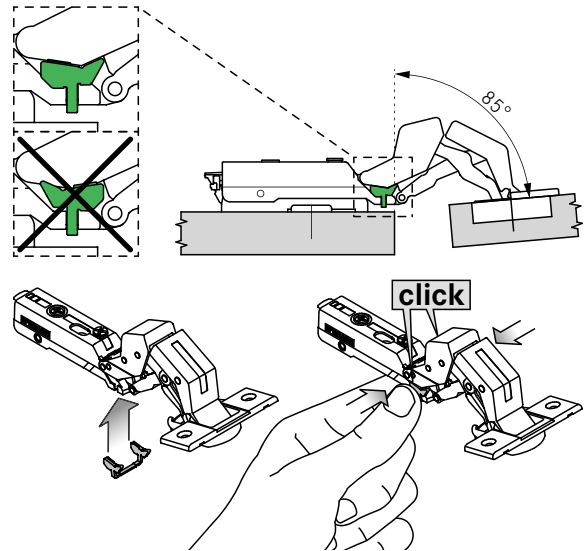
85° opening angle reduction clip



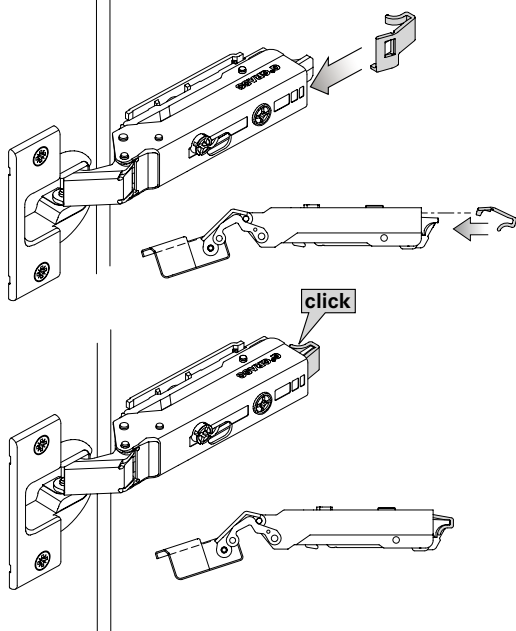
120° opening angle reduction clip



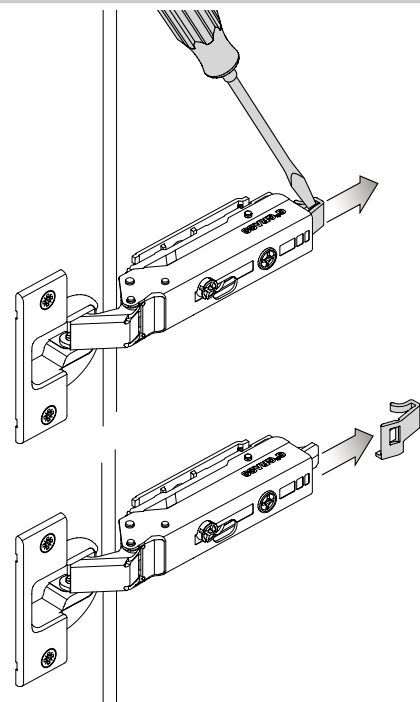
85° opening angle reduction clip for Tiomos M9 and Mirro



Installation of clip-off protection



Removal of clip-off protection



1

2

3

4

5

6

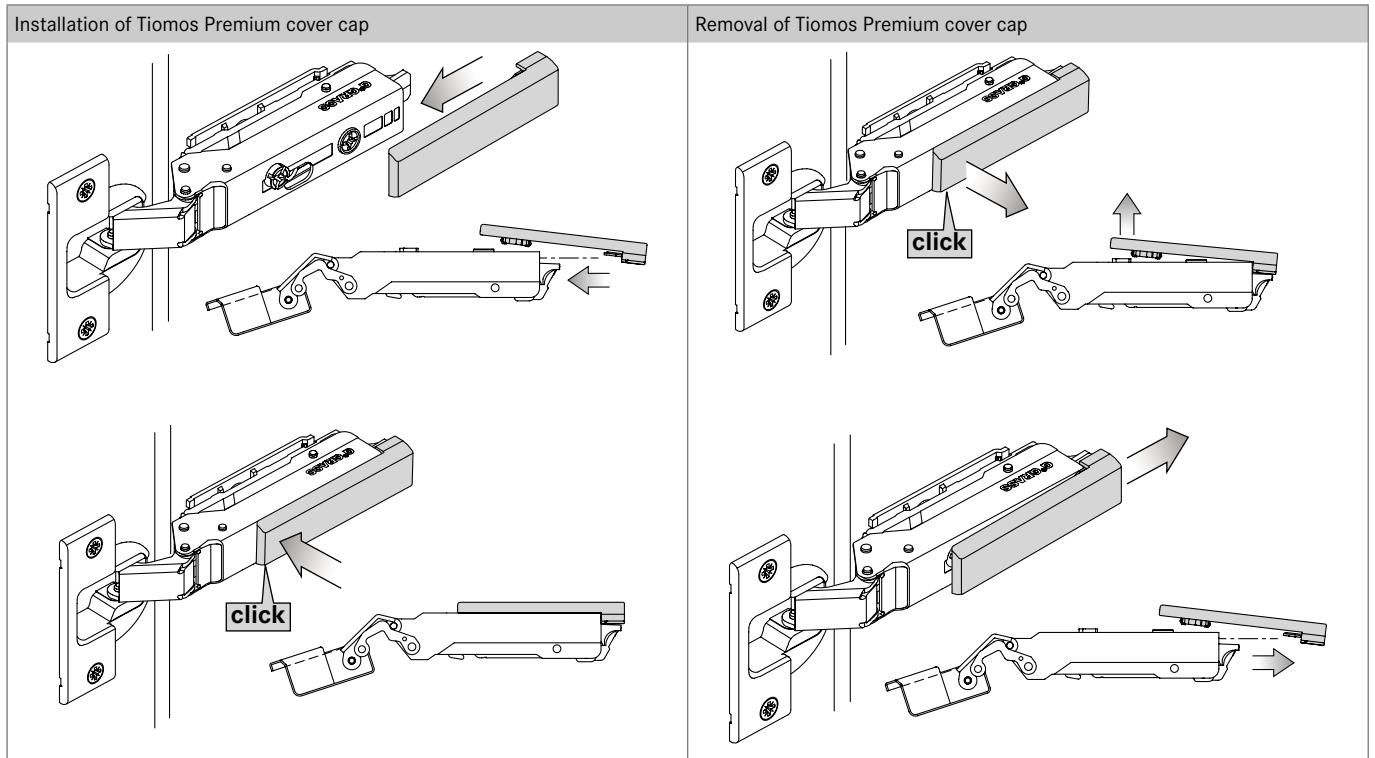
7

8



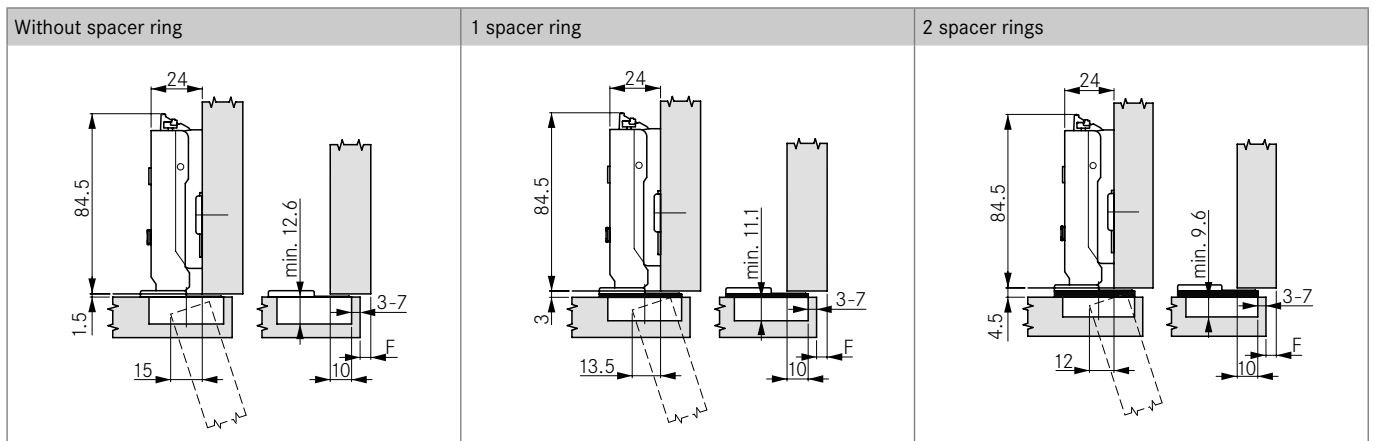
## INSTALLATION INSTRUCTIONS

All dimensions in millimetres



## PLANNING DIMENSIONS

All dimensions in millimetres



1

2

3

4

5

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7

8

### NUMBER OF HINGES PER DOOR

#### Description

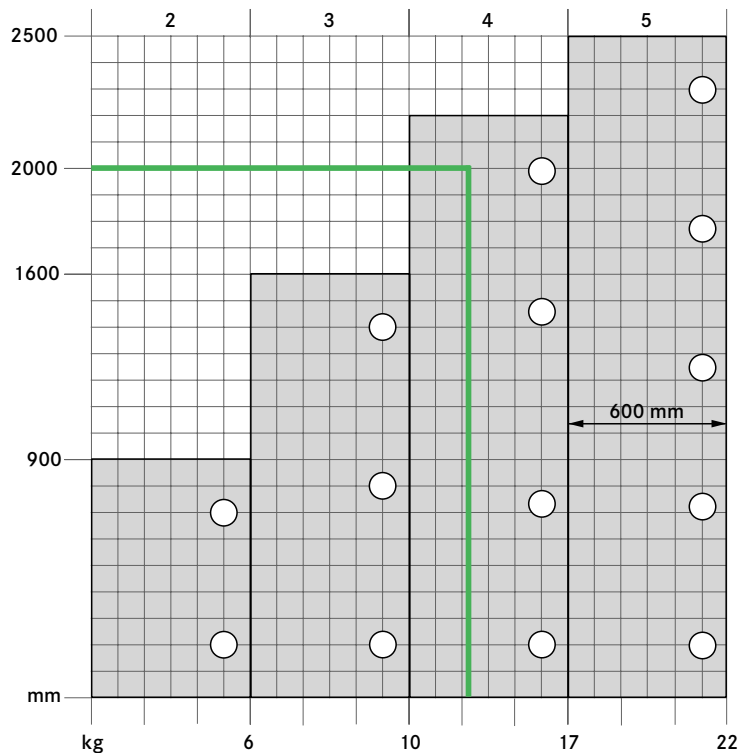
The decisive factors for the number of hinges are the door height, door weight, material quality and cup and mounting plate fixing.

The load and height values are for standard door widths of 600 mm. In case of doubt, the number of hinges must be determined by means of a trial fitting.

For example:

For a door with dimensions 2000 x 600 mm and a weight of 13 kg, it is recommended to use 4 hinges.

The table refers to hinges with and without integrated damper.



### NUMBER OF HINGES DEPENDING ON SIZE, WEIGHT AND MATERIAL

#### Chipboard, raw

Thickness	kg/m <sup>3</sup>	kg/m <sup>2</sup>	600 x 700	600 x 900	600 x 1000	600 x 1200	600 x 1400	600 x 1600	600 x 1800	600 x 2000	600 x 2200	600 x 2500
16	675	10.80	4.54	5.83	6.48	7.78	9.07	10.37	11.66	12.96	14.26	16.20
19	675	12.83	5.39	6.93	7.70	9.23	10.77	12.31	13.85	15.39	16.93	19.24
22	650	14.30	6.01	7.72	8.58	10.30	12.01	13.73	15.44	17.16	18.88	21.45

#### Plastic-coated chipboard, raw

Thickness	kg/m <sup>3</sup>	kg/m <sup>2</sup>	600 x 700	600 x 900	600 x 1000	600 x 1200	600 x 1400	600 x 1600	600 x 1800	600 x 2000	600 x 2200	600 x 2500
16	730	11.68	4.91	6.31	7.01	8.41	9.81	11.21	12.61	14.02	15.42	17.52
19	730	13.87	5.83	7.49	8.32	9.99	11.65	13.32	14.98	16.64	18.31	20.81
22	710	15.62	6.56	8.43	9.37	11.25	13.12	15.00	16.87	18.74	20.62	23.43

#### Medium-density fibreboard (MDF)

Thickness	kg/m <sup>3</sup>	kg/m <sup>2</sup>	600 x 700	600 x 900	600 x 1000	600 x 1200	600 x 1400	600 x 1600	600 x 1800	600 x 2000	600 x 2200	600 x 2500
16	740	11.84	4.97	6.39	7.10	8.52	9.95	11.37	12.79	14.21	15.63	17.76
19	740	14.06	5.91	7.59	8.44	10.12	11.81	13.50	15.18	16.87	18.56	21.09
22	710	15.62	6.56	8.43	9.37	11.25	13.12	15.00	16.87	18.74	20.62	23.43

#### Oak, solid wood

Thickness	kg/m <sup>3</sup>	kg/m <sup>2</sup>	600 x 700	600 x 900	600 x 1000	600 x 1200	600 x 1400	600 x 1600	600 x 1800	600 x 2000	600 x 2200	600 x 2500
16	870	13.92	5.85	7.52	8.35	10.02	11.69	13.36	15.03	16.70	18.37	20.88
19	870	16.53	6.94	8.93	9.92	11.90	13.89	15.87	17.85	19.84	21.82	24.80
22	870	19.14	8.04	10.34	11.48	13.78	16.08	18.37	20.67	22.97	25.26	28.71

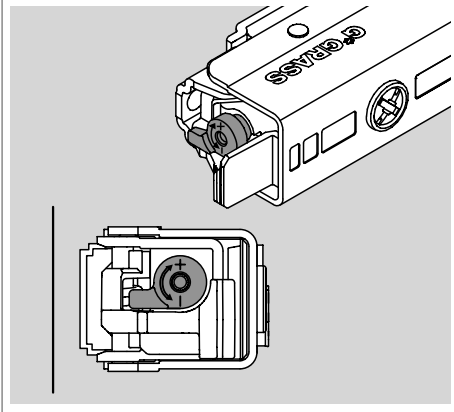
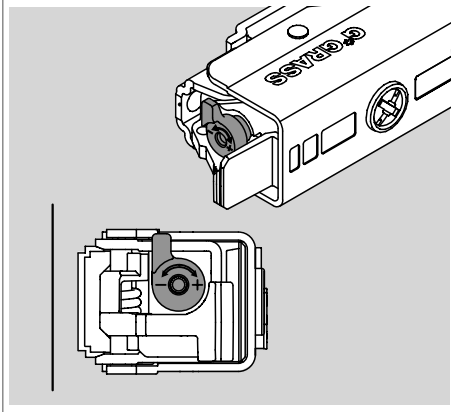
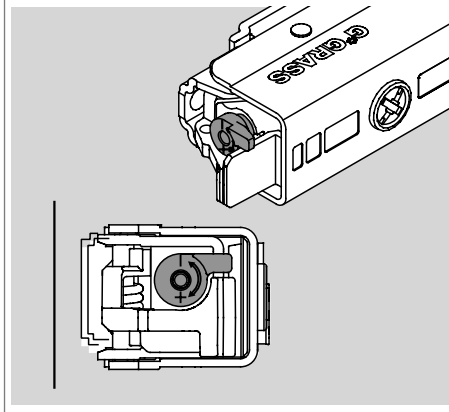
#### Spruce, solid wood

Thickness	kg/m <sup>3</sup>	kg/m <sup>2</sup>	600 x 700	600 x 900	600 x 1000	600 x 1200	600 x 1400	600 x 1600	600 x 1800	600 x 2000	600 x 2200	600 x 2500
16	450	7.20	3.02	3.89	4.32	5.18	6.05	6.91	7.78	8.64	9.50	10.80
19	450	8.55	3.59	4.62	5.13	6.16	7.18	8.21	9.23	10.26	11.29	12.83
22	450	9.90	4.16	5.35	5.94	7.13	8.32	9.50	10.69	11.88	13.07	14.85

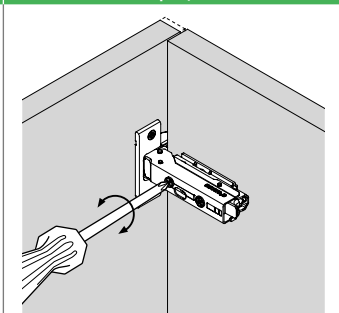
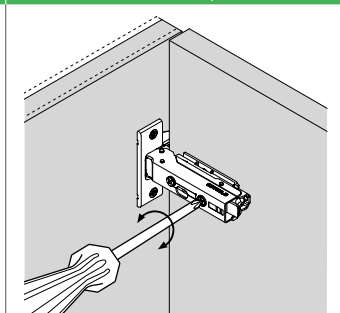
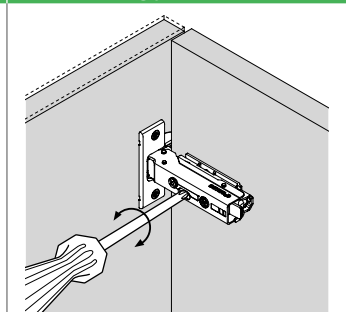
■ = 2 hinges, ■ = 3 hinges, ■ = 4 hinges, ■ = 5 hinges, ■ = 6 hinges

(information not binding, please check individual case)

TOOL-FREE DAMPER ADJUSTMENT

Light level	Medium level (factory setting)	Heavy level
		
<p>Adjustment lever points</p> <ul style="list-style-type: none"> <li>• towards cabinet wall</li> </ul> <p>Suitable for:</p> <ul style="list-style-type: none"> <li>• Small, lightweight doors</li> </ul>	<p>Adjustment lever points</p> <ul style="list-style-type: none"> <li>• downwards with anti-clockwise application</li> <li>• upwards with clockwise application</li> </ul> <p>Suitable for:</p> <ul style="list-style-type: none"> <li>• Standard doors</li> </ul>	<p>Adjustment lever points</p> <ul style="list-style-type: none"> <li>• inside the cabinet</li> </ul> <p>Suitable for:</p> <ul style="list-style-type: none"> <li>• Large, heavy doors</li> </ul>
<p>The damping capacity per hinge can be adjusted using the adjustment lever. Depending on the requirements, the damping capacity can therefore be reduced or increased very easily.</p>		

ADJUSTMENTS TO THE DOOR (APPLIES TO ALL TIOMOS HINGES)

Description	Side adjustment with limit stop +/- 2 mm	Convenient depth adjustment via worm screw +3/-2 mm	Height adjustment via mounting plate +/- 2 mm
<p>The possibility of height adjustment depends on the type of mounting plate. All adjustments can be carried out independently of each other.</p> <p>When using a mounting plate with <b>height -2</b>, side adjustment is limited.</p>			



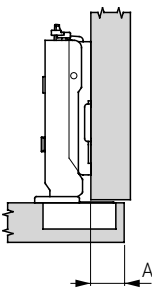
### DOOR REVEAL AND MINIMUM REVEAL

Description	Full overlay/door overlay	Half door overlay	Inset door
<p>The reveal is the distance between two doors or between the door and the cabinet side.</p> <p><b>The minimum reveal (F)</b> is the distance between two doors or between the door and the side wall. The gap allows the door to be opened without any collision.</p>			

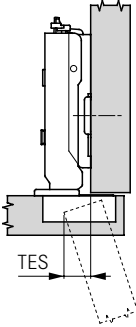
Minimum reveal table		Achievable reveal with inset door														
<p>The required reveal width depends on the door thickness.</p> <p><b>For example:</b> With a <b>door thickness</b> of <b>19 mm</b> and a <b>cup distance</b> of <b>6 mm</b>, a <b>minimum reveal</b> of <b>0.9 mm</b> is required.</p> <p><b>Important</b> Reveals were determined with a (door) edge radius of 1 mm. We recommend a trial fitting.</p>	Door thickness	Cup distance						Door reveal	Cup distance							
			3	4	5	<b>6</b>	7				3	4	5	<b>6</b>	7	
		24	2.4	2.1	2.1	2.1	2.0			0.0		0		2	3	
		22	1.6	1.6	1.6	1.5	1.5			0.5					3.5	
		21	1.4	1.3	1.3	1.3	1.3			<b>1.0</b>	0		2	<b>3</b>		
		20	1.1	1.1	1.1	1.5	1.1			1.5					3.5	
		19	0.9	0.9	0.9	<b>0.9</b>	0.9			2.0		2	3			
		18	0.7	0.7	0.7	0.7	0.7			3.0	2	3				
		17	0.6	0.6	0.6	0.6	0.6			4.0	3					
		16	0.6	0.6	0.6	0.6	0.6									
			Minimum reveal (F)							Mounting plate height						
				<p>The table shows the reveal that can be achieved with an inset door depending on the cup distance and mounting plate height.</p> <p><b>For example:</b> With a <b>cup distance</b> of <b>6 mm</b> and a <b>mounting plate height</b> of <b>3 mm</b>, there is a <b>reveal</b> of <b>1 mm</b>. This is also referred to as a negative overlay.</p>												

Description	Example																																																																				
<p><b>The minimum gap</b> is the gap between the cabinet face and the door when the door is closed. The gap allows the door to be opened without any collision. The factory setting for the gap is 1.5 mm.</p> <p>The cup distance (TA) is the distance between the door edge and the edge of the cup hole.</p>	<p>With a door thickness of 17 mm and a cup distance of 6 mm, the minimum gap is 1.0 mm.</p>																																																																				
	<table border="1"> <thead> <tr> <th rowspan="10" style="writing-mode: vertical-rl; transform: rotate(180deg);">Door thickness</th> <th colspan="6">Cup distance</th> </tr> <tr> <th></th> <th>3</th> <th>4</th> <th>5</th> <th><b>6</b></th> <th>7</th> </tr> </thead> <tbody> <tr> <td>24</td> <td>1.0</td> <td>1.0</td> <td>1.0</td> <td>1.2</td> <td>2.1</td> </tr> <tr> <td>22</td> <td>1.0</td> <td>1.0</td> <td>1.0</td> <td>1.0</td> <td>1.5</td> </tr> <tr> <td>21</td> <td>1.0</td> <td>1.0</td> <td>1.0</td> <td>1.0</td> <td>1.2</td> </tr> <tr> <td>20</td> <td>1.0</td> <td>1.0</td> <td>1.0</td> <td>1.0</td> <td>1.0</td> </tr> <tr> <td>19</td> <td>1.0</td> <td>1.0</td> <td>1.0</td> <td>1.0</td> <td>1.0</td> </tr> <tr> <td>18</td> <td>1.0</td> <td>1.0</td> <td>1.0</td> <td>1.0</td> <td>1.0</td> </tr> <tr> <td>17</td> <td>1.0</td> <td>1.0</td> <td>1.0</td> <td><b>1.0</b></td> <td>1.0</td> </tr> <tr> <td>16</td> <td>1.0</td> <td>1.0</td> <td>1.0</td> <td>1.0</td> <td>1.0</td> </tr> <tr> <td></td> <td colspan="6">Minimum gap</td> </tr> </tbody> </table>	Door thickness	Cup distance							3	4	5	<b>6</b>	7	24	1.0	1.0	1.0	1.2	2.1	22	1.0	1.0	1.0	1.0	1.5	21	1.0	1.0	1.0	1.0	1.2	20	1.0	1.0	1.0	1.0	1.0	19	1.0	1.0	1.0	1.0	1.0	18	1.0	1.0	1.0	1.0	1.0	17	1.0	1.0	1.0	<b>1.0</b>	1.0	16	1.0	1.0	1.0	1.0	1.0		Minimum gap					
Door thickness	Cup distance																																																																				
			3	4	5	<b>6</b>	7																																																														
	24		1.0	1.0	1.0	1.2	2.1																																																														
	22		1.0	1.0	1.0	1.0	1.5																																																														
	21		1.0	1.0	1.0	1.0	1.2																																																														
	20		1.0	1.0	1.0	1.0	1.0																																																														
	19		1.0	1.0	1.0	1.0	1.0																																																														
	18		1.0	1.0	1.0	1.0	1.0																																																														
	17		1.0	1.0	1.0	<b>1.0</b>	1.0																																																														
	16	1.0	1.0	1.0	1.0	1.0																																																															
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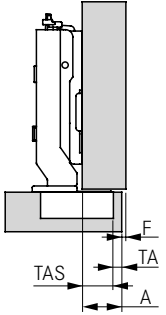
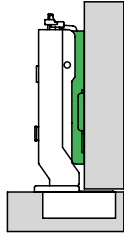
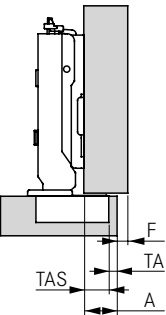
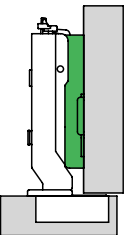
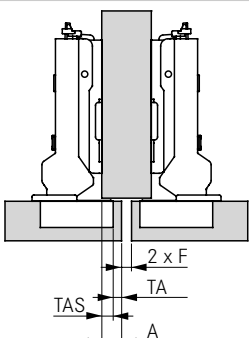
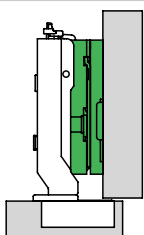
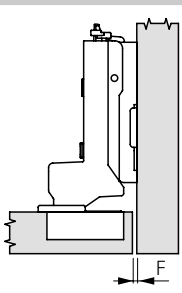
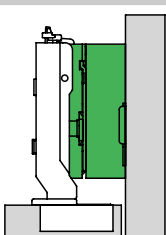
## DOOR OVERLAY

Description		Example																																																																																																						
<p><b>The door overlay (A)</b> is the part of the side wall or frame that is covered by the door.</p> 	<p>For a hinge with cranking 3, mounting plate height 2 and a cup distance of 4 mm, the door overlay is 14 mm.</p>	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="5">Cup distance</th> </tr> <tr> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> </tr> </thead> <tbody> <tr> <td>19.0</td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>18.0</td> <td></td> <td></td> <td></td> <td>0</td> <td></td> </tr> <tr> <td>17.0</td> <td></td> <td></td> <td>0</td> <td></td> <td>2</td> </tr> <tr> <td>16.5</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>16.0</td> <td></td> <td>0</td> <td></td> <td>2</td> <td>3</td> </tr> <tr> <td>15.5</td> <td></td> <td></td> <td></td> <td></td> <td>3.5</td> </tr> <tr> <td>15.0</td> <td>0</td> <td></td> <td>2</td> <td>3</td> <td></td> </tr> <tr> <td>14.5</td> <td></td> <td></td> <td></td> <td>3.5</td> <td></td> </tr> <tr> <td>14.0</td> <td></td> <td>2</td> <td>3</td> <td></td> <td></td> </tr> <tr> <td>13.5</td> <td></td> <td></td> <td>3.5</td> <td></td> <td></td> </tr> <tr> <td>13.0</td> <td>2</td> <td>3</td> <td></td> <td></td> <td></td> </tr> <tr> <td>12.5</td> <td></td> <td>3.5</td> <td></td> <td></td> <td></td> </tr> <tr> <td>12.0</td> <td>3</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>11.5</td> <td>3.5</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td colspan="5" style="text-align: right;"><b>Mounting plate height</b></td> </tr> </tbody> </table>		Cup distance					3	4	5	6	7	19.0					0	18.0				0		17.0			0		2	16.5						16.0		0		2	3	15.5					3.5	15.0	0		2	3		14.5				3.5		14.0		2	3			13.5			3.5			13.0	2	3				12.5		3.5				12.0	3					11.5	3.5						<b>Mounting plate height</b>					<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Door overlay</p>
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	<b>Mounting plate height</b>																																																																																																							

## DOOR PROTRUSION

Description	
<p><b>The door protrusion (TES)</b> is obtained when the door is open and varies depending on the hinge type and application.</p> <p>It is specified in the individual catalogue sheet and relates to the mounting plate specified at the factory setting in each case. It changes when the mounting plate height is changed and the side adjustment is used.</p>	

### OPTION TO CHANGE THE DOOR OVERLAY

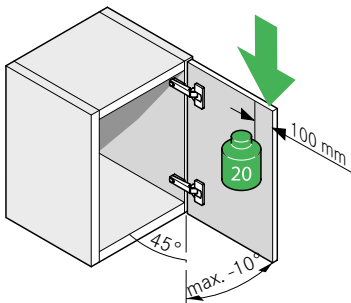
After selecting the cranking	By using a different mounting plate height
<p>Full overlay (cranking 0)</p> <p><b>The cup overlay (TAS/factory setting) plus cup distance (TA) provides the door overlay (A).</b></p> <p>The dimensions can be found in the table on the respective catalogue page.</p> 	<p>Full overlay</p> <p>Use of a hinge with cranking 0 and mounting plate height 0.</p> 
<p>Overlay (cranking 3)</p> <p><b>The cup overlay (TAS/factory setting) plus cup distance (TA) provides the door overlay (A).</b></p> <p>The dimensions can be found in the table on the respective catalogue page.</p> 	<p>Overlay</p> <p>Use of a hinge with cranking 0 and mounting plate height 3.</p> 
<p>Half overlay (cranking 9.5)</p> <p><b>The cup overlay (TAS/factory setting) plus cup distance (TA) provides the door overlay (A).</b></p> <p>The dimensions can be found in the table on the respective catalogue page.</p> 	<p>Half overlay</p> <p>Use of a hinge with cranking 0 and mounting plate height 9.5.</p> 
<p>Inset (cranking 19)</p> <p>There is no door overlay. <b>The minimum reveal (F)</b> between the cabinet side and the door depends on the mounting plate height and the cup distance. The dimensions can be found in the table on the respective catalogue page.</p> 	<p>Inset</p> <p>Use of a hinge with cranking 0 and mounting plate height 21.</p> 

TEST CRITERIA FOR HINGES

Functional test

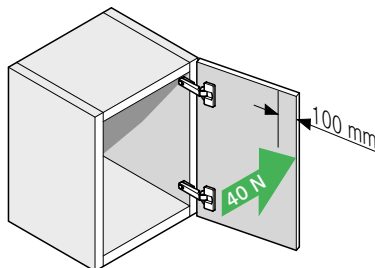
**Static load, vertical**

Additional load: 20 kg  
Opening angle: max.  $-10^\circ$   
Number: 10



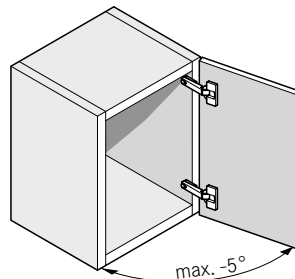
**Static load, horizontal**

Force: 40 N  
Number: 10



**Endurance test**

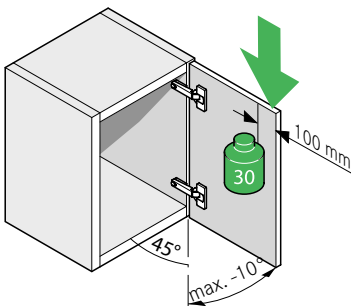
Opening angle: max.  $-5^\circ$   
Opening and closing movements: 100,000



Overload test

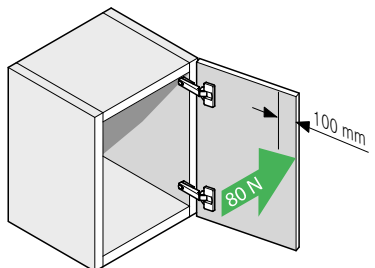
**Vertical**

Additional load: 30 kg  
Opening angle: max.  $-10^\circ$   
Number: 10



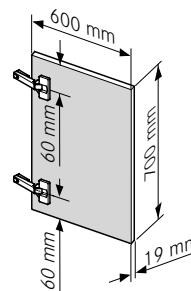
**Horizontal**

Force: 80 N  
Number: 10



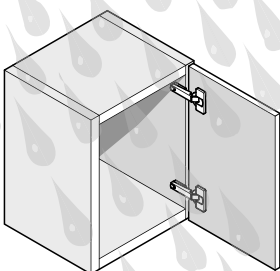
**Test door**

Weight approx. 5.2 kg



Salt spray and humidity test

Based on DIN ISO 9227 and DIN 6270-2



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- 2
- 3
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- 5
- 6
- 7
- 8



Tiomos H is the first GRASS hinge to be fully recessed into the cabinet.

tiomos  
hidden.



Tiomos Hidden realises its full potential and demonstrates its unique features when combined with aluminium frame fronts. Tiomos Hidden does not impair the open, transparent style of the furniture, irrespective of whether the front is open or closed.

Invi  
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A NEW ERA FOR  
FURNITURE DOORS.  
HINGE COMFORT  
MADE ALMOST  
INVISIBLE.

DISCOVER.

The sleek appearance of the new hinge is a striking feature. Whether with wood or aluminium frame doors, Tiomos H integrates elegantly into the cabinet and emphasises the design of the furniture piece. The range of design options is expanded by the Nickel and Night surfaces as well as the two comfort systems – Soft-close for fronts with handles and Tipmatic Plus for handle-free opening.


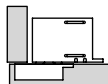

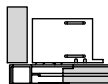

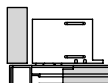


# Tiomos Hidden

## Concealed hinge system

The strength of the concealed hinge system for wooden and aluminium frame doors lies in its invisibility.

**Unobtrusive. Elegant. Solid.**

Opening angle		Product description	Full overlay	Overlay	Half overlay	Inset	Page
105°		<b>Tiomos H</b> <ul style="list-style-type: none"> <li>• Concealed hinge system for wooden doors</li> <li>• With integrated damper</li> <li>• 3-dimensional adjustment</li> </ul>	-		-	-	108
105°		<b>Tiomos H AL</b> <ul style="list-style-type: none"> <li>• Concealed hinge system for aluminium frame doors</li> <li>• With integrated damper</li> <li>• 3-dimensional adjustment</li> </ul>	-		-	-	110
105°		<b>Tiomos H AL with Schüco aluminium frame</b> <ul style="list-style-type: none"> <li>• Concealed hinge system for aluminium frame doors</li> <li>• With integrated damper</li> <li>• 3-dimensional adjustment</li> </ul>	-		-	-	112

Tipmatic Plus Pin for handle-free opening	116
Assembly technology	637
Assembly aids	654

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# TIOMOS H

105° hinge



- Inset hinge system concealed in the top and bottom cabinet panels
- No need to machine the cabinet sides
- No space lost in the cabinet due to lateral hinge connections
- Enables modern, open furniture designs, e.g. with intermediate glass walls
- 105° opening angle
- 3-dimensional adjustment
- For door thicknesses from 18 mm
- Surfaces: nickel-plated or Night
- Load capacity up to 17 kg

### Available in two versions:

- With integrated damper (Soft-close)
- With self-opening mechanism (Tipmatic Plus)



## ORDER INFORMATION

Door overlay			Material	Scope of delivery	Art. No.	
					Soft-close	Tipmatic Plus <sup>1</sup>
Overlay			Zamak, nickel-plated	Tiomos H (2x) Cover cap (2x) Screw set (1x)	<b>F05 1139 126</b>	<b>F05 1140926</b>
			Zamak, Night	Tiomos H (2x) Cover cap (2x) Screw set (1x)	<b>F05 1139 125</b>	<b>F05 1140927</b>

<sup>1</sup> Additional Tipmatic Plus Pin required

## ACCESSORIES

	Designation	Art. No.		Designation	Art. No.
	Tipmatic Plus Pin for handle-free furniture doors, light grey	<b>F069 135061</b>			

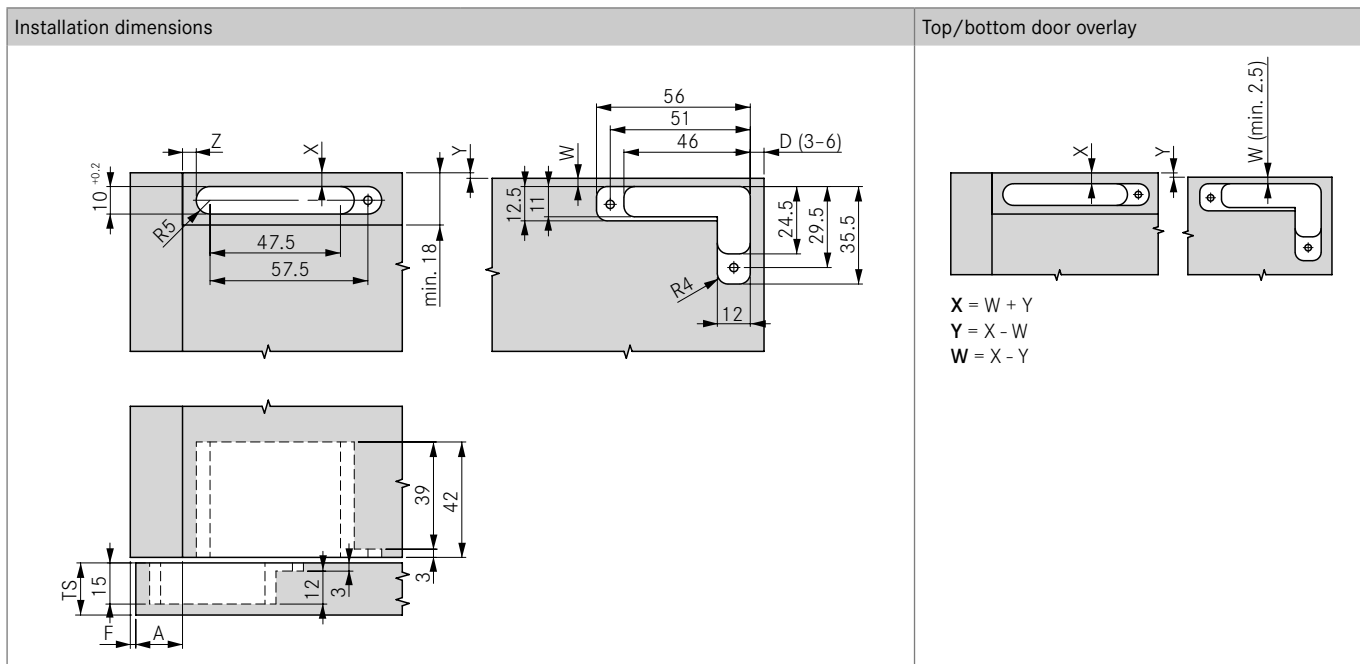
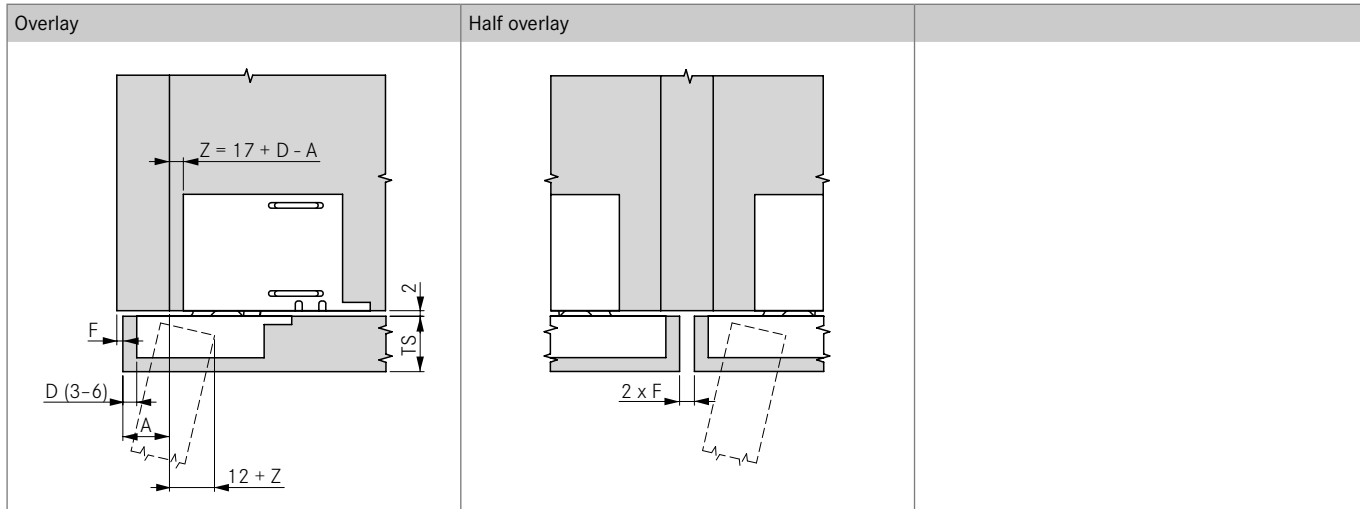
## PAGE REFERENCES

Tipmatic Plus Pin	116
Assembly technology	637
Assembly aids	654



PLANNING DIMENSIONS

All dimensions in millimetres



MINIMUM REVEAL (F)

Door thickness (TS)	D			
	3	4	5	6
32.0	4.7	4.2	3.9	3.7
30.0	3.1	2.9	2.8	2.7
28.0	2.1	2.0	2.0	1.9
26.0	1.4	1.4	1.3	1.3
24.0	0.9	0.9	0.8	0.8
22.0	0.5	0.5	0.5	0.5
20.0	0.2	0.2	0.2	0.2
18.0	0.0	0.0	0.0	0.0

Minimum reveal (F)

SIDE DOOR OVERLAY

Door overlay (A)	D			
	3	4	5	6
23.0				0
22.0			0	1
21.0		0	1	2
20.0	0	1	2	3
19.0	1	2	3	4
18.0	2	3	4	5
17.0	3	4	5	6
16.0	4	5	6	
15.0	5	6		
14.0	6			

Z (Z = 17 + D - A)

NOTES

For heavy doors up to 17 kg, we recommend a cabinet thickness of at least 22 mm.



# TIOMOS H AL

105° hinge



- Inset hinge system concealed in the top and bottom cabinet panels
- No need to machine the cabinet sides
- No space lost in the cabinet due to lateral hinge connections
- Enables modern, open furniture designs, e.g. with intermediate glass walls
- 105° opening angle
- 3-dimensional adjustment
- Surfaces: nickel-plated or Night
- Load capacity up to 17 kg

### Available in two versions:

- With integrated damper (Soft-close)
- With self-opening mechanism (Tipmatic Plus)



## ORDER INFORMATION

Door overlay		Material	Scope of delivery	Art. No.		
				Soft-close	Tipmatic Plus <sup>1</sup>	
Overlay			Zamak, nickel-plated	Tiomos H AL (2x), corner connector (4x), cover cap (2x), screw set (1x)	<b>F05 1139 128</b>	<b>F05 1140924</b>
			Zamak, Night	Tiomos H AL (2x), corner connector (4x), cover cap (2x), screw set (1x)	<b>F05 1139 148</b>	<b>F05 1140925</b>

<sup>1</sup> Additional Tipmatic Plus Pin required

## ALUMINIUM FRAME

	Designation	Art. No.
	Tiomos H AL aluminium profile, 3000 mm, peltro (anodised tin colour), incl. seal	<b>F05 1139 127</b>
	Tiomos H AL aluminium pull, 120 mm, peltro (anodised tin colour)	<b>F072 135955</b>

## ACCESSORIES

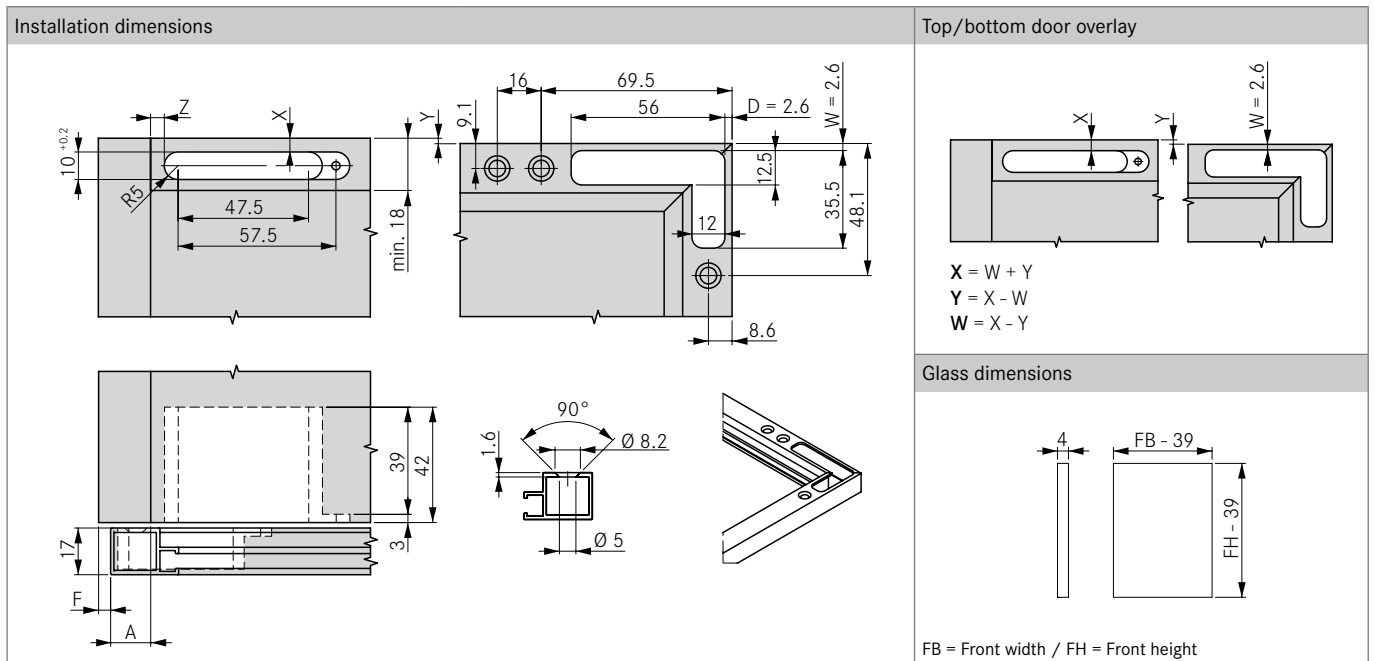
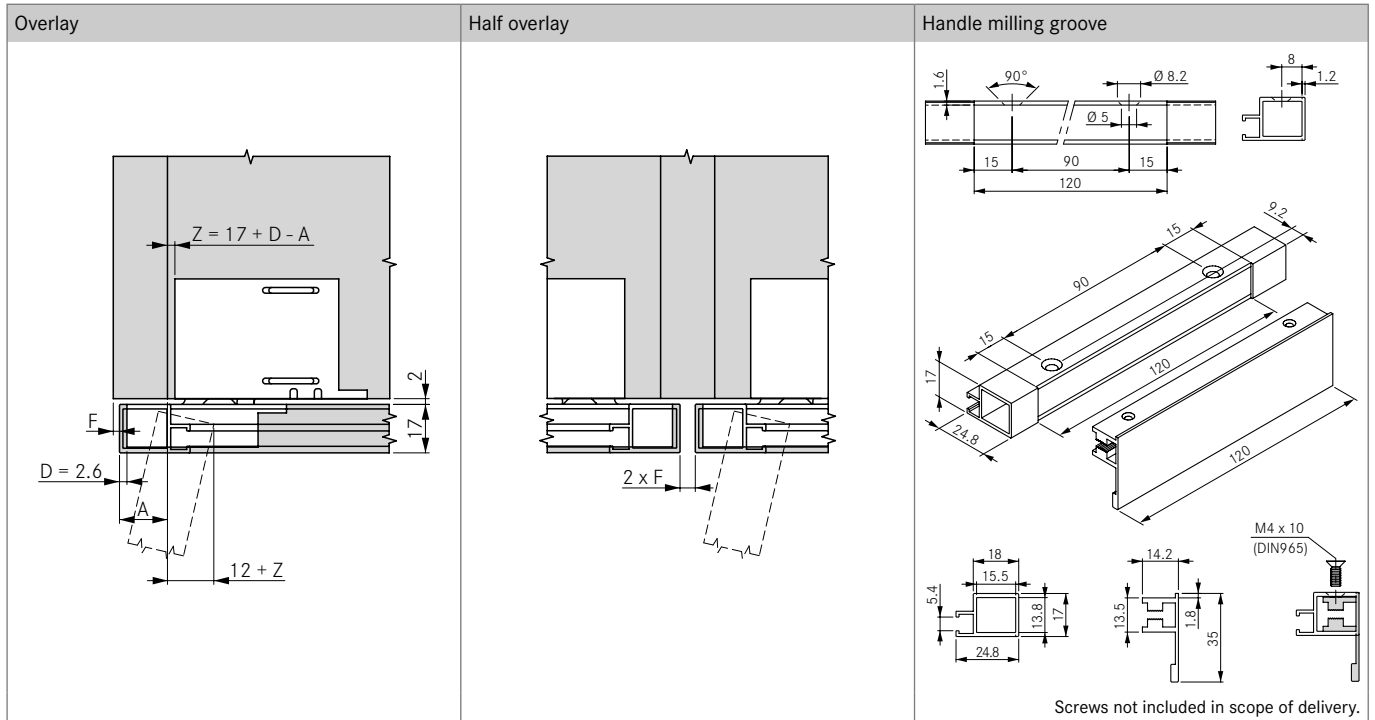
	Designation	Art. No.		Designation	Art. No.
	Tipmatic Plus Pin for handle-free furniture doors, light grey	<b>F069 135061</b>			
	Countersunk head screw, M4 x 10 mm, PH, Night	<b>F072 135967</b>			

## PAGE REFERENCES

Tipmatic Plus Pin	116				
Assembly technology	637				
Assembly aids	654				

PLANNING DIMENSIONS

All dimensions in millimetres



MINIMUM REVEAL (F)

	D			
	2.6			
	32.0	4.7		
	30.0	3.1		
	28.0	2.1		
	26.0	1.4		
	24.0	0.9		
	22.0	0.5		
	20.0	0.2		
	18.0	0.0		
Door thickness (TS)				
	Minimum reveal (F)			

SIDE DOOR OVERLAY

	D			
	2.6			
	17.0	2.6		
	16.0	3.6		
	15.0	4.6		
	14.0	5.6		
	13.0	6.6		
	12.0	7.6		
	11.0	8.6		
Door overlay (A)				
	$Z (Z = 17 + D - A)$			

NOTES

For heavy doors up to 17 kg, we recommend a cabinet thickness of at least 22 mm.

# TIOMOS H AL

105° hinge with Schüco aluminium frame



- Inset hinge system concealed in the top and bottom cabinet panels
- No need to machine the cabinet sides
- No space lost in the cabinet due to lateral hinge connections
- Enables modern, open furniture designs, e.g. with intermediate glass walls
- For cabinet panel thicknesses from 18 mm
- 105° opening angle
- 3-dimensional adjustment
- Surfaces: nickel-plated or Night

- Load capacity up to 17 kg
- In combination with Schüco aluminium profile (see below)

**Available in two versions:**

- With integrated damper (Soft-close)
- With self-opening mechanism (Tipmatic Plus)

## ORDER INFORMATION

Door overlay			Material	Scope of delivery	Art. No.	
					Soft-close	Tipmatic Plus <sup>1</sup>
Overlay			Zamak, nickel-plated	Tiomos H AL (2x), hinge corner connector (2x), corner connector (2x), cover cap (2x) screw set (1x)	<b>F05 1140898</b>	<b>F05 1140896</b>
			Zamak, Night	Tiomos H AL (2x), hinge corner connector (2x), corner connector (2x), cover cap (2x) screw set (1x)	<b>F05 1140897</b>	<b>F05 1140895</b>

<sup>1</sup> Additional Tipmatic Plus Pin required

## ALUMINIUM FRAME AND ACCESSORIES

	Designation	Colour	Schüco Art. No.
		Stainless steel	980037.64.00
Schüco aluminium profile for Tiomos H AL, 5000 mm		Black	980037.65.00
		Inox	980037.67.00
	Rattle protection for Schüco aluminium profile		532917.00.00

**Note:** Aluminium frames and accessories can be ordered from the distributor, quoting the respective Schüco article number. The distributor also supplies precisely dimensioned prefabricated glass aluminium frames.

## ACCESSORIES

	Designation	Art. No.		Designation	Art. No.
	Tipmatic Plus Pin for handle-free furniture doors, light grey	<b>F069 135061</b>		Countersunk head screw, M4 x 10 mm, PH, Night	<b>F072 135967</b>

## PAGE REFERENCES

Tipmatic Plus Pin	116				
Assembly technology	637				
Assembly aids	654				

PLANNING DIMENSIONS

All dimensions in millimetres

<p>Overlay</p> <p>Minimum reveal (F) = 0.2</p>	<p>Half overlay</p>	<p>Drilling position for aluminium frame corner connector</p> <p>Countersunk screw M5 x 8 mm</p>
--	---------------------	--

<p>Installation dimensions</p> <p>All dimensions without tolerance <math>\pm 0.1</math> / minimum reveal (F) = 0.2</p>	<p>Top/bottom door overlay</p> <p><math>X = W + Y + 1.4</math> <math>Y = X - W - 1.4</math> <math>W = X - Y - 1.4</math></p> <p>Glass dimensions</p> <p>FB = Front width / FH = Front height</p>
--	--

SIDE DOOR OVERLAY

NOTES

	D				
	1.2				
17.0	2.6				
16.0	3.6				
15.0	4.6				
14.0	5.6				
13.0	6.6				
12.0	7.6				
11.0	8.6				
	Z (Z = 18.4 + D - A)				

For heavy doors up to 17 kg, we recommend a cabinet thickness of at least 22 mm.

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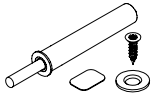
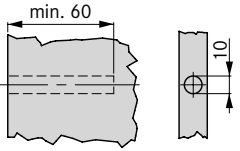
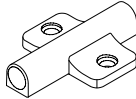
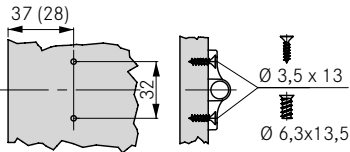
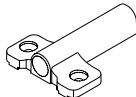
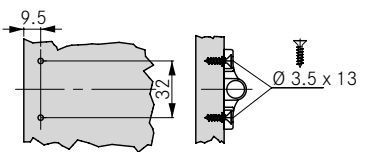
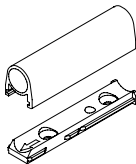
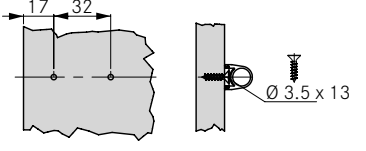
# TIPMATIC

For handle-free wooden/aluminium frame doors and glass/mirror doors



- The doors open with a comfortable opening angle by lightly tapping the front
- All hinges without self-closing mechanism can be used
- Large magnet catch area – reliable door closing
- Front gap compensation from 2.5 to 5.5 mm through integrated, self-locking and tool-free depth adjustment.
- Installation in the cabinet face or with adapter plate

## ORDER INFORMATION

Tipmatic Pin	For drilling	Colour	Art. No.
<ul style="list-style-type: none"> <li>• Drill edge cover 1 mm</li> <li>• Drill hole on face</li> <li>• Plastic: platinum grey (RAL 7036)/ black (RAL 9005)</li> <li>• Includes adhesive plate, screw-on plate and screw</li> </ul> 		Platinum grey (RAL 7036)	<b>F069135396</b>
		Black (RAL 9005)	<b>F069135338</b>
Line hole adapter plate	For screw fitting	Art. No.	
<ul style="list-style-type: none"> <li>• Suitable for hole distance 28 and 37 mm</li> <li>• Fixing with special Euro screws (Ø 6.3 x 13.5 mm) or chipboard screws (Ø 3.5 x 13 mm)</li> <li>• Plastic RAL 7035, light grey</li> </ul> 		<b>F069063310</b>	
Frame adapter plate	For screw fitting	Art. No.	
<ul style="list-style-type: none"> <li>• For quick retrofitting</li> <li>• Fixing with chipboard screws (Ø 3.5 x 13 mm)</li> <li>• Plastic RAL 7035, light grey</li> </ul> 		<b>F069073697</b>	
Linear adapter plate	For screw fitting	Art. No.	
<ul style="list-style-type: none"> <li>• Design solution – also for inset doors</li> <li>• Fixing with chipboard screws (Ø 3.5 x 13 mm)</li> <li>• Plastic RAL 7035, light grey</li> </ul> 		<b>F069073696</b>	

## PAGE REFERENCES

Tiomos	34	Installation instructions	118		
Tiomos M series	73				
Tiomos H	107				

PLANNING AND INSTALLATION INSTRUCTIONS

<p><b>Tipmatic Pin</b></p> <p>Counter plate For screw fitting Ø 15 For gluing 10 x 7</p> <p>Front-side installation</p>	<p><b>Line hole adapter plate</b></p> <p>Counter plate For screw fitting Ø 15 For gluing 10 x 7</p> <p>For hole distance 37 mm</p> <p>For hole distance 28 mm</p> <p>Installation with adapter plates</p>
<p><b>Linear adapter plate, inset</b></p> <p>Counter plate For screw fitting Ø 15 For gluing 10 x 7</p> <p>Installation with adapter plates</p>	<p><b>Linear adapter plate, overlay</b></p> <p>Counter plate For screw fitting Ø 15 For gluing 10 x 7</p> <p>Installation with adapter plates</p>
<p><b>Frame adapter plate</b></p> <p>Counter plate For screw fitting Ø 15 For gluing 10 x 7</p> <p>Installation with adapter plates</p>	

LEGEND

- F Reveal
- S Cabinet side wall
- TS Door thickness

1

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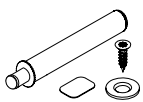
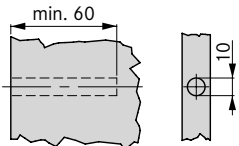
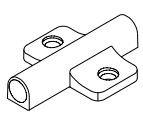
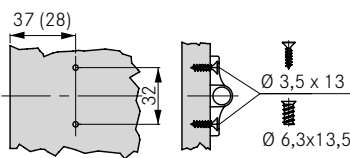
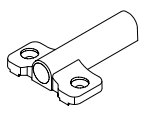
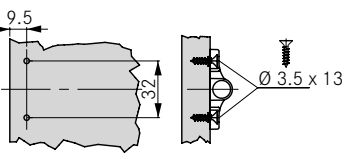
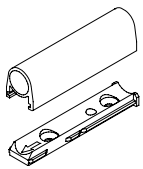
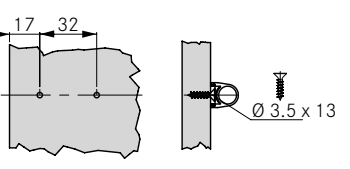
# TIPMATIC PLUS

For handle-free furniture doors



- The doors open with a comfortable opening angle by lightly tapping the front
- All hinges with self-opening mechanism can be used
- Large magnet catch area – reliable door closing
- Installation in the cabinet face or with adapter plate

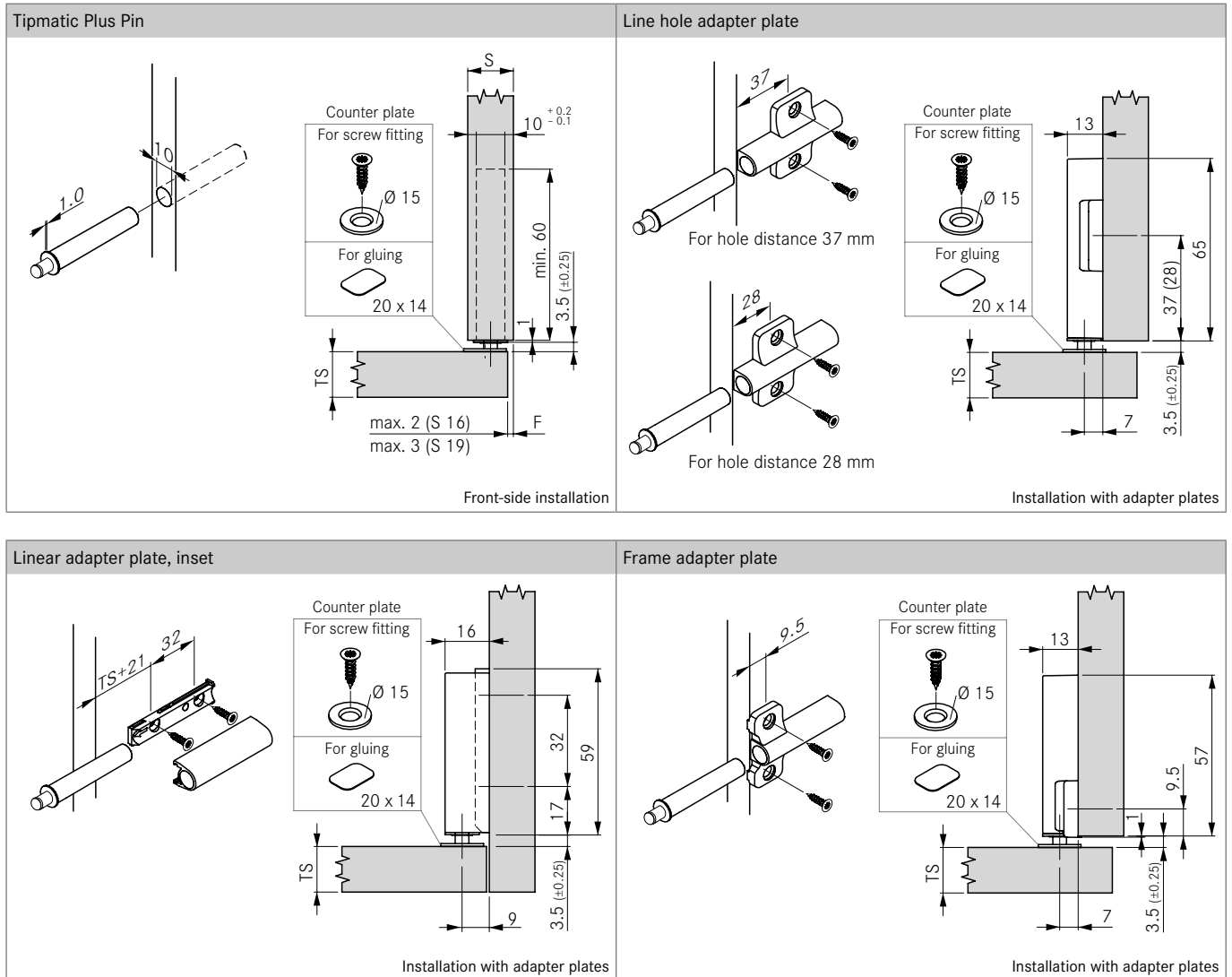
## ORDER INFORMATION

Tipmatic Plus Pin	For drilling	Art. No.
<ul style="list-style-type: none"> <li>• Drill edge cover 1 mm</li> <li>• Drill hole on face</li> <li>• Plastic RAL 7035, light grey</li> <li>• Includes adhesive plate, screw-on plate and screw</li> </ul> 		<p><b>F069135061</b></p>
Line hole adapter plate	For screw fitting	Art. No.
<ul style="list-style-type: none"> <li>• Suitable for hole distance 28 and 37 mm</li> <li>• Fixing with special Euro screws (Ø 6.3 x 13.5 mm) or chipboard screws (Ø 3.5 x 13 mm)</li> <li>• Plastic RAL 7035, light grey</li> </ul> 		<p><b>F069063310</b></p>
Frame adapter plate	For screw fitting	Art. No.
<ul style="list-style-type: none"> <li>• With positioning aid for quick retrofitting</li> <li>• Fixing with chipboard screws (Ø 3.5 x 13 mm)</li> <li>• Plastic RAL 7035, light grey</li> </ul> 		<p><b>F069073697</b></p>
Linear adapter plate	For screw fitting	Art. No.
<ul style="list-style-type: none"> <li>• Design solution – also for inset doors</li> <li>• Fixing with chipboard screws (Ø 3.5 x 13 mm)</li> <li>• Plastic RAL 7035, light grey</li> </ul> 		<p><b>F069073696</b></p>

## PAGE REFERENCES

Tiomos	34	Installation instructions	118		
Tiomos M series	73				
Tiomos H	107				

PLANNING AND INSTALLATION INSTRUCTIONS



NOTE

Before applying the counter plate, make sure that the surface is clean, dry and free of grease.

LEGEND

- F Reveal
- S Cabinet side wall
- TS Door thickness

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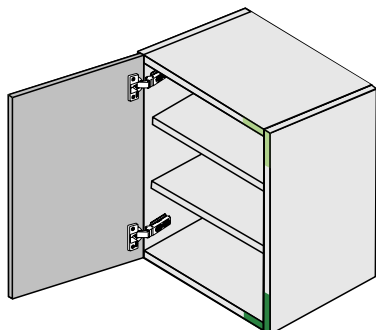
# TIPMATIC

## Installation instructions

### INSTALLATION INSTRUCTIONS

All dimensions in millimetres

#### Recommended positions



Position in the upper corner opposite the hinge in the base cabinet

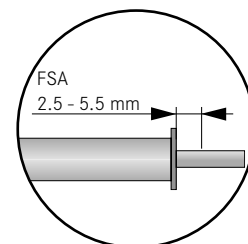
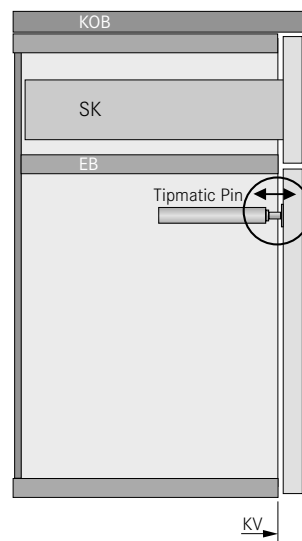


Position in the lower corner opposite the hinge in the upper cabinet

#### General note on installation position:

The Tipmatic element is mounted opposite the hinge, either via a face-side hole in the furniture cabinet or using our adapter plates, which are available in different versions.

#### Front gap compensation (Tipmatic Pin)



#### Front gap compensation with integrated, tool-free depth adjustment:

The front gap can be adjusted with the Tipmatic drawer.

### PAGE REFERENCES

Tipmatic	114
Tipmatic Plus	116



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**LEGEND**

EB	Shelf
FSA	Front gap compensation
KOB	Cabinet top panel
KV	Cabinet front edge

SK	Drawer
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