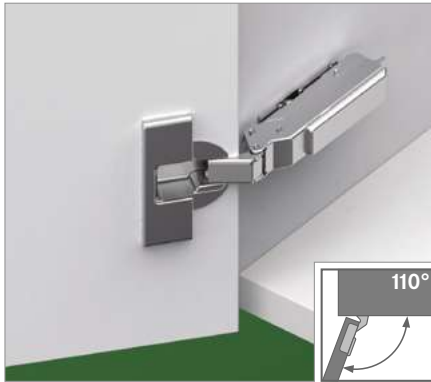


TIOMOS 110

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

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

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

³ 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 ¹	3	■	-	-		F028139129		
		-	■	-		F045140958		
		-	■	■		F046149603		
Half overlay ²	9.5	■	-	-		F028139130		
		-	■	-		F045140952		
		-	■	■		F046149604		
Inset ²	19	■	-	-		F028139131		
		-	■	-		F045140955		
		-	■	■		F046149605		

¹ Cup material: steel, Night/Arm material: steel, Night

² 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

Full overlay K0	Overlay K3	Half overlay K9.5	Inset ¹ K19																																																																																																																																																																																																																																																																																																																																																																																																																													
Mounting plate height 2	Mounting plate height 2	Mounting plate height 2	Mounting plate height 2 ¹ Set mounting plate back by door thickness + 1.5 mm																																																																																																																																																																																																																																																																																																																																																																																																																													
<table border="1"> <thead> <tr> <th colspan="2">Cup distance</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> </tr> </thead> <tbody> <tr> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>24.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-2</td> </tr> <tr> <td>23.0</td> <td></td> <td></td> <td></td> <td>-2</td> <td></td> <td></td> </tr> <tr> <td>22.0</td> <td></td> <td></td> <td>-2</td> <td></td> <td>0</td> <td></td> </tr> <tr> <td>21.0</td> <td></td> <td>-2</td> <td></td> <td>0</td> <td></td> <td></td> </tr> <tr> <td>20.0</td> <td>-2</td> <td></td> <td>0</td> <td></td> <td>2</td> <td></td> </tr> <tr> <td>19.0</td> <td></td> <td>0</td> <td></td> <td>2</td> <td>3</td> <td></td> </tr> <tr> <td>18.5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>18.0</td> <td>0</td> <td></td> <td>2</td> <td>3</td> <td></td> <td></td> </tr> <tr> <td>17.5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>17.0</td> <td></td> <td>2</td> <td>3</td> <td></td> <td></td> <td></td> </tr> <tr> <td>16.5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>16.0</td> <td>2</td> <td>3</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>15.5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>15.0</td> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Cup distance		3	4	5	6	7	0							24.0						-2	23.0				-2			22.0			-2		0		21.0		-2		0			20.0	-2		0		2		19.0		0		2	3		18.5							18.0	0		2	3			17.5							17.0		2	3				16.5							16.0	2	3					15.5							15.0	3						<table border="1"> <thead> <tr> <th colspan="2">Cup distance</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> </tr> </thead> <tbody> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>21.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-2</td> </tr> <tr> <td>20.0</td> <td></td> <td></td> <td></td> <td>-2</td> <td></td> <td></td> </tr> <tr> <td>19.0</td> <td></td> <td></td> <td>-2</td> <td></td> <td>0</td> <td></td> </tr> <tr> <td>18.0</td> <td></td> <td>-2</td> <td></td> <td>0</td> <td></td> <td></td> </tr> <tr> <td>17.0</td> <td>-2</td> <td></td> <td>0</td> <td></td> <td>2</td> <td></td> </tr> <tr> <td>16.5</td> <td></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> <td></td> </tr> <tr> <td>15.5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>15.0</td> <td>0</td> <td></td> <td>2</td> <td>3</td> <td></td> <td></td> </tr> <tr> <td>14.5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>14.0</td> <td></td> <td>2</td> <td>3</td> <td></td> <td></td> <td></td> </tr> <tr> <td>13.5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>13.0</td> <td>2</td> <td>3</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>12.5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>12.0</td> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Cup distance		3	4	5	6	7	3							21.0						-2	20.0				-2			19.0			-2		0		18.0		-2		0			17.0	-2		0		2		16.5							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						<table border="1"> <thead> <tr> <th colspan="2">Cup distance</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> </tr> </thead> <tbody> <tr> <td>9.5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>14.5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-2</td> </tr> <tr> <td>13.5</td> <td></td> <td></td> <td></td> <td>-2</td> <td></td> <td></td> </tr> <tr> <td>12.5</td> <td></td> <td></td> <td>-2</td> <td></td> <td>0</td> <td></td> </tr> <tr> <td>11.5</td> <td></td> <td>-2</td> <td></td> <td>0</td> <td></td> <td></td> </tr> <tr> <td>10.5</td> <td>-2</td> <td></td> <td>0</td> <td></td> <td>2</td> <td></td> </tr> <tr> <td>10.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>9.5</td> <td></td> <td>0</td> <td></td> <td>2</td> <td>3</td> <td></td> </tr> <tr> <td>9.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8.5</td> <td>0</td> <td></td> <td>2</td> <td>3</td> <td></td> <td></td> </tr> <tr> <td>8.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7.5</td> <td></td> <td>2</td> <td>3</td> <td></td> <td></td> <td></td> </tr> <tr> <td>7.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6.5</td> <td>2</td> <td>3</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5.5</td> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Cup distance		3	4	5	6	7	9.5							14.5						-2	13.5				-2			12.5			-2		0		11.5		-2		0			10.5	-2		0		2		10.0							9.5		0		2	3		9.0							8.5	0		2	3			8.0							7.5		2	3				7.0							6.5	2	3					6.0							5.5	3						<table border="1"> <thead> <tr> <th colspan="2">Cup distance</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> </tr> </thead> <tbody> <tr> <td>19</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>0.0</td> <td></td> <td></td> <td>0</td> <td></td> <td>2</td> <td>3</td> </tr> <tr> <td>0.5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1.0</td> <td>0</td> <td></td> <td>2</td> <td>3</td> <td></td> <td></td> </tr> <tr> <td>1.5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2.0</td> <td></td> <td>2</td> <td>3</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3.0</td> <td>2</td> <td>3</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4.0</td> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Cup distance		3	4	5	6	7	19							0.0			0		2	3	0.5							1.0	0		2	3			1.5							2.0		2	3				3.0	2	3					4.0	3					
Cup distance		3	4	5	6	7																																																																																																																																																																																																																																																																																																																																																																																																																										
0																																																																																																																																																																																																																																																																																																																																																																																																																																
24.0						-2																																																																																																																																																																																																																																																																																																																																																																																																																										
23.0				-2																																																																																																																																																																																																																																																																																																																																																																																																																												
22.0			-2		0																																																																																																																																																																																																																																																																																																																																																																																																																											
21.0		-2		0																																																																																																																																																																																																																																																																																																																																																																																																																												
20.0	-2		0		2																																																																																																																																																																																																																																																																																																																																																																																																																											
19.0		0		2	3																																																																																																																																																																																																																																																																																																																																																																																																																											
18.5																																																																																																																																																																																																																																																																																																																																																																																																																																
18.0	0		2	3																																																																																																																																																																																																																																																																																																																																																																																																																												
17.5																																																																																																																																																																																																																																																																																																																																																																																																																																
17.0		2	3																																																																																																																																																																																																																																																																																																																																																																																																																													
16.5																																																																																																																																																																																																																																																																																																																																																																																																																																
16.0	2	3																																																																																																																																																																																																																																																																																																																																																																																																																														
15.5																																																																																																																																																																																																																																																																																																																																																																																																																																
15.0	3																																																																																																																																																																																																																																																																																																																																																																																																																															
Cup distance		3	4	5	6	7																																																																																																																																																																																																																																																																																																																																																																																																																										
3																																																																																																																																																																																																																																																																																																																																																																																																																																
21.0						-2																																																																																																																																																																																																																																																																																																																																																																																																																										
20.0				-2																																																																																																																																																																																																																																																																																																																																																																																																																												
19.0			-2		0																																																																																																																																																																																																																																																																																																																																																																																																																											
18.0		-2		0																																																																																																																																																																																																																																																																																																																																																																																																																												
17.0	-2		0		2																																																																																																																																																																																																																																																																																																																																																																																																																											
16.5																																																																																																																																																																																																																																																																																																																																																																																																																																
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																																																																																																																																																																																																																																																																																																																																																																																																																															
Cup distance		3	4	5	6	7																																																																																																																																																																																																																																																																																																																																																																																																																										
9.5																																																																																																																																																																																																																																																																																																																																																																																																																																
14.5						-2																																																																																																																																																																																																																																																																																																																																																																																																																										
13.5				-2																																																																																																																																																																																																																																																																																																																																																																																																																												
12.5			-2		0																																																																																																																																																																																																																																																																																																																																																																																																																											
11.5		-2		0																																																																																																																																																																																																																																																																																																																																																																																																																												
10.5	-2		0		2																																																																																																																																																																																																																																																																																																																																																																																																																											
10.0																																																																																																																																																																																																																																																																																																																																																																																																																																
9.5		0		2	3																																																																																																																																																																																																																																																																																																																																																																																																																											
9.0																																																																																																																																																																																																																																																																																																																																																																																																																																
8.5	0		2	3																																																																																																																																																																																																																																																																																																																																																																																																																												
8.0																																																																																																																																																																																																																																																																																																																																																																																																																																
7.5		2	3																																																																																																																																																																																																																																																																																																																																																																																																																													
7.0																																																																																																																																																																																																																																																																																																																																																																																																																																
6.5	2	3																																																																																																																																																																																																																																																																																																																																																																																																																														
6.0																																																																																																																																																																																																																																																																																																																																																																																																																																
5.5	3																																																																																																																																																																																																																																																																																																																																																																																																																															
Cup distance		3	4	5	6	7																																																																																																																																																																																																																																																																																																																																																																																																																										
19																																																																																																																																																																																																																																																																																																																																																																																																																																
0.0			0		2	3																																																																																																																																																																																																																																																																																																																																																																																																																										
0.5																																																																																																																																																																																																																																																																																																																																																																																																																																
1.0	0		2	3																																																																																																																																																																																																																																																																																																																																																																																																																												
1.5																																																																																																																																																																																																																																																																																																																																																																																																																																
2.0		2	3																																																																																																																																																																																																																																																																																																																																																																																																																													
3.0	2	3																																																																																																																																																																																																																																																																																																																																																																																																																														
4.0	3																																																																																																																																																																																																																																																																																																																																																																																																																															

MINIMUM GAP

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

Minimum gap

² 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

Minimum reveal (F)

85° OPENING ANGLE

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

Minimum reveal (F)³ at 85°

³ 85° opening angle reduction clip

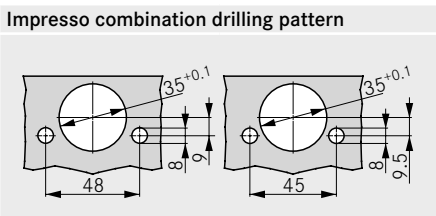
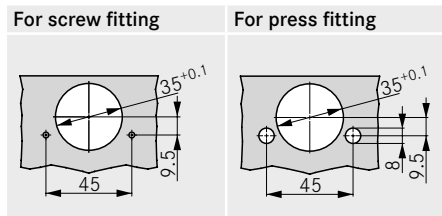
NOTES

The minimum gap is the clearance required between the 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

