

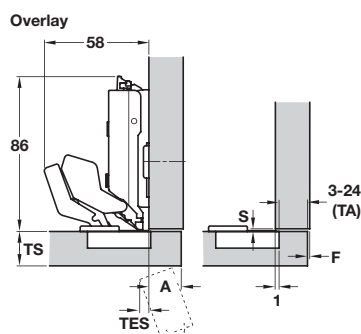
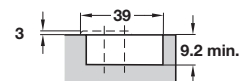
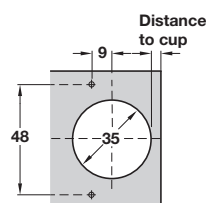
GRASS TIOMOS M9



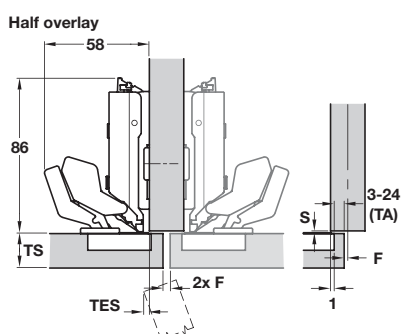
- > For door thicknesses from 12 mm up to max. 28 mm
- > Opening angle 110°
- > Ø 35 mm cup
- > Cup depth of min. 9.2 mm
- > For door overlays up to 25 mm
- > 3-dimensional adjustment with appropriate mounting plate
- > Application examples:
Thin furniture doors
Four-sided mitred applications 110°
- > Tiomos Night, anthracite finish, also available



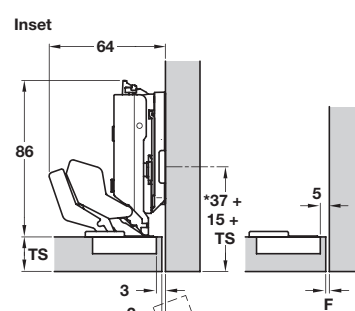
Trial fitting is recommended for all door thicknesses



Mounting plate distance 0 mm



Mounting plate distance 0 mm



Mounting plate distance 6 mm
*Dimension for mounting plate for 37 mm hole spacing

Minimum gap/minimum reveal

	3	4	5	6	7	8	9	10	11	12	13
Cup distance TA	3	4	5	6	7	8	9	10	11	12	13
Door protrusion TES	0.8	1.1	1.5	1.8	2.2	2.5	2.9	3.2	3.5	3.9	4.2
Door overlay A	4	5	6	7	8	9	10	11	12	13	14
Door thickness TS											
Min. reveal F / Gap S	F S	F S	F S	F S	F S	F S	F S	F S	F S	F S	F S
12-20 mm	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 mm	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 1.5	1.7 1.5	4 1.5
24 mm	1 1.5	1.2 1.5	1.3 1.5	1.5 1.5	1.7 1.5	2 1.5	2.4 1.5	3.3 1.5	8.3 1.5	7.7 1.5	6.9 1.5
26 mm	2.2 1.5	2.4 1.5	2.7 1.5	3.1 1.5	3.6 1.5	4.7* 1.5	12* 1.5	11.8 1.5	10.9 1.5	9.9 1.5	8.9 1.5
28 mm	3.9 1.5	4.3 1.5	5.1* 1.5	6.3* 1.5	16* 1.5	16* 1.5	15* 1.5	14* 1.5	13* 1.5	12* 1.5	11* 1.5

Values for 0 mm mounting plate height

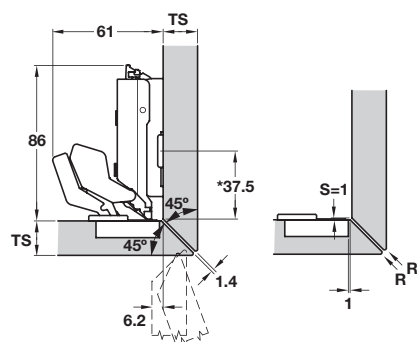
	14	15	16	17	18	19	20	21	22	23	24
Cup distance TA	14	15	16	17	18	19	20	21	22	23	24
Door protrusion TES	4.6	4.9	5.3	5.6	5.9	6.3	6.6	7	7.3	7.6	8
Door overlay A	15	16	17	18	19	20	21	22	23	24	25
Door thickness TS											
Min. reveal F / Gap S	F S	F S	F S	F S	F S	F S	F S	F S	F S	F S	F S
12-20 mm	1 1.5	1 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 mm	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 2	1 2	1 2
24 mm	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 mm	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 mm	10* 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

* Value achievable by use of a 90° opening single reduction strip

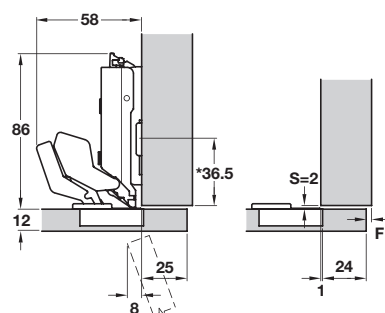
Installation information

Mitred application -
Circumferential and lateral 12 - 24 mm

Max. overlay



Mounting plate height 3 mm
*Dimension for mounting plate
for 37 mm hole spacing



Mounting plate height 0 mm
*Dimension for mounting plate
for 37 mm hole spacing

Door Thickness (TS)	Mitred application	
	circumferential	lateral
	R (min.)	R (min.)
12-17 mm	0	0
18 mm	0.2	0
19 mm	1	0.4
20 mm	1.5	1
21 mm	2.2	1.8
22 mm	3	2.5
24 mm	4.3	4.1

With circumferential mitred application
all sides 1.4 mm reveal

Grass Tiomos M9



- > Order fixing screws separately
- > Order qty: 1 pc

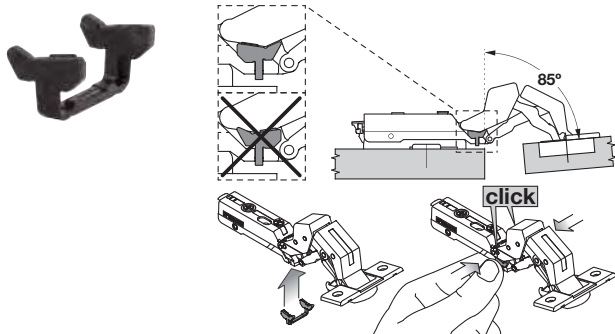


Version	Nickel-plated finish
Integrated damper	348.30.840
Without integrated damper	348.30.640
Tipmatic Plus	348.24.101
Tipmatic	348.30.440
Tiomos Night	Anthracite finish
Integrated damper	348.43.806



Ordering information for Tiomos Tipmatic Plus
and Tipmatic is shown on pages 60-61

Grass Tiomos opening angle restraint



- > Prevents the door from butting against front panels or walls with corner mounting by reducing opening angle to 90°
- > For use with TIOMOS M9, M0 and Mirro 125° hinges
- > Black plastic
- > Order qty: 1 pc

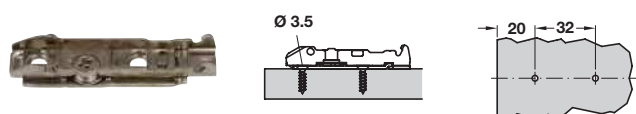


Opening angle	Cat. No.
90°	348.40.012

YOU ALSO NEED:



Grass Tiomos inline mounting plate



- > For TIOMOS click on fixing hinges only
- > Varianta screw fixing
- > Two part plate with ± 2 mm height adjustment via worm screw
- > Nickel-plated steel
- > Order fixing screws separately
- > Order qty: 1 pc



Height	Varianta screw
0 mm	348.38.501



A wider range of mounting plates
are shown on pages 66-68

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10.07.19/1

TIOMOS CLICK ON MOUNTING PLATES AND ACCESSORIES

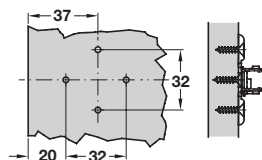


TIOMOS click on fixing hinges are shown on pages **36-63**

Grass Tiomos cruciform mounting plate, 4 point fixing



Nickel-plated

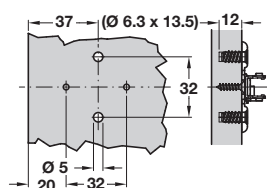


For Hospa screws

- > For TIOMOS click on fixing hinges only
- > Hospa screw fixing or with pre-mounted Euro screws or dowel fixing
- > Two part plate with ± 2 mm height adjustment via worm screw
- > Steel
- > Order fixing screws separately for Hospa screw fixing versions
- > Order qty: 1 pc



Nickel-plated



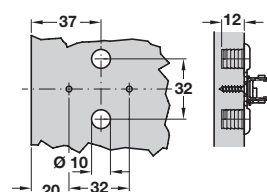
With pre-mounted Euro screws



Anthracite



Nickel-plated



With dowel fixing

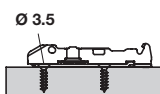


Height	Hospa screw	Pre-mounted	Dowel
Nickel-plated finish			
0 mm	348.38.511	348.38.521	348.38.541
2 mm	348.38.512	348.38.522	348.38.542
3 mm	348.38.513	348.38.523	-
Tiomos Night - Anthracite finish			
0 mm	348.38.040	348.38.050	-
2 mm	348.38.042	348.38.052	-

Grass Tiomos inline mounting plate



Nickel-plated



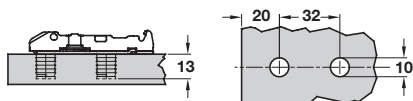
For Varianta



Anthracite



Nickel-plated



With dowel fixing

- > For TIOMOS click on fixing hinges only
- > Varianta screw fixing or dowel fixing
- > Two part plate with ± 2 mm height adjustment via worm screw
- > Steel
- > Order fixing screws separately for Varianta screw fixing versions
- > Order qty: 1 pc



Height	Screw fixing	Dowel
Nickel-plated finish		
0 mm	348.38.501	348.38.010
2 mm	348.38.502	348.38.012
3 mm	348.38.503	-
Tiomos Night - Anthracite finish		
0 mm	348.38.030	-
2 mm	348.38.032	-
3 mm	348.38.033	-

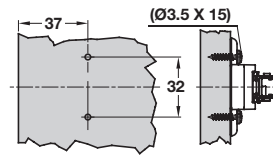
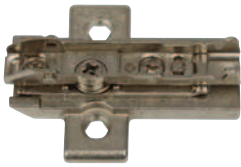


Order Varianta screw **013.01.711** separately for screw fixing version to ensure correct fit, shown in **Section 13** on page **22**



Most of the products you will find in this catalogue are available within 24 hours. However, to be able to offer the breadth of range in our collection, a small number of products have a longer lead time that is typically around 14 days. Please call 0800 171 2909 for an accurate delivery date when you see this symbol.

Grass Tiomos cruciform mounting plates, 2 point fixing

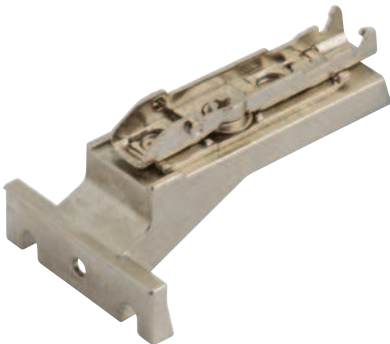


- > For TIOMOS click on fixing hinges only
- > Hospa screw fixing
- > Two part plate with ± 2 mm height adjustment via worm screw
- > Nickel-plated steel
- > Order fixing screws separately
- > Order qty: 1 pc

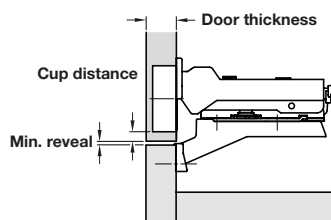
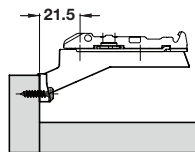
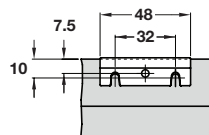


Height	Hospa screw
6 mm	348.39.511
8 mm	348.39.512
14 mm	348.39.536
19 mm	348.39.519
21 mm	348.39.520

Grass Tiomos inset beaded mounting plate for frame constructions, 3 point fixing



- > For inset doors
- > To be used with TIOMOS half overlay hinges
- > Hospa screw fixing
- > With convenient height adjustment ± 2 mm via worm screw
- > Nickel-plated steel and zinc alloy
- > Order fixing screws separately
- > Order qty: 1 pc

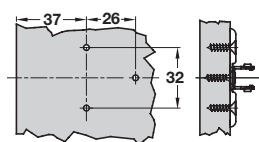


Door thickness mm								
	16	18	19	20	22	24	26	28
	3	3	3	3	3	3	3	3
	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5
	6	6	6	6	6	6	6	6
Distance to cup mm	Minimum reveal mm							
	4							
	3							
	2							
	1							

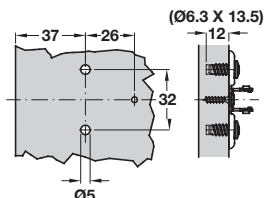


Height	Cat. No.
0 mm	348.38.020

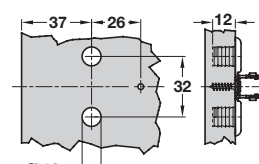
Grass Tiomos ECON cruciform mounting plate, 3 point fixing



For Hospa screws



With pre-mounted Euro screws



With dowel fixing

- > For TIOMOS click on fixing hinges only
- > Hospa screw fixing or with pre-mounted Euro screws or dowel fixing
- > One part plate with ± 2.5 mm height adjustment by slot
- > Nickel-plated steel
- > Order fixing screws separately for Hospa screw fixing versions
- > Order qty: 1 pc

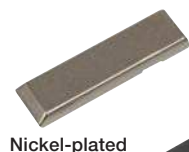


Height	Hospa screw	Pre-mounted	Dowel
0 mm	348.38.612	348.38.551	348.38.591
2 mm	348.38.613	348.38.552	348.38.592
-2 mm	348.38.560	-	-

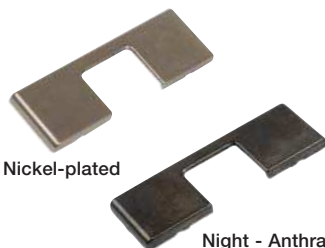


TIOMOS click on fixing hinges are shown on pages 36-63

Cover caps



Nickel-plated

Night - Anthracite
For hinge arm

Nickel-plated

Night - Anthracite
For hinge cup

- > Steel
- > Order qty: 1 pc



Suitable for	Hinge arm	Hinge cup
Nickel-plated finish	348.40.000	348.40.001
Night - Anthracite finish	348.40.005	348.40.006

Grass Tiomos cover caps, with Grass logo



- > Suitable for hinge arm
- > With GRASS logo embossed
- > Nickel-plated steel
- > Order qty: 1 pc

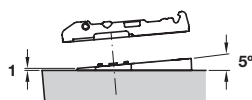


Hand	Right	Left
Cat. No.	348.40.003	348.40.004

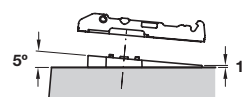
Grass Tiomos wedge



Wedge +5°



Wedge -5°



- > Ideal for curved door applications
- > For cruciform mounting plates that require underlaying either $\pm 5^\circ$
- > For screwing into 32/37 mm series drilled holes
- > Nickel plated zinc alloy
- > *Max. 3 wedges stacked on top of each other
- > Order qty: 1 pc



	Cat. No.
Wedge + 5° *	348.40.020
Wedge - 5°	348.40.021