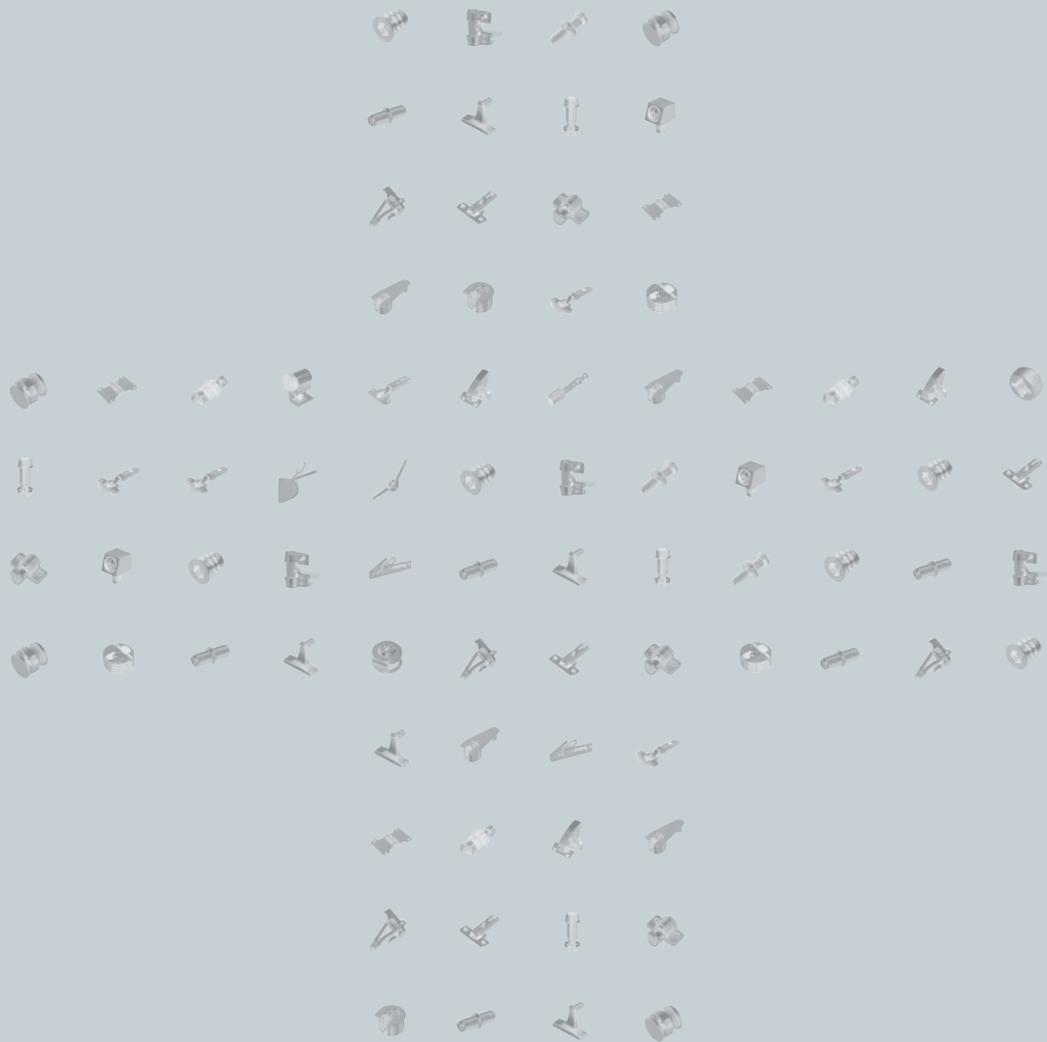


Concealed hinges



Concealed hinges

Product guide

ST-i2 plus series

cam-adjustable door depth, ST assembly, Ø 35mm cup drilling

	Cranking	Opening angle	Cup type	Page
ST-i2 plus 110, 2 nd Generation	0mm	110°	for wooden door	3.19
	9mm	110°	for wooden door	3.19

ST plus series

ST assembly, Ø 35mm cup drilling

	Cranking	Opening angle	Cup type	Page
ST plus 110	0mm	110°	for wooden door	3.21
	9mm	110°	for wooden door	3.21
ST plus 110 Touch opening	0mm	110°	for wooden door	3.23
	9mm	110°	for wooden door	3.23

ST series

ST assembly, Ø 35mm cup drilling

	Angle and cranking	Opening angle	Cup type	Page
ST 110	0mm	110°	for wooden door	3.25
	9mm	110°	for wooden door	3.25
	15mm	110°	for wooden door	3.25
ST 110/45°	45°, 18mm	110°	for wooden door	3.27
ST 110/90°	90°, 18mm	110°	for wooden door	3.29
ST 170	0mm	165°	for wooden door	3.31
	0mm	135°-165°	for wooden door	3.31
	0mm	165°	for wooden door	3.31
ST for pie-cut corner cabinet			for wooden door	3.33
ST mounting plates				3.35

Accessories

	Page
Push latch	3.39

Concealed hinges

Information

How to achieve the desired door overlay?

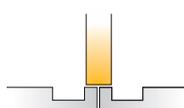
By choosing the hinge of appropriate cranking

Concealed hinges with specific hinge arms are available for different door overlays. The most common overlays are:

■ Cabinet side
■ Door



1. **Full overlay.** Use a hinge with 0mm cranking.



2. **Half overlay for double doors.** Use a hinge with 9mm cranking.

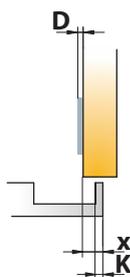


3. **Inset door.** Use a hinge with 15mm, 16mm or 18mm cranking.

By choosing the mounting plates of appropriate thickness

To achieve the desired overlay (x) while using a determined drilling distance (K), a mounting plate of appropriate

thickness (D) must be chosen from the enclosed table.

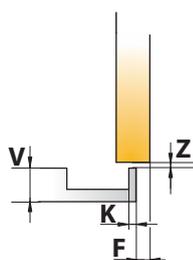


X	4	5	6	7	8	9
3	3	2	0			
K	4	0	2	1	0	
	5		3	2	1	0 D

Door clearance and gap

The door clearance ($F > F_{min}$) and gap (Z) represent the minimal necessary space needed for the correct opening and closing of the door. The minimal required values depend on the cup drilling distance (K), door thickness (V)

and the type of hinge. The minimum clearance scale can be found in the catalogue. When using on double doors with one party-wall the door clearance must be twice as large ($F > 2F_{min}$).



V	16	17	18	19	20	22
3	0.3	0.5	0.7	1.0	1.3	1.7 3.5
K	4	0.3	0.7	0.3	0.5	0.7 3.0 3.1
	5	1.0	1.7	3.5	3.0	3.1 3.0 F_{min}

Gap Z=0



Drilling patterns for hinge cups shown on the page 3.8 or on specific product pages for non-standard drillings.

How to mount the hinge on the door?

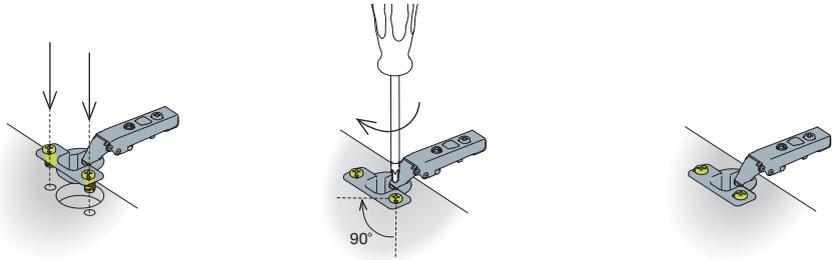
The choice of hinge cup type depends on the material of which the door is made and the chosen assembly method. The hinge can be assembled on a wooden door by fixing it with

chipboard or euro screws or inserted by machine.



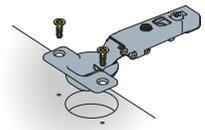
Easy-Fix Time saving system

After inserting the hinge correctly and fully, the cup is fixed by rotating the two screws clockwise (by 90°) with a PZ2 screwdriver.



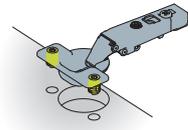
Screw fixing hinge cup

The hinge is fixed on the door with two prescribed screws.



Machine insertion ready hinge cup

Special dowels for machine insertion are pre-mounted. Two versions are available for 10mm or 8mm holes.



Concealed hinges

Information



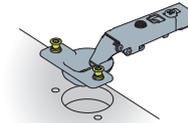
Drilling patterns for hinge cups shown **on the next page** or on specific product pages for non-standard drillings.

How to mount the hinge on the door?



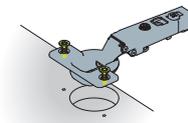
Hinge cup with pre-mounted euro screws

The hinge is fixed on the door with two pre-mounted euro screws for 5mm holes. Where not specified otherwise, euro screws are 13mm long.



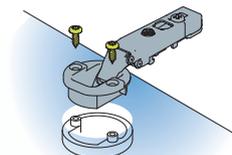
Hinge cup with pre-mounted chipboard screws

The hinge is fixed on the door with two pre-mounted chipboard screws.



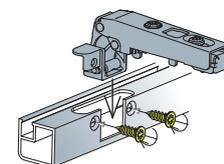
Glass door hinge cup

The hinge is fixed into one single hole on the glass door. Glass thickness must be between 4mm and 6mm.



Aluminium frame screw-on hinge cup

The hinge is fixed onto a specific drilling on the aluminium frame with two screws.



Drilling patterns for hinge cup

Interaxis is the distance between two holes for fixing screws on the hinge cup.

Other drilling patterns can be found on specific product pages.

Interaxis 45mm, 48mm and 52mm

- ST-i2 plus series
- ST-i2 series
- ST-i plus series
- ST-i series
- ST plus series
- ST series
- Basic-i2 series
- Basic-i series
- Basic series

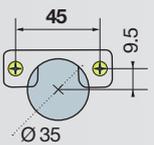
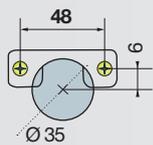
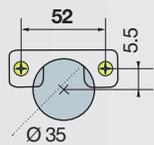
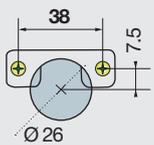
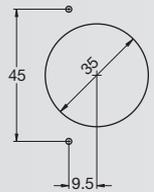
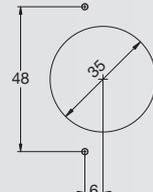
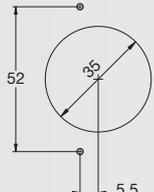
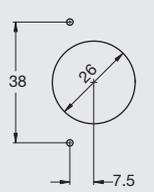
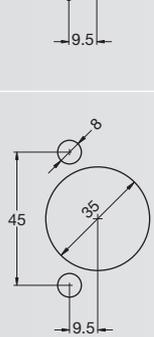
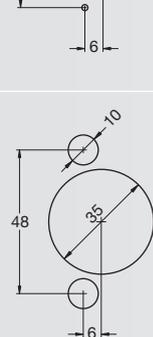
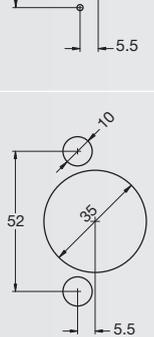
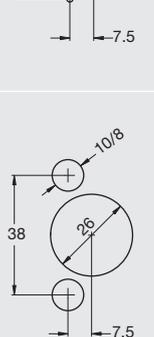
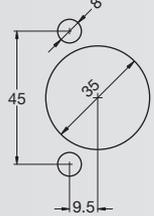
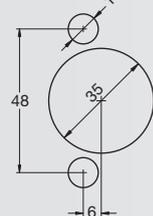
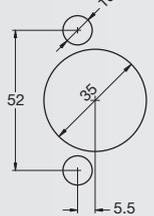
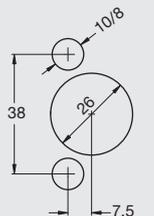
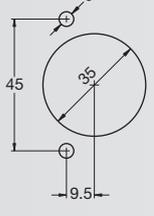
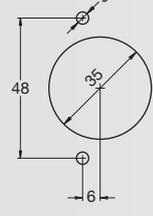
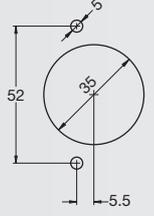
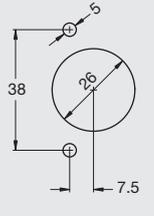
Interaxis 38mm

- Miniprimat series

Interaxis 42/11mm*

Interaxis 42mm and 52mm are optionally available with some versions, on special request.

* Available upon special request
 → see page 0.3

	Interaxis 45mm	Interaxis 48mm	Interaxis 52mm	Interaxis 38mm
Type of hinge cup	Drilling pattern 	Drilling pattern 	Drilling pattern 	Drilling pattern 
 Screw-on ready				
 Premounted chipboard screws				
 Machine insertion ready				
 Easy-fix system				
 Premounted Euro screws				

Concealed hinges

Information



Check the mounting plate drilling distance!

When fixing the mounting plate please check the drilling distance from side border. It may differ depending on mounting situation and mounting plate type. Some mounting plates can be used for both 28 or 37mm drilling distance simply by rotating.

How to fix the mounting plate on the cabinet side?

The mounting plates can be fixed on cabinet side with various methods. Euro screws are most suitable for standard 32mm drillings. Mounting plates with pre-mounted chipboard

screws, spreading dowels or 10mm dowels for machine insertion, are also available.

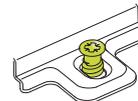
Euro screws ready mounting plate

The mounting plate is fixed with two standard 6.3mm euro screws.



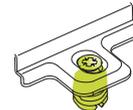
Mounting plate with pre-mounted euro screws

Euro screws for 5mm holes are pre-mounted on the mounting plate. Different screw lengths available.



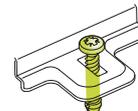
Machine insertion ready mounting plate

Dowels for machine insertion in 10mm holes are pre-mounted on the mounting plate.



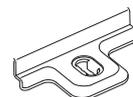
Mounting plate with pre-mounted expanding dowels

Expanding dowels for 5mm holes are pre-mounted on the mounting plate. Two lengths available: 7.5mm and 10.5mm.



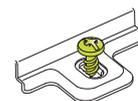
Chipboard screws ready mounting plate

The mounting plate is fixed with two prescribed chipboard screws or equivalent.



Mounting plate with pre-mounted chipboard screws

The mounting plate is fixed with two pre-mounted chipboard screws.



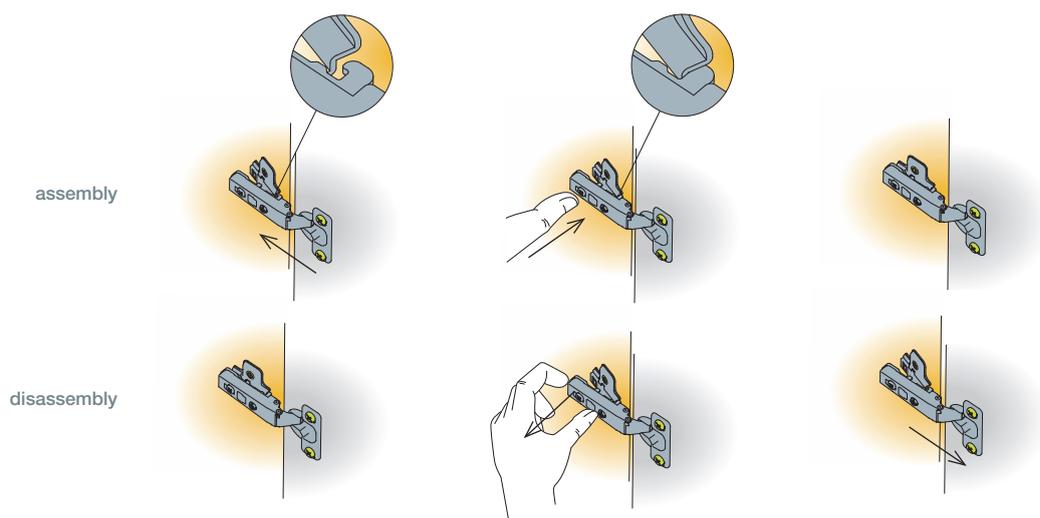
How to assemble the hinge and the mounting plate?

ST time saving system

- ST-i2 plus series
- ST-i2 series
- ST-i series
- ST plus series
- ST series

The door is assembled on the cabinet side simply by fixing the two hooks under the hinge arm on the outer part of the mounting plate and pressing gently on the rear part of the hinge arm.

For disassembly press the button on the rear of the hinge arm.

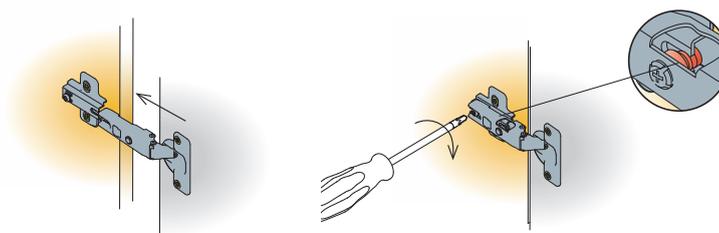


Slide-on system

- Basic-i2 series
- Basic-i series
- Basic series

The hinge is assembled by sliding the hinge arm over the mounting plate. The lower part of the horizontal set-up screw must fit correctly into the groove on the mounting plate. After

adjusting the door depth, the mounting procedure is finished by tightening the fixing screw.

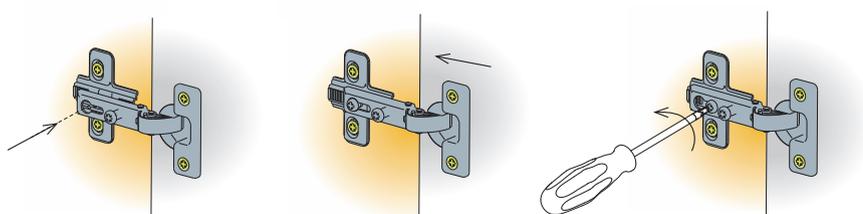


Key-hole system

- Miniprimat series
- Special hinges

The hinge is assembled on the mounting plate by inserting the fixing screw on the appropriate hole on the hinge arm. After adjusting the door

depth, the mounting procedure is finished by tightening the fixing screw.



Concealed hinges

Information

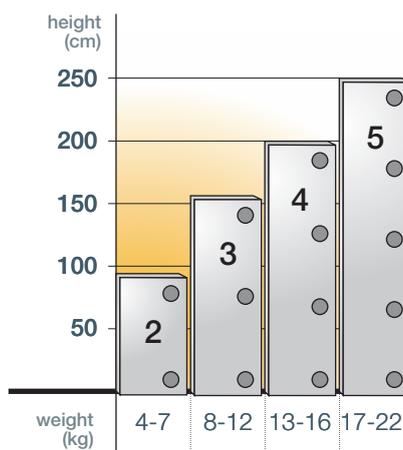
 For the furniture user's safety please use the appropriate number of hinges so that the door height or weight does not exceed that shown below.

How many hinges per door?

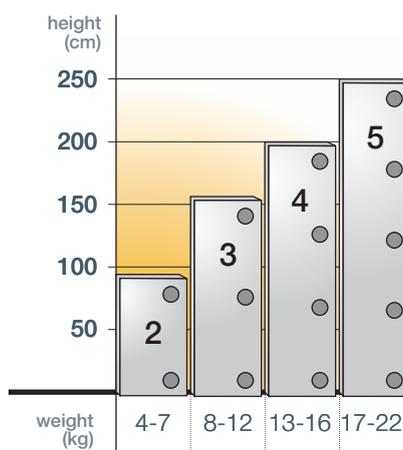
Check the enclosed specifications for the number of required hinges per door by considering both door height and weight. In case of doubt please contact Titus or your local distributor.

Concealed hinges with Ø 35mm hinge cup diameter

- ST plus series
- ST series
- Basic series
- Special hinges



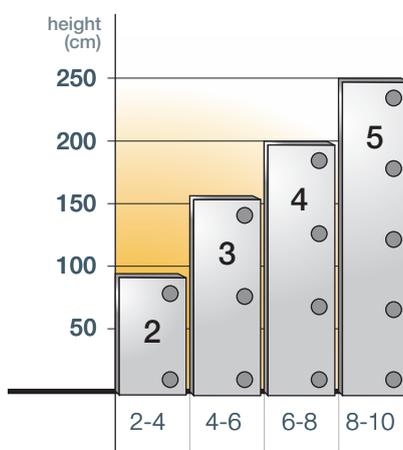
- ST-i2 plus series
- ST-i2 series
- Basic-i2 series
- ST-i plus series
- ST-i series
- Basic-i series



Hinges with integrated damping can be combined with non-damped hinges from standard hinge range. A trial mounting is always recommended. Please contact Titus for further technical assistance.

Concealed hinges with Ø 26mm hinge cup diameter

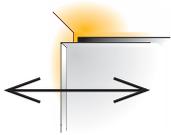
- Miniprimat series





Adjustment range can be found on the product pages.

Side adjustment

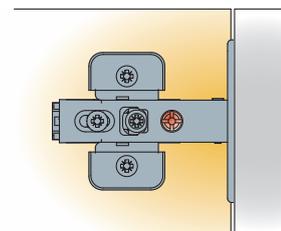
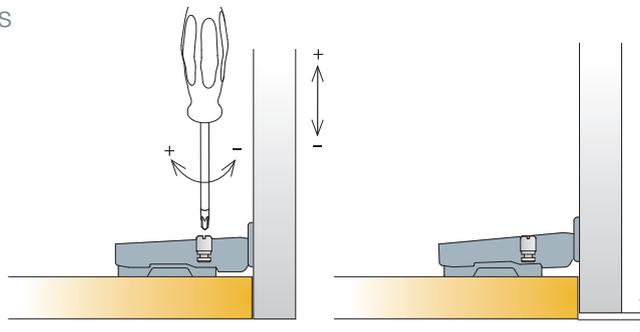


The side adjustment is indispensable to align the door with the side of the cabinet thus allowing perfect lifetime opening and closing of the door.

By rotating the appropriate screw

- ST-i2 plus series
- ST-i2 series
- ST-i plus series
- ST-i series
- ST plus series
- ST series
- Basic-i2 series
- Basic-i series
- Basic series

The side adjustment is made by rotating the appropriate screw on the hinge arm.



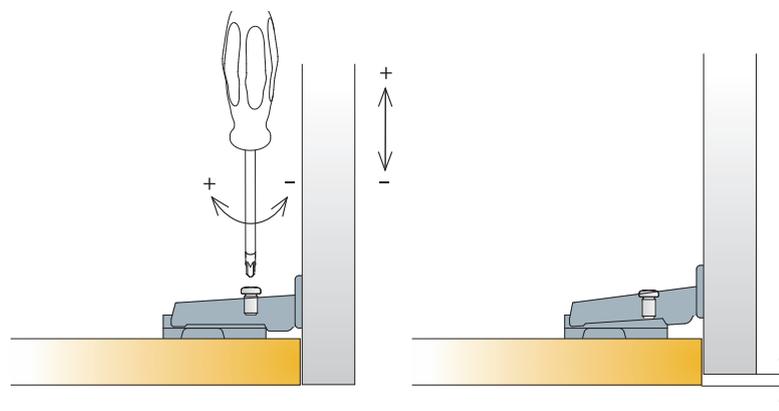
Adjustment range

By temporarily releasing the fixing screw

- Miniprimat series
- Wide angle hinge

For the side adjustment:

1. Release the fixing screw
 2. Make the necessary adjustment by rotating the appropriate screw
 3. Tighten the fixing screw
- Without releasing the fixing screw no side adjustment is possible.

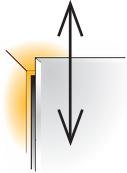


Adjustment range

Concealed hinges

Information

Height adjustment

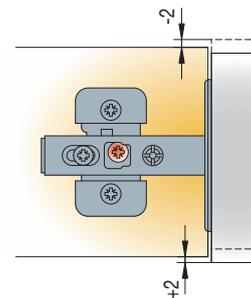
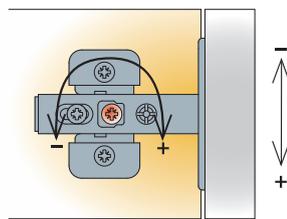


Height adjustment is necessary to achieve perfect vertical door position that emphasises the accuracy of manufacture.

By rotating the cam adjuster

- ST-i2 plus, ST-i2, ST-i plus, ST-i, ST plus and ST series with cam adjustable mounting plate

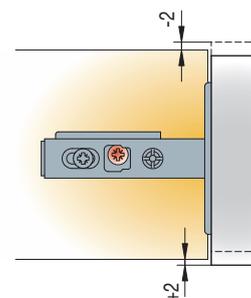
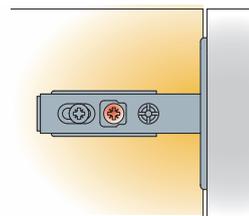
The height adjustment is made by rotating the cam adjuster on the mounting plate.



Manual adjustment by releasing the adjustment screw

- ST-i2 plus, ST-i2, ST-i plus, ST-i, ST plus and ST series with horizontal mounting plate

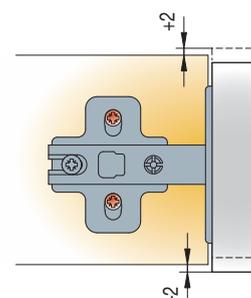
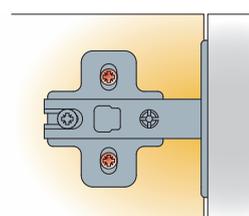
For height adjustment the adjustment screw has to be temporarily released during manual adjustment.



By releasing the fixing screws of mounting plate

- ST-i2 plus, ST-i2, ST-i plus, ST-i, ST plus and ST series without cam-adjustable cruciform mounting plates
- Basic series
- Miniprimat series
- Wide angle hinge

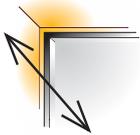
For height adjustment the two mounting plate fixing screws have to be temporarily released while making the manual adjustment.





Adjustment range can be found on the product pages.

Depth adjustment



The system enables easy adjustment of the door depth to assure that the door fits well on the side of the cabinet.

By rotating the cam adjuster

The adjustment is made by rotating the cam adjuster on the hinge arm.

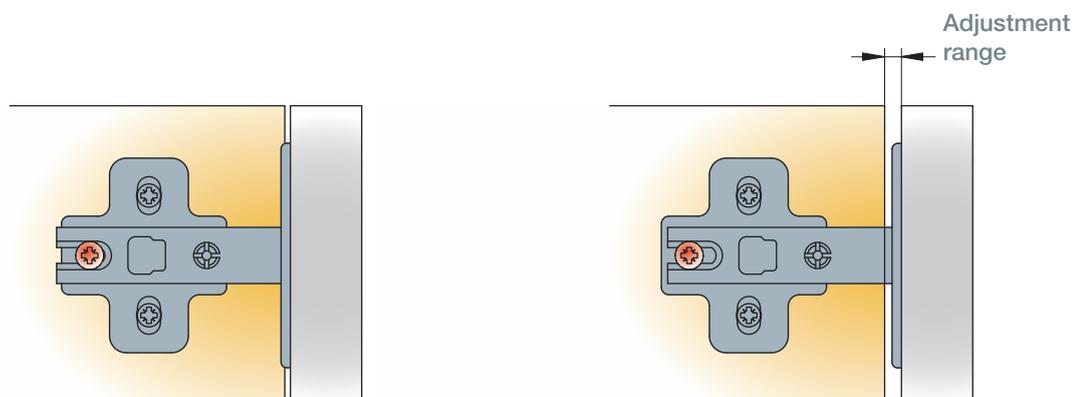
- ST-i2 plus series
- ST-i plus series
- ST plus series



By releasing the fixing or adjustment screw

The depth adjustment is made by temporarily releasing the adjustment screw (ST series) or fixing screw (Basic series). After the adjustment is made the screw has to be re-tightened.

- ST-i2 plus series
- ST-i series
- ST series
- Basic-i series
- Basic series
- Miniprimat



Concealed hinges

Information

Titus recommends!

Most of Titus hinges can be combined with soft closing devices giving silent closing motion.
 →see pages 2.11-2.16 for details



Soft closing devices can not be used with free-swinging door hinges.

Door closing systems

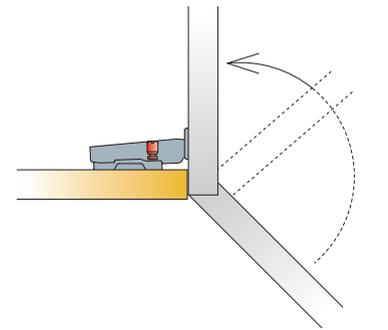
There are three types of door closing systems:

self - closing ←
 free - swinging ·····

Concealed hinges with limited self-closing angle

- ST-i2 plus series
- ST-i2 series
- ST-i plus series
- ST-i series
- ST plus series
- ST series
- Basic-i2 series
- Basic-i series
- Basic series

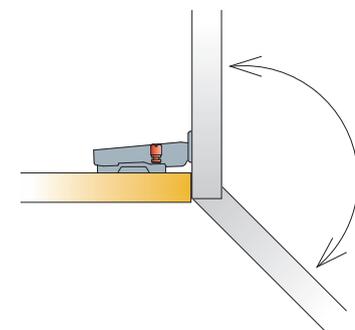
The self-closing angle is the point from which the door will close by itself, without user assistance. The mechanism starts closing the door from a 14° to 25° angle, depending on the concealed hinge type. From that point to the maximum opening angle the door remains in an open position.



Two-positions self-closing concealed hinges

- Miniprimat series

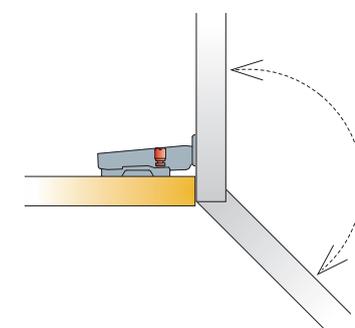
The door can only be in two positions: closed or fully opened. The closing mechanism does not allow intermediate open door positions unless the door is held.



Free-swinging door hinges *

- all series

Optionally most of Lama concealed hinges can be supplied without self-closing mechanism. These hinges are not presented in this catalogue but may be ordered upon request. Please contact Lama or your distributor for item order numbers and technical assistance.



* Available upon special request

→ see page 0.3

Titus damping solutions

Hinges with integrated damping

Key design choices

Damping in the hinge cup

Damper is positioned transversal on the hinge cup

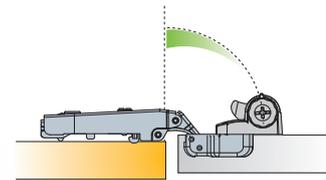
- Allows for an easy and quick introduction of various hinge versions: ST 'snap-on' and Basic 'slide-on' with different hinge arm crankings and angles
- Standard hinge cup drilling depths: requires no changes in drillings for hinge cup
- Standard mounting plates



Adjustable damping force

Flexibility to 'tune' performance for all applications

- Optimal damping on various door weights and sizes
- Intuitive and quick adjustment
- Easily accessible adjustment button



Adjustable damping zone and force

Titus hydraulic damper

Titus hydraulic damper, designed and produced in-house

- Reliable and consistent life-long damping
- Minimum damper rebound
- Dampers' consistency over high volume production runs assured

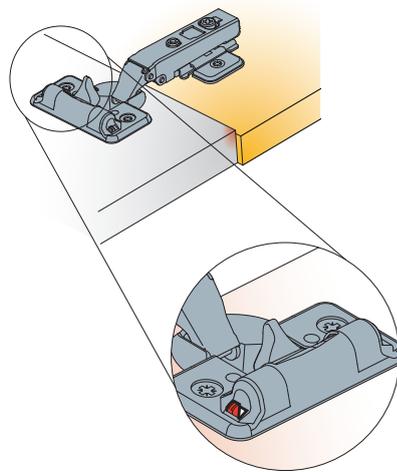


Titus damping solutions

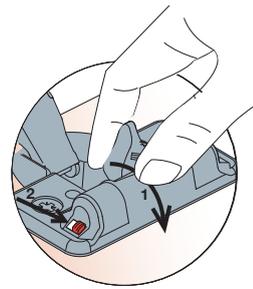
Hinges with integrated damping

Adjustment of the damping

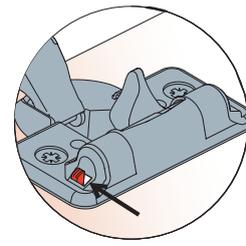
ST-i plus series
ST-i series
Basic-i series



The damping reduction switch is in a pre-set position.



To decrease the damping
1. Lift the damping activator.
2. Slide the damping reduction switch to opposite position.

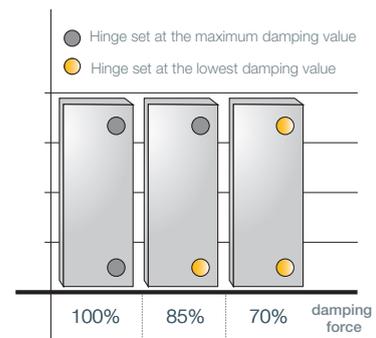


To increase the damping, slide the damping reduction switch back to the factory pre-set position.

To decrease or to increase the damping, change the position of the damping reduction switch. Hinges are factory pre-set to the maximum damping value.

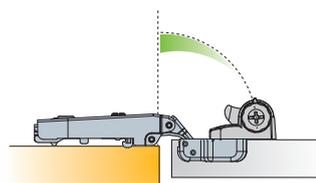
Damping force change

The damping reduction switch adjusts the damping. Example shows the damping change in case of two hinges on door.

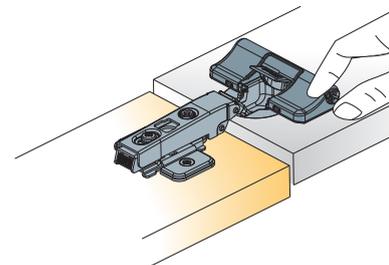


ST-i2 plus series
ST-i2 series
Basic-i 2 series

The damping action can be adjusted to fit different door weights which enables perfect door functioning.



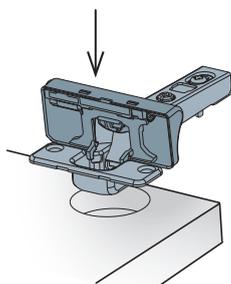
Adjustable damping zone



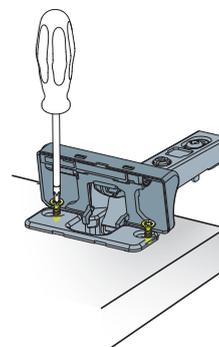
Turn towards '+' to increase and '-' to decrease the damping

How to mount ST-i2 / Basic-i2 hinges?

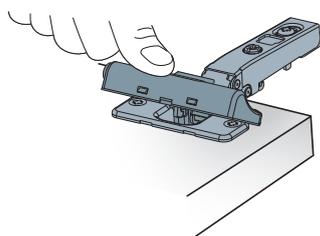
- ST-i2 plus series
- ST-i2 series
- Basic-i2 series



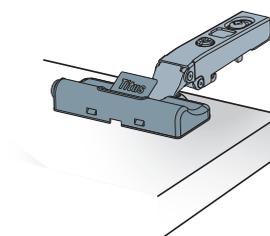
Insert Basic-i 2 / ST-i 2 hinge into the hinge cup hole.



Fix the hinge cup.



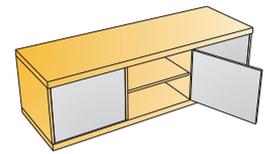
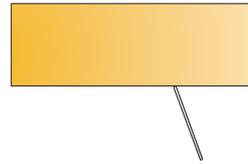
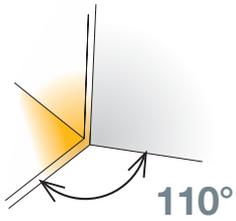
Snap the soft closing mechanism to the hinge cup.



ST-i2 plus 110

2nd Generation

For wooden doors



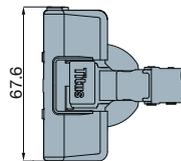
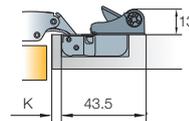
- Opening angle 110°
- Drilling diameter for hinge cup 35mm
- Drilling depth min. 11mm
- Hinge on plate mounting system ST



Technical details

Cup type	Interaxis 45mm	Interaxis 48mm	Interaxis 52mm
	 Ø35 Item number: 954.0695.050	 Ø35 Item number: 954.0807.050	 Ø35 Item number: 954.0214.050
	 Ø35 Item number: 954.0212.050	 Ø35 Item number: 954.0213.050	 Ø35 Item number: 954.0273.050

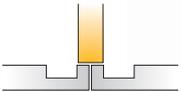
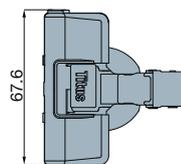
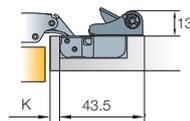
Cranking 0mm



100 Pcs

Made of steel and plastic

Cranking 9mm



100 Pcs

Made of steel and plastic

Mounting plates



Steel mounting plates
→ see page 3.34



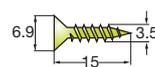
Zinc diecast mounting plates
→ see page 3.34



Steel mounting plates with cam adjustable height
→ see page 3.34

Hinge cup screws

If not pre-mounted



820.6308.050

10000 Pcs



Accessories



Cover caps for hinge arm

248.1646.050

4000 Pcs

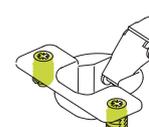
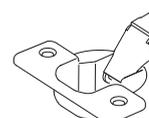
Legend of hinge cup symbols



Screw-on ready
← screws

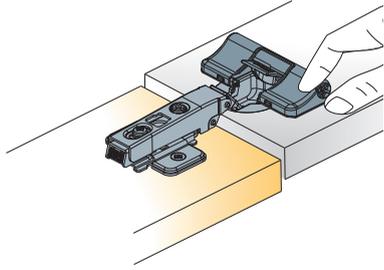


Machine insertion ready

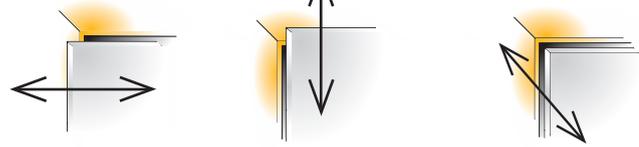


Damping adjustment

Turn towards '+' to increase and towards '-' to decrease the damping



Door adjustment



Side adjustment
+3/-1mm

Height adjustment
+2/-2mm

Depth adjustment
+1.5/-1.5mm

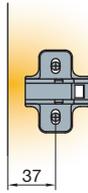
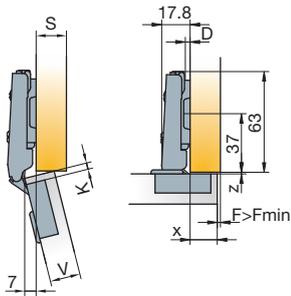
For further explanation → see page 3.19

For further explanation → see pages 3.14 - 3.16

Mounting details

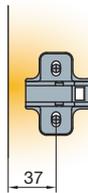
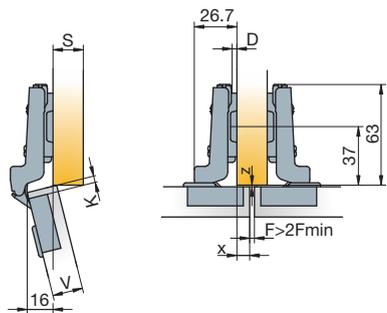
Mounting plate drilling distance

Mounting plate thickness table
For further explanation → see page 3.7



x	13	14	15	16	17	18
3	3	2	1	0		
K 4		3	2	1	0	
5			3	2	1	0 D

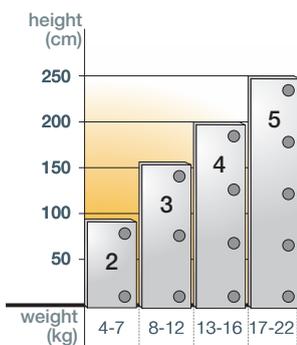
Drawings show application on D=0mm thick mounting plate



x	4	5	6	7	8	9
3	3	2	1	0		
K 4		3	2	1	0	
5			3	2	1	0 D

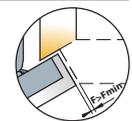
Drawings show application on D=0mm thick mounting plate

Recommended number per door and positioning



For further explanation → see page 3.13

Door clearance
For further explanation → see page 3.7

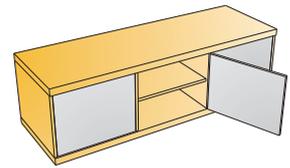
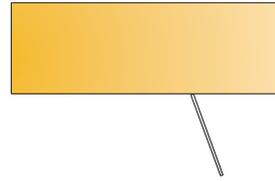
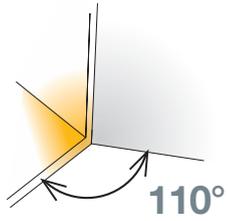


V	16	17	18	19	20	21	22
3	0.3	0.5	0.7	1.0	1.3	1.7	2.5
K 4	0.3	0.5	0.7	0.9	1.2	1.6	2.1
5	0.3	0.5	0.7	0.9	1.2	1.5	2.0 F _{MIN}

Gap Z_{MIN}=0

ST plus 110

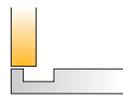
For wooden doors



	Interaxis 45mm	Interaxis 48mm	Interaxis 52mm
Cup type	Item number	Item number	Item number

Cranking

0mm



200 Pcs

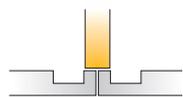
Made of steel

	248.0T10.050	248.0T70.050	
	248.0T13.050	248.0T71.050	248.0T94.050
	248.0T69.050	248.0T72.050	248.0T95.050

Drilling patterns for hinge cups → see page 3.7

Cranking

9mm



200 Pcs

Made of steel

	248.0V69.050	248.0V71.050	
	248.0V70.050	248.0V72.050	248.0274.050
	248.0V56.050		248.0275.050

Drilling patterns for hinge cups → see page 3.7

Mounting plates



Steel mounting plates
→ see page 3.34

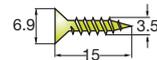


Zinc diecast mounting plates
→ see page 3.34



Steel mounting plates with cam adjustable height
→ see page 3.34

Hinge cup screws
If not pre-mounted



820.6308.050

10000 Pcs



Legend of hinge cup symbols



Screw-on ready
← screws



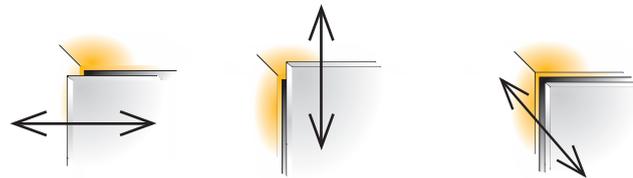
Machine insertion ready



Easy-fix system



- Opening angle 110°
- Drilling diameter for hinge cup 35mm
- Drilling depth 11.5mm
- Hinge on plate mounting system ST



Side adjustment
+3/-1mm

Height adjustment
+2/-2mm

Depth adjustment
+1.5/-1.5mm

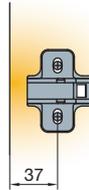
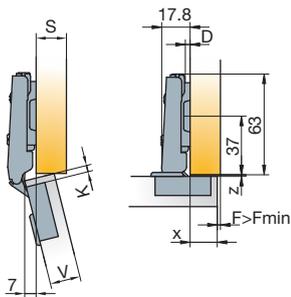
- Quick, comfortable and precise depth adjustment

For further explanation → see pages 3.14 - 3.16

Mounting details

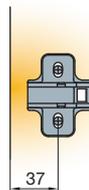
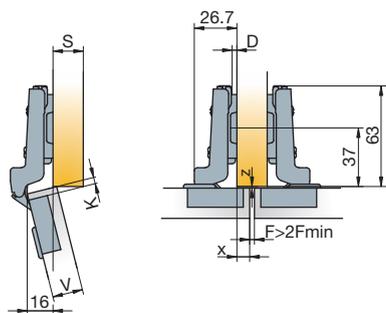
Mounting plate drilling distance

Mounting plate thickness table
For further explanation → see page 3.7



x	13	14	15	16	17	18
3	3	2	1	0		
K 4		3	2	1	0	
5			3	2	1	0 D

Drawings show application on D=0mm thick mounting plate



x	4	5	6	7	8	9
3	3	2	1	0		
K 4		3	2	1	0	
5			3	2	1	0 D

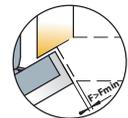
Drawings show application on D=0mm thick mounting plate

Soft closing systems

Accessories

Door clearance

For further explanation → see page 3.7



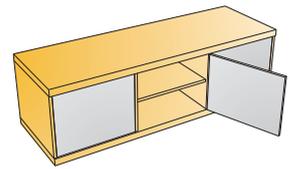
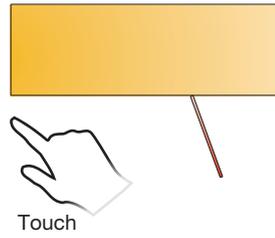
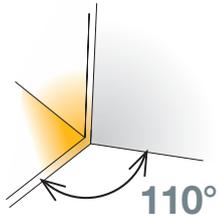
V	16	17	18	19	20	21	22
3	0.3	0.5	0.7	1.0	1.3	1.7	2.5
K 4	0.3	0.5	0.7	0.9	1.2	1.6	2.1
5	0.3	0.5	0.7	0.9	1.2	1.5	2.0 F _{MIN}

Gap Z_{MIN}=0

ST plus 110

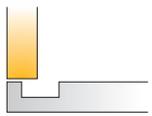
Touch opening

For wooden doors without handles



Cup type	Interaxis 45mm	Interaxis 48mm	Interaxis 52mm
	Item number	Item number	Item number

Cranking
0mm



200 Pcs

Made of steel

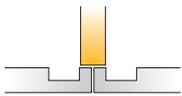


915.0Z85.050

915.0Z96.050

Drilling patterns for hinge cups → see page 3.7

Cranking
9mm



200 Pcs

Made of steel



915.0007.050

Drilling patterns for hinge cups → see page 3.7

Catches



100 Pcs

Made of plastic

Catch	915.7102.380
Catch with base plate	915.7110.380
Knock-in pad	915.7109.050
Self adhesive pad	915.7105.050

Mounting plates



Steel mounting plates
→ see page 3.34

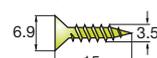


Zinc diecast mounting plates
→ see page 3.34



Steel mounting plates with cam adjustable height
→ see page 3.34

Hinge cup screws
If not pre-mounted



820.6308.050

10000 Pcs

Legend of hinge cup symbols

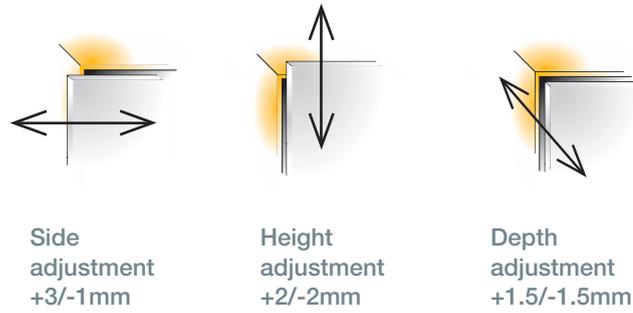


Screw-on ready
← screws



- Opening angle 110°
- Drilling diameter for hinge cup 35mm
- Drilling depth 11.5mm
- Hinge on plate mounting system ST

- Hinge integrated self-opening mechanism
- Effortless opening with just a light touch



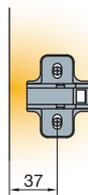
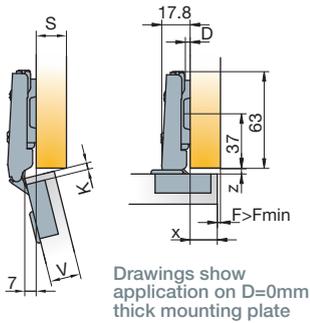
For further explanation → see pages 3.14 - 3.16

Mounting details

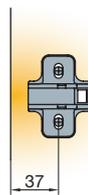
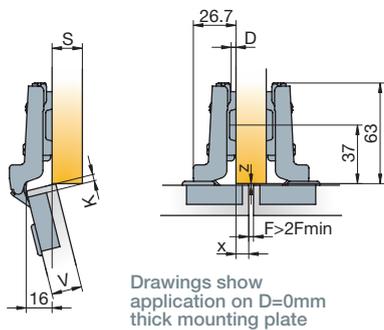
Mounting plate drilling distance

Mounting plate thickness table

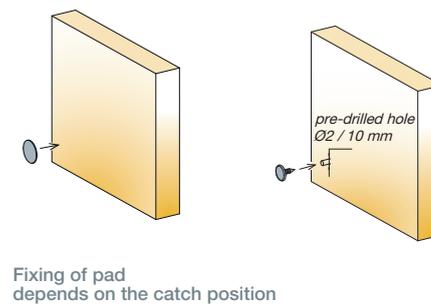
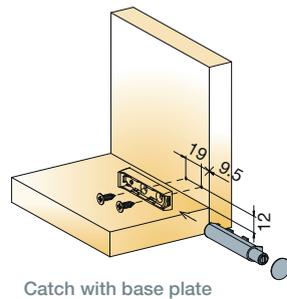
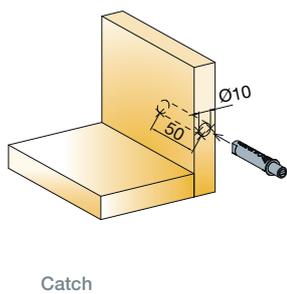
For further explanation → see page 3.7



x	13	14	15	16	17	18
3	3	2	1	0		
K	4	3	2	1	0	
5			3	2	1	0



x	4	5	6	7	8	9
3	3	2	1	0		
K	4	3	2	1	0	
5			3	2	1	0

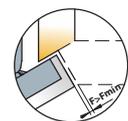


Accessories

Cover caps for hinge arm
 248.1646.050
 4000 Pcs

Door clearance

For further explanation → see page 3.7

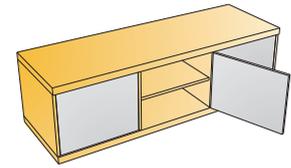
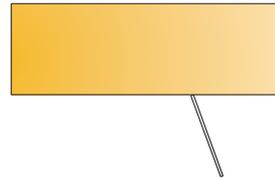
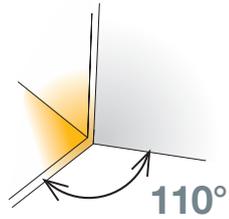


V	16	17	18	19	20	21	22
3	0.3	0.5	0.7	1.0	1.3	1.7	2.5
K	4	0.3	0.5	0.7	0.9	1.2	1.6
5	0.3	0.5	0.7	0.9	1.2	1.5	2.0

Gap Z_{MIN}=0

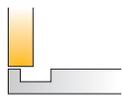
ST 110

For wooden doors



	Interaxis 45mm	Interaxis 48mm	Interaxis 52mm
Cup type	Item number	Item number	Item number

Cranking
0mm



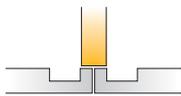
200 Pcs

Made of steel

	248.0532.050		
	248.0172.050	248.0184.050	

Drilling patterns for hinge cups → see page 3.7

Cranking
9mm



200 Pcs

Made of steel

			248.0401.050
			248.0549.050

Drilling patterns for hinge cups → see page 3.7

Cranking
15mm



200 Pcs

Made of steel

	248.0537.050		
	248.0280.050	248.0328.050	248.0402.050
	248.0487.050	248.0547.050	248.0551.050

Drilling patterns for hinge cups → see page 3.7

Mounting plates



Steel mounting plates
→ see page 3.34

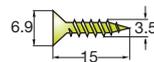


Zinc diecast mounting plates
→ see page 3.34



Steel mounting plates with cam adjustable height
→ see page 3.34

Hinge cup screws If not pre-mounted



820.6308.050

10000 Pcs



Legend of hinge cup symbols



Screw-on ready
← screws



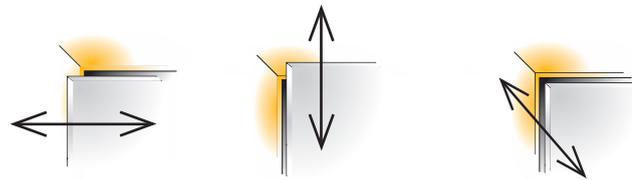
Machine insertion ready



Easy-fix system



- Opening angle 110°
- Drilling diameter for hinge cup 35mm
- Drilling depth 11.5mm
- Hinge on plate mounting system ST



Side adjustment
+3/-1mm

Height adjustment
+2/-2mm

Depth adjustment
+5/-1.5mm

- Quick and practical assembly on the hinge and mounting plate by pressing gently on the rear part of the hinge arm
- One button disassembly

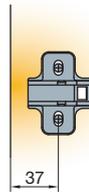
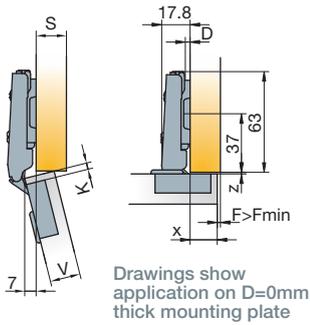
For further explanation → see pages 3.14 - 3.16

Mounting details

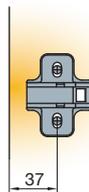
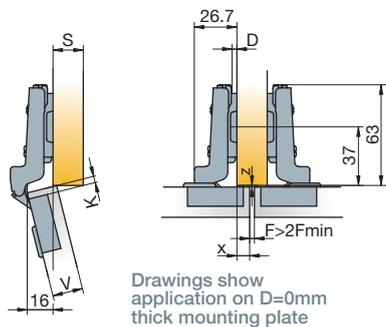
Mounting plate drilling distance

Mounting plate thickness table

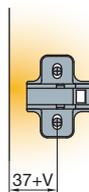
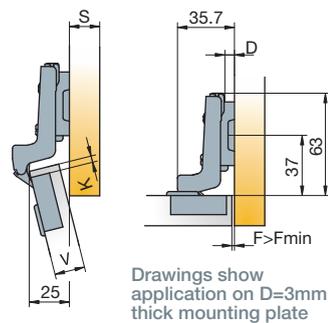
For further explanation → see page 3.7



x	13	14	15	16	17	18
3	3	2	1	0		
K	4	3	2	1	0	
5			3	2	1	0 D



x	4	5	6	7	8	9
3	3	2	1	0		
K	4	3	2	1	0	
5			3	2	1	0 D



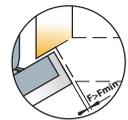
V	16	17	18	19	20	21
3	2	2	2	3	3	3
K	4	3	3			
5	3					

Soft closing systems

Accessories

Door clearance

For further explanation → see page 3.7

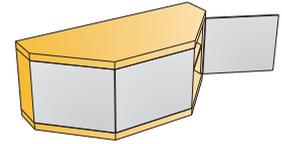
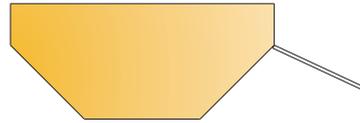
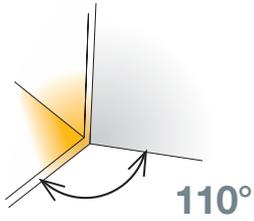


V	16	17	18	19	20	21	22
3	0.3	0.5	0.7	1.0	1.3	1.7	2.5
K	4	0.3	0.5	0.7	0.9	1.2	1.6 2.1
5	0.3	0.5	0.7	0.9	1.2	1.5	2.0 F _{MIN}

Gap Z_{MIN}=0

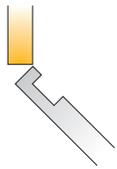
ST 110/45°

45° angled application for wooden doors



	Interaxis 45mm	Interaxis 48mm	Interaxis 52mm
Cup type	Item number	Item number	Item number
	248.0285.050		
	248.0N20.050		248.0291.050
	248.0P21.050	248.0P64.050	248.0Z78.050

Cranking
18mm



Drilling patterns for hinge cups → see page 3.7

100 Pcs

Cup made of steel, arm made of zinc

Mounting plates



Steel mounting plates
→ see page 3.34

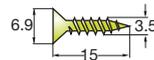


Zinc diecast mounting plates
→ see page 3.34



Steel mounting plates with cam adjustable height
→ see page 3.34

Hinge cup screws If not pre-mounted



820.6308.050

10000 Pcs

Legend of hinge cup symbols



Screw-on ready
← screws



Machine insertion ready

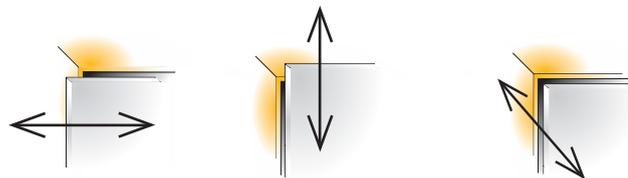


Easy-fix system



- Opening angle
- Drilling diameter for hinge cup
- Drilling depth
- Hinge on plate mounting system

110°
35mm
11.5mm
ST



Side adjustment
+3/-1mm

Height adjustment
+2/-2mm

Depth adjustment
+5/-1.5mm

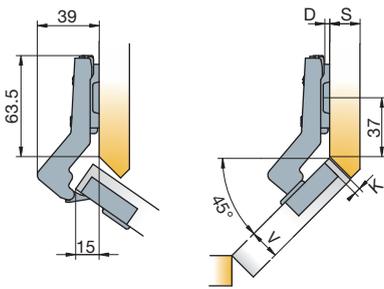
For further explanation → see pages 3.14 - 3.16

Mounting details

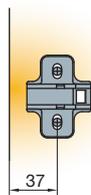
Mounting plate drilling distance

Mounting plate thickness table

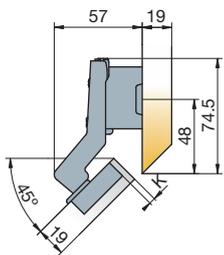
For further explanation → see page 3.7



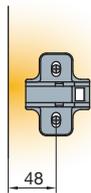
Drawings show application on D=0mm thick mounting plate



K	3	4	5
D	0	1	2



Drawings show application on D=18mm thick mounting plate



Soft closing systems

Accessories

Door clearance

For further explanation → see page 3.7



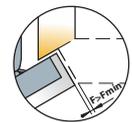
Glissando TL
→ see page 2.11



Cover caps for hinge arm
248.1646.050
4000 Pcs



Push latch
→ see page 3.37

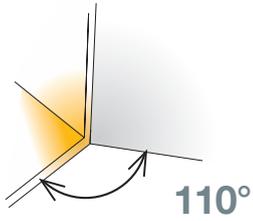
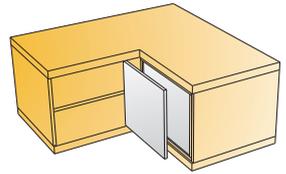


V	16	17	18	19	20	21	22	
3	0.3	0.5	0.7	1.0	1.3	1.7	2.5	
K	4	0.3	0.5	0.7	0.9	1.2	1.6	2.1
5	0.3	0.5	0.7	0.9	1.2	1.5	2.0	F _{MIN}

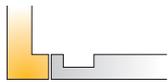
Gap Z_{MIN}=0

ST 110/90°

For wooden door cabinets with blind panels



Cranking
18mm



	Interaxis 45mm	Interaxis 48mm	Interaxis 52mm
Cup type	Item number	Item number	Item number
	248.0745.050	248.0742.050	
	248.0N24.050	248.0N25.050	248.0N26.050
	248.0L61.050	248.0N62.050	248.0Z81.050

Drilling patterns for hinge cups → see page 3.7

100 Pcs

Cup made of steel, arm made of zinc

Mounting plates



Steel mounting plates
→ see page 3.34

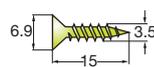


Zinc diecast mounting plates
→ see page 3.34



Steel mounting plates with cam adjustable height
→ see page 3.34

Hinge cup screws If not pre-mounted



820.6308.050

10000 Pcs

Legend of hinge cup symbols



Screw-on ready
← screws



Machine insertion ready

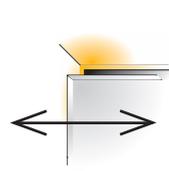


Easy-fix system

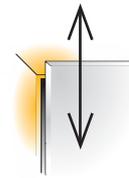


- Opening angle
- Drilling diameter for hinge cup
- Drilling depth
- Hinge on plate mounting system

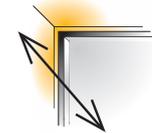
110°
35mm
11.5mm
ST



Side adjustment
+3/-1mm



Height adjustment
+2/-2mm

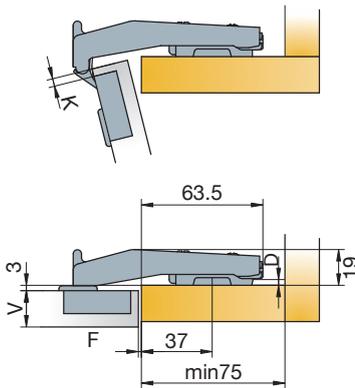


Depth adjustment
+5/-1.5mm

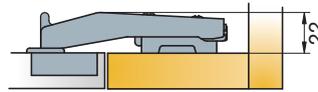
For further explanation → see pages 3.14 - 3.16

Mounting details

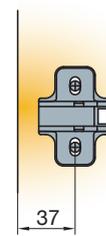
Mounting plate drilling distance



Drawings show application on D=0mm thick mounting plate



Drawings show application on D=3mm thick mounting plate



Soft closing systems



Glissando TL
→ see page 2.11

Accessories



Cover caps for hinge arm
248.1646.050
4000 Pcs



Push latch
→ see page 3.37

Door clearance

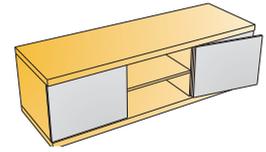
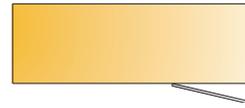
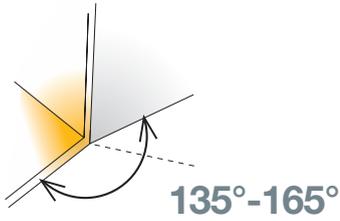
For further explanation → see page 3.7



V	16	17	18	19	20	21	22	
3	0.3	0.5	0.7	1.0	1.3	1.7	2.5	
K	4	0.3	0.5	0.7	0.9	1.2	1.6	2.1
5	0.3	0.5	0.7	0.9	1.2	1.5	2.0	F _{MIN}

ST 170

For wooden doors



	Interaxis 45mm	Interaxis 48mm	Interaxis 52mm
Cup type	Item number	Item number	Item number

Cranking

0mm



50 Pcs

Made of steel and zinc

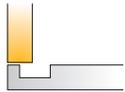
	248.0R14.050	248.0R17.050	
	248.0M73.050	248.0R13.050	248.0M74.050
	248.0S17.050	248.0S18.050	248.0S19.050

Drilling patterns for hinge cups → see page 3.7

Cranking

0mm

With adjustable opening angle



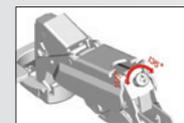
50 Pcs

Made of steel and zinc

	248.0R18.050	*248.0V65.050	
		*248.0S69.050	

Drilling patterns for hinge cups → see page 3.7

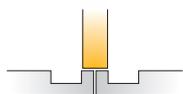
* Available upon special request → see page 0.3



Adjustable opening angle

Cranking

9mm



50 Pcs

Made of steel and zinc

	248.0162.050	248.0163.050	
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Drilling patterns for hinge cups → see page 3.7

Mounting plates



Steel mounting plates
→ see page 3.34

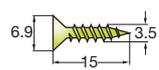


Zinc diecast mounting plates
→ see page 3.34



Steel mounting plates with cam adjustable height
→ see page 3.34

Hinge cup screws
If not pre-mounted



820.6308.050

10000 Pcs



Legend of hinge cup symbols



Screw-on ready
← screws



Machine insertion ready

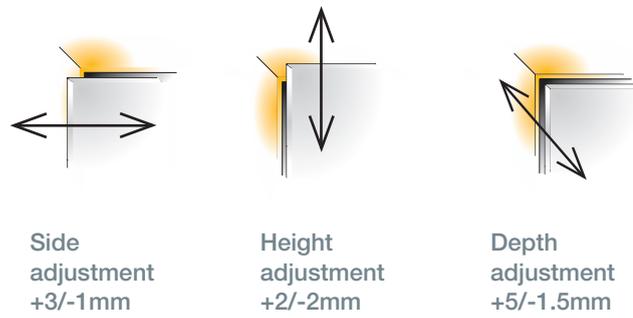


Easy-fix system



- Opening angle 135°-165°
- Drilling diameter for hinge cup 35mm
- Drilling depth 12mm
- Hinge on plate mounting system ST

- Enables better accessibility into cabinet interior due to the wider opening angle
- Opening angle can be easily adjusted by rotating the appropriate screw on the hinge arm



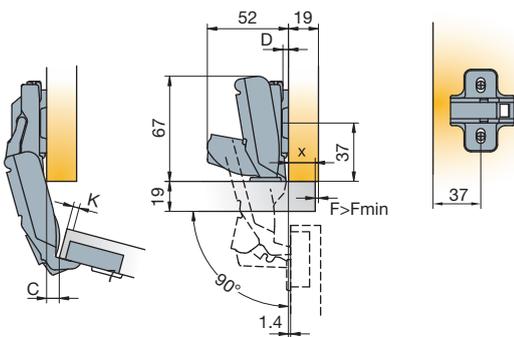
For further explanation → see pages 3.14 - 3.16

Mounting details

Mounting plate drilling distance

Mounting plate thickness table

For further explanation → see page 3.7



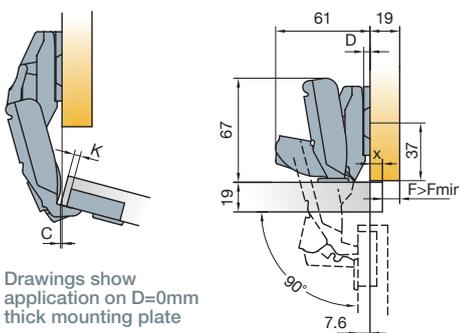
Drawings show application on D=0mm mounting plate

In 90° position the door is only 1.4mm distant from side panel

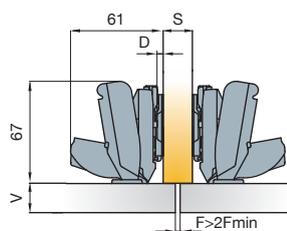
X	10	11	12	13	14	15	16	17	18	19	20
3	6	5	4	3	2	1	0				
K	4	6	5	4	3	2	1	0			
	5		6	5	4	3	2	1	0		
	6			6	5	4	3	2	1	0	
	7				6	5	4	3	2	1	0

C value with D=0 mounting plates

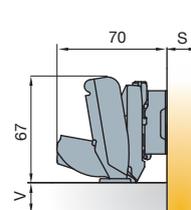
K	3	4	5	6	7
C	-9.0	-8.1	-7.1	-6.1	-5.2



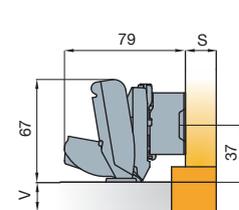
Drawings show application on D=0mm thick mounting plate



Drawings show application on D=0mm thick mounting plate



Drawings show application on D=9mm thick mounting plate



Drawings show application on D=18mm thick mounting plate.

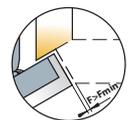
Soft closing systems

 Glissando 170
→ see page 2.13

 Glissando CR
→ see page 2.15

Door clearance
For further explanation → see page 3.7

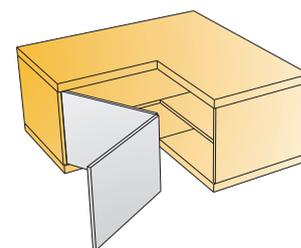
V	16	17	18	19	20	21	22	23	24
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
K	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1



Gap Z_{MIN}=0.5

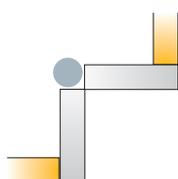
ST for pie-cut corner cabinet

For wooden doors



	Interaxis 45mm	Interaxis 48mm	Interaxis 52mm
Cup type	Item number	Item number	Item number
	248.0U21.050	248.0U16.050	
	248.0U22.050	248.0V15.050	248.0Z20.050
	248.0V29.050	248.0Z29.050	248.0Z80.050

Corner cabinet



Drilling patterns for hinge cups → see page 3.7

100 Pcs

Cup made of steel, arm made of zinc

Mounting plates



Steel mounting plates
→ see page 3.34



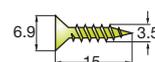
Zinc diecast mounting plates
→ see page 3.34



Steel mounting plates with cam adjustable height
→ see page 3.34

Hinge cup screws

If not pre-mounted



820.6308.050



10000 Pcs

Legend of hinge cup symbols



Screw-on ready
← screws



Machine insertion ready

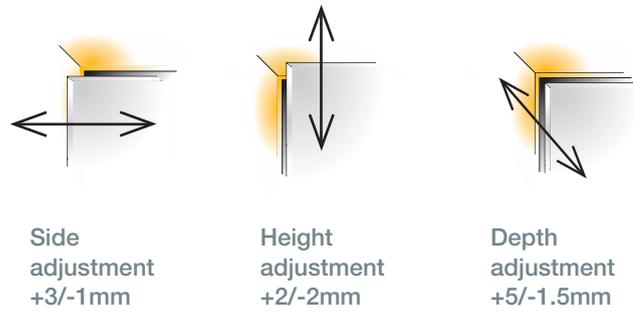


Easy-fix system



- Opening angle 110°
- Drilling diameter for hinge cup 35mm
- Drilling depth 11.5mm
- Hinge on plate mounting system ST

- Standard drilling for hinge and mounting plate
- Hinge integrated adjustment

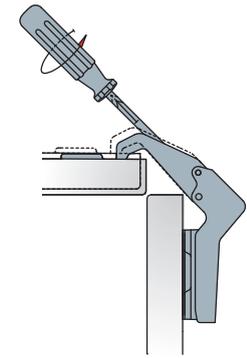
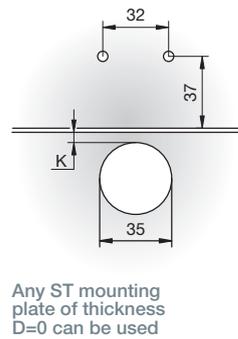
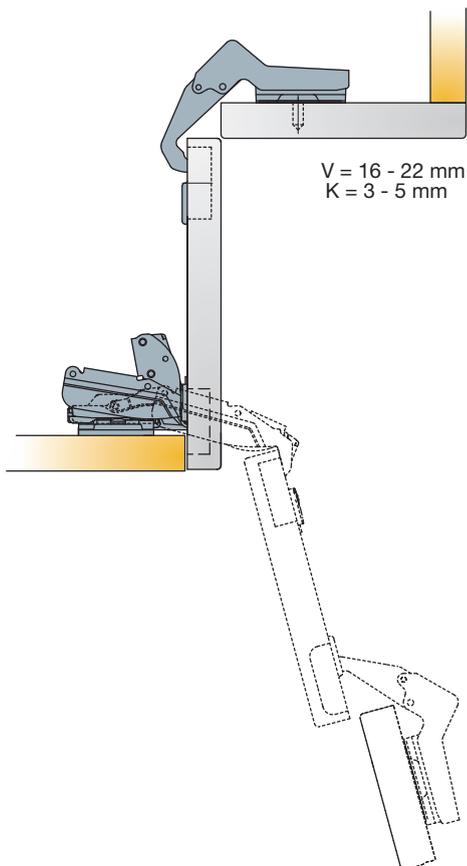


For further explanation → see pages 3.14 - 3.16

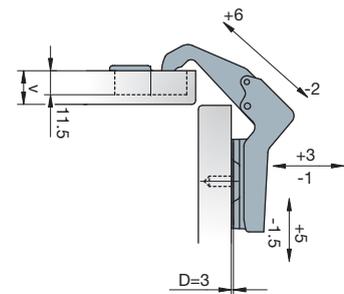
Mounting details

Drilling details

Adjustments



The diagonal adjustment is made by rotating the appropriate screw as shown on the drawing



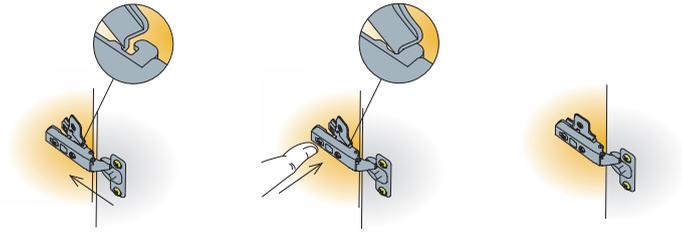
Accessories

- Cover caps for hinge arm 248.1646.050
- 4000 Pcs

ST

Mounting plates

For ST free, ST plus and ST concealed hinges



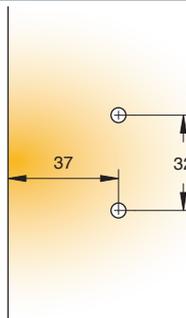
Steel mounting plates with cam adjustable height



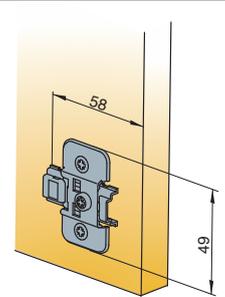
200 Pcs

Made of steel

Drilling pattern



Dimensions

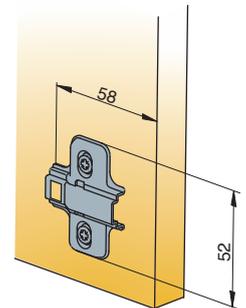
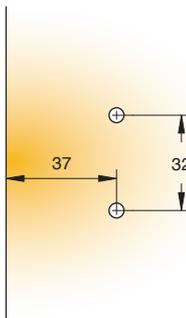


Steel mounting plates



200 Pcs

Made of steel

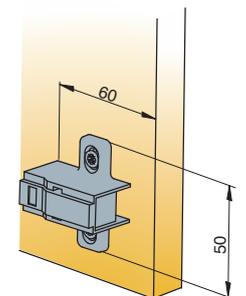
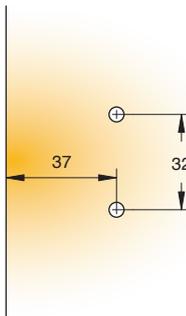


Zinc diecast mounting plates

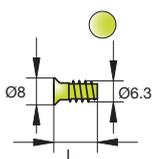


200 Pcs

Made of zinc

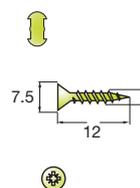


Fixing screws for mounting plates
If not pre-mounted



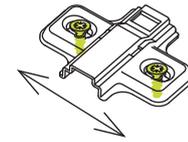
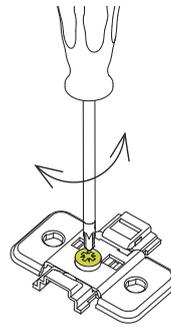
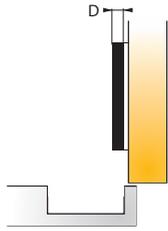
Euro screws
821.6304.050 L=11
821.6323.050 L=13
821.6332.050 L=15

5000 Pcs



Chipboard screws
820.6328.050

10000 Pcs



Mounting plate thickness

Cam adjustable mounting plate +/- 2mm

Height adjustment +/- 2mm

Mounting plate type								
Mounting plate thickness (D)								
Item number								
0mm	244.0R22.050			244.0P71.050	244.0S92.050	*244.0P68.050	*244.0P77.050	244.0S43.050
2mm	244.0R23.050			244.0P72.050	244.0S95.050	*244.0P69.050	*244.0P78.050	244.0S44.050
3mm	244.0R24.050			244.0P73.050	244.0S96.050	*244.0P70.050	*244.0P79.050	244.0S45.050

* Available upon special request → see page 0.3

0mm	244.1136.050	*244.1233.050	244.0Z26.050	244.0134.050	244.0118.050	*244.0136.050	*244.0166.050	244.0P26.050
1mm	244.1137.050	*244.1228.050		244.0561.050		*244.0565.050	*244.0567.050	
2mm	244.1138.050	*244.1229.050	244.0Z63.050	244.0562.050	244.0120.050	*244.0566.050	*244.0568.050	244.0V19.050
3mm	244.1139.050	*244.1234.050		244.0135.050	244.0119.050	*244.0137.050	*244.0167.050	244.0P27.050
6mm	244.1645.050				244.0Z51.050			

* Available upon special request → see page 0.3

* Mounting plates with pre-mounted 7.5mm expanding dowels available upon special request → see page 0.3

9mm	244.3651.650			244.0M33.650	244.0P29.650			
18mm	244.3016.650			244.0085.650	244.0095.650			

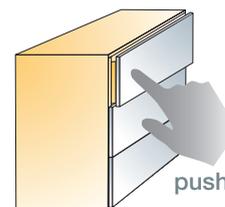
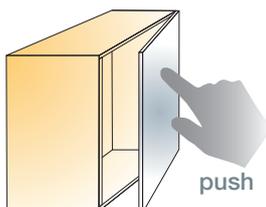
* Available upon special request → see page 0.3

Legend of mounting plate type symbols

Screw on ready for euro screws ← screws	Screw-on ready for chipboard screws	Pre-mounted 11mm euro screws	Pre-mounted 13mm euro screws	Pre-mounted 15mm euro screws	Pre-mounted chipboard screws	Machine insertion ready	Pre-mounted 10.5mm expanding dowels

Push latch

For wooden doors and drawers



Push Latch



Push latch



Cross mounting plate

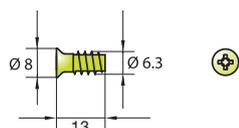


Linear mounting plate

 200 Pcs

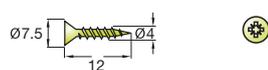
Made of steel and plastic

Fixing screws for mounting plates



Euro screws
821.6323.050

 10000 Pcs



Chipboard screws

Item number

Bronze

Push latch **915.0X59** → 381

Cross m. plate **915.4183** → 381

Linear m. plate **915.4175** → 381

915.0X59.381.K1



200 Sets

915.0X59.381.K2

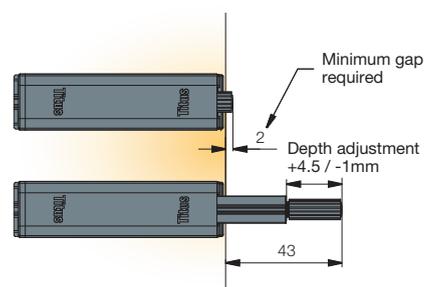
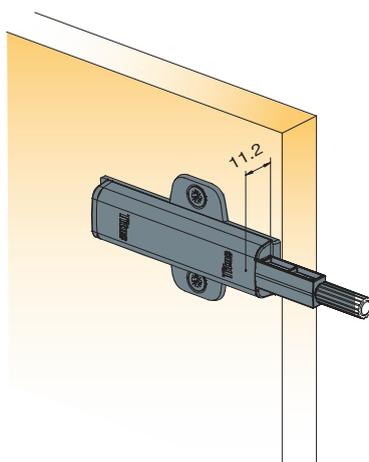
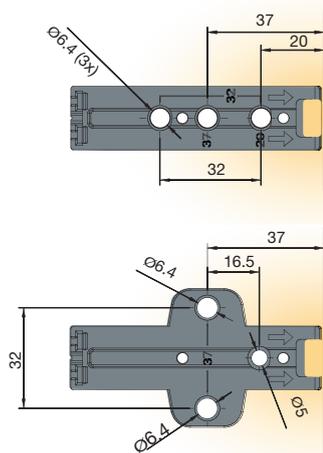


200 Sets

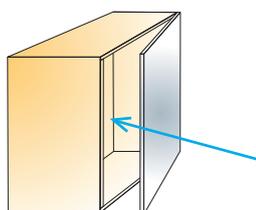
- Works with standard concealed hinges and drawers
- Effortless opening with just a light touch
- Depth adjustment ensures reliable closing and consistent performance in cases of inaccurate drilling
- 'Safety click' feature for easy detachment of the mechanism from the mounting plate

Drilling pattern

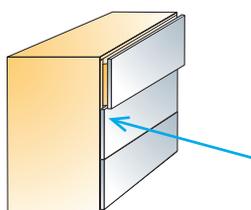
Dimensions



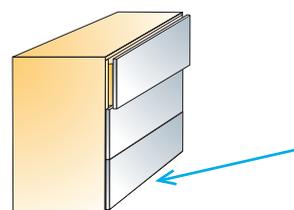
Positioning



Close to the 'touch opening point' on the side opposite to hinges



On the cabinet side; gap between drawer and cabinet side = min 12mm



On the drawer bottom; in the middle of drawer

Push latch works with standard hinges.

Push latch works on drawer; the gap between the drawer and the cabinet side = min. 12 mm