

Concealed hinges

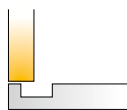
Information

How to achieve the desired door overlay?

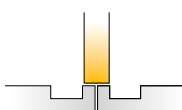
By choosing the hinge of appropriate cranking

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.

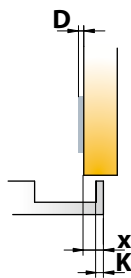


3. **Inset door.** Use a hinge with 15mm, 16mm or 18mm cranking.

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.

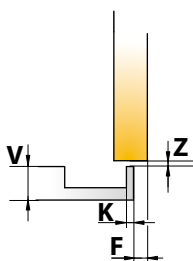


X	4	5	6	7	8	9
3	3	2	0			
K	4	5	2	1	0	
5			3	2	1	0 D

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	21	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 3.10** or on specific product pages for non-standard drillings.

How to mount the hinge on the door?

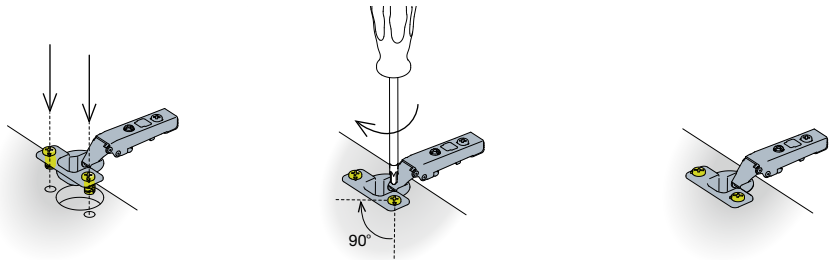
The choice of hinge cup type depends on the material of which the door is made and the chosen assembly method. The hinge can be assembled on a wooden door by fixing it with

chipboard or euro screws or inserted by machine.



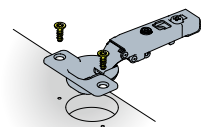
Easy-Fix Time saving system

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



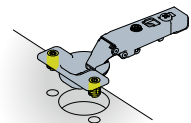
Screw fixing hinge cup

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



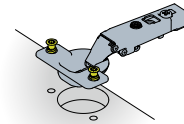
Drilling patterns for hinge cups shown **on the next page** or on specific product pages for non-standard drillings.

How to mount the hinge on the door?



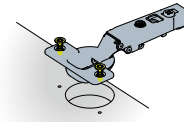
Hinge cup with pre-mounted euro screws

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.



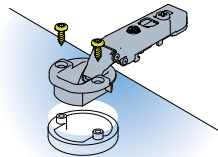
Hinge cup with pre-mounted chipboard screws

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



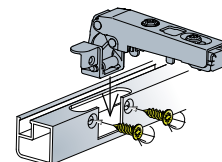
Glass door hinge cup

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 and 48mm

- 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

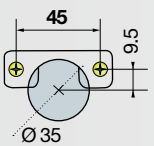
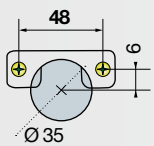
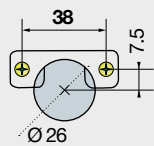
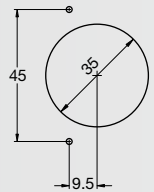
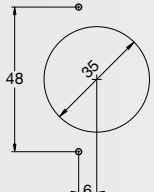
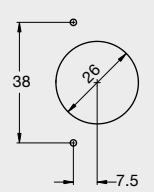
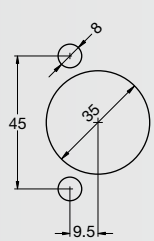
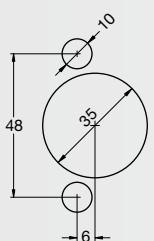
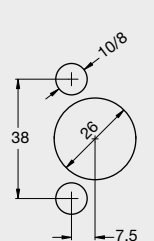
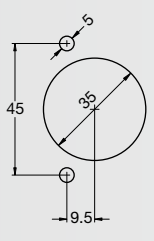
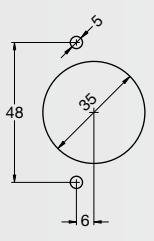
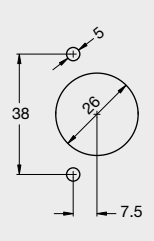






Interaxis 38mm

- Miniprimat series

Interaxis 42/11mm, 52/5.5mm*

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 38mm
Type of hinge cup			
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?

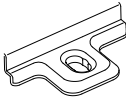
The mounting plates can be fixed on cabinet side with various methods. Euro screws are most suitable for standard 32mm drillings. Mounting plates with pre-mounted chipboard

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



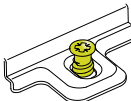
Euro screws ready mounting plate

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



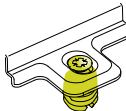
Mounting plate with pre-mounted euro screws

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



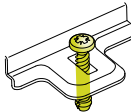
Machine insertion ready mounting plate

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



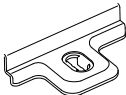
Mounting plate with pre-mounted expanding dowels

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



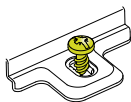
Chipboard screws ready mounting plate

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.



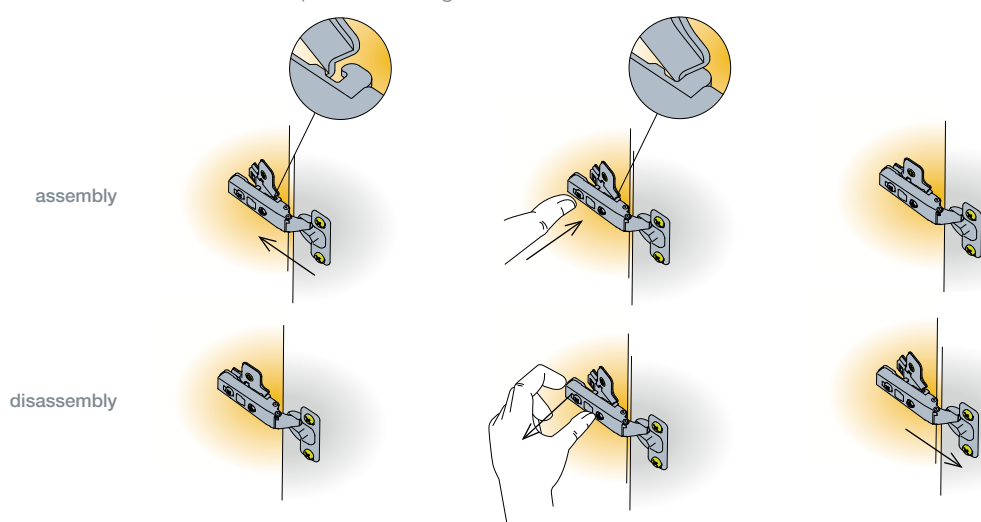
How to assemble the hinge and the mounting plate?

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.

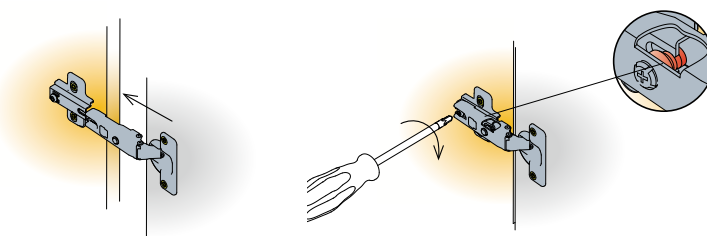


Slide-on system

- 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.

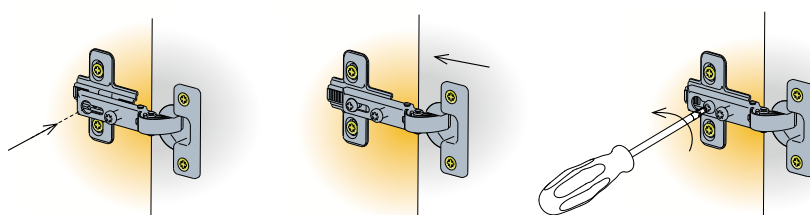


Key-hole system

- 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

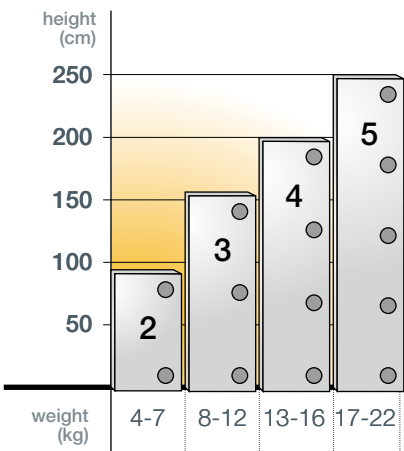
 For the furniture user's safety please use the appropriate number of hinges so that the door height or weight does not exceed that shown below.

How many hinges per door?

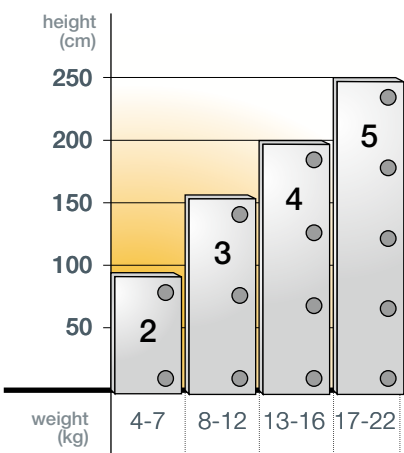
Check the enclosed specifications for the number of required hinges per door by considering both door height and weight. In case of doubt please contact Titus or your local distributor.

Concealed hinges with Ø 35mm hinge cup diameter

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



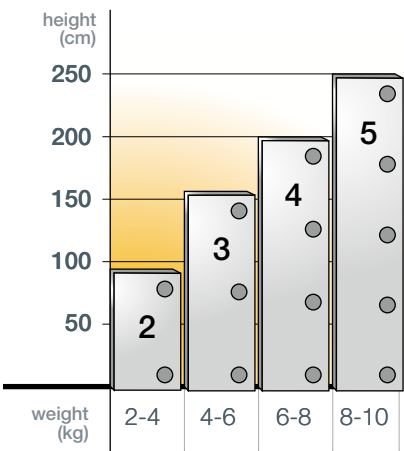
- ST-i2 plus series
- ST-i2 series
- Basic-i2 series
- ST-i plus series
- ST-i series
- Basic-i series



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

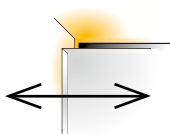
- Miniprimat series





Adjustment range can be found on the product pages.

Side adjustment

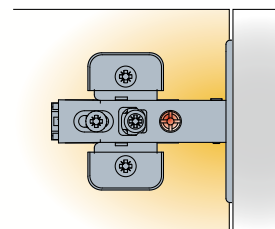
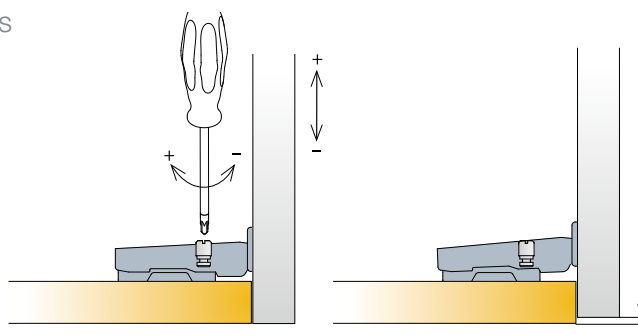


The side adjustment is indispensable to align the door with the side of the cabinet thus allowing perfect lifetime opening and closing of the door.

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.



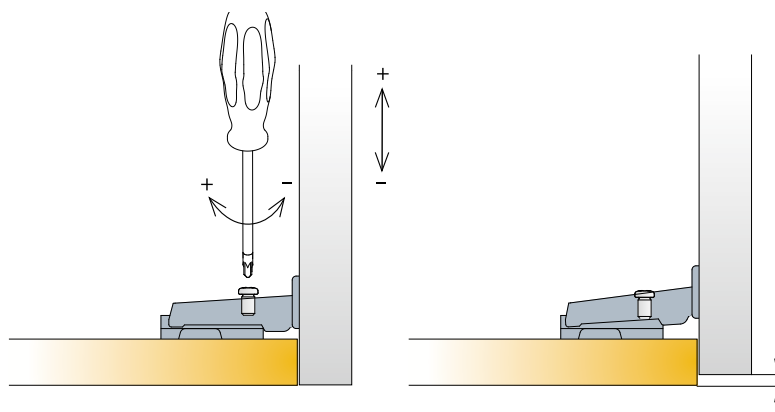
Adjustment range

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.

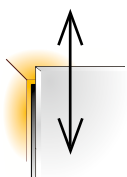


Adjustment range

Concealed hinges

Information

Height adjustment

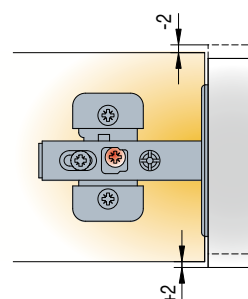
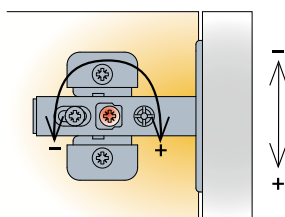


Height adjustment is necessary to achieve perfect vertical door position that emphasises the accuracy of manufacture.

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

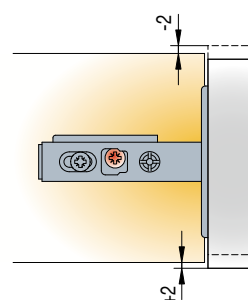
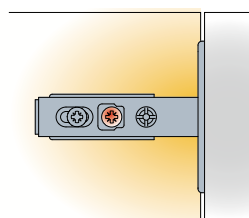
The height adjustment is made by rotating the cam adjuster on the mounting plate.



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

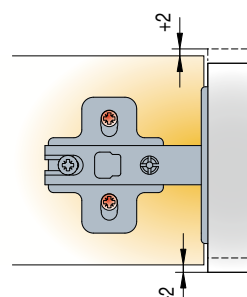
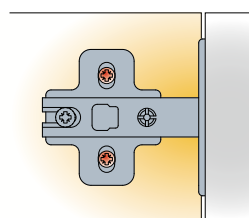
For height adjustment the adjustment screw has to be temporarily released during manual adjustment.



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

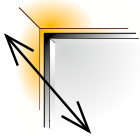
For height adjustment the two mounting plate fixing screws have to be temporarily released while making the manual adjustment.





Adjustment range can be found on the product pages.

Depth adjustment

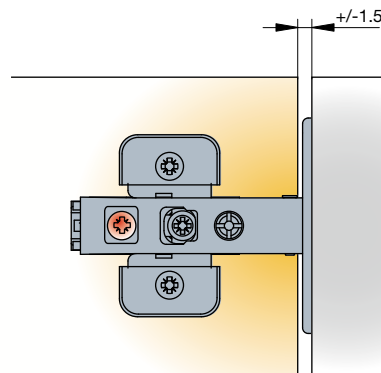
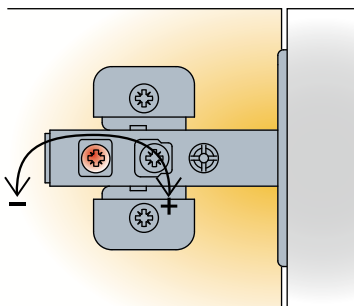


The system enables easy adjustment of the door depth to assure that the door fits well on the side of the cabinet.

By rotating the cam adjuster

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

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



By releasing the fixing or adjustment screw

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

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.

