

PIVOT-STAR

C81 Series 95° Anyway Snap-on Speed Adjustable Soft-close
Hinges with Spiral-cam for Thick Door



DTC

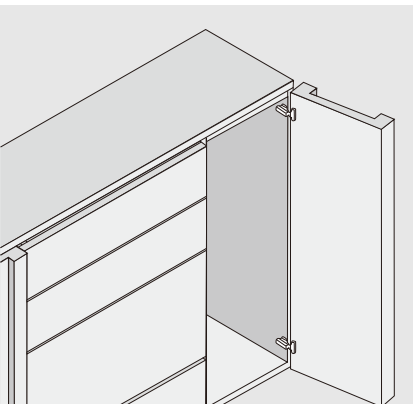
PRODUCT



DESCRIPTION

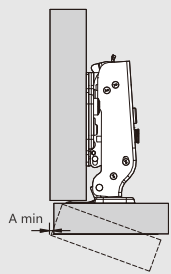
- Opening angle: 95°
- Depth of hinge cup: 11.5mm
- Diameter of hinge cup: 35mm
- Range of door thickness: 19-35mm
- Possible drilling distance on the door(K): 3-9mm

APPLICATION



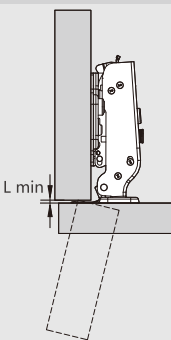
PLANNING

Space needed to open the door



	T=	19	20	21	22	23	24	25	26	27	28	29	30	31	32 - 35
K=3	A=	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	2.2	3.2	4.1	5.0	6.0	7.0 - 10
K=4	A=	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.6	2.5	3.5	4.4	5.3	6.3 - 9.1
K=5	A=	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	2.0	2.9	3.7	4.7	5.6 - 8.4
K=6	A=	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.4	2.3	3.2	4.1	5.0 - 7.8
K=7	A=	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.4	1.8	2.7	3.6	4.4 - 7.0
K=8	A=	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.1	1.4	1.6	2.2	3.1	3.9 - 6.5
K=9	A=	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.3	1.6	1.8	2.6	3.4 - 6.0

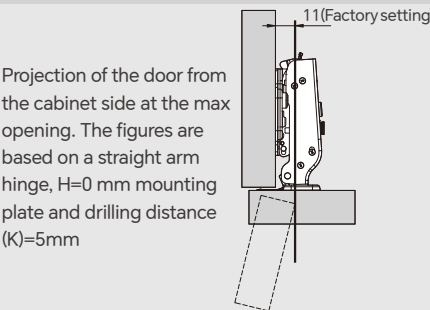
Space needed to open the door



	T=	19	20	21	22	23	24	25	26	27	28	29	30	31	32 - 35
K=3	L=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 - 0.0
K=4	L=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 - 0.0
K=5	L=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.3	0.4	0.5 - 0.7
K=6	L=	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.2	1.3	1.4	1.5 - 1.7
K=7	L=	1.3	1.4	1.5	1.6	1.7	1.7	1.8	1.9	2.0	2.2	2.2	2.3	2.4	2.5 - 2.7
K=8	L=	2.3	2.4	2.5	2.6	2.7	2.7	2.8	2.9	3.0	3.2	3.2	3.3	3.4	3.5 - 3.7
K=9	L=	3.3	3.4	3.5	3.6	3.7	3.7	3.8	3.9	4.0	4.2	4.2	4.3	4.4	4.5 - 4.7

- The above values are calculated on the assumption that the doors have square edges
- They are reduced if the doors have radiused edges

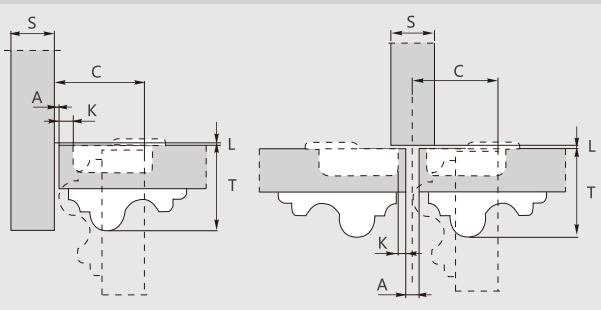
Projection of the door



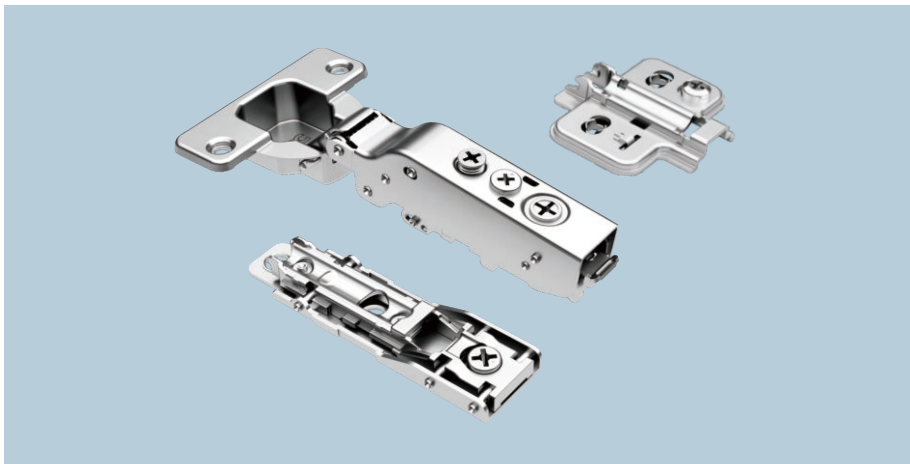
"C" value

$$C=22+K+A$$

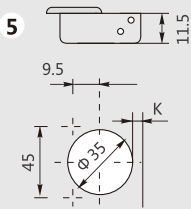
With this formula you can obtain the max thickness of the moulded door that can be opened without touching adjacent carcase sides, doors or walls, whilst bearing in mind the above L-K-T values.



ORDER INFORMATION



Ø35mm Hinge cup types



Use these formulas to determine the type of hinge arm, the drilling distance "K" and the height of the mounting plate "H" for each door application.



Nickel plated(A01)

Titanium black(A08)

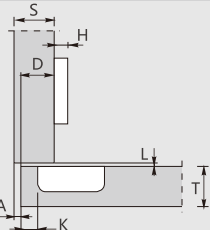
C81 Series 95° Anyway Snap-on Speed Adjustable Soft-close Hinges with Spiral-cam for Thick Door

Full overlay C=0



$$H=12+K-(D)$$

(Factory setting)

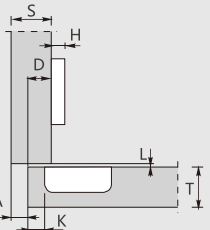


Half overlay C=9



$$H=3+K-(D)$$

(Factory setting)

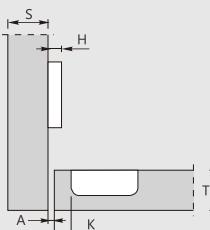


Inset C=18



$$H=-6+K+(A)$$

(Factory setting)



	Item No.	Pcs/ctn
Soft-close	C81A815FAB	200
Unsprung	A81A815A	200

	Item No.	Pcs/ctn
Soft-close	C81B815FAB	200
Unsprung	A81B815A	200

	Item No.	Pcs/ctn
Soft-close	C81C815FAB	200
Unsprung	A81C815A	200

ASSEMBLY AND ADJUSTMENT

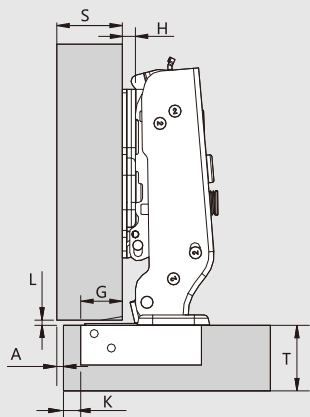
PIVOT-STAR Hinges Installation and Parameters



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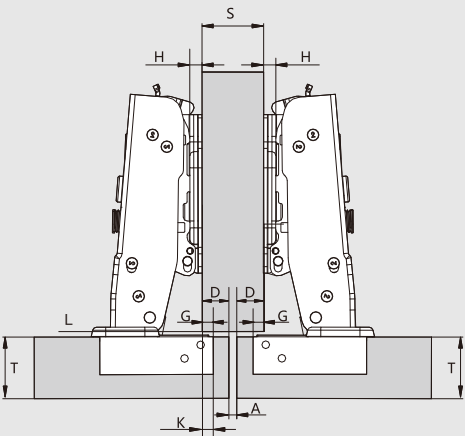
Application with full overlay door



S = Thickness of the cabinet side
D = Required door overlay
T = Door thickness
K = Drilling distance
A = Reveal
L = Gap between door and cabinet
H = Height of mounting plate
G = Hinge constant

Whatever door overlay is required, you can select from our range the combination of both the type of hinge arm and the thickness of mounting plate necessary to solve your construction problems and avoid the need to stock too many different components.

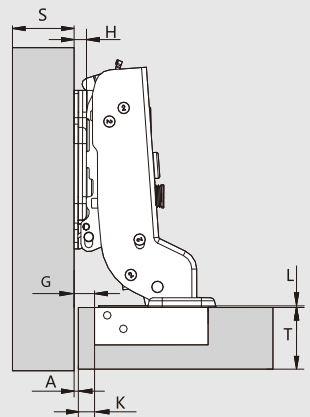
Application with half overlay door



S = Thickness of the cabinet side
D = Required door overlay
T = Door thickness
K = Drilling distance
A = Reveal
L = Gap between door and cabinet
H = Height of mounting plate
G = Hinge constant

Whatever door overlay is required, you can select from our range the combination of both the type of hinge arm and the thickness of mounting plate necessary to solve your construction problems and avoid the need to stock too many different components.

Application with inset door

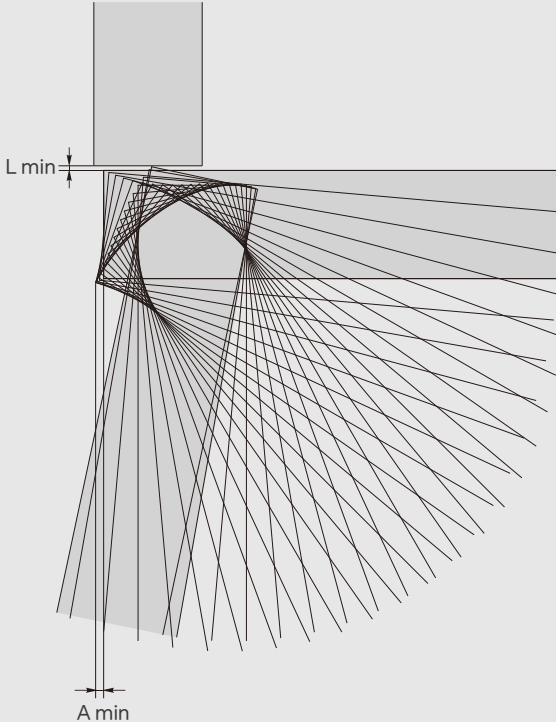


S = Thickness of the cabinet side
T = Door thickness
K = Drilling distance
A = Reveal
L = Gap between internal face of door and internal cabinet elements (e.g. shelves, drawer, etc.)
H = Height of mounting plate
G = Hinge constant

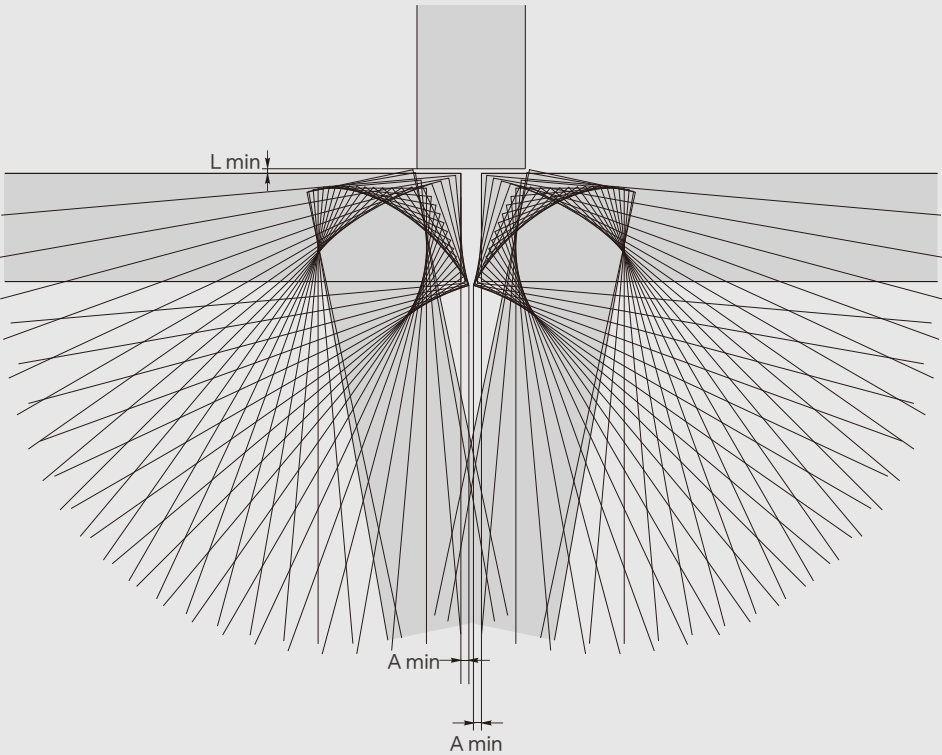
Whatever door overlay is required, you can select from our range the combination of both the type of hinge arm and the thickness of mounting plate necessary to solve your construction problems and avoid the need to stock too many different components.

PLANNING

Simulation of the opening movement of a 110° hinge with full overlay door



Simulation of the opening movement of a 110° hinge with half overlay door



ASSEMBLY AND ADJUSTMENT

PIVOT-STAR Hinges Installation and Parameters

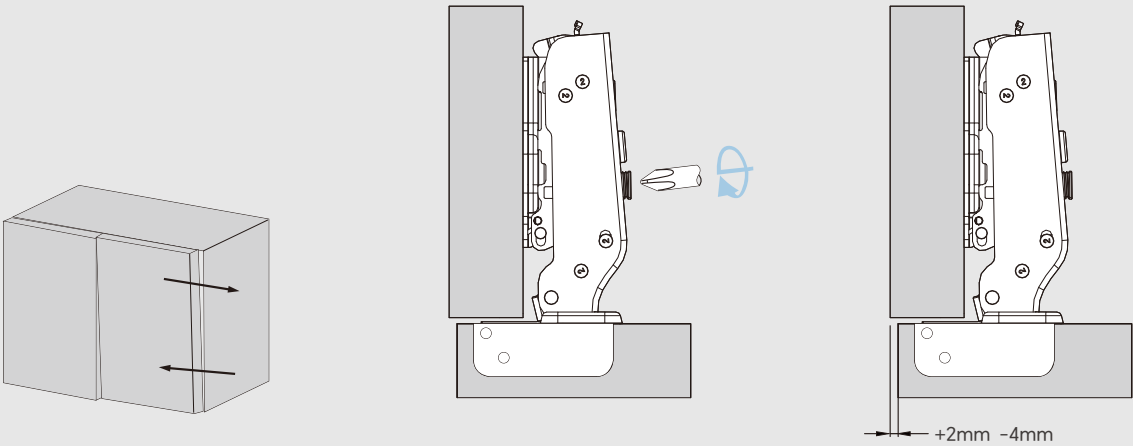


DTC

PLANNING

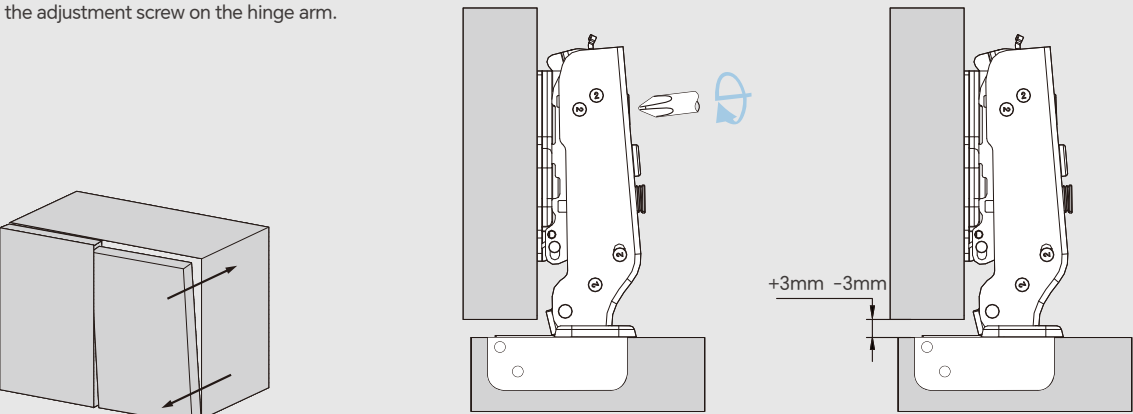
Side adjustment

Side adjustment of the door is made by using the indicated screw



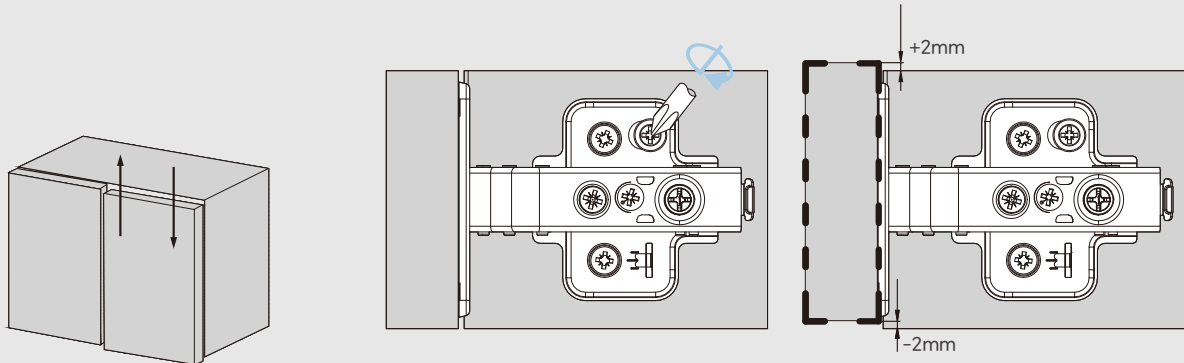
Depth adjustment

Depth adjustment is made without loosening any screw. The door can be moved in or out by rotating the adjustment screw on the hinge arm.



Height adjustment

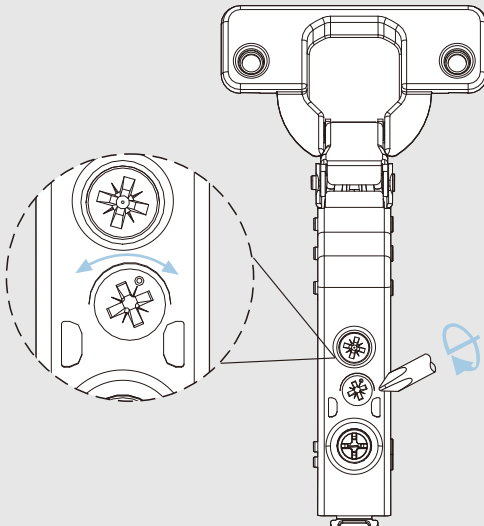
Height adjustment is made without loosening any screw. The door can be moved up or down by rotating the adjustment screw on the mounting plate.



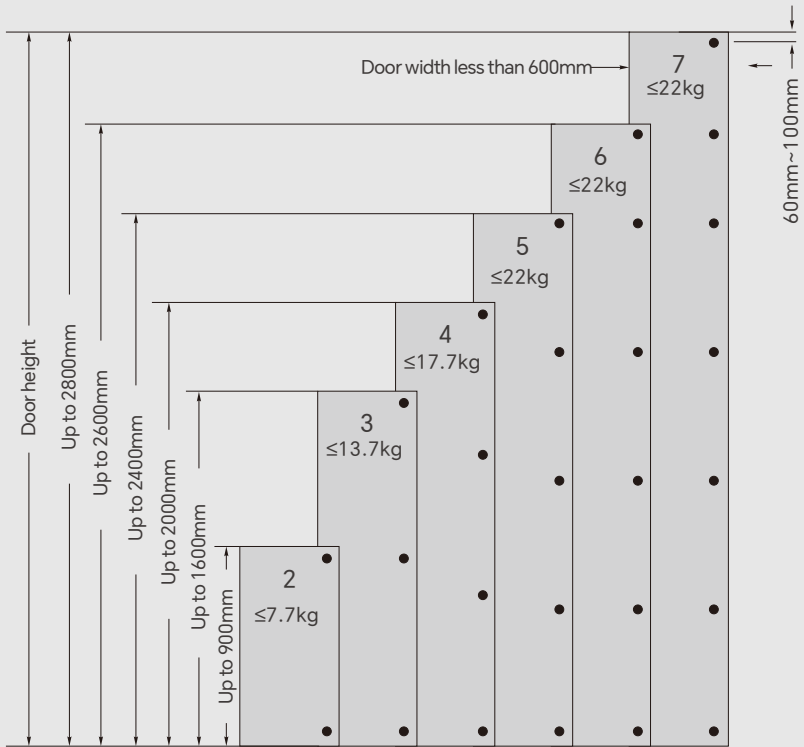
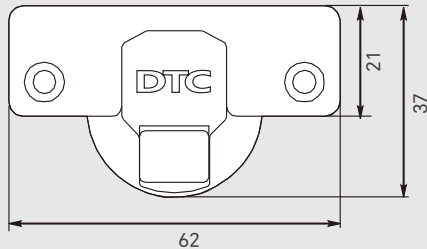
PLANNING



Door closing speed adjustment



Clockwise increasing door closing time
Counter clockwise reducing door closing time



L=distance between hinges, performance is best when L is as far apart as possible

Hinges needed per door
The number of hinges needed depends on three factors: Height, Width and Weight of the door. This illustration can be used as a general guide, however a trial is suggested for doors made of heavier materials. Performance is best when distance (L) is as far apart as possible on doors with two hinges. This is especially important for doors that are wider than they are tall to prevent door sag.

Adjustment

Side adjustment: -4mm~+2mm
Depth adjustment: ±3mm
Height adjustment: ±2mm

Mounting plates

Two-hole or four-hole mounting plates
Standard and in-line cam-adjustable mounting plates