

CLIP top BLUMOTION



CLIP top BLUMOTION

Premium concealed hinges with integrated BLUMOTION

www.blum.com

Perfecting motion  **blum**[®]

Elegant design and superior function

Get to know the advantages of integrated BLUMOTION and discover the possibilities of the new CLIP top BLUMOTION hinge. Inspire your customers: Perfecting motion for doors, for the lifetime of the cabinet.



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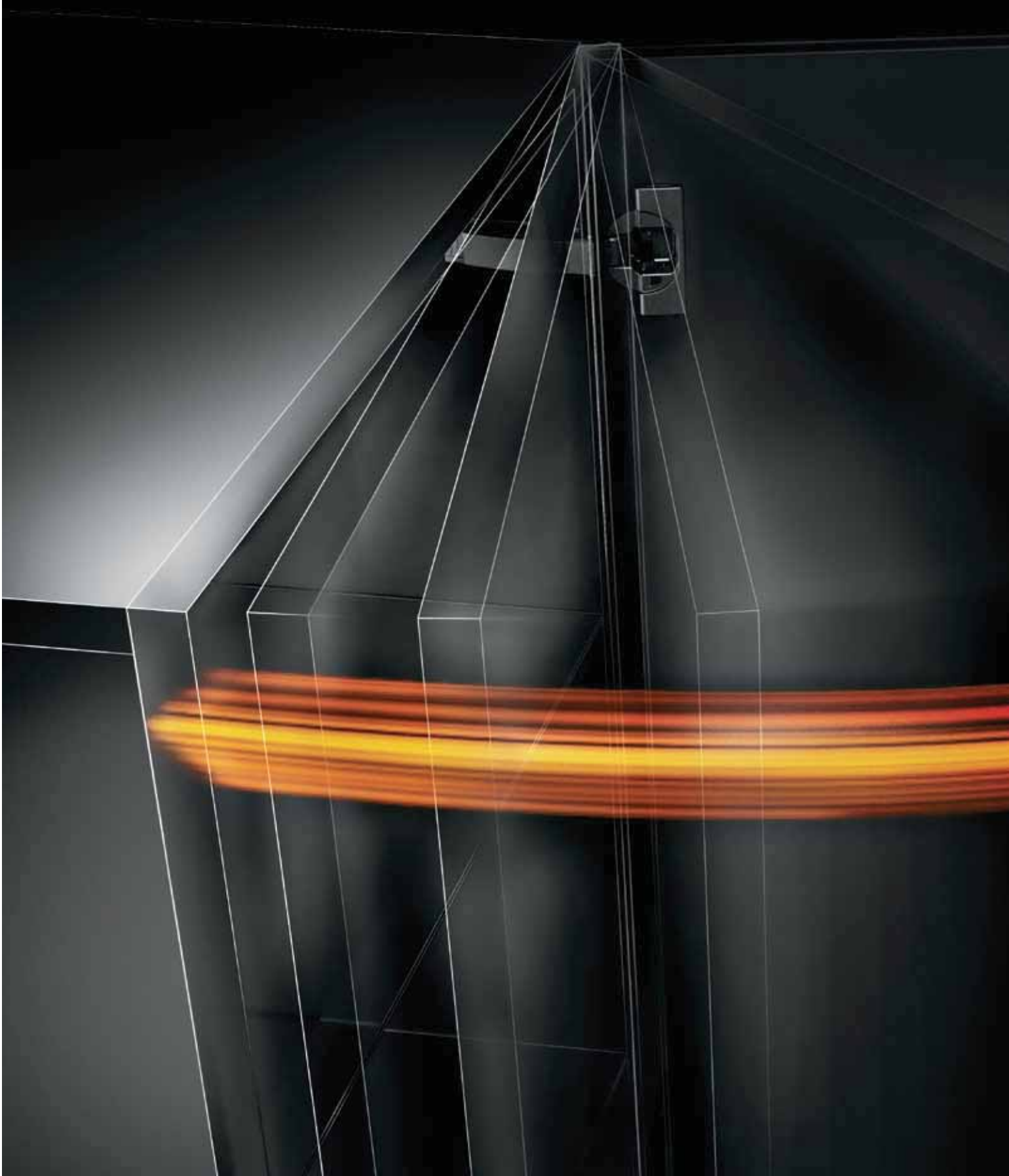


Innovative technology con



e technology concentrated into a small space







Silent and effortless, that's how cabinet doors close with CLIP top BLUMOTION hinges — regardless of the weight or closing speed. The new BLUMOTION soft close mechanism is integrated in the hinge cup, and continues to provide the quality of motion you have come to expect from Blum hardware.

With CLIP top BLUMOTION, you can now use thicker doors — up to 1" depending on the application. The new geometry ensures that the door does not make contact with the cabinet face even with smaller door gaps.



BLUMOTION deactivation option

The BLUMOTION function can easily be deactivated on one of the hinges, giving small or light doors the same high quality of motion.

Simply slide the switch on the hinge cup, then close the door once. This creates a quicker, but still silent, close. BLUMOTION can be reactivated the same way.

Additional advantages of CLIP top BLUMOTION

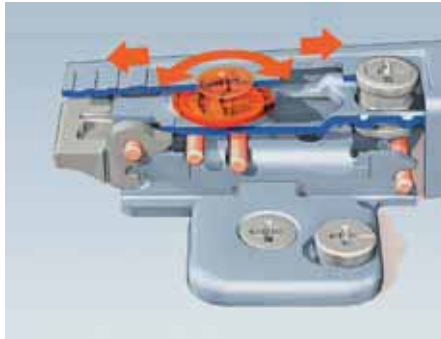


CLIP top BLUMOTION is extremely user friendly. This provides many advantages for assembly and adjustment.



CLIP

The tried and tested CLIP mechanism offers simple, tool-free hinge assembly. The industry standard for tool-free attachment since 1985.



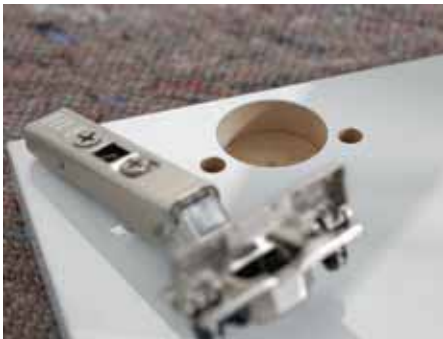
CLIP top

Like other CLIP top hinges, CLIP top BLUMOTION enables easy three-dimensional adjustment with Blum's spiral tech depth adjustment.



CLIP top BLUMOTION

Because the BLUMOTION function is now integrated into the hinge cup, additional assembly processes are no longer necessary after adjustment is complete.



Boring pattern

The boring pattern for the hinge cup remains unchanged for CLIP top BLUMOTION, however, a 13 mm boring depth is required for all three holes (35 mm & 8 mm).



INSERTA

The new INSERTA mechanism enables tool-free attachment of the hinge to the door. When the insertion lever is pressed down, the dowels expand to hold the hinge in place.



Mounting plates

CLIP top BLUMOTION works with all current CLIP mounting plates so you can start using this new hinge right away with little change to production.



Hinge planning tools

Blum has downloadable Excel® spreadsheets that help determine the hinge that is right for your application. Available at <http://www.blum.com/us/planning>

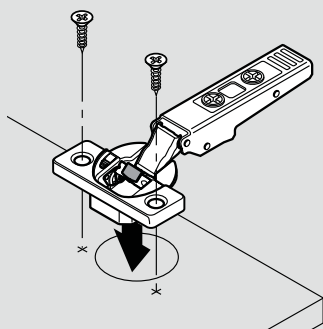


General specifications

Hinge-to-door attachment

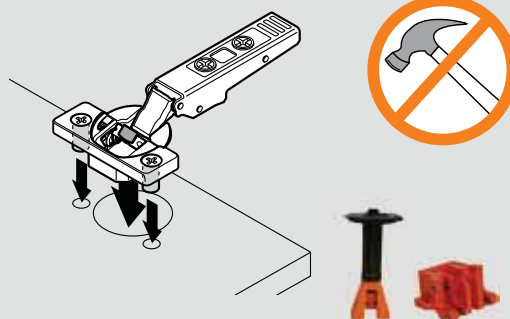
Screw-on

Use #6 wood screws



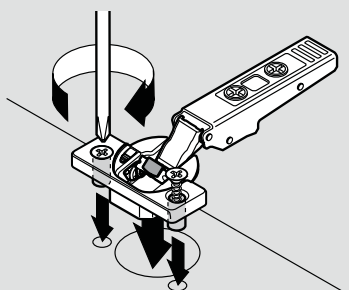
Press-in

Pre-attached Ø8 dowels installed with Blum knock-in tool or MINIPRESS with universal insertion ram



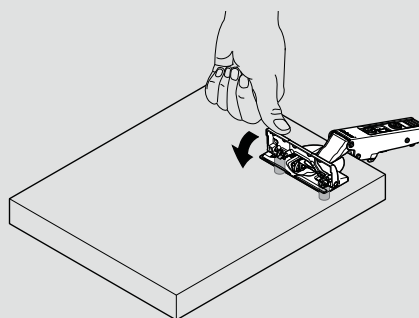
EXPANDO

Pre-attached expanding Ø8 mm dowels



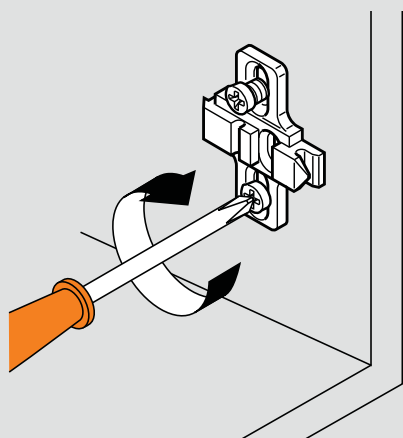
INSERTA

Tool-free attachment with INSERTA expanding Ø8 mm dowels



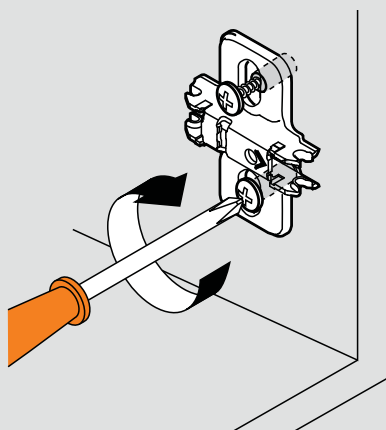
Mounting plate-to-cabinet

Screw-on



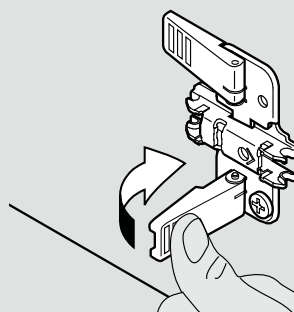
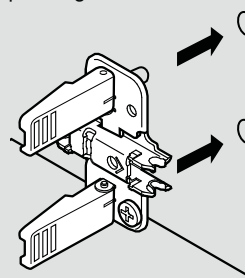
EXPANDO

Pre-attached expanding Ø5 mm dowels



INSERTA

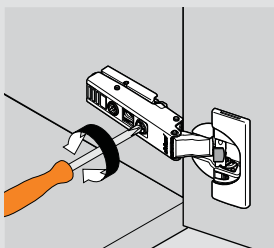
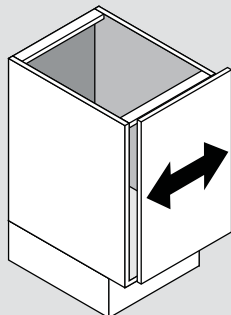
Tool-free attachment with INSERTA expanding Ø5 mm dowels



Three-dimensional adjustment

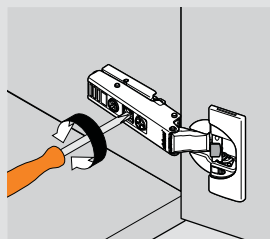
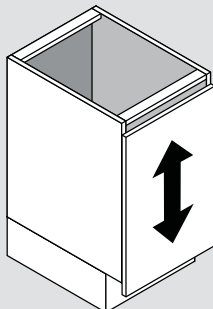
Side adjustment

Rotate front screw to increase or decrease door overlay (± 2 mm).



Height adjustment

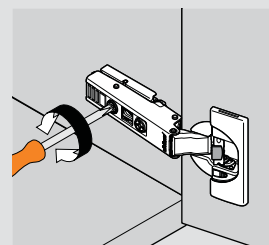
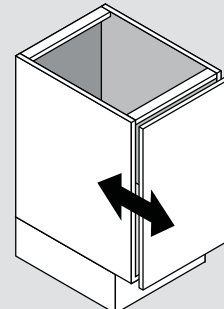
Rotate cam screw on mounting plate to adjust door position (± 2 mm).



On non-cam mounting plates, loosen screws, adjust door and retighten screws.

Depth adjustment

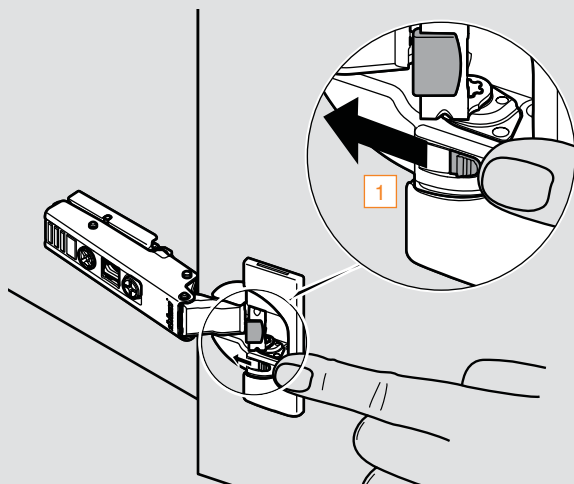
Rotate rear spiral tech cam screw to adjust door gap (+3 mm, -2 mm).



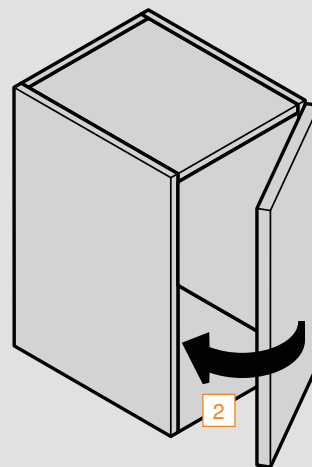
BLUMOTION deactivation

Deactivation switch on hinge cup

For small or light doors, the BLUMOTION can be deactivated on one of the hinges.



Door must be closed once for the deactivation to be complete. To reactivate, move switch back to original position.



Temperature information

CLIP top BLUMOTION is designed to be used at temperatures between 65° and 85° F. Lower or higher temperatures will not cause damage to the hinge, however they will affect the closing speed. Once the temperature returns to the suggested range the hinge will return to its optimal closing action.

CLIP top BLUMOTION 110° hinges



Features

- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- New geometry for door thicknesses up to 26 (1")
- New INSERTA design
- Boring distance range 3 mm to 7 mm
- Compatible with existing CLIP mounting plates and hinge arm cover caps
- Press-in hinges must be inserted with knock-in tool or universal insertion ram

Minimum reveal table

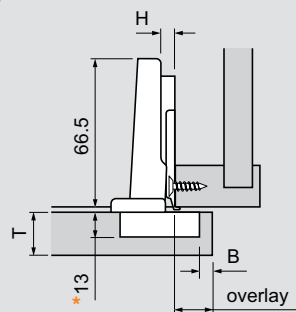
	0.5	1.0	1.8	2.7	4.3
3	0.5	1.0	1.7	2.5	3.8
4	0.5	0.9	1.7	2.4	3.4
5	0.5	0.9	1.6	2.3	3.2
6	0.5	0.9	1.6	2.2	3.0
7	0.5	0.9	1.6	2.2	3.0
B = boring dist.	16	19	22	24	26

T = door thickness

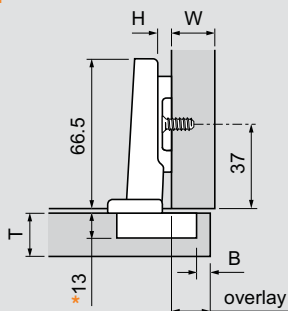
Thickness greater than 26 trial app. recommended

Overlay

Frame

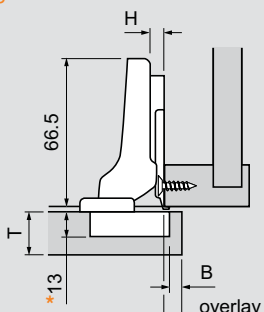


Panel

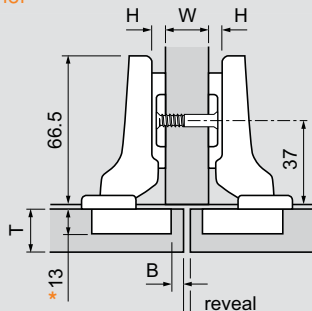


Partial/twin overlay

Frame

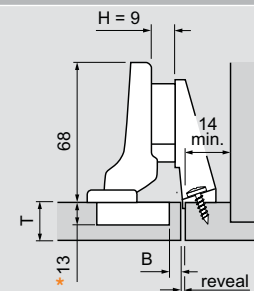


Panel



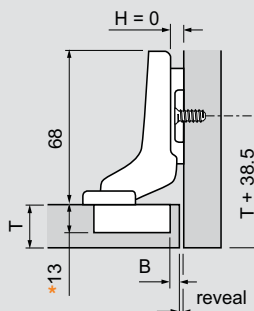
Inset

Frame



NOTE: For this application use a half-cranked hinge and mounting plate 175H5030.21

Panel



* All 35 mm and 8 mm holes must be a minimum of 13 mm deep

H	Overlay						P	S
0	14	15	16	17	18		12	21.5
3	11	12	13	14	15		15	24.5
4.5	9.5	10.5	11.5	12.5	13.5		16.5	26
6	8	9	10	11	12		18	27.5
9	5	6	7	8	9		21	30.5
	3	4	5	6	7	Fixed dist.		
	B = boring distance						X = 11	

NOTE: 4.5 plate is only for use in frame cabinets, 9 plate is only for panel cabinets

H	Overlay						P	S
0	4.5	5.5	6.5	7.5	8.5		21.5	31
	3	4	5	6	7	Fixed dist.		
	B = boring distance						X = 1.5	

H	Reveal					W	P	S
	7	5	3	1	—	16		
0	10	8	6	4	2	19	21.5	31
	13	11	9	7	5	22		
	3	4	5	6	7			
	B = boring distance							

H	Reveal						P	S	X
0	4	3	2	1	—		30	39.5	-7
9	4.5	3.5	2.5	1.5	0.5		30.5	40	1.5
	3	4	5	6	7				
	B = boring distance								

Abbreviations

H	= Plate height
P	= Door protrusion
S	= Side arm protrusion
W	= Side panel width
X	= Fixed distance

Straight-arm

Self close

Screw-on	71B3550
Press-in 	71B3580
EXPANDO	71B358E
INSERTA	71B3590

Half-cranked (9.5 mm)

Self close

Screw-on	71B3650
Press-in 	71B3680
INSERTA	71B3690

Full-cranked (18 mm)

Self close

Screw-on	71B3750
Press-in 	71B3780
INSERTA	71B3790

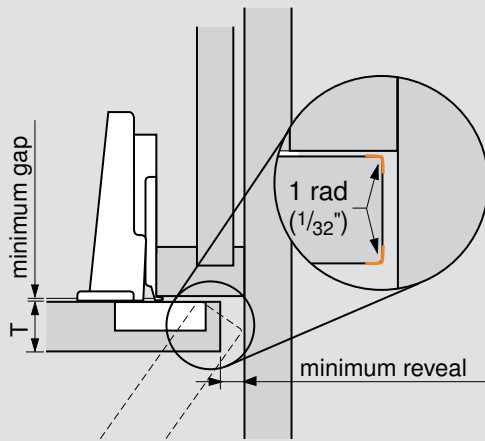
New geometry for thick door applications

Minimum reveals increase with door thickness. The following applications show common examples of necessary reveal and door gap for each door thickness.

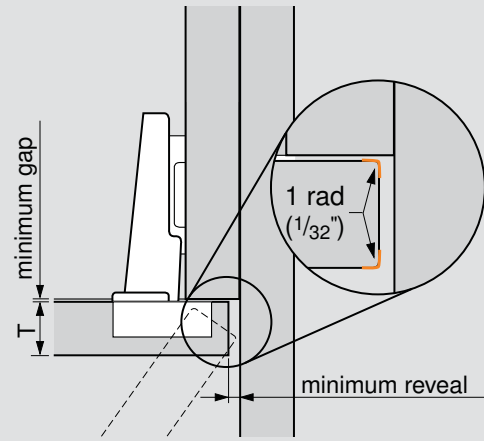
The factory setting for the door gap (distance between the back of door and front of side panel/frame) is 1.5 mm. For full opening angle without contacting the side panel or frame, the gap behind the door and the minimum reveal must be adjusted according to the table below.

NOTE: All dimensions based on 1 mm door radius

Frame application



Panel application



3/4" thick door		
Minimum reveal	B Bore	Minimum gap behind door
1.0	3	1.5
1.0	4	1.5
.9	5	1.5
.9	6	1.5
.9	7	1.5

7/8" thick door		
Minimum reveal	B Bore	Minimum gap behind door
1.8	3	1.5
1.7	4	1.5
1.7	5	1.5
1.6	6	1.5
1.6	7	1.5

1" thick door		
Minimum reveal	B Bore	Minimum gap behind door *
4.3	3	1.5
3.8	4	1.5
3.4	5	2.2
3.2	6	3.2
3.0	7	4.2

* Factory setting is 1.5, may require adjustment

CLIP top BLUMOTION 110°+ hinges



Features

- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- New geometry for door thicknesses up to 26 (1")
- New INSERTA design
- Boring distance range 3 mm to 7 mm
- For door overlays up to 22 mm
- Compatible with existing CLIP mounting plates and hinge arm cover caps
- Press-in hinges must be inserted with knock-in tool or universal insertion ram

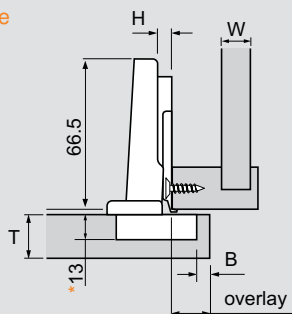
Minimum reveal table					
3	0.5	1.0	1.8	2.7	4.3
4	0.5	1.0	1.7	2.5	3.8
4.5	0.5	1.0	1.7	2.5	3.6
5	0.5	0.9	1.7	2.4	3.4
6	0.5	0.9	1.6	2.3	3.2
7	0.5	0.9	1.6	2.2	3.0
B = boring dist.	16	19	22	24	26

T = door thickness

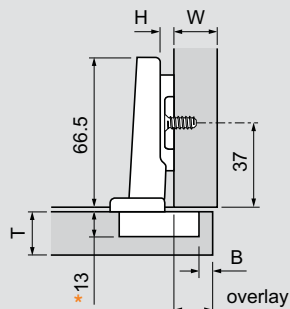
Thickness greater than 26 trial app. recommended

Overlay

Frame

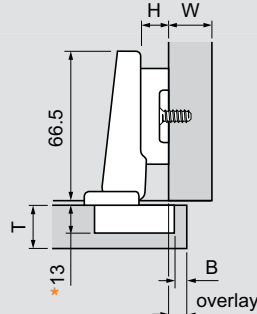


Panel

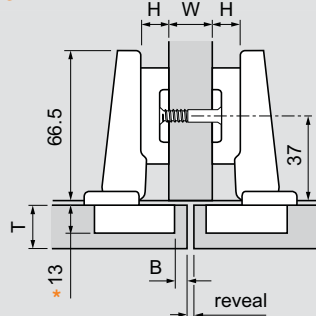


Partial/twin overlay

Panel

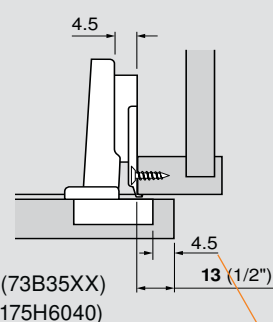


Panel



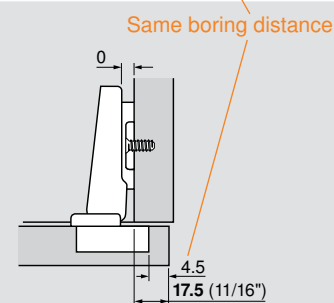
Building both frame and panel cabinets

Frame



Hinge (73B35XX)
Plate (175H6040)

Panel



Hinge (73B35XX)
Plate (any 0 mm plate)

* All 35 mm and 8 mm holes must be a minimum of 13 mm deep

H	Overlay						P	S
0	16	17	17.5	18	19	20	10	20
3	13	14	14.5	15	16	17	13	23
4.5	11.5	12.5	13	13.5	14.5	15.5	14.5	24.5
6	10	11	11.5	12	13	14	16	26
9	7	8	8.5	9	10	11	19	29
	3	4	4.5	5	6	7	Fixed dist. X = 13	
	B = boring distance							

NOTE: 4.5 plate is only for use in frame cabinets, 9 plate is only for panel cabinets

H	Overlay						P	S
9	7	8	8.5	9	10	11	19	29
	3	4	4.5	5	6	7	Fixed distance X = 13	
	B = boring distance							

H	Reveal						W	P	S
	2	—	—	—	—	—	16		
9	5	3	2	—	—	—	19	19	29
	8	6	5	4	—	—	22		
	3	4	4.5	5	6	7			
	B = boring distance								

The most common overlays for frame and panel cabinets can be achieved by using the same machine setting for hinge cup boring.

Bore all doors at 4.5 mm to achieve:

- 13 (1/2") overlay on frame cabinets
- 17.5 (11/16") overlay on panel cabinets

Advantages:

- One machine setting for boring all doors
- Same hinge used for both applications

Abbreviations

H	=	Plate height
P	=	Door protrusion
S	=	Side arm protrusion
W	=	Side panel width
X	=	Fixed distance

Straight-arm	Self close
Screw-on	73B3550
Press-in	73B3580
EXPANDO	73B358E
INSERTA	73B3590

Straight-arm	Self close
Screw-on	73B3550
Press-in	73B3580
EXPANDO	73B358E
INSERTA	73B3590

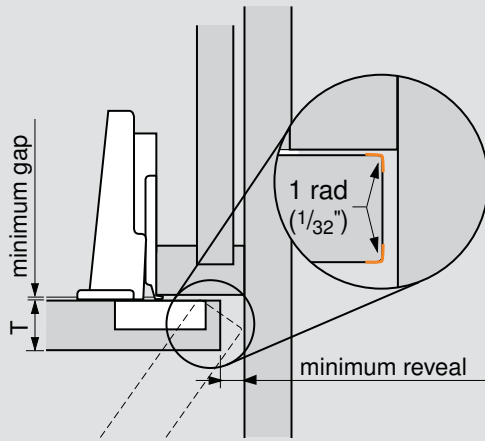
New geometry for thick door applications

Minimum reveals increase with door thickness. The following applications show common examples of necessary reveal and door gap for each door thickness.

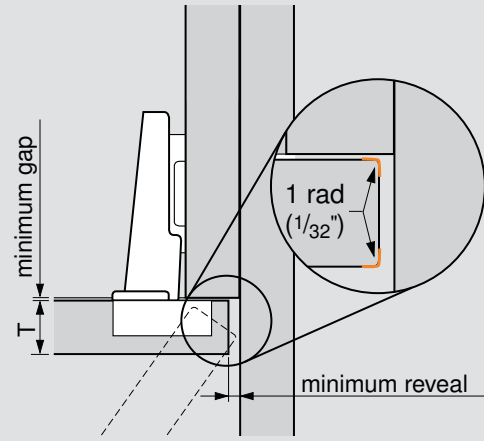
The factory setting for the door gap (distance between the back of door and front of side panel/frame) is 1.5 mm. For full opening angle without contacting the side panel or frame, the gap behind the door and the minimum reveal must be adjusted according to the table below.

NOTE: All dimensions based on 1 mm door radius

Frame application



Panel application



3/4" thick door		
Minimum reveal	B Bore	Minimum gap behind door
1.0	3	1.5
1.0	4	1.5
.9	4.5	1.5
.9	5	1.5
.9	6	1.5
.9	7	1.5

7/8" thick door		
Minimum reveal	B Bore	Minimum gap behind door
1.8	3	1.5
1.7	4	1.5
1.7	4.5	1.5
1.7	5	1.5
1.6	6	1.5
1.6	7	1.5

1" thick door		
Minimum reveal	B Bore	Minimum gap behind door *
4.3	3	1.5
3.8	4	1.5
3.6	4.5	2.0
3.4	5	2.2
3.2	6	3.2
3.0	7	4.2

* Factory setting is 1.5, may require adjustment

CLIP top BLUMOTION 95° thick door hinges



Features

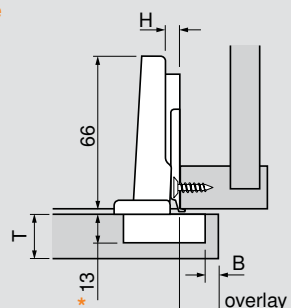
- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to **30** (1-3/16")
- New INSERTA design
- Boring distance range 3 mm to 7 mm
- Compatible with existing CLIP mounting plates and hinge arm cover caps
- Press-in hinges must be inserted with knock-in tool or universal insertion ram

Minimum reveal table							
3	0.4	0.8	1.0	1.5	1.9	2.8	3.6
4	0.4	0.7	1.0	1.4	1.8	2.5	3.1
5	0.4	0.7	1.0	1.4	1.8	2.3	2.7
6	0.4	0.7	1.0	1.4	1.8	2.2	2.5
7	0.4	0.7	0.9	1.4	1.7	2.1	2.4
B = boring dist.	19	22	24	26	28	29	30
T = door thickness							

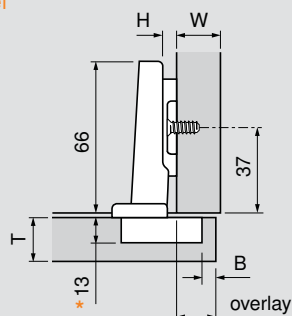
Thickness greater than 30 trial app. recommended

Overlay

Frame

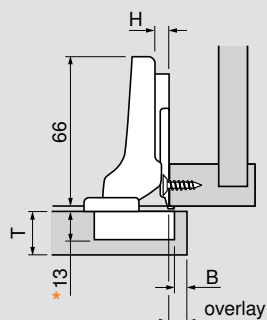


Panel

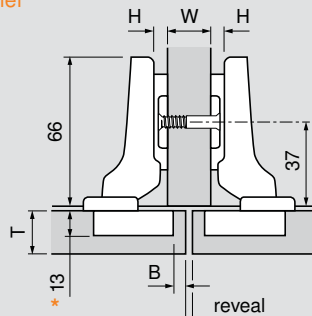


Partial/twin overlay

Frame

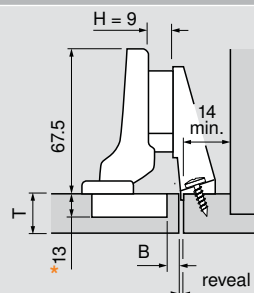


Panel



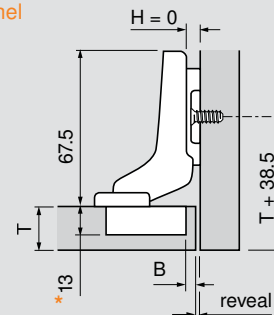
Inset

Frame



NOTE: For this application use a half-cranked hinge and mounting plate 175H5030.21

Panel



* All 35 mm and 8 mm holes must be a minimum of 13 mm deep

H	Overlay						P	S
0	14	15	16	17	18	14.5	22	
3	11	12	13	14	15	17.5	25	
4.5	9.5	10.5	11.5	12.5	13.5	19	26.5	
6	8	9	10	11	12	20.5	28	
9	5	6	7	8	9	23.5	31	
	3	4	5	6	7	Fixed dist. X = 11		
	B = boring distance							

NOTE: 4.5 plate is only for use in frame cabinets, 9 plate is only for panel cabinets

H	Overlay						P	S
0	4.5	5.5	6.5	7.5	8.5	24	31	
	3	4	5	6	7	Fixed dist. X = 1.5		
	B = boring distance							

H	Reveal					W	P	S
	7	5	3	1	—	16		
0	10	8	6	4	2	19	24	31
	13	11	9	7	5	22		
	3	4	5	6	7			
	B = boring distance							

H	Reveal					P	S	X
0	4	3	2	1	—	32.5	40	-7
9	4.5	3.5	2.5	1.5	0.5	33	40.5	1.5
	3	4	5	6	7			
	B = boring distance							

Abbreviations

H	= Plate height
P	= Door protrusion
S	= Side arm protrusion
W	= Side panel width
X	= Fixed distance

Straight-arm	Self close
Screw-on	71B9550
Press-in	71B9580
INSERTA	71B9590

Half-cranked (9.5 mm)	Self close
Screw-on	71B9650
Press-in	71B9680
INSERTA	71B9690

Full-cranked (18 mm)	Self close
Screw-on	71B9750
Press-in	71B9780
INSERTA	71B9790

CLIP top BLUMOTION 95° narrow aluminum door hinges



Description

- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- Compatible with existing CLIP mounting plates and hinge arm cover caps

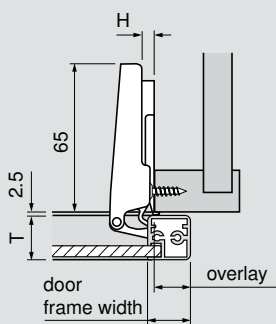
Minimum reveal table

	18	19	20	21	22
18	0.2	0.3	0.4	0.6	0.7
19	0.2	0.3	0.4	0.6	0.7
20	0.2	0.3	0.4	0.5	0.7
21	0.2	0.3	0.4	0.5	0.7
22	0.2	0.3	0.4	0.5	0.7
Door frame width	18	19	20	21	22

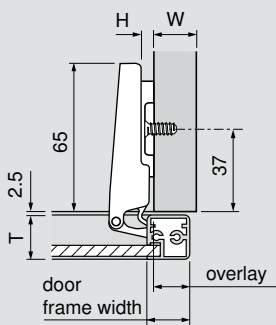
T = door thickness

Overlay

Frame

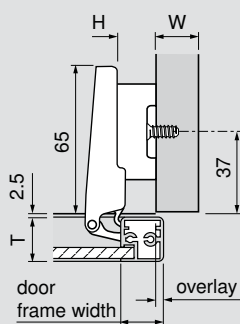


Panel

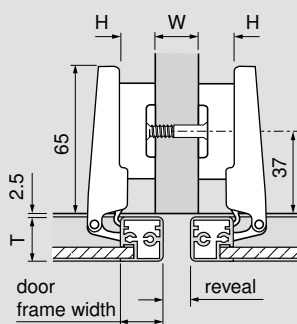


Partial/twin overlay

Panel

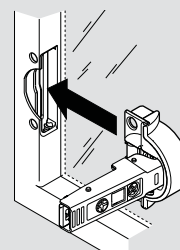


Panel

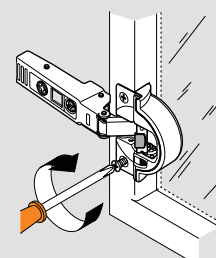


Installation

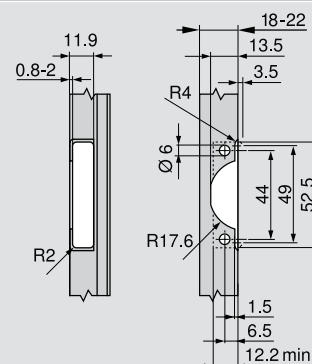
Attach cup adapter to the hinge and insert into machined openings



Attach using aluminum screws provided with hinges (699.110)



Aluminum door preparation



H	Overlay	P	S
0	16	13.5	22
3	13	16.5	25
4.5	11.5	18	26.5
6	10	19.5	28
9	7	22.5	31
	B = fixed		

NOTE: 4.5 plate is only for use in frame cabinets, 9 plate is only for panel cabinets

Screw-on	Self close
	71B950A

H	Overlay	P	S
9	7	23	31
	B = fixed		

H	Reveal	W	P	S
9	2	16	23	31
	5	19		
	B = fixed			

Screw-on	Self close
	71B950A

Abbreviations

H	= Plate height
P	= Door protrusion
S	= Side arm protrusion
W	= Side panel width
X	= Fixed distance

CLIP top BLUMOTION 95° inset blind corner hinges



Features

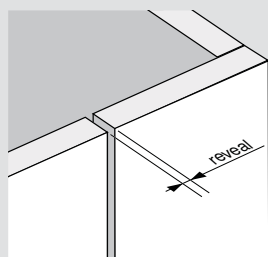
- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- New INSERTA design
- Boring distance range 3 mm to 7 mm
- Compatible with existing CLIP mounting plates and hinge arm cover caps
- Press-in hinges must be inserted with knock-in tool or universal insertion ram

Minimum reveal table

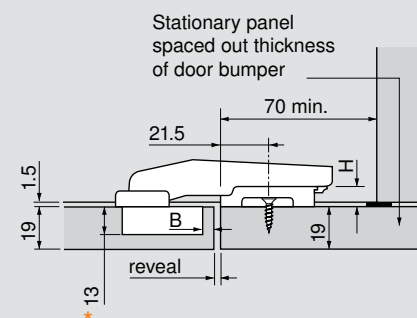
	0.1	0.3	0.4	0.5	0.9	1.3
3	0.1	0.3	0.4	0.5	0.9	1.3
4	0.1	0.3	0.4	0.5	0.9	1.3
5	0.1	0.4	0.4	0.5	0.9	1.3
6	0.1	0.3	0.4	0.5	0.9	1.2
7	0.1	0.3	0.4	0.5	0.9	1.2
B = boring dist.	16	18	19	20	22	24

T = door thickness

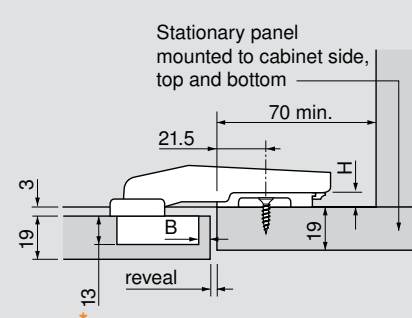
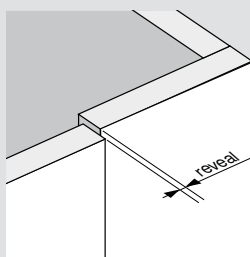
Flush door applications



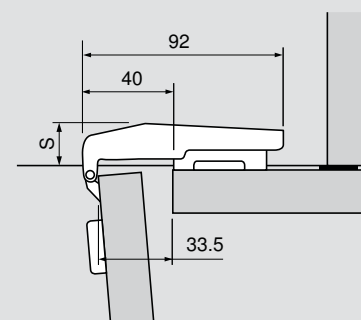
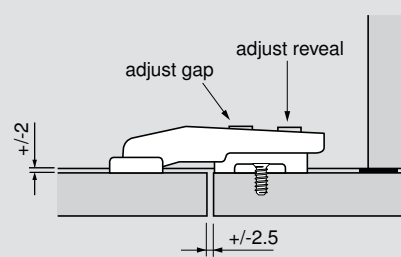
Back of door is flush with stationary panel



Offset door applications



Adjustments and clearances



* All 35 mm and 8 mm holes must be a minimum of 13 mm deep

H	Reveal					P	S
3	5	4	3	2	1	33.5	21
	3	4	5	6	7		
	B = boring distance						

H	Reveal					P	S
0	5	4	3	2	1	33.5	21
	3	4	5	6	7		
	B = boring distance						

Abbreviations

H	=	Plate height
P	=	Door protrusion
S	=	Side arm protrusion

Flush door	Self close
Screw-on	79B9550
Press-in 	79B9580
INSERTA	79B9590

Offset door	Self close
Screw-on	79B9550
Press-in 	79B9580
INSERTA	79B9590



Features

- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- Boring distance range 3 mm to 7 mm
- Compatible with existing CLIP mounting plates and hinge arm cover caps
- Press-in hinges must be inserted with knock-in tool or universal insertion ram

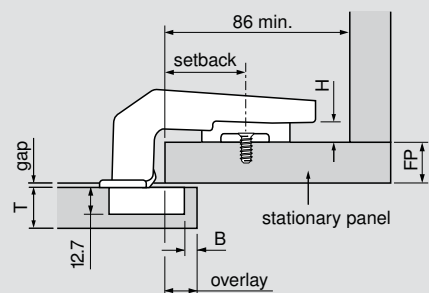
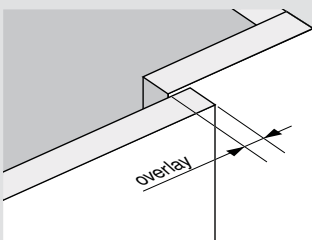
Minimum reveal table

	0.1	0.3	0.4	0.5	0.9	1.3
3	0.1	0.3	0.4	0.5	0.9	1.3
4	0.1	0.3	0.4	0.5	0.9	1.3
5	0.1	0.3	0.4	0.5	0.9	1.3
6	0.1	0.3	0.4	0.5	0.9	1.2
7	0.1	0.3	0.4	0.5	0.9	1.2
B= bore dist.	16	18	19	20	22	24

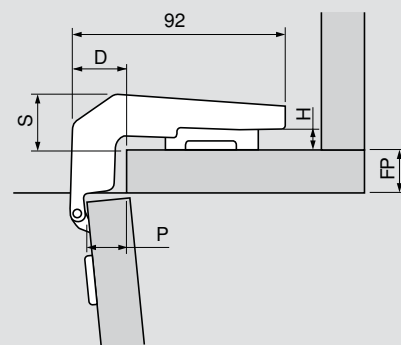
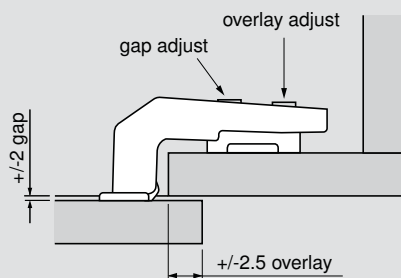
T = door thickness

Thickness greater than 24 trial app. recommended

Overlay application



Adjustments and clearances



NOTE: Door gap can be adjusted +/- 2 mm

Setback	Overlay					P	D
27	2	3	4	5	6	7	32
32	7	8	9	10	11	12	27
37	12	13	14	15	16	17	22
	3	4	5	6	7	Fixed distance = 9	
	B = boring distance						

NOTE: Door overlay varies depending on the setback position of the mounting plate. Use the table to select the desired overlay and cross-reference to the plate setback and bore distance.

H	Gap			S
0	7	4	1	21
3	4	1	—	24
6	1	—	—	27
	16	19	22	
	FP = front panel thickness			

NOTE: The door gap varies depending on the thickness of the stationary panel and the height of the mounting plate. Use the table to cross-reference the plate height based on the front panel thickness and door gap.

Overlay blind corner	Self close
Press-in	79B9980

Abbreviations

FP	= Front panel thickness
D	= Depth
H	= Plate height
P	= Door protrusion
S	= Side arm protrusion
T	= Door thickness

CLIP top BLUMOTION angled hinge program



CLIP top BLUMOTION hinges from +45° to -45°

Angled hinges provide a tremendous array of possibilities for the cabinet design professional. Specifically designed for panel constructed (frameless) cabinets, the system accommodates cabinet front angles from -45° to +45°, in 5° increments. This is achieved by combining any of ten angled hinges, or three standard hinges with a wedge spacer and any of five standard CLIP mounting plates.

All CLIP top hinges feature "Spiral Tech" depth adjustment which eliminates loosening and retightening the adjustment screws. When the doors are ready to be attached to the cabinet, the time-proven CLIP mechanism connects the hinge arm to the mounting plate, again without tools. All components are nickel-plated and have self closing action, eliminating the need for additional hardware.

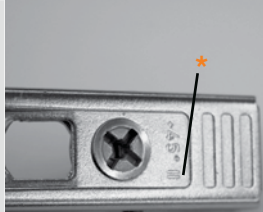
Step 1. On page 16, the angle-to-style cross-reference provides an overview of all the angled hinge applications available to assist with your specific application.

Step 2. Once the cabinet front angle is determined, select the row for that angle from the first column. There are five different possibilities for positive angles and two for negative angles.

Step 3. Cross-reference the angle to the style to find the hinge/plate/wedge combination and the specification number. Specifications on pages 17 through 23 are in numerical order and show all the details.

CLIP top BLUMOTION angled hinges — Available Winter 2010

Positive angled CLIP top BLUMOTION hinges

	Part no.		Part no.		Part no.		Part no.
+15°	79B9494	+20°	79B9595	+30° II*	79B9596	+30° III*	79B9496
	Part no.		Part no.		Part no.		
+45° I*	79B9698	+45° II*	79B3598	+45° III*	79B9498		

* These angled hinges are marked I, II, or III on the hinge arm for differentiation (see photo).

Negative angled CLIP top BLUMOTION hinges

	Part no.		Part no.		Part no.
-15°	79B3493	-30°	79B3491	-45°	79B3490

Standard CLIP top BLUMOTION thick door hinges used in angled applications

	Part no.		Part no.		Part no.
95° straight-arm	71B9590	95° half-cranked	71B9690	95° full-cranked	71B9790

Angled spacer wedges for positive and negative angled hinges

	Part no.		Part no.		Part no.		Part no.
2 mm thickness		4 mm thickness		5 mm thickness		7 mm thickness	
-5°	171A5500	+5°	171A5010	+5°	171A5040	+5°	171A5070

Angle-to-style cross-reference

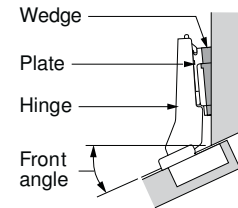
BLUMOTION
inside

The chart on this page shows the hinge, plate and wedge (or spacer) needed for each angled application. The legend below shows the order of the part numbers.

NOTE: All 35 mm and 8 mm holes must be a minimum of 13 mm deep

Application number

Hinge	CLIP top BLUMOTION hinge	Part number
Plate	CLIP mounting plate	Part number
Wedge/spacer	May or may not be required	Part number

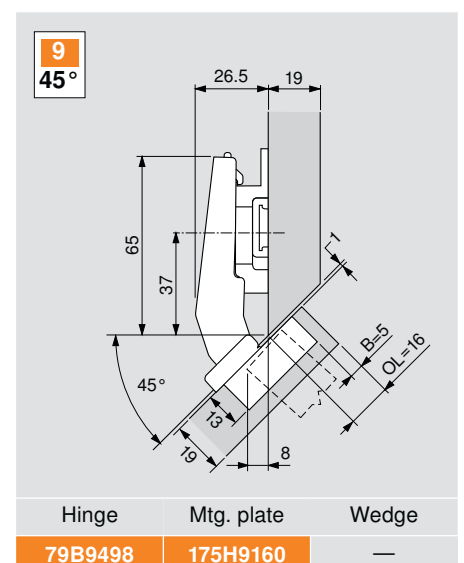
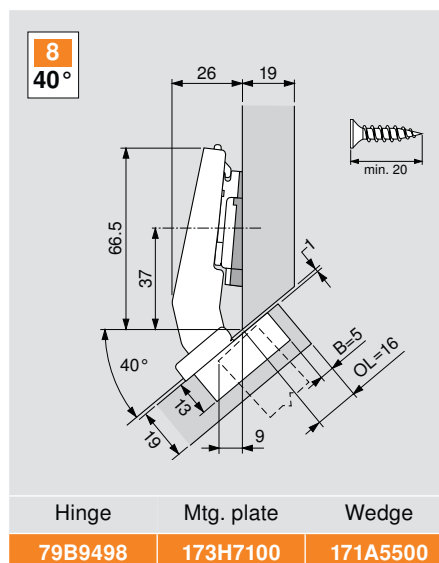
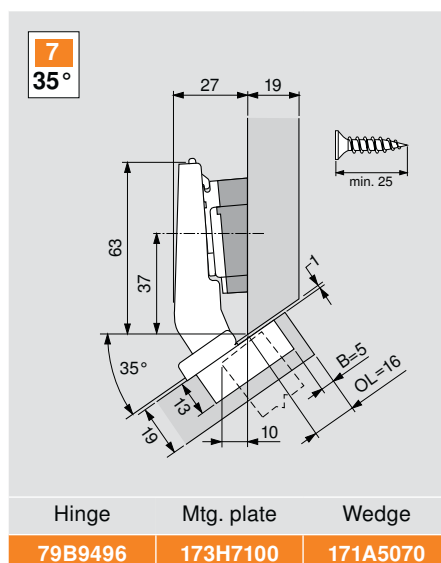
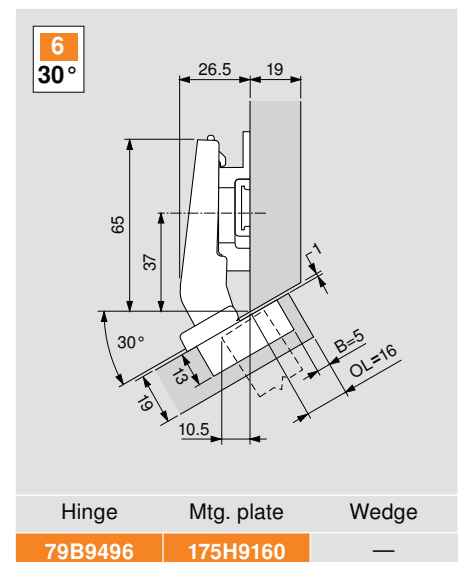
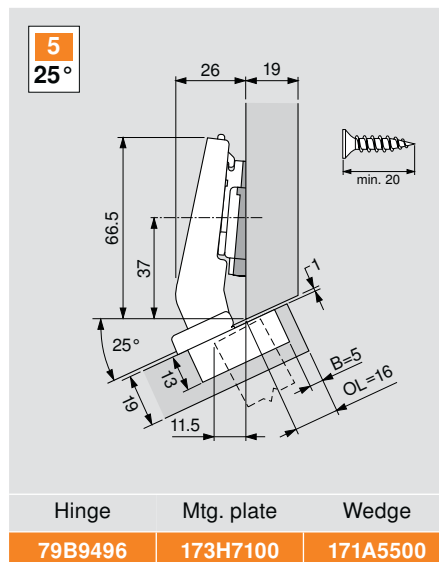
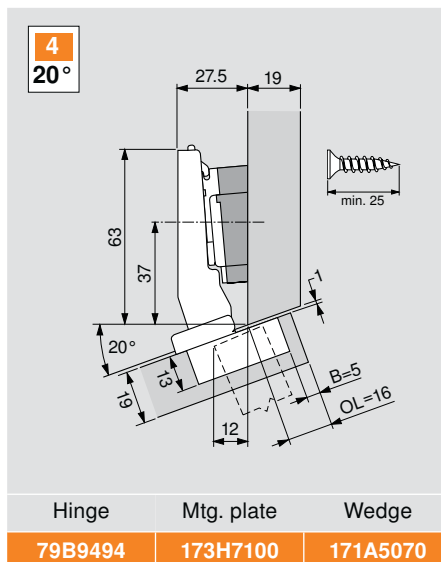
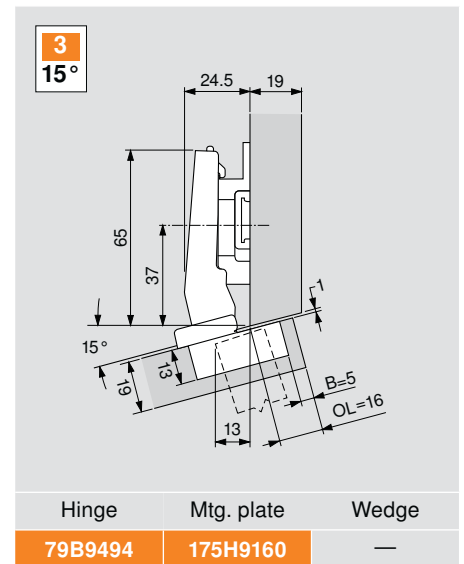
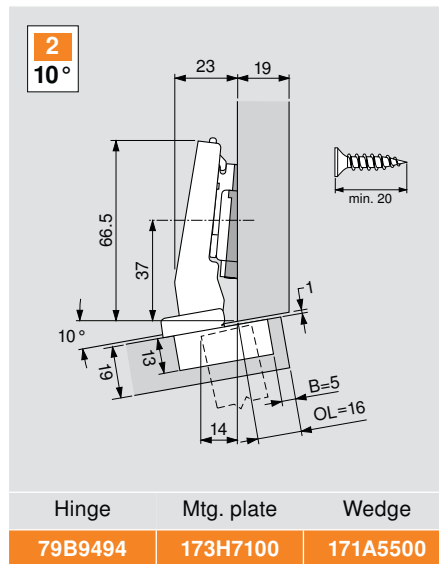
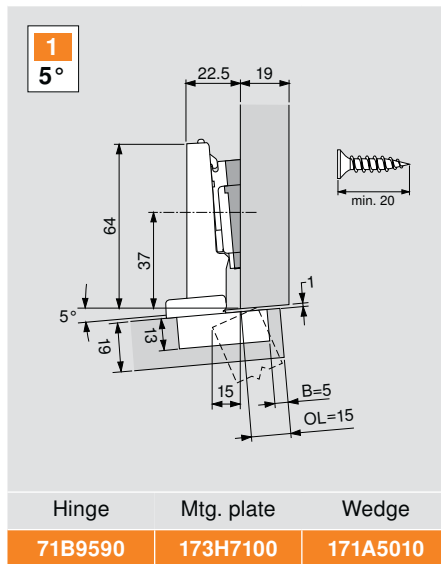


Positive angles						Negative angles	
Maximum overlay	Partial overlay	Corner merge	Inset door	Mitered corner		Maximum overlay	Inset door
5°	1	10	19	27		-5°	42
	71B9590	71B9590	71B9690	71B9790			71B9690
	173H7100	173H7100	173H7100	173H7100			173H7100
	171A5010	171A5010	171A5070	171A5010			171A5500
10°	2	11	20	28		-10°	43
	79B9494	79B9494	79B9494	79B9494			79B3493
	173H7100	173H7100	175H9190.22	175H9190.22			173H7100
	171A5500	171A5500	171A5500	171A5500			171A5010
15°	3	12	21	29	36	-15°	44
	79B9494	79B9494	79B9595	79B9595			79B3493
	175H9160	175H9190	173H7130	175H9190			173H7100
			171A5500	171A5500			175H9190.22
20°	4	13	22	30	37	-20°	45
	79B9494	79B9595	79B9595	79B9595			79B3493
	173H7100	173H7100	175H9190	175H9190.22			173H7100
	171A5070						171A5500
25°	5	14	23	31	38	-25°	46
	79B9496	79B9595	79B9596	79B9596			79B3491
	173H7100	173H7100	173H7100	175H9190.22			173H7100
	171A5500	171A5010	171A5500				171A5040
30°	6	15	24	32	39	-30°	47
	79B9496	79B9596	79B9596	79B9596			79B3491
	175H9160	173H7100	175H9190	175H9190.22			173H7130
35°	7	16	25	33	40	-35°	48
	79B9496	79B9596	79B9596	79B9596			79B3491
	173H7100	173H7100	173H7100	175H9190.22			173H7100
	171A5070	171A5010	171A5070	171A5010			171A5500
40°	8	17		34		-40°	49
	79B9498	79B9498		79B9698			79B3490
	173H7100	175H9160		175H9190			173H7100
	171A5500	171A5500		171A5500			171A5040
45°	9	18	26	35	41	-45°	50
	79B9498	79B3598	79B9698	79B3598			79B3490
	175H9160	173H7100	173H7100	175H9190.22			173H7130
							181.6130

Maximum overlay specifications

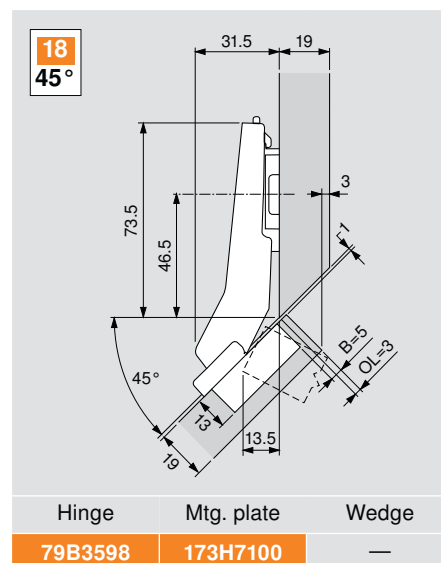
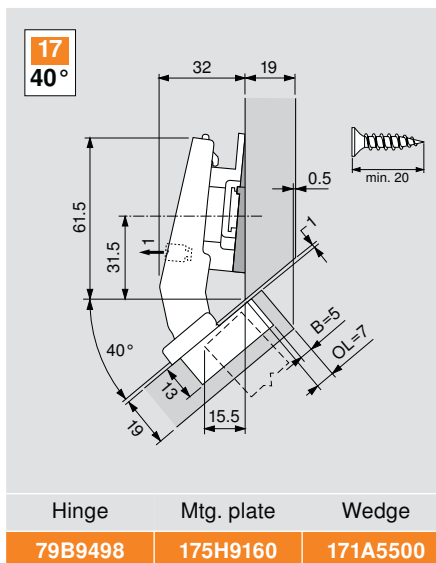
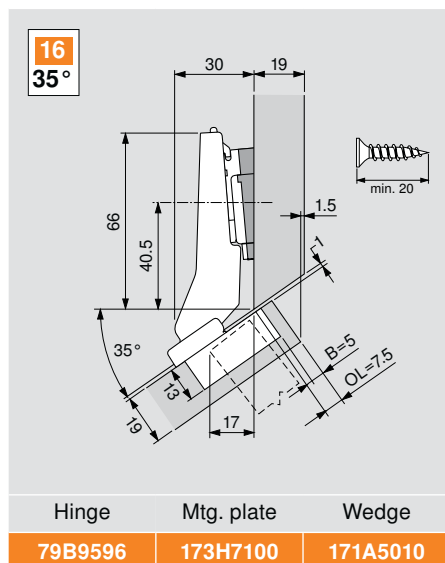
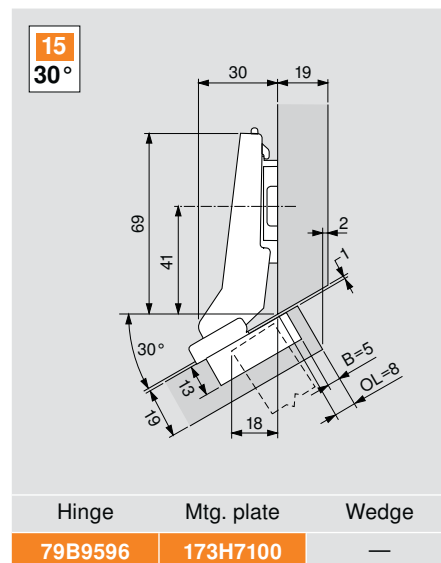
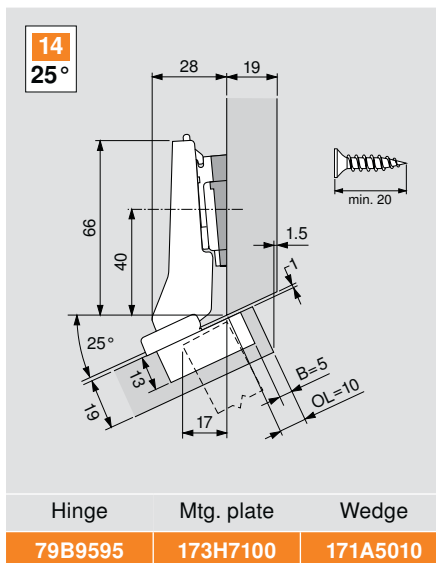
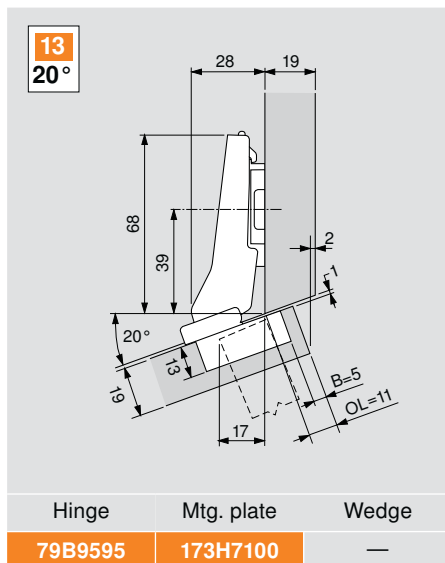
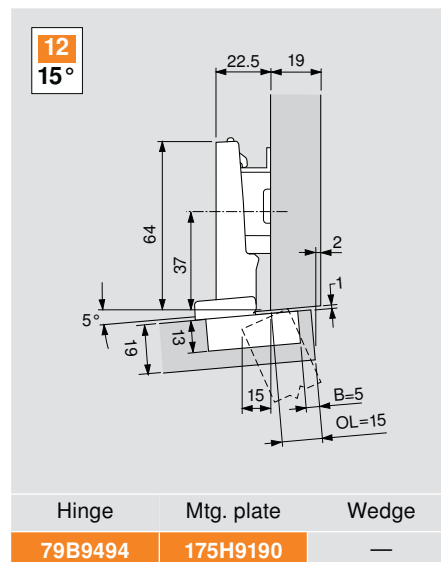
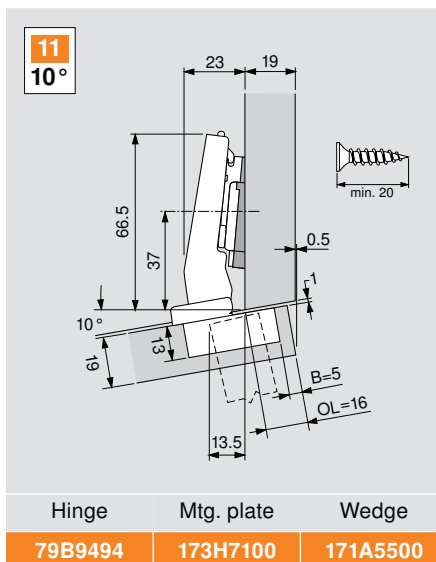
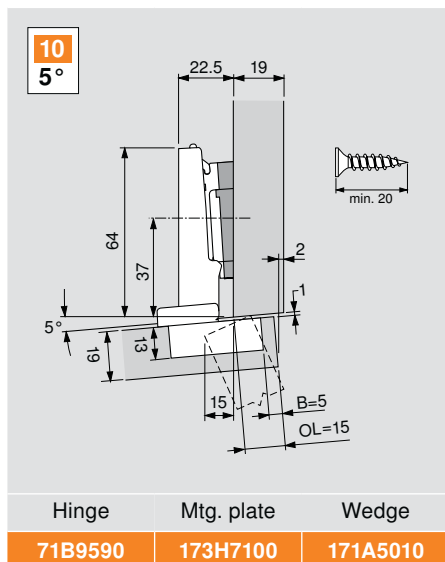


Positive angle applications



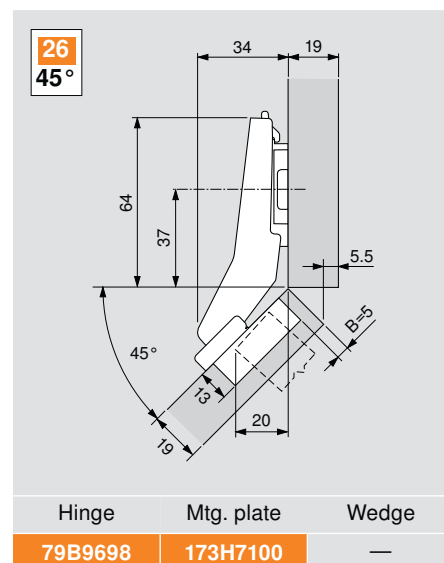
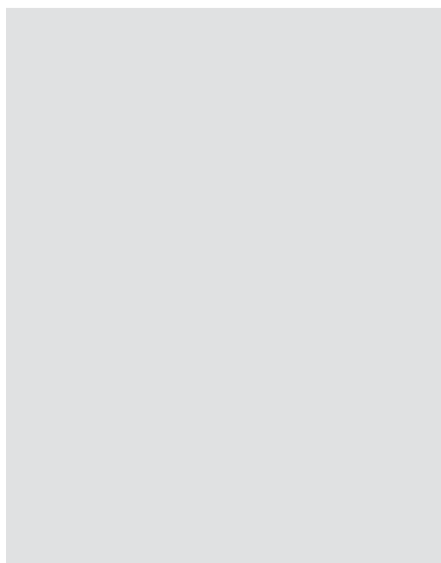
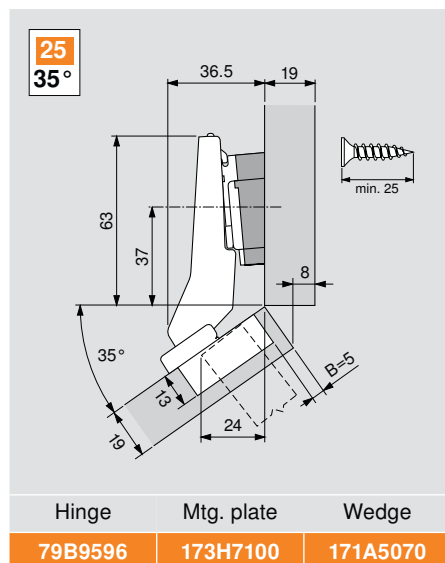
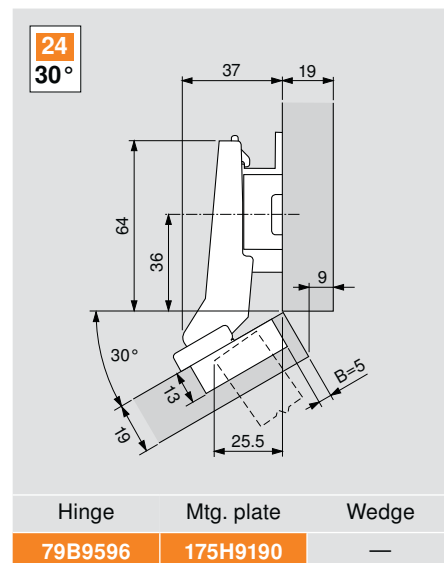
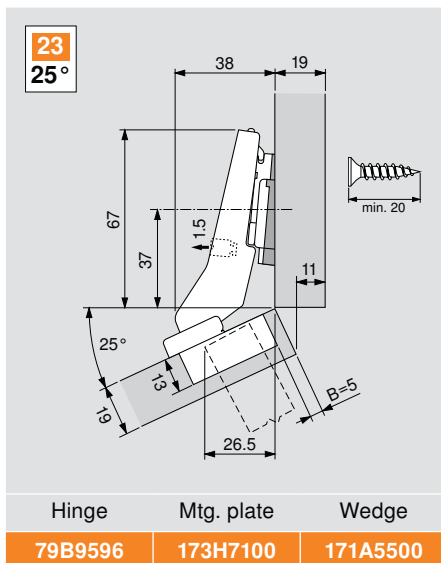
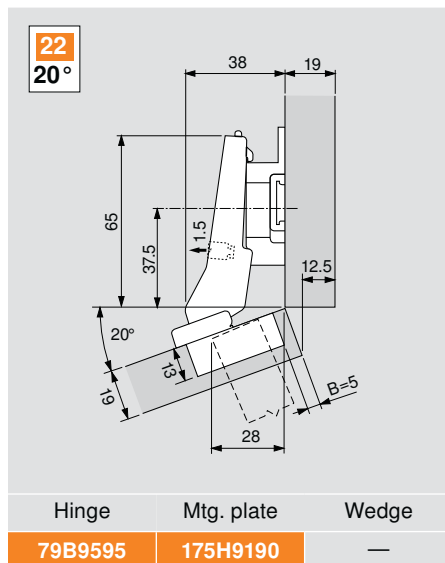
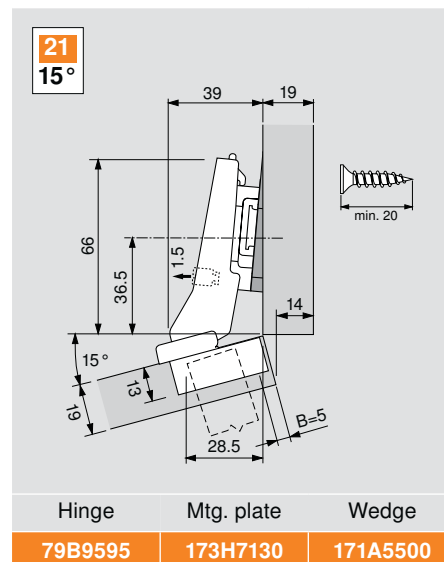
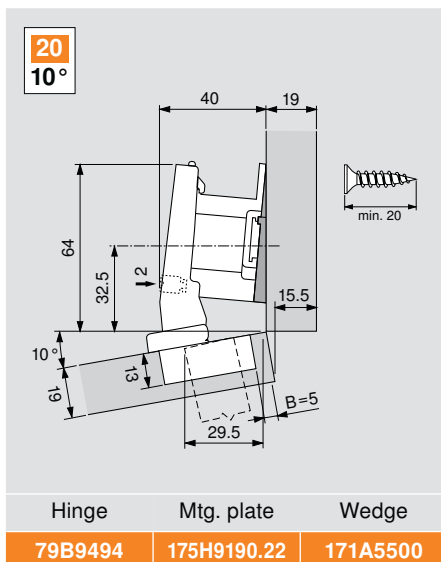
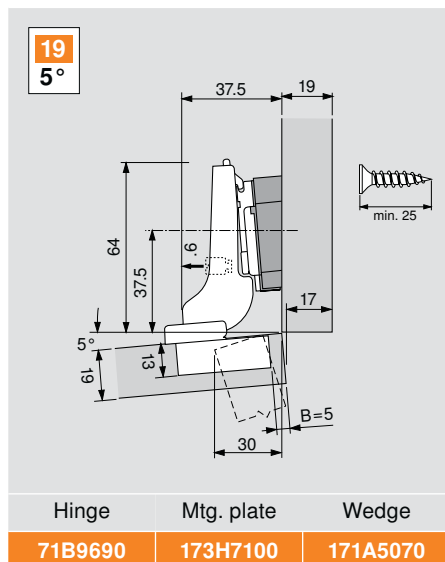


Positive angle applications



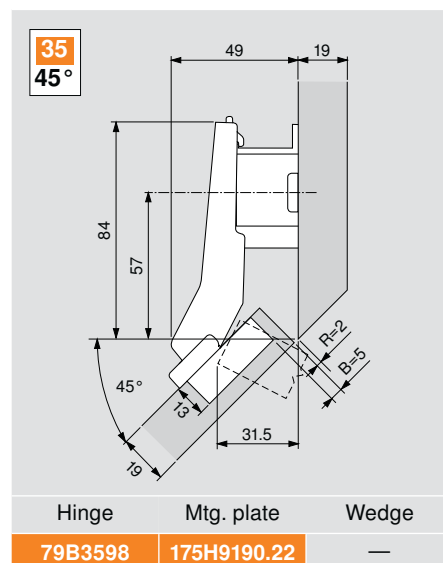
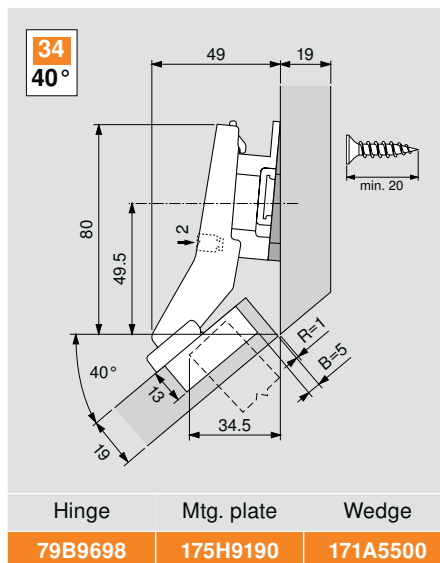
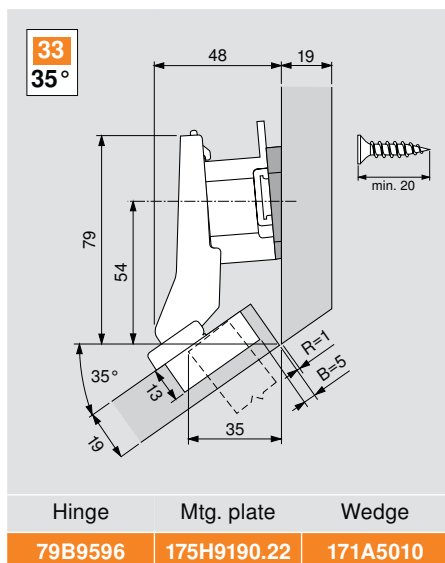
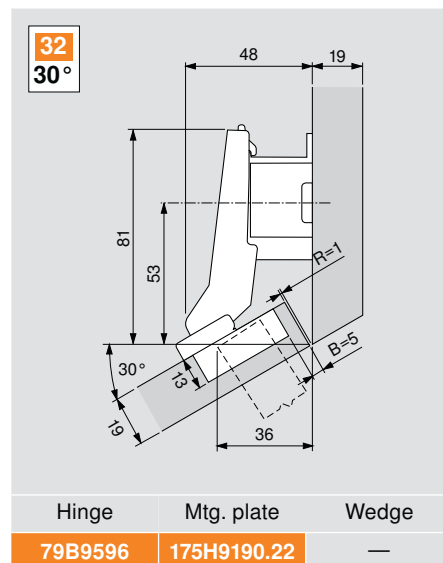
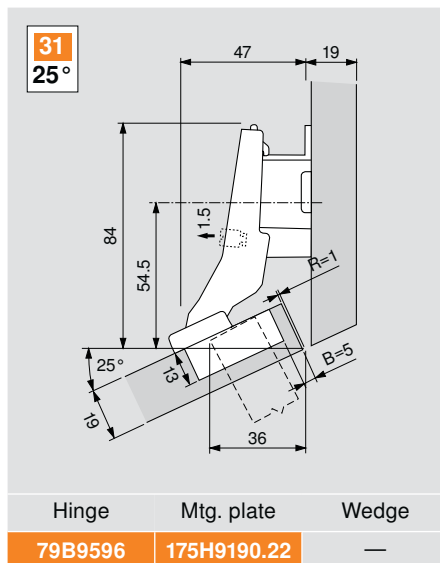
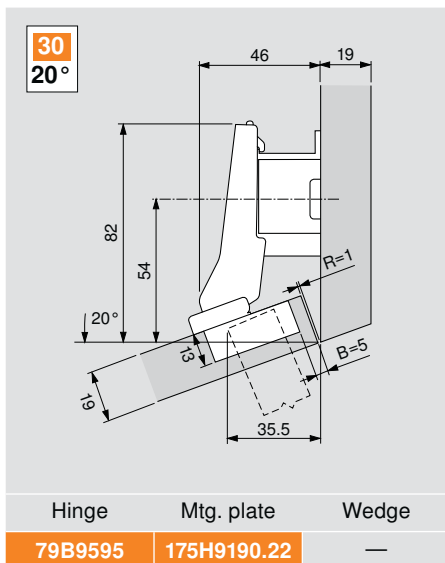
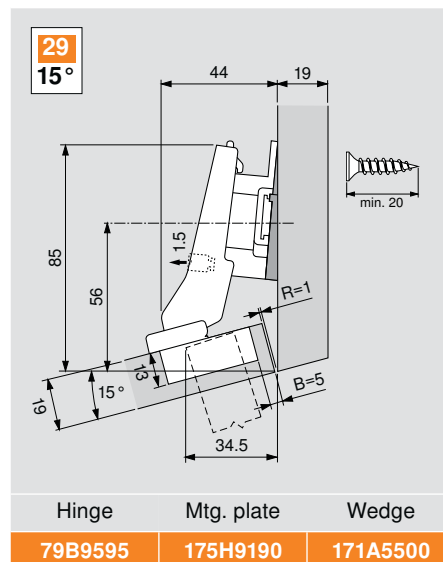
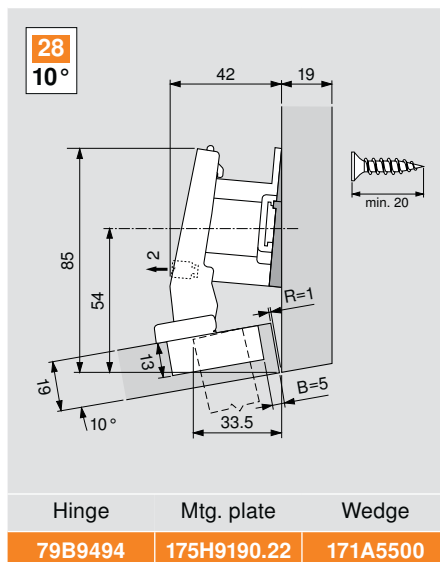
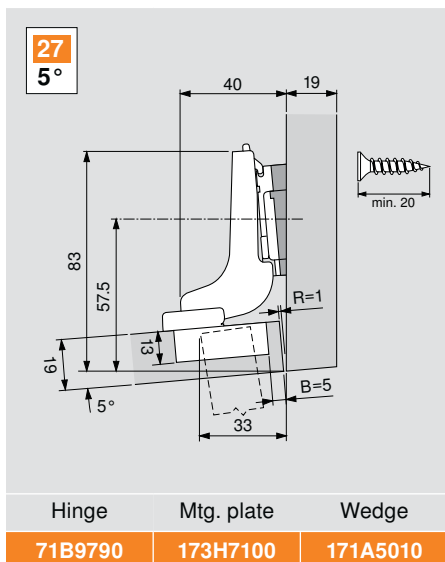


Positive angle applications



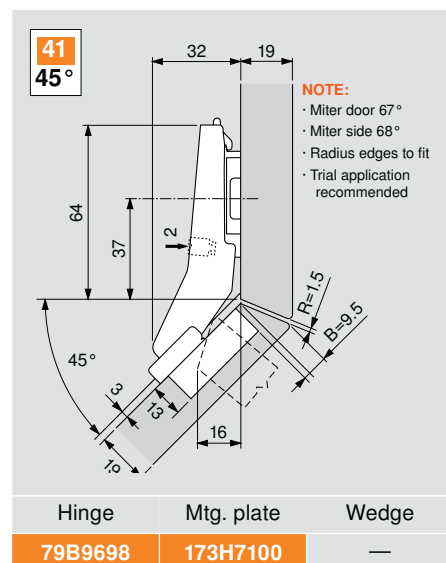
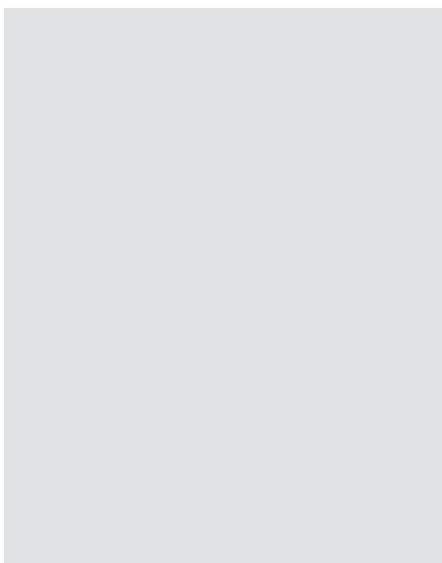
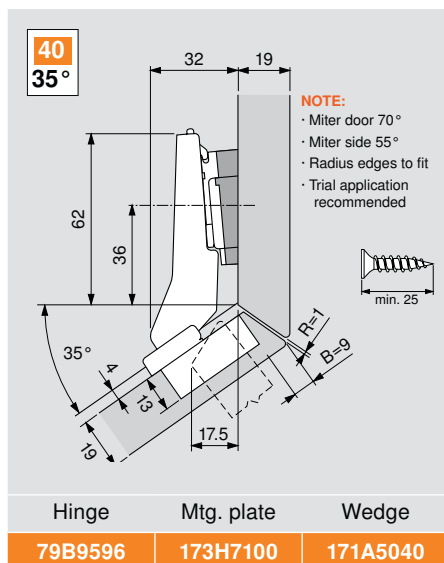
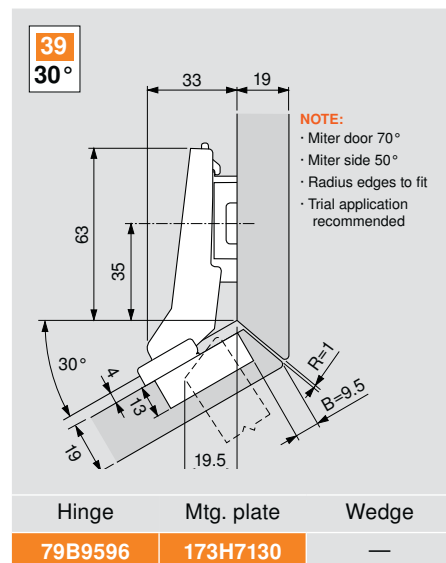
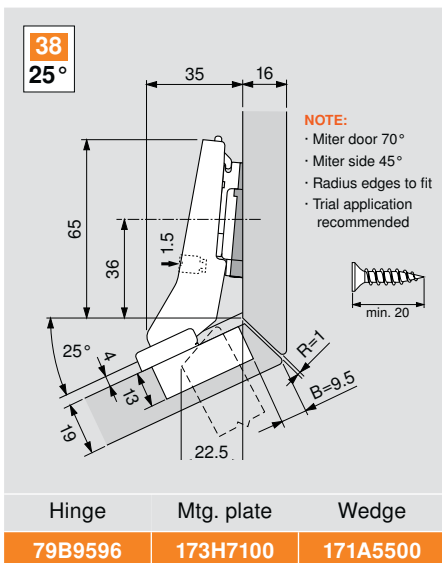
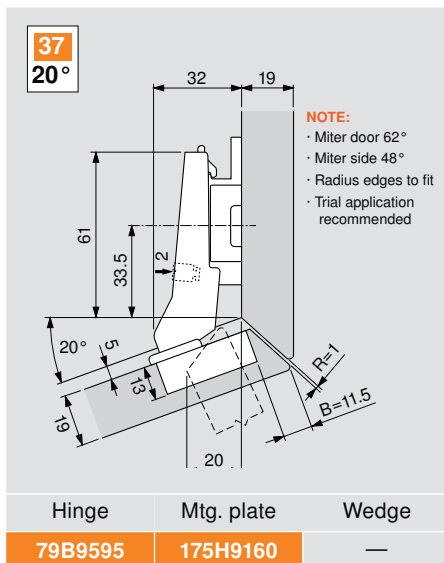
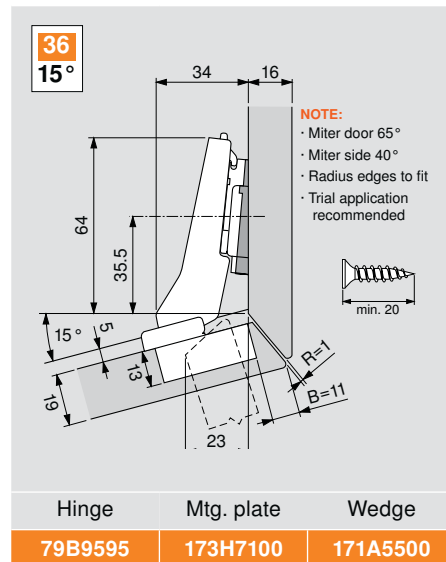
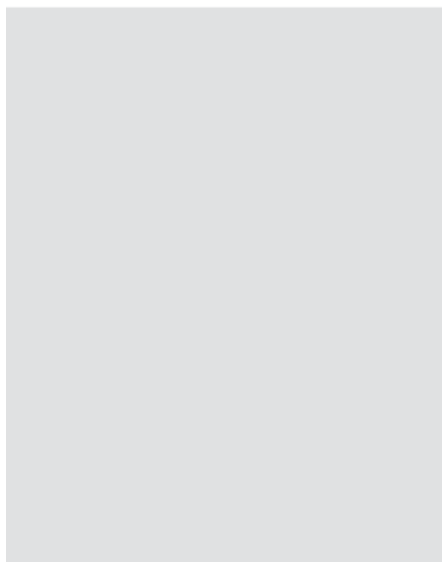
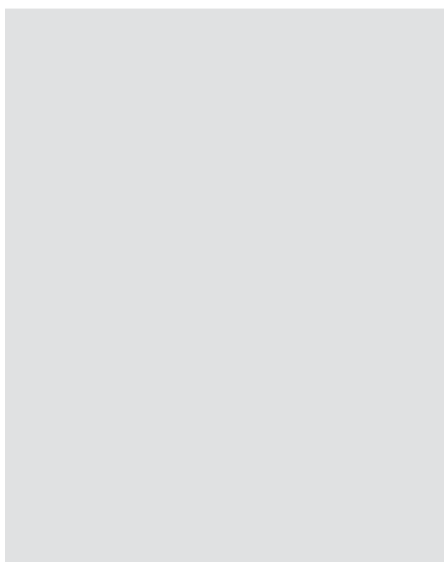
Inset door specifications

Positive angle applications



Mitered corner specifications

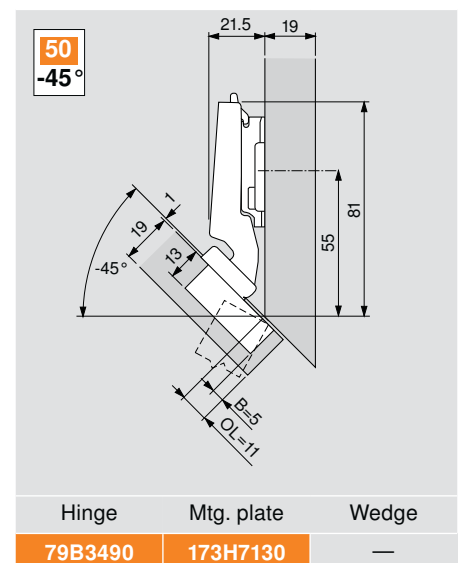
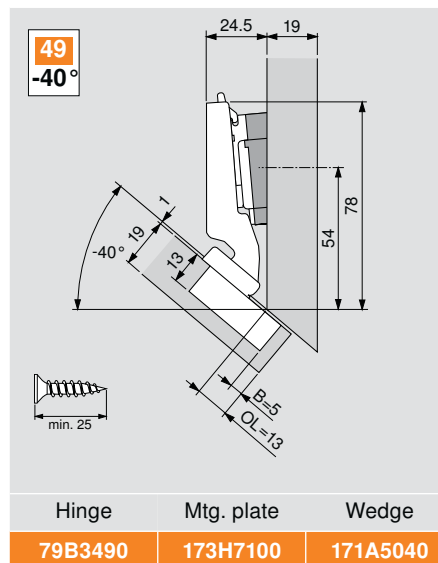
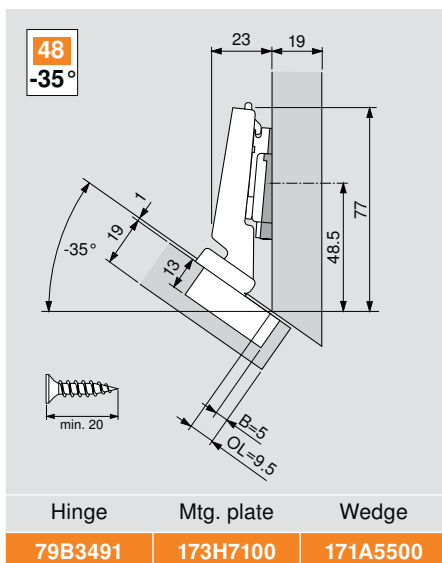
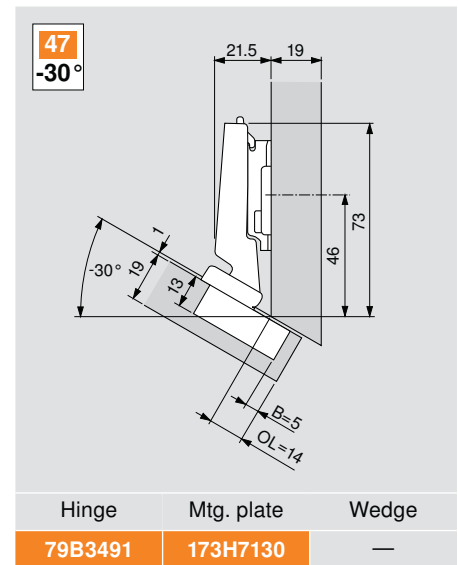
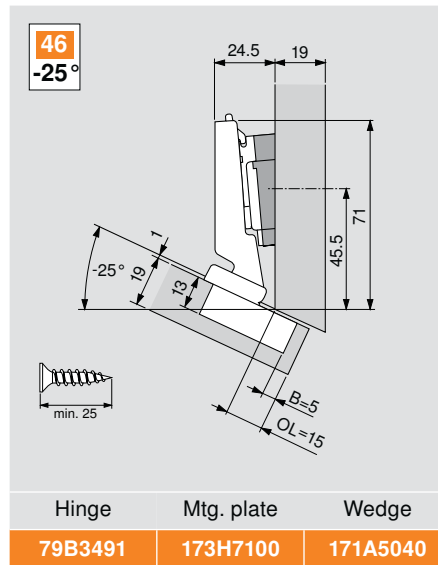
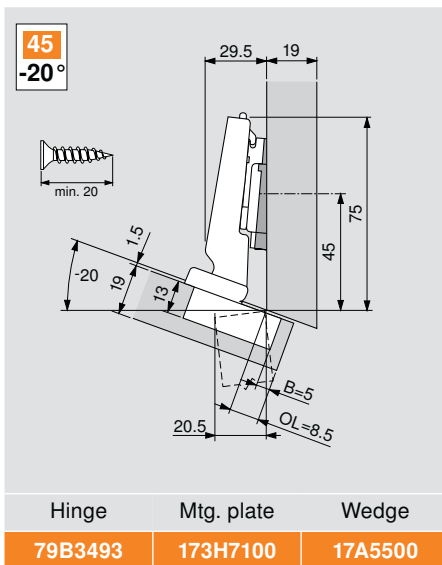
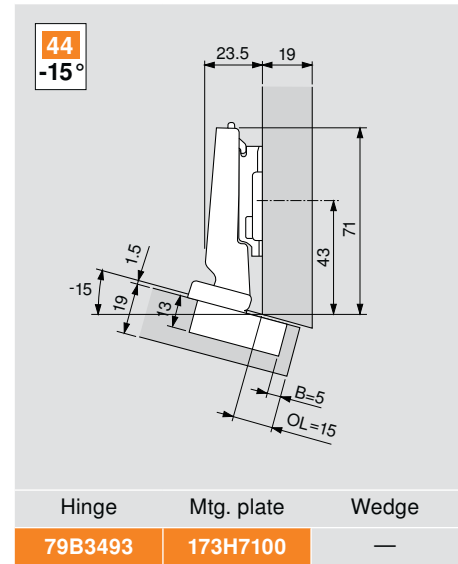
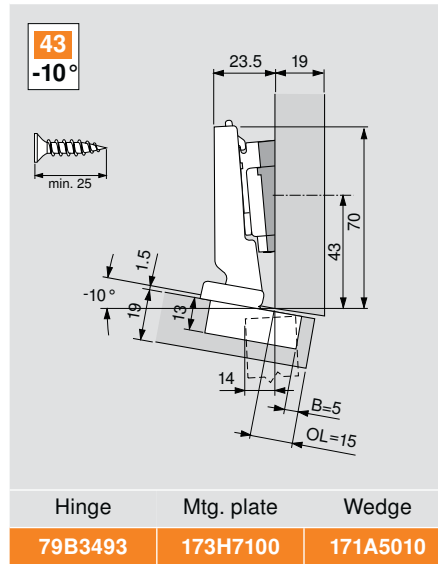
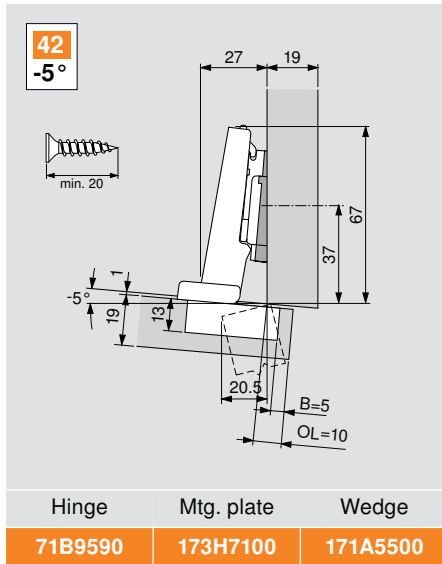
Positive angle applications



Maximum overlay specifications

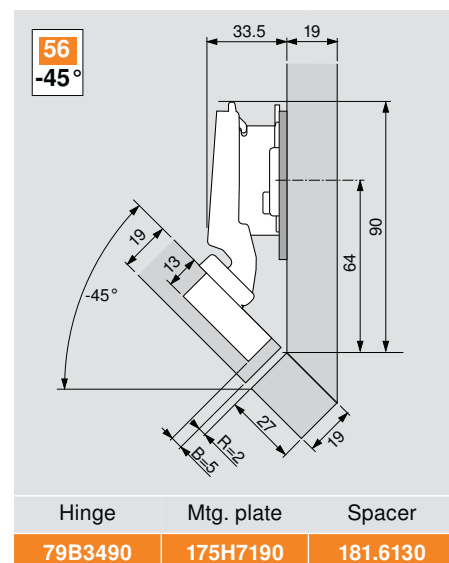
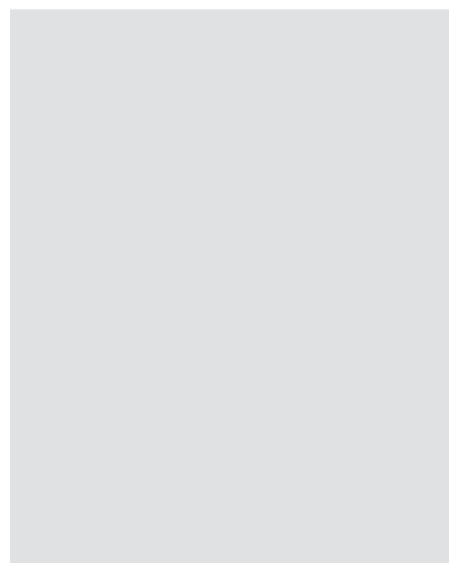
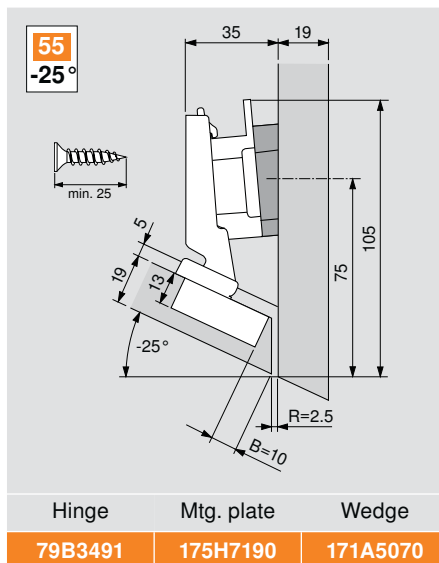
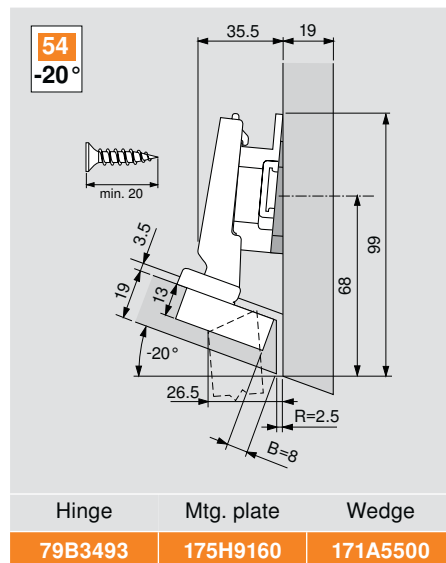
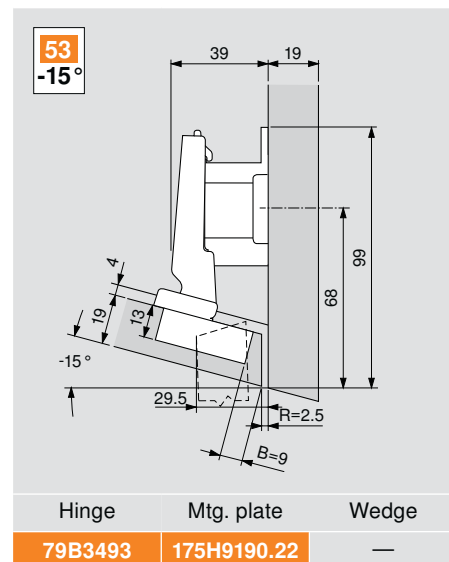
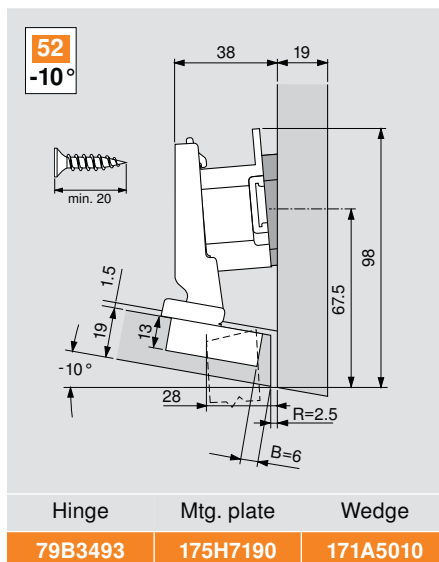
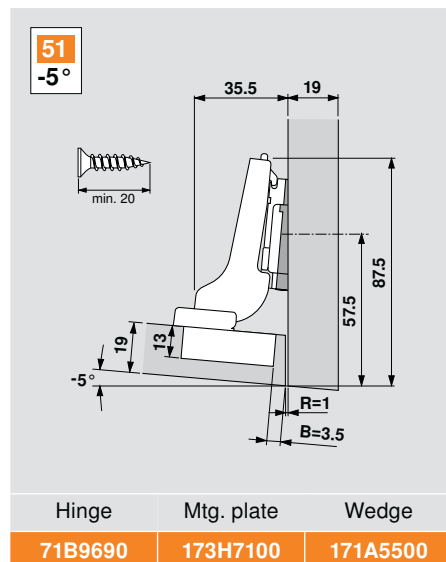


Negative angle applications





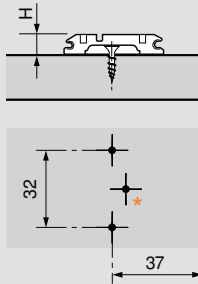
Negative angle applications



CLIP mounting plates

Standard one-piece wing mounting plates

Wood screw



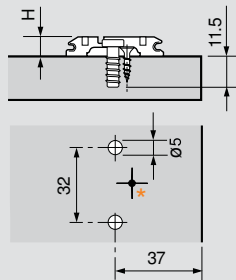
- Steel, nickel-plated
- Attached with #6 x 5/8" wood screws
- Height adjustment ± 3 mm

Part no.

0 plate height (H)	173L6100
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3 plate height (H)	173L6130
--------------------	----------

System screw



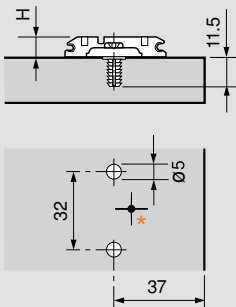
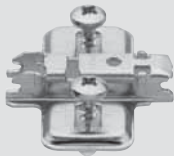
- Steel, nickel-plated
- Attached with pre-mounted Ø5 mm system screws (668.1450.EH)
- Height adjustment ± 3 mm

Part no.

0 plate height (H)	173L8100
--------------------	----------

3 plate height (H)	173L8130
--------------------	----------

EXPANDO



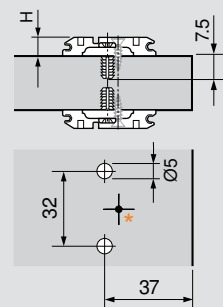
- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels (618.1500)
- Height adjustment ± 2 mm

Part no.

0 plate height (H)	174E6100.01
--------------------	-------------

3 plate height (H)	174E6130.01
--------------------	-------------

EXPANDO (twin application)

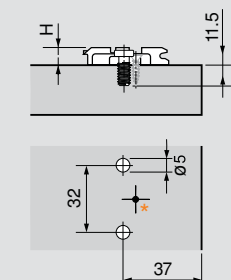


- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels for twin application (618.1500)
- Height adjustment ± 2 mm

Part no.

0 plate height (H)	174E610Z
--------------------	----------

System screw



- Zinc die-cast, nickel-plated
- Attached with pre-mounted Ø5 mm system screws (668.1450.EH)
- Height adjustment ± 3 mm

Part no.

0 plate height (H)	175L8100
--------------------	----------

3 plate height (H)	175L8130
--------------------	----------

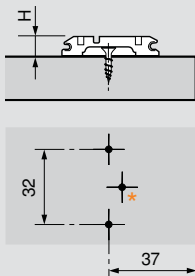
9 plate height (H)	175L8190
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* Add additional wood screw if used with wide angled hinges



Cam adjustable wing mounting plates

Wood screw



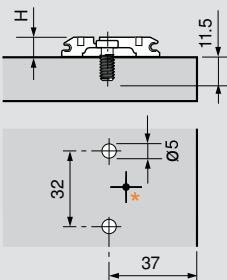
- Steel, nickel-plated
- Attached with #6 x 5/8" wood screws
- Cam height adjustment ± 2 mm

Part no.

0 plate height (H) **173H7100**

3 plate height (H) **173H7130**

System screw



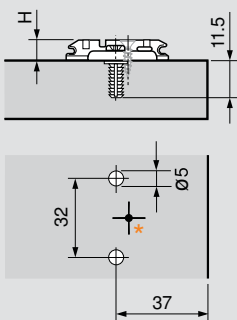
- Steel, nickel-plated
- Attached with #7 x 5/8" wood screws or Ø5 x 13 mm system screws
- Cam height adjustment ± 2 mm

Part no.

0 plate height (H) **173H9100**

3 plate height (H) **173H9130**

EXPANDO



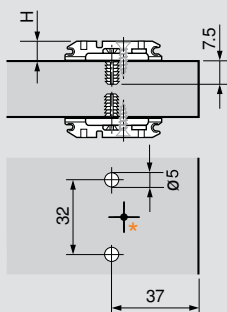
- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels (618.1500)
- Cam height adjustment ± 2 mm

Part no.

0 plate height (H) **174H7100E**

3 plate height (H) **174H7130E**

EXPANDO (twin application)

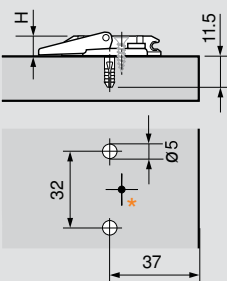


- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels for twin application (618.1500)
- Cam height adjustment ± 2 mm

Part no.

0 plate height (H) **174H7102E**

INSERTA



- Steel (closing lever – zinc die-cast, nickel-plated)
- Tool-free assembly with INSERTA self-anchoring feature
- Cam height adjustment ± 2 mm

Part no.

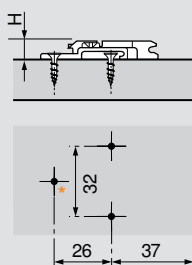
0 plate height (H) **174H7100I**

* Add additional wood screw if used with wide angled hinges

CLIP mounting plates

Standard two-piece wing mounting plates

Wood screw



- Zinc die-cast, nickel-plated
- Attached with #6 x 5/8" wood screws
- Height adjustment ± 2 mm

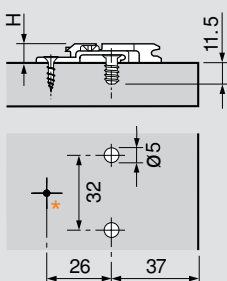
Part no.

0 plate height (H) **175H7100**

3 plate height (H) **175H7130**

9 plate height (H) **175H7190**

System screw



- Zinc die-cast, nickel-plated
- Attached with #7 x 5/8" wood screws or Ø5 x 13 mm system screws
- Height adjustment ± 2 mm

Part no.

0 plate height (H) **175H9100**

3 plate height (H) **175H9130**

6 plate height (H) **175H9160**

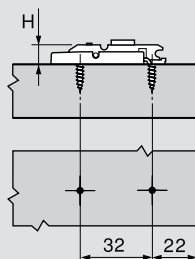
9 plate height (H) **175H9190**

18 plate height (H) **175H9190.22**

* Add additional wood screw if used with wide angled hinges

Cam adjustable In-line mounting plates

Wood screw

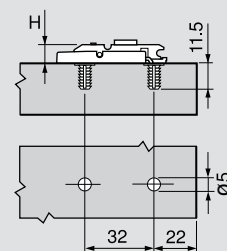
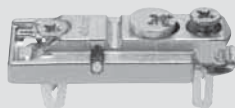


- Zinc die-cast, nickel-plated
- Attached with #6 x 5/8" wood screws
- Cam height adjustment ± 2 mm
- Use of mounting plate template recommended

Part no.

0 plate height (H) **175H5400**

EXPANDO



- Zinc die-cast, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels (618.1500)
- Cam height adjustment ± 2 mm
- Use of mounting plate template recommended

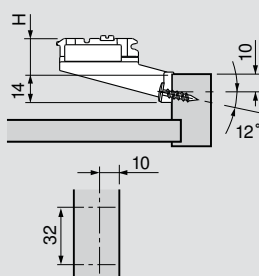
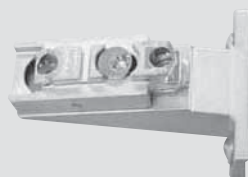
Part no.

0 plate height (H) **177H5400E**

3 plate height (H) **177H5430E**

Inset face frame adapter

Truss head screw



- Zinc die-cast, nickel-plated
- Attached with #8 x 3/4" truss head screws
- Can be used with applied bead molding
- Cam height adjustment ± 2 mm
- Use with half-cranked hinges only
- 170° hinges not recommended
- **Use of PlateMate required for installation**

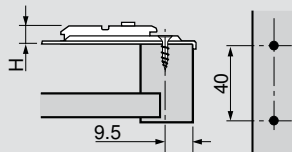
Part no.

9 plate height (H) **175H5030.21**



Face frame adapter plates

Cam adjustable center mount

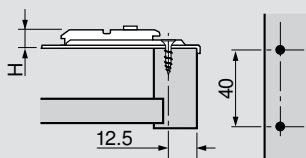


- Steel, zinc die-cast and nickel-plated
- Attached with #7 x 3/4" wood screws
- Center mount **9.5** (3/8")
- Cam height adjustment ± 2 mm
- 175H6000 not for use with INSERTA hinges
- Use of PlateMate recommended

Part no.

0 plate height (H)	175H6000
3 plate height (H)	175H6030
4.5 plate height (H)	175H6040
6 plate height (H)	175H6060

Cam adjustable off-center mount

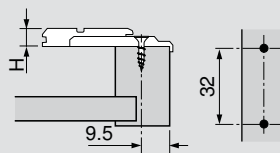
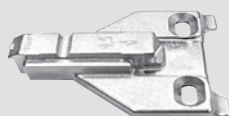


- Steel, zinc die-cast and nickel-plated
- Attached with #7 x 3/4" wood screws
- For use with INSERTA hinge cups
- Off-center mount **12.5** (1/2")
- Cam height adjustment ± 2 mm
- Use of PlateMate recommended

Part no.

0 plate height (H)	175H6600
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Center mount

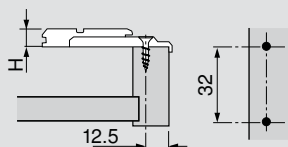
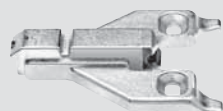


- Zinc die-cast, nickel-plated
- Attached with #7 x 3/4" wood screws
- Center mount **9.5** (3/8")
- Height adjustment ± 2 mm
- Use of PlateMate recommended

Part no.

3 plate height (H)	175L6030.21
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Off-center mount

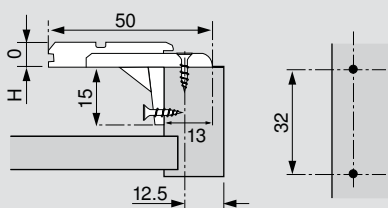


- Zinc die-cast, nickel-plated
- Attached with #7 x 3/4" wood screws
- Off-center mount **12.5** (1/2")
- Height adjustment ± 2 mm
- Use of PlateMate recommended

Part no.

0 plate height (H)	175L6600.22
3 plate height (H)	175L6630.22
6 plate height (H)	175L6660.22

With flange



- Recommended when using the 170° and zero protrusion hinges on face frame cabinets
- Zinc die-cast, nickel-plated
- Attached with #7 x 3/4" wood screws
- Off-center mount **12.5** (1/2")
- Height adjustment ± 2 mm
- Use of PlateMate recommended

Part no.

0 plate height (H)	175L6600.24
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Assembly aids

Knock-in tool

Can be used to insert all Blum press-in hinges.



Part no.

Knock-in tool

ZME.0710

Universal insertion ram

Can be used for inserting all Blum press-in Euro hinges



Part no.

Universal insertion ram

MZM.0040

Machine drill bits



Ø5 mm



Ø8 mm



Ø10 mm



Ø35 mm

Part no.

Ø5 mm drill bit (RH)

M01.ZB05.D2 R

Ø5 mm drill bit (LH)

M01.ZB05.D3 L

Ø8 mm drill bit (LH)

M01.ZB08.03 L

Ø10 mm drill bit (RH)

M01.ZB10.02 R

Ø10 mm drill bit (LH)

M01.ZB10.03 L

Ø20 mm drill bit (RH)

M01.ZB20.02 R

Ø35 mm drill bit (RH)

M01.ZB35.02 R

Drill bits without center point

For use on thin or profiled doors



Ø8 mm



Ø35 mm

Part no.

Ø8 mm drill bit without center point (LH)

M01.ZB08.OS L

Ø35 mm drill bit without center point (RH)

M01.ZB35.OS R

Twist drill bits — high speed steel



VPB-5



Twist drill bit



*Chuck for DB-2mm

Part no.

VPB-5 centering bit

VPB-5

Ø2 mm left

DB-2mm

Ø2.5 mm right

DB-2.5mm

Ø5 mm right

DB-5mm

Ø8 mm right

DB-8mm

Ø10 mm right

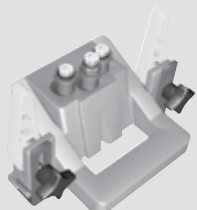
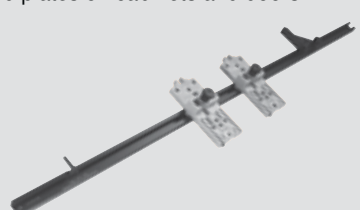
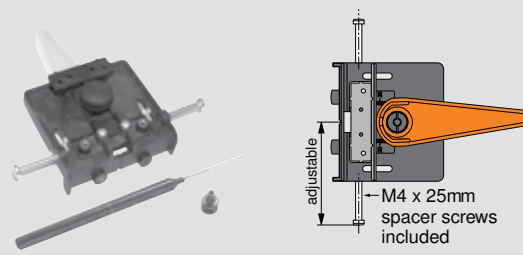
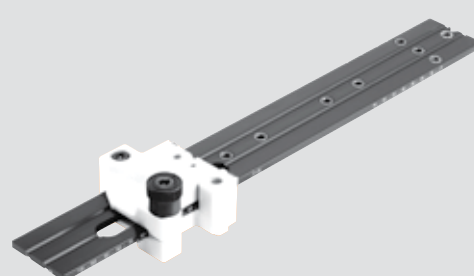
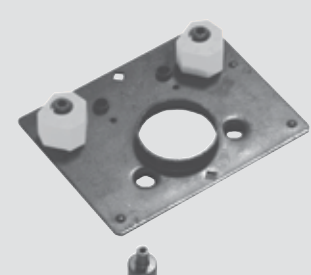
DB-10mm

Ø10 mm chuck for DB-2mm

DB-10 x 2mm

*Use to pilot bore for screw-on hinges with MINIPRESS or MINIDRILL

Templates

ECODRILL Pre-bores doors for Blum hinges  Part no. ECODRILL M31.1000	QUICKFIX Locates and matches positions of hinges and plates on cabinets and doors  Part no. QUICKFIX 65.7500.02	Mounting plate template Use to mark screw locations for Blum mounting plates  Part no. Template 65.5310	
PLATEMATE Boring template for all Blum face frame adapter plates  Part no. PLATEMATE 65.5030.01			ECOJIG Used to bore Ø5 mm holes for mounting plates that are mounted with system screws, EXPANDO dowels or INSERTA  Part no. ECOJIG 65.5070
Universal individual template  - For pre-boring mounting plates - Also used for marking and pre-boring cabinet profiles, BLUMOTION, TIP-ON adapter plates and AVENTOS locating pins - Calibrated scale for accurate setting Set includes: - Universal individual template - Ø2.5 mm and Ø5 mm stop collars - Allen wrench Part no. Universal individual template 65.1051.01			
INSERTA boring template  - Used for installing Blum hinges with INSERTA or EXPANDO - For boring Ø8 mm dowel holes after Ø35 mm hole is bored - Boring distance adjusts from 2 mm to 8 mm - Also bores Ø5 mm holes for system screw mounting plates - Includes drill stop collar to pilot bore Ø2.5 mm for screw-on plates Part no. INSERTA boring template 65.0590			

Assembly aids

Machines

MINIPRESS P — Deluxe boring and insertion machine



- Front adjustable boring distance with digital counter
- Pneumatic hold-down clamps
- Boring depth adjustment
- Ruler stops (qty 4)
- Tool kit included
- Dust collection attachment
- Optional laser center line set
- Accepts new 8 or 9 spindle heads

Part no.

Single phase — 220V power	M53.1053*US
Three-phase — 220V power	M53.1004*US

MINIPRESS M — 110V manual boring and insertion machine



- V110 power with molding plug (portable)
- Does not require pressurized air
- Ruler stops (qty 4)
- Tool kit included
- Dust collection attachment
- Accepts new 8 or 9 spindle heads

Part no.

Single phase — 110V power	M52.1056*US
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MINIDRILL P — Standard boring machine



- Front adjustable boring distance
- Ruler stops (qty 4)
- Tool kit included
- Dust collection attachment
- Optional laser center line, digital counter and hold down clamps sets
- Accepts new 8 or 9 spindle heads

Part no.

Single phase — 220V power	M53.1053*50
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Optional items



Part no.

Laser center line set

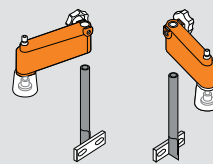
MZR.5300.US



Part no.

Digital counter set

MZE.2110



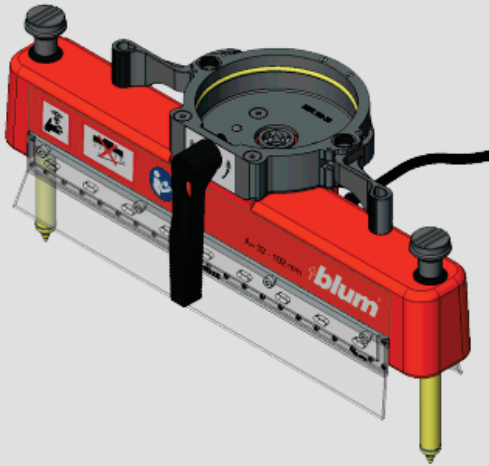
Part no.

Hold down clamp set

M53.0720.US

Machine accessories

9 spindle head



NOTE: Four RH and five LH bits

- 9 spindle head for use with MINIPRESS/MINIDRILL
- Bores nine holes spaced 32 mm apart, parallel to the fence
- Once aligned the spindle head is always parallel to the fence and does not require additional adjustment
- Bores cabinet side panel for 32 mm system boring for Blum mounting plates and runners
- Newly designed retractable index pins at both ends to permit continuous boring
- Requires retrofit set for attachment to machines produced in 2009 and prior
- Replaces current 7 spindle head — MZK.1000.US

Includes:

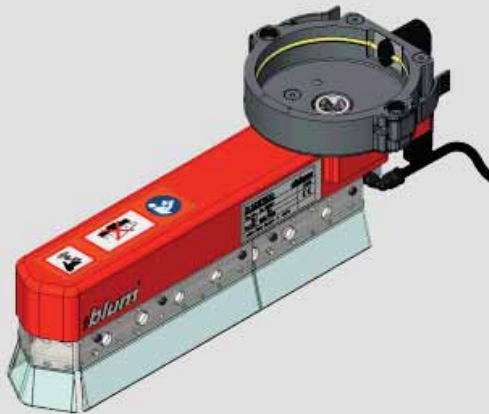
- Ø3 mm allen wrench
- Distance spacer
- Drive pin
- Air hose

Part no.

9 spindle head

MZK.1900

8 spindle head



NOTE: Four RH and four LH bits

- 8 spindle head for use with MINIPRESS/MINIDRILL
- Bores eight holes spaced 32 mm apart, perpendicular to the fence
- Once aligned the spindle head is always perpendicular to the fence and does not require additional adjustment
- Bores all METABOX, TANDEMBOX and TANDEMBOX intivo front fixing brackets and galleries
- Bores cabinet side panels for all Blum runner systems
- Requires retrofit set for attachment to machines produced in 2009 and prior
- Replaces current 8 spindle head — MZK.8000.US

Includes:

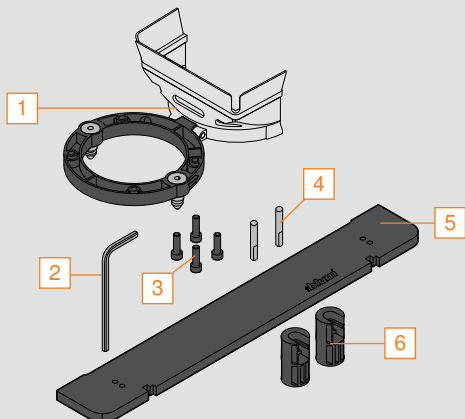
- Ø3 mm allen wrench
- Distance spacer
- Drive pin
- Air hose

Part no.

8 spindle head

MZK.8800

Spindle head retrofit set



- Required for attachment of 8 and 9 spindle heads to MINIPRESS/MINIDRILL produced in 2009 and prior
- Previous boring heads MZK.1000.US and MZK.8000.US cannot be used with the retrofit set

Set includes:

- 1 Adapter ring and shield
- 2 Ø5 mm allen wrench
- 3 Mounting bolts (qty 4)
- 4 Alignment pins (qty 2)
- 5 Alignment template
- 6 13 mm fixed depth stop (qty 2)

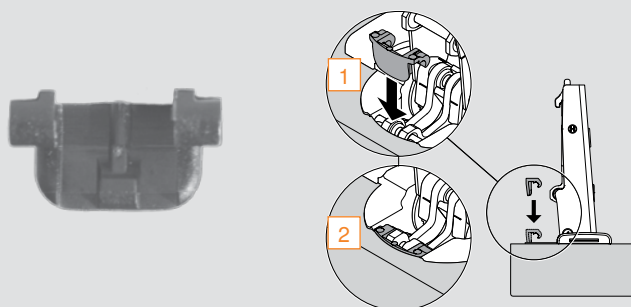
Part no.

Spindle head retrofit set

M30.1313.UM

Hinge accessories

Angle restriction clip



- Restricts opening angle of the CLIP top BLUMOTION hinge to 86°
- For use with CLIP top BLUMOTION 110°, 110°+ hinges only
- Angle restriction clip can be inserted/removed before or after the hinge has been installed

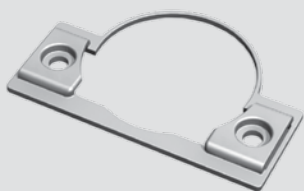
Part no.

Angle restriction clip

70T3553

Hinge cup spacer

1.5 mm spacer for use under the hinge cup. For retrofitting existing doors with a cup depth less than 13 mm.



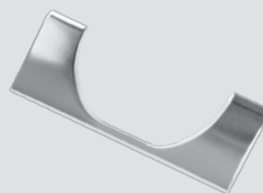
Part no.

Hinge cup spacer

70T3507.21

Hinge cup cover cap

For use with CLIP top BLUMOTION hinges only. Suitable for screw-on, press-in and EXPANDO hinge cups.

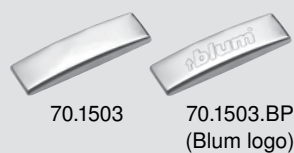


Part no.

Hinge cup cover cap

70T3504

Hinge arm cover cap



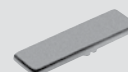
70.1503

70.1503.BP
(Blum logo)

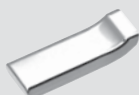


90M2103.01

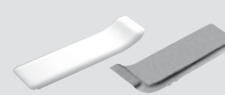
90M2103.22
(Blum logo)



90M2203



70.1663



94M3203

Nylon

Steel

110°, 110°+, and 95° thick door hinges

Straight-arm

90M2103.01

70.1503

With Blum logo

90M2103.22

70.1503.BP

Cranked-arm

94M3203

70.1663

Diagonal 45°, blind corner and narrow aluminum door hinges

Specialty hinges

90M2103.01

70.1503

Angled hinges

Straight-arm

90M2203

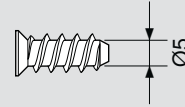
70.1503

NOTE: Custom logo available in nylon or nickel-plated steel cover caps. Consult your Blum representative for minimum quantities and lead times on custom logos.

Deep thread wood screw

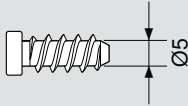
Part no.

#6 x 1/2", #2 Phillips	6062N
#6 x 5/8", #2 Phillips	606N
#6 x 5/8", #2 POZI	606P
#6 x 3/4", #2 Phillips	6064N
#7 x 5/8", #2 Phillips	707N
#7 x 3/4", #2 Phillips	7074N

Deep thread system screwPilot bore $\varnothing 5$ (3/16") hole

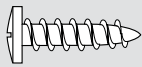
Part no.

#7 x 10 mm, #2 POZI	661.1000.HG
#7 x 11.5 mm, #2 POZI	661.1150.HG
#7 x 13 mm, #2 POZI	661.1300.HG
#7 x 14.5 mm, #2 POZI	661.1450.HG
#7 x 20 mm, #2 POZI	661.2000.HG
#7 x 25 mm, #2 POZI	661.2500.HG

Pan head system screwPilot bore $\varnothing 5$ (3/16") hole

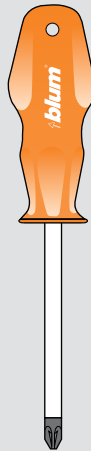
Part no.

#7 x 14.5 mm, #2 POZI	668.1450.EH
-----------------------	-------------

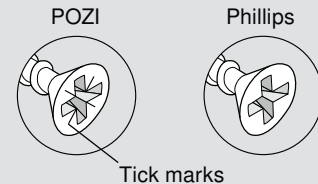
Truss and pan head screw

Part no.

#8 x 3/4", #2 Phillips	834TH
------------------------	-------

POZI DRIVER and bits

A POZI screwdriver (different from Phillips) is the most crucial tool you can use to assure that full torque is applied to all Blum mounting screws. POZI screws can be identified by the distinctive "tick" marks located in the center of the screw head recess.



Part no.

#2 POZI DRIVER	POZI DRIVER
1/4" Magnetic bit holder	BIT HOLDER
#2 x 1" POZI bit insert	POZI BIT #2x1
#2 x 2" POZI bit insert	POZI BIT #2x2

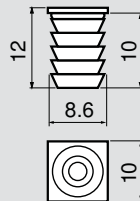
Twin application screwPre-bored $\varnothing 5$ (3/16") hole

Part no.

14 (9/16") screw	612.2010
20 (25/32") sleeve	612.2020
24 (15/16") sleeve	612.2420

 $\varnothing 8$ mm dowels

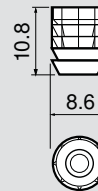
Square head dowel for attaching to hinges



Part no.

$\varnothing 8$ mm square dowel	70T5582.01
Installation screw	608.1200

Round dowel for insertion into doors

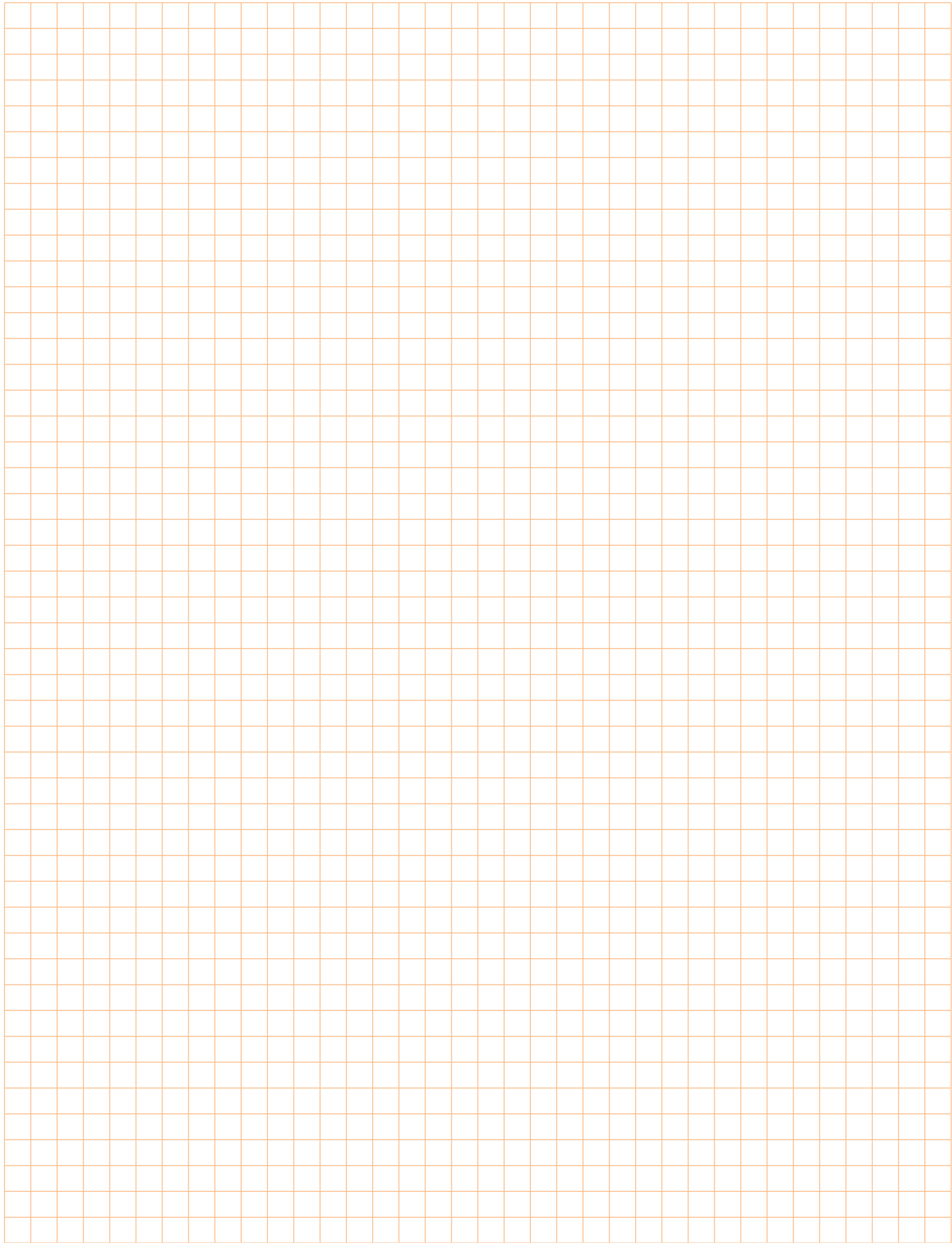


Part no.

$\varnothing 8$ mm round dowel	70.0532
Installation screw	608.1200

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Blum, Inc. Headquarters, Stanley NC

Why choose Blum



Blum, Inc. is a leading manufacturer of functional hardware for the kitchen cabinet and commercial casework industries specializing in lift systems, concealed hinges and drawer runner systems. Virtually all of the hardware needed to assemble and make cabinets functional is available within the wide range of quality Blum products. Blum supports the U.S. market with a network of more than 150 dependable distributors, 40+ knowledgeable Blum sales representatives and an experienced customer service department.

Commitment to manufacturing in the U.S.

Blum manufactures many of its products in our 450,000 sq ft manufacturing, logistics and warehouse facility located in Stanley, North Carolina. Manufacturing closer to the customer allows Blum to react quickly to changing customer needs including unexpected surges in demand. Customer pickups and deliveries can be timed to better match their production schedules. Blum is committed to manufacturing in the U.S. for the U.S. market.



Product development at Blum considers all of the various customers who will come in contact with our products. With this "Global Customer Benefits" philosophy we strive to create advantages for all users.



Blum, Inc. is ISO 9001 certified which means that you are assured of consistent quality in every Blum product. What's more they exceed the requirements of ANSI/ BHMA standards for cycle life, static load and self-closing performance.



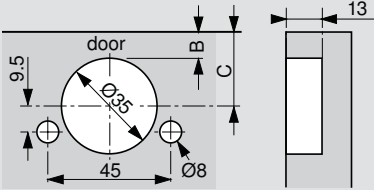
Please visit www.blum.com for information on other Blum products.
Technical specifications subject to change without notice.
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Quick reference

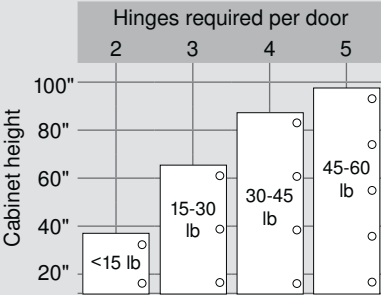
Hinge cup centerpoint



C = Cup centerpoint

20.5	21.5	22.5	23.5	24.5
13/16"	27/32"	7/8"	15/16"	31/32"
3	4	5	6	7
B = Bore distance				

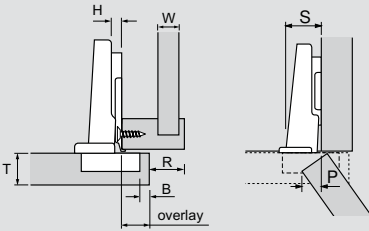
Hinges per door



This chart can serve as a guide for determining the number of hinges per door. Note that door weight can also determine the number of hinges required.

NOTE: The distance between the top and bottom hinges must be greater than the width of the door

Hinge abbreviation key



B	=	Boring distance
H	=	Plate height
OL	=	Door overlay
P	=	Door protrusion
R	=	Reveal
S	=	Side arm protrusion
T	=	Door thickness
W	=	Side panel width
X	=	Fixed distance

Fixed distance (X)

The distance that the cup overlays the cabinet side panel when a hinge is attached to a 0 mm mounting plate. This is used to calculate hinge overlay with the formula **X + B minus H = OL** (Fixed distance + boring distance minus plate height = overlay)

Conversion chart

mm	inch	
1	1/32	.031
1.5	1/16	.063
2	3/32	.094
3	1/8	.125
4	5/32	.156
5	3/16	.188
5.5	7/32	.219
6	1/4	.25
7	9/32	.281
8	5/16	.313
9	11/32	.344
9.5	3/8	.375
10	13/32	.406
11	7/16	.438
12	15/32	.469
13	1/2	.5
13.5	17/32	.531
14	9/16	.563
15	19/32	.594
16	5/8	.625
17	21/32	.656
17.5	11/16	.688
18	23/32	.719
19	3/4	.75
20	25/32	.781
20.5	13/16	.813
21	27/32	.844
22	7/8	.875
23	29/32	.906
24	15/16	.938
24.5	31/32	.969
25.4	1	1