

Premium concealed hinges



Premium concealed hinges

CLIP top and COMPACT hinges with integrated BLUMOTION

Elegant design and superior function

Get to know the advantages of integrated BLUMOTION.
Discover the possibilities of CLIP top BLUMOTION and
COMPACT BLUMOTION hinges. Inspire your customers.
Perfecting motion for doors, for the lifetime of the cabinet.

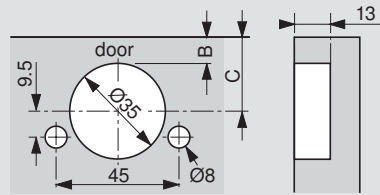


Contents

2	BLUMOTION soft close
4	CLIP top BLUMOTION hinges
6	General specifications
16	Angled hinge program
26	CLIP top 155° hinges
29	CLIP mounting plates
33	CLIP top BLUMOTION hinge accessories
34	COMPACT BLUMOTION hinges
36	General specifications
42	COMPACT BLUMOTION hinge accessories
43	Assembly aids
52	Part number index

Quick reference

Hinge cup centerpoint

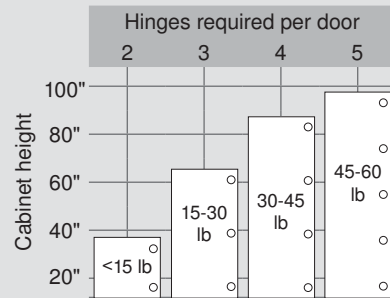


C = Cup centerpoint

20.5	21.5	22.5	23.5	24.5	25.5
13/16"	27/32"	7/8"	15/16"	31/32"	1"
3	4	5	6	7	8

B = Bore distance

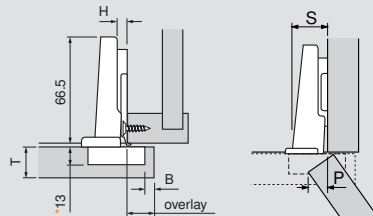
Hinges per door



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

FD = Fixed distance

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

Fixed distance (FD)

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 $X + B \text{ minus } H = OL$ (Fixed distance + boring distance minus plate height = overlay)



The elegant design of CLIP top BLUMOTION creates a sleek, sophisticated look while remaining easy to install and adjust



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.

CLIP top BLUMOTION or COMPACT BLUMOTION hinges allow you to simply slide the switch on the hinge, close the door once and deactivation is complete. This creates a quicker, but still silent, close. BLUMOTION can be reactivated in the same way.

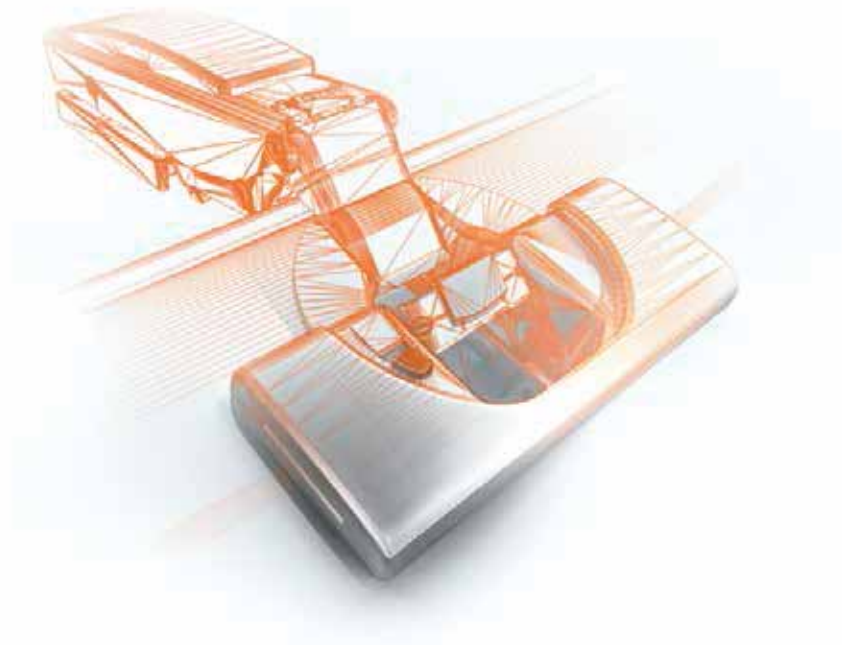


Innovative technology concentrated into a small space

Silent and effortless closing

Silent and effortless, that's how cabinet doors close with BLUMOTION. Because the BLUMOTION mechanism is now integrated into the hinge cup, the same quiet close is achieved with a more discreet hinge.

The braking action increases with the force of the door allowing it to close softly. This technology enables BLUMOTION to adjust itself automatically to each door size, weight and closing speed. Additionally, the integrated overload safety feature protects the BLUMOTION system from damage through abuse.





Hinge planning tools

Blum has downloadable Excel® spreadsheets that help determine the hinge that is right for your application.

Planning tools are easily accessible on our website at blum.com/planning



Elegant design, Superior function

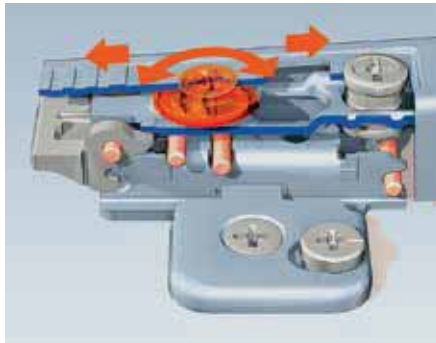
Silent and effortless, that's how cabinet doors close with CLIP top BLUMOTION hinges – regardless of the weight or closing speed. The BLUMOTION soft close mechanism is integrated in the hinge cup, and continues to provide the quality of motion you have come to expect from Blum.

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



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



INSERTA

The INSERTA mechanism enables tool-free attachment of the hinge to the door. Press the insertion lever down and the dowels expand to hold the hinge in place.



Mounting plates

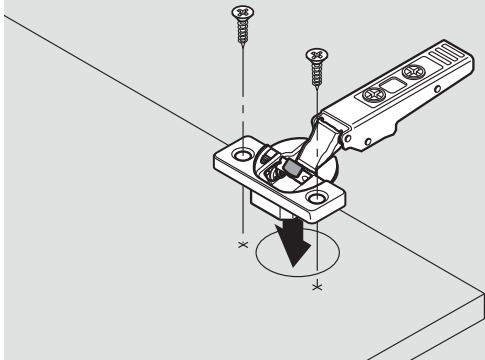
CLIP top BLUMOTION works with all current CLIP mounting plates so you can start using this new hinge right away with little change to production.

General specifications

Hinge-to-door attachment

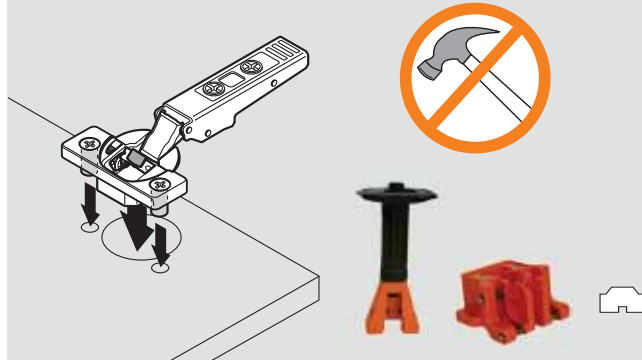
Screw-on

Use #6 wood screws



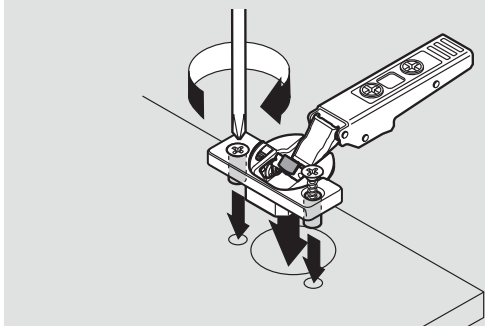
Press-in

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



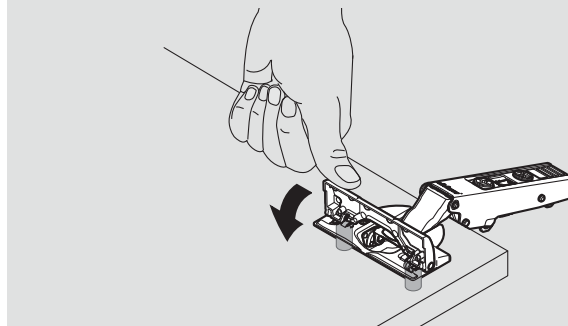
EXPANDO

Pre-attached expanding Ø8 mm dowels



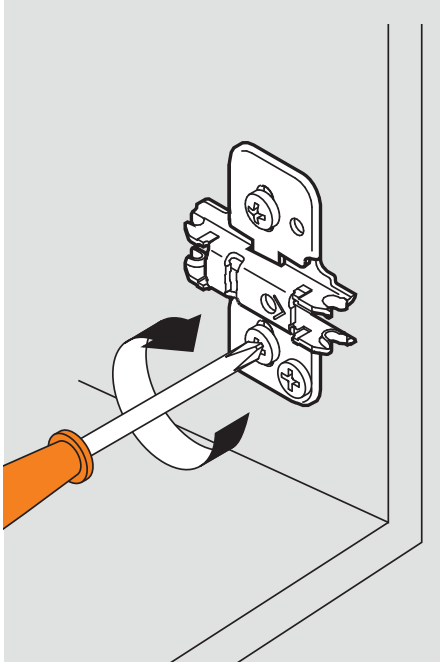
INSERTA

Tool-free attachment with INSERTA expanding Ø8 mm dowels



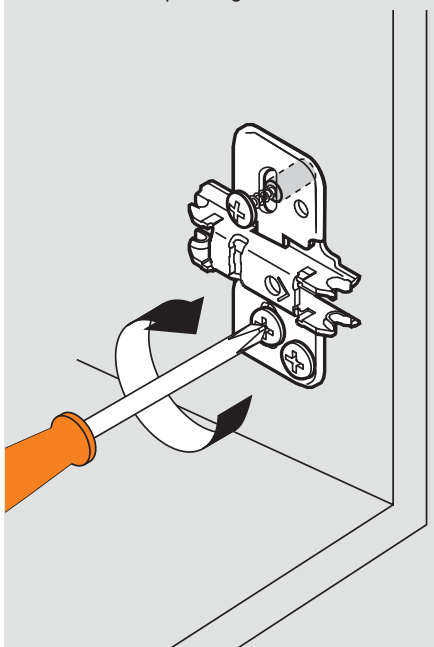
Mounting plate-to-cabinet

Screw-on



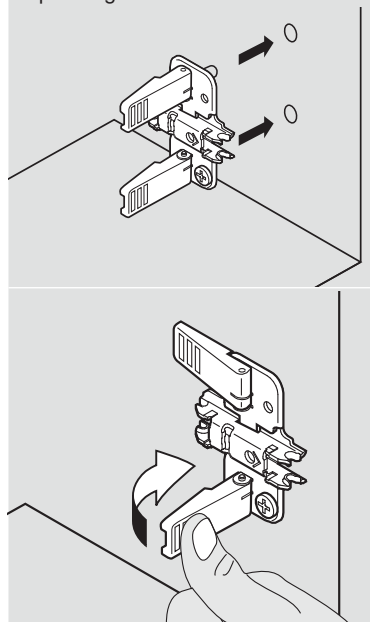
EXPANDO

Pre-attached expanding Ø5 mm dowels



INSERTA

Tool-free attachment with INSERTA expanding Ø5 mm dowels

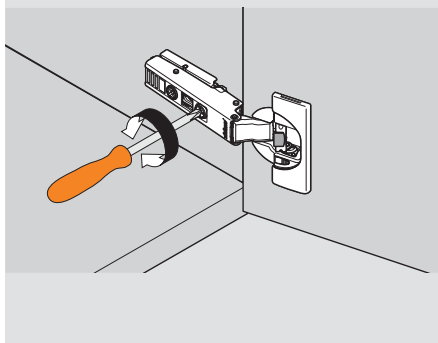
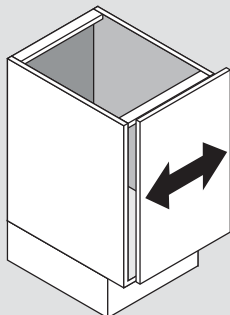


Adjustment

Three-dimensional adjustment

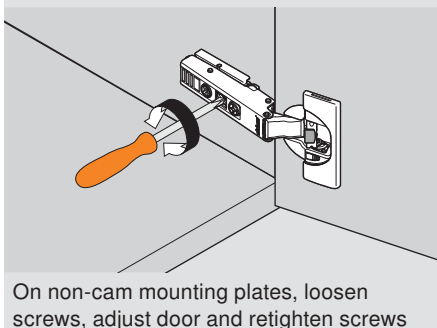
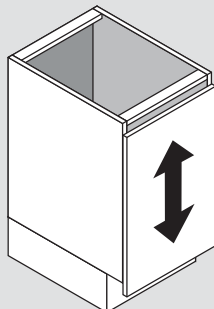
Side adjustment

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



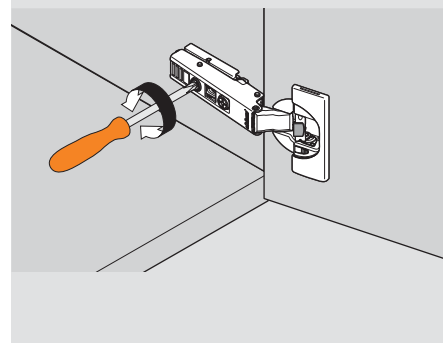
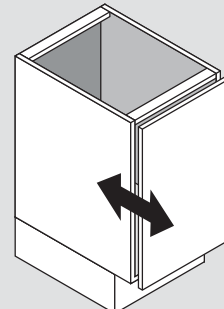
Height adjustment

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



Depth adjustment

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

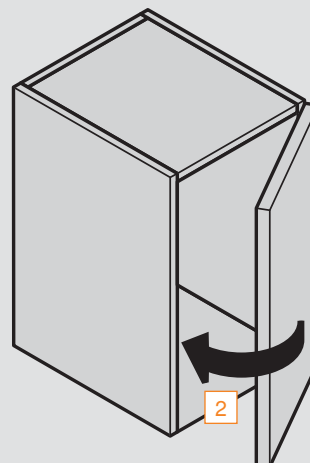
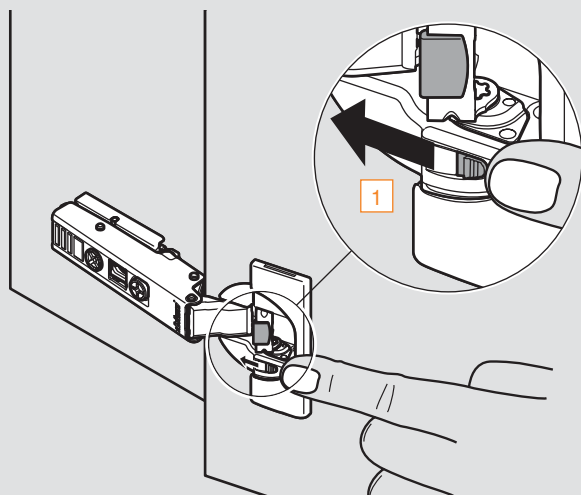


BLUMOTION deactivation

Deactivation switch on hinge cup

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

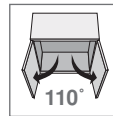
Door must be closed once for the deactivation to be complete. To reactivate, move switch back to original position.



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
- For door thicknesses up to 26 (1")
- Overload safety feature
- Compatible with existing CLIP mounting plates and hinge arm cover caps



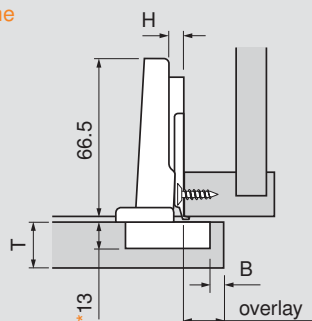
Minimum reveal table

	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 distance	16	19	22	24	26
T = door thickness					

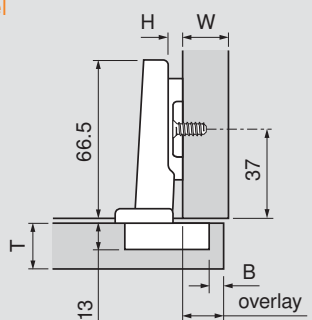
For thickness greater than 26 trial app. recommended

Overlay

Frame

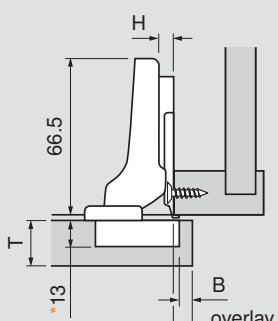


Panel

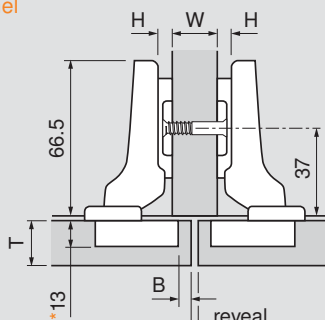


Partial/twin overlay

Frame

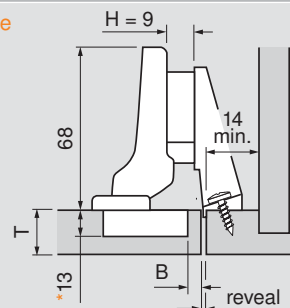


Panel



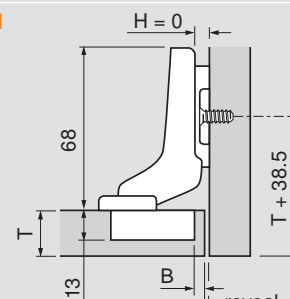
Inset

Frame



NOTE: Application requires 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 distance = 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		21.5	31
	3	4	5	6	7		fixed distance = 1.5	
	B = boring distance							

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

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

Abbreviations

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

Straight-arm	Self close
Screw-on	71B3550
Press-in	71B3580
EXPANDO	71B358E
INSERTA	71B3590

Half-cranked	Self close
Screw-on	71B3650
Press-in	71B3680
INSERTA	71B3690

Full-cranked	Self close
Screw-on	71B3750
Press-in	71B3780
INSERTA	71B3790

CLIP top BLUMOTION 110°+ hinges



Features

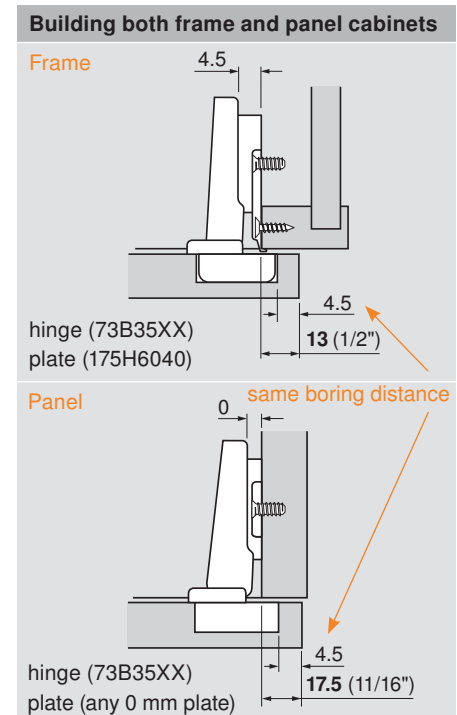
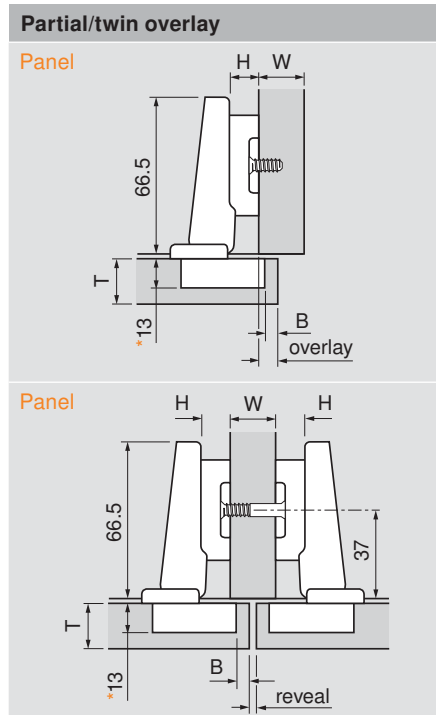
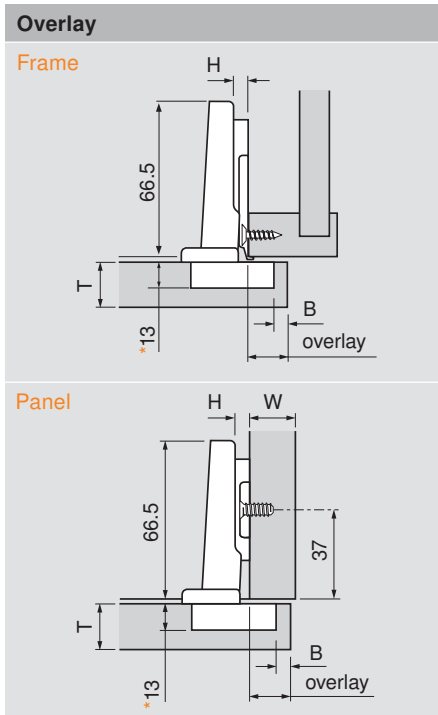
- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to **26** (1")
- Overload safety feature
- For door overlays up to 22 mm
- Compatible with existing CLIP mounting plates and hinge arm cover caps



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 distance	16	19	22	24	26

T = door thickness

For thickness greater than 26 trial app. recommended



*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 distance = 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 = 13		
	B = boring distance								
H	Reveal						W	P	S
9	2	–	–	–	–	–	16	19	29
	5	3	2	–	–	–	19		
	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:

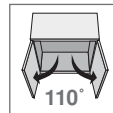
- One machine setting for boring all doors
- Same hinge used for both applications

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

Abbreviations	
H	= Plate height
P	= Door protrusion
S	= Side arm protrusion
W	= Side panel width

Door thickness dimensions for 110° and 110°+ hinges



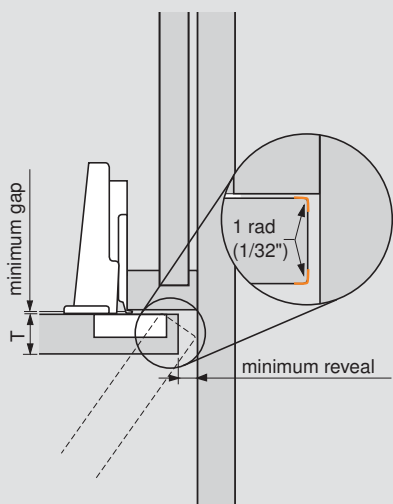
New geometry for thick door applications

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

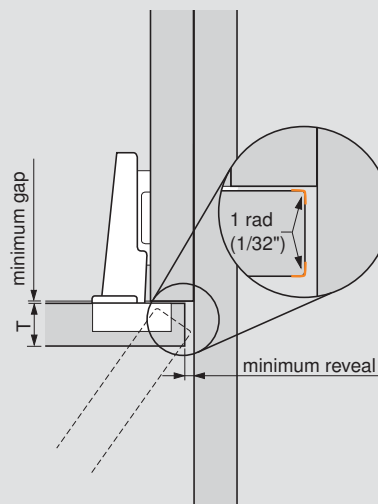
The factory setting for the door gap (distance between the back of door and front of side panel/frame) is 1.5 mm. For full opening angle without contacting the side panel or frame, the gap behind the door and the minimum reveal must be adjusted according to the table below.

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

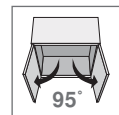
7/8" thick door		
Minimum reveal	B Bore	Minimum gap behind door
1.8	3	1.5
1.7	4	1.5
1.7	4.5*	1.5
1.7	5	1.5
1.6	6	1.5
1.6	7	1.5

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

*4.5 mm bore distance for use with 110°+ hinges, reference page 9

**Factory setting is 1.5, may require adjustment

CLIP top BLUMOTION 95° thick door hinges



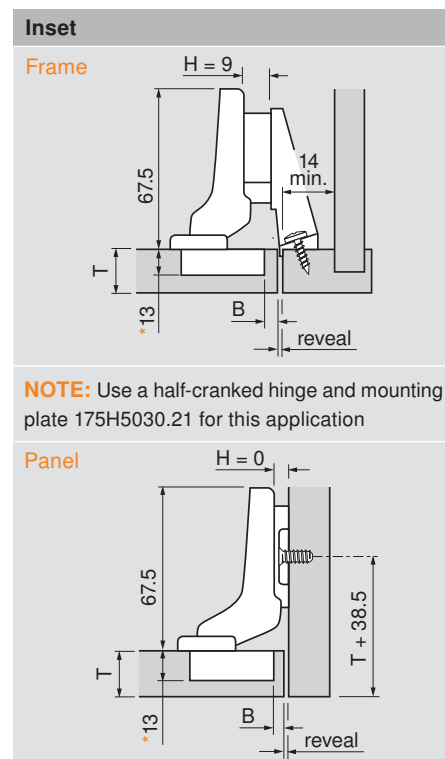
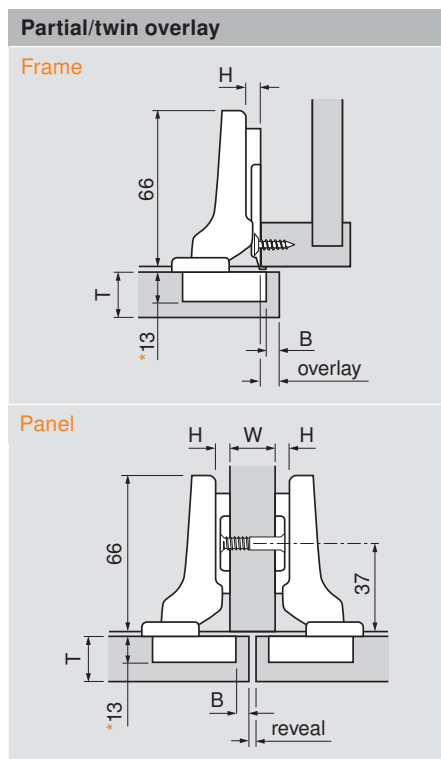
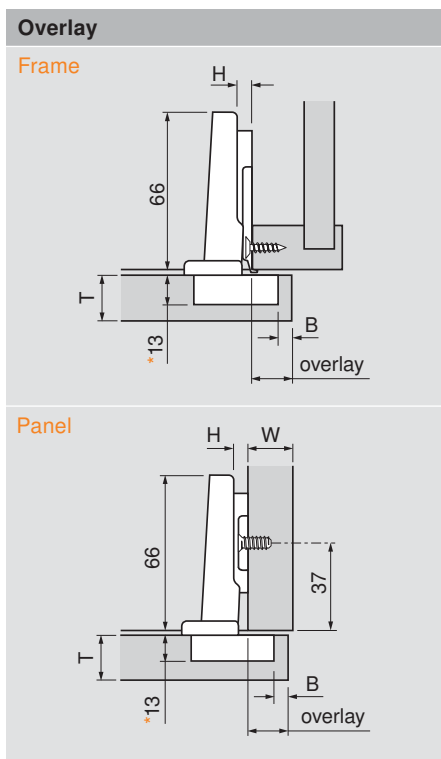
Features

- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to **30** (1-3/16")
- Overload safety feature
- Compatible with existing CLIP mounting plates and hinge arm cover caps



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 distance	19	22	24	26	28	29	30
T = door thickness							

For thickness greater than 30 trial app. recommended



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

*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 distance = 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 distance = 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
0	4	3	2	1	-	32.5	40
9	4.5	3.5	2.5	1.5	0.5	33	40.5
	3	4	5	6	7	fixed distance: 0 = -7, 9 = 1.5	
	B = boring distance						

Abbreviations

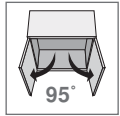
H	=	Plate height
P	=	Door protrusion
S	=	Side arm protrusion
W	=	Side panel width

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

Half-cranked	Self close
Screw-on	71B9650
Press-in	71B9680
INSERTA	71B9690

Full-cranked	Self close
Screw-on	71B9750
Press-in	71B9780
INSERTA	71B9790

CLIP top BLUMOTION 95° narrow aluminum door hinges



Features

- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to 22 (7/8")
- Overload safety feature
- Compatible with existing CLIP mounting plates and hinge arm cover caps

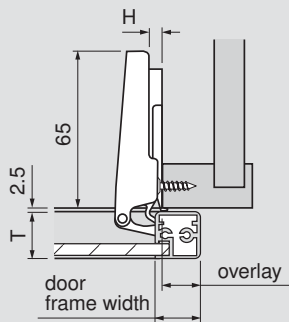


Minimum reveal table					
18	0.2	0.3	0.4	0.6	0.7
19	0.2	0.3	0.4	0.6	0.7
20	0.2	0.3	0.4	0.5	0.7
21	0.2	0.3	0.4	0.5	0.7
22	0.2	0.3	0.4	0.5	0.7
door frame width	18	19	20	21	22
T = door thickness					

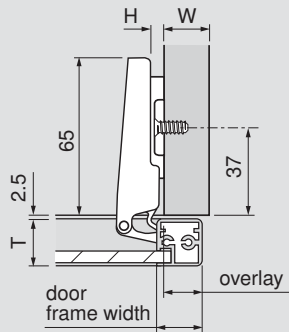
For thickness greater than 22 trial app. recommended

Overlay

Frame

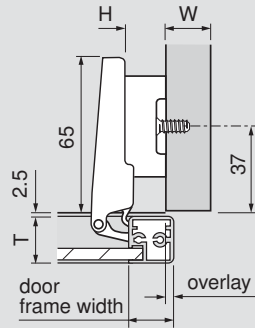


Panel

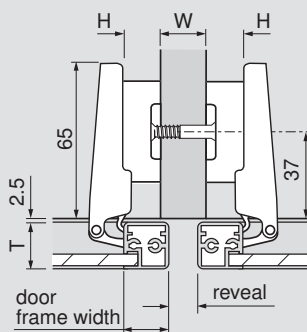


Partial/twin overlay

Frame

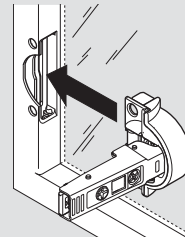


Panel

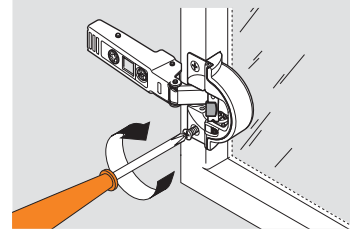


Installation

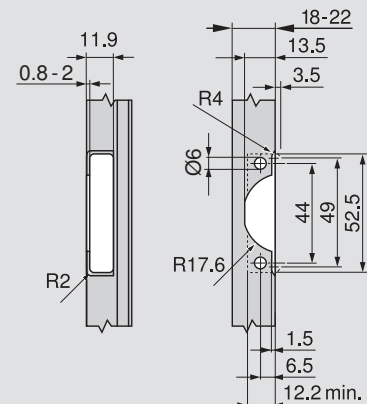
Attach cup adapter to the hinge and insert into machined openings



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

H	Overlay	P	S
9	7	23	31
B = fixed			

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

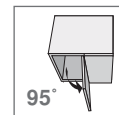
Abbreviations

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

Screw-on	Self close
	71B950A

Screw-on	Self close
	71B950A

CLIP top BLUMOTION 95° inset blind corner hinges



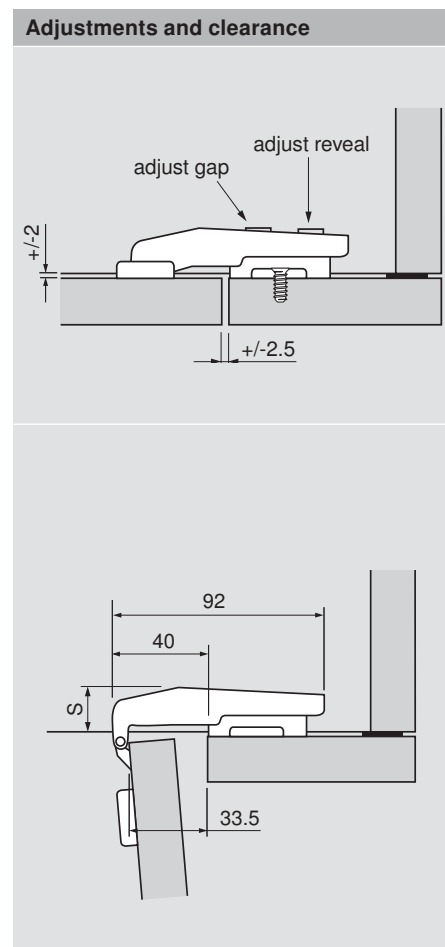
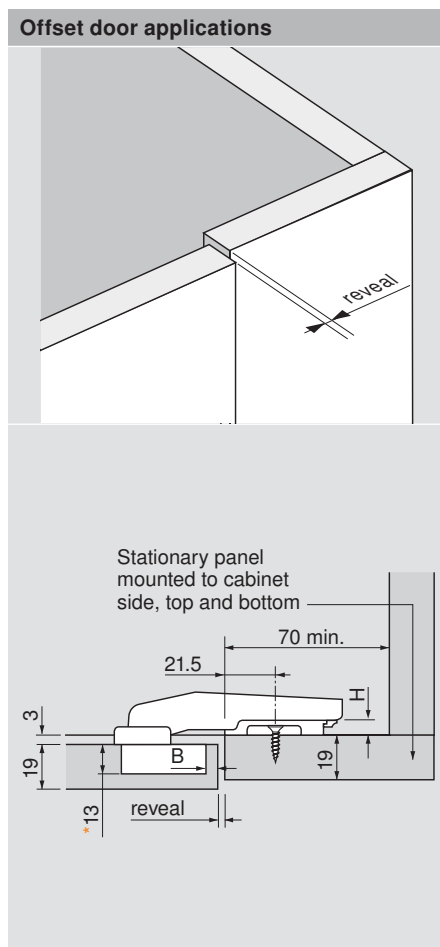
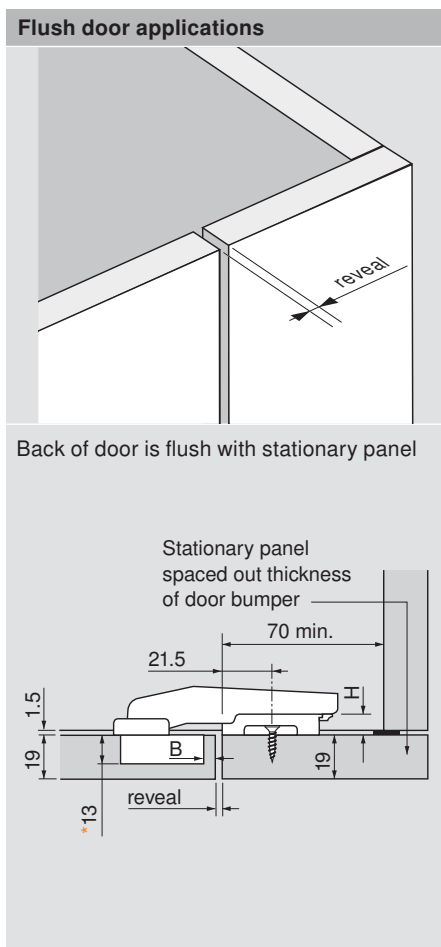
Features

- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to **24** (15/16")
- Overload safety feature
- Boring distance range 3 mm to 7 mm
- Compatible with existing CLIP mounting plates and hinge arm cover caps



Minimum reveal table						
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 distance	16	18	19	20	22	24
T = door thickness						

For thickness greater than 24 trial app. recommended



*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							

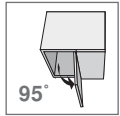
H	Reveal					P	S
0	5	4	3	2	1	33.5	21
	3	4	5	6	7		
B = boring distance							

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

Inset blind corner	Self close
Screw-on	79B9550
Press-in	79B9580
INSERTA	79B9590

Inset blind corner	Self close
Screw-on	79B9550
Press-in	79B9580
INSERTA	79B9590

CLIP top BLUMOTION 95° overlay blind corner hinge



Features

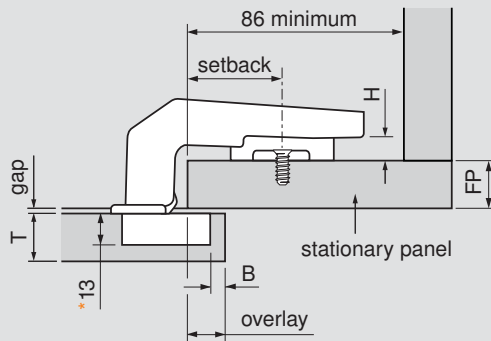
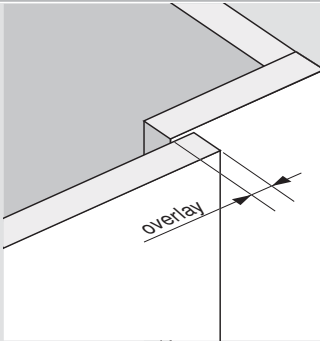
- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to 24 (15/16")
- Overload safety feature
- Boring distance range 3 mm to 7 mm
- Compatible with existing CLIP mounting plates and hinge arm cover caps



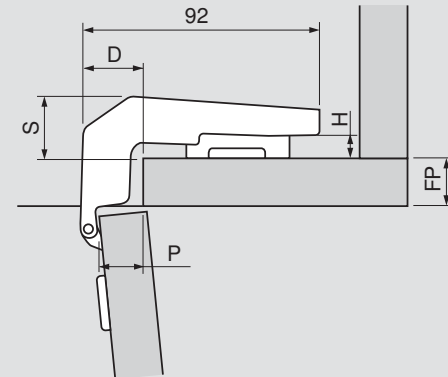
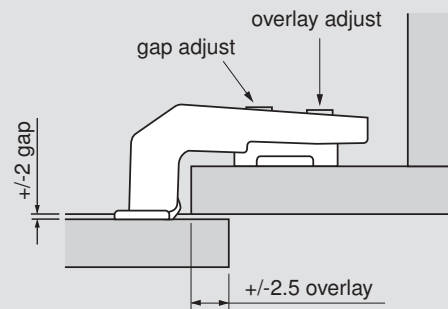
Minimum reveal table						
3	0.1	0.3	0.4	0.5	0.9	1.3
4	0.1	0.3	0.4	0.5	0.9	1.3
5	0.1	0.3	0.4	0.5	0.9	1.3
6	0.1	0.3	0.4	0.5	0.9	1.2
7	0.1	0.3	0.4	0.5	0.9	1.2
B= boring distance	16	18	19	20	22	24

T = door thickness
For thickness greater than 24 trial app. recommended

Overlay application



Adjustments and clearances



NOTE: Door gap can be adjusted ± 2 mm

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

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.

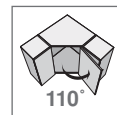
H	Gap			S
0	7	4	1	21
3	4	1	—	24
6	1	—	—	27
	16	19	22	
	FP = front panel thickness			

NOTE: 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.

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

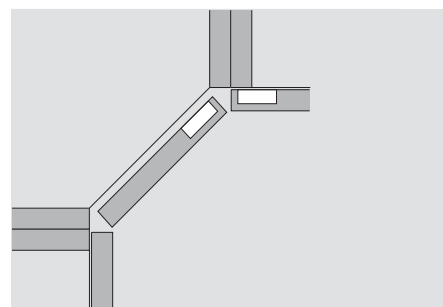
Overlay blind corner	Self close
Press-in	79B9980

CLIP top BLUMOTION 110° diagonal hinge



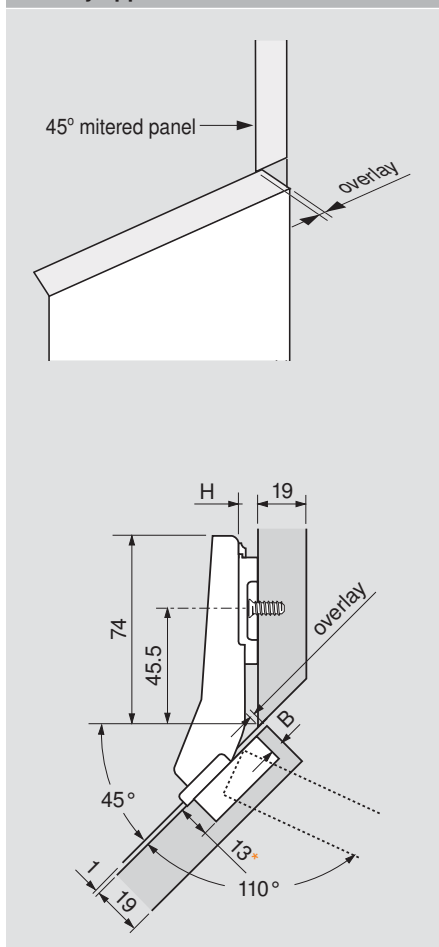
Features

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

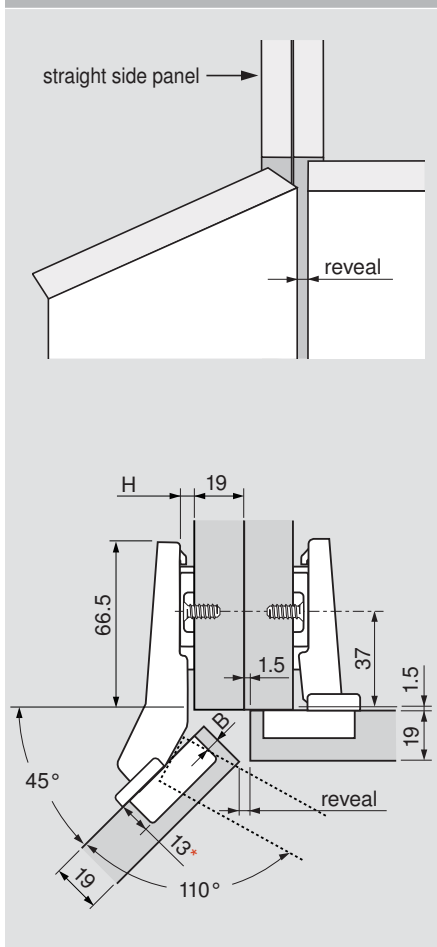


For thickness greater than 19 mm app. recommended

Overlay application



Inside corner



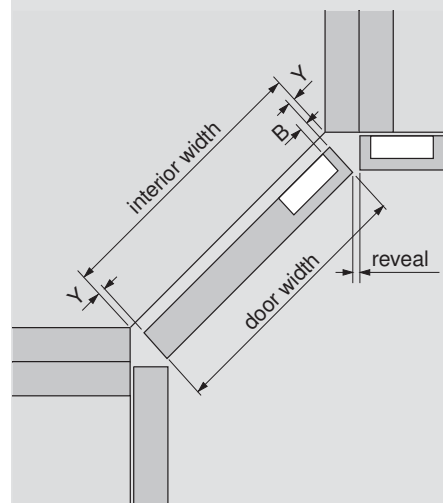
Calculating door width

Step 1. Using the boring distance (B) determined in the reveal table, cross-reference to find the side gap distance (Y) in the table below.

Step 2. Using the following formula to find the door width. Door width = interior width minus (Y x 2).

Example: interior width = 400 mm, side gap (Y) = 4.5 mm.

$$391 = 400 \text{ minus } (4.5 \times 2)$$



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

H	Overlay			
0	1	2	3	4
	3	4	5	6
B = boring distance				

H	Reveal			
0	6	5	4	3
	3	4	5	6
B = boring distance				

NOTE: Reveal based on 19 (3/4") side panel

Y = side gap			
5.5	4.5	3.5	2.5
3	4	5	6
B = boring distance			

NOTE: Calculations based on 19 (3/4") door thickness

Diagonal 45° hinge	Self close
INSERTA	79B3598

Diagonal 45° hinge	Self close
INSERTA	79B3598

Abbreviations	
H	= Plate height
Y	= Side gap

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 (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 BLUMOTION hinges feature "Spiral Tech" depth adjustment which eliminates loosening and retightening the adjustment screws. Also, all CLIP top BLUMOTION angled hinges are INSERTA for tool free hinge-to-door attachment.









Step 1. On page 18, 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 19 to 25 are in numerical order and show all the details.

CLIP top BLUMOTION angled hinges

Positive angled 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 hinges

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

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		

Wedge spacers for positive and negative angles

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

Angle-to-style cross-reference

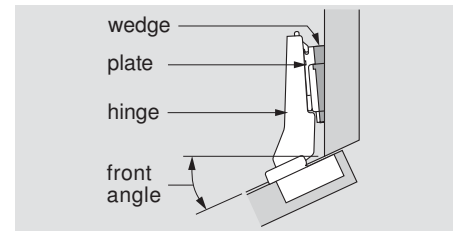
BLUMOTION
inside








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

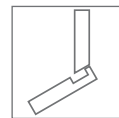
Application number

hinge	CLIP top BLUMOTION hinge	Part number
plate	CLIP mounting plate	Part number
wedge/spacer	may or may not be required	Part number

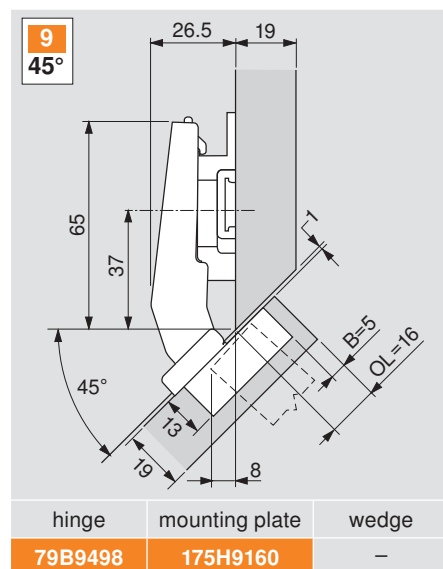
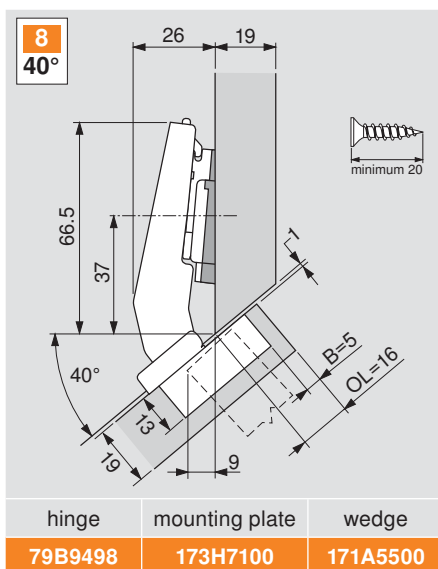
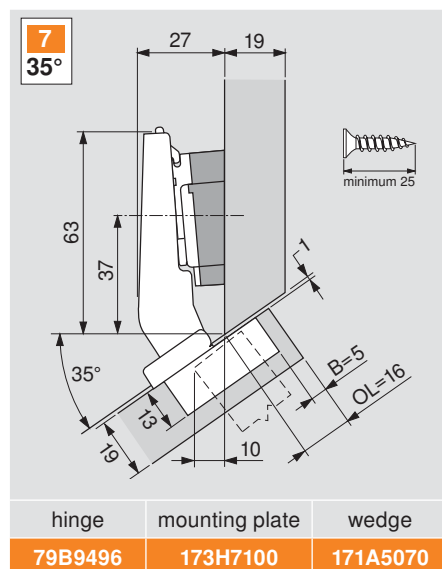
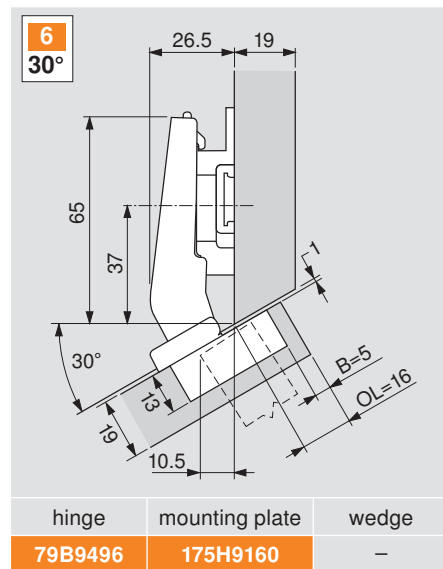
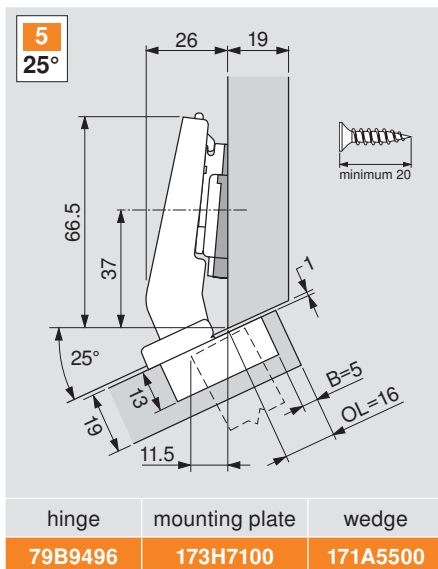
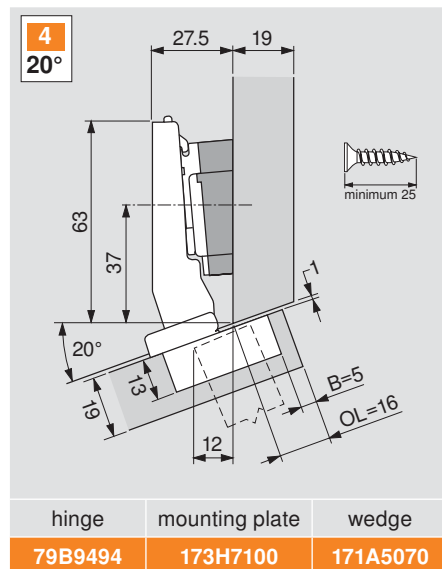
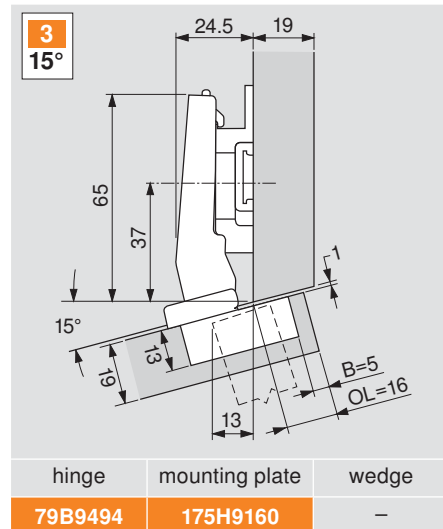
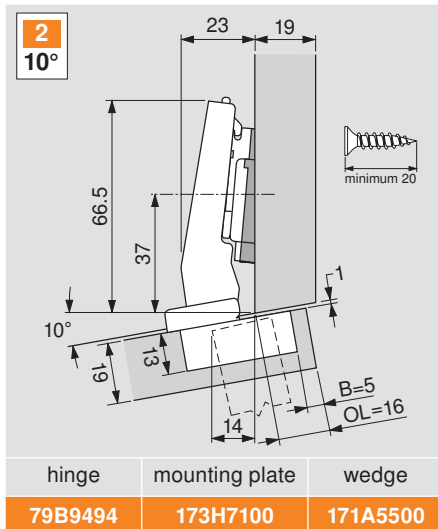
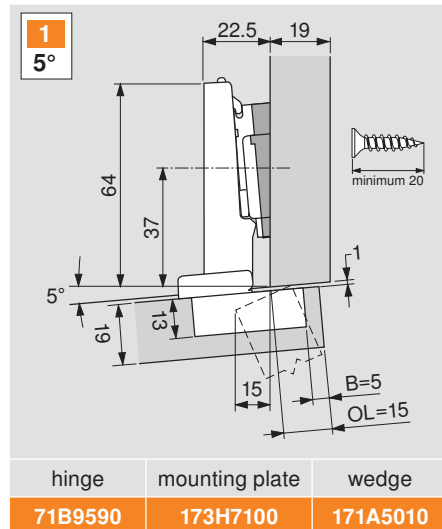


	Positive angles						Negative angles			
										
	maximum overlay	partial overlay	corner merge	inset door	mitered corner		maximum overlay	inset door		
5°	1	10	19	27		-5°	42	51		
	71B9590	71B9590	71B9690	71B9790			71B9590	71B9690		
	173H7100	173H7100	173H7100	173H7100			173H7100	173H7100		
	171A5010	171A5010	171A5070	171A5010			171A5500	171A5500		
10°	2	11	20	28		-10°	43	52		
	79B9494	79B9494	79B9494	79B9494			79B3493	79B3493		
	173H7100	173H7100	175H9190.22	175H9190.22			173H7100	175H7190		
	171A5500	171A5500	171A5500	171A5500			171A5010	171A5010		
15°	3	12	21	29		36	-15°	44	53	
	79B9494	79B9494	79B9595	79B9595		79B9595		79B3493	79B3493	
	175H9160	175H9190	173H7130	175H9190		173H7100		175H9190.22		
			171A5500	171A5500		171A5500				
20°	4	13	22	30	37	-20°	45	54		
	79B9494	79B9595	79B9595	79B9595	79B9595		79B3493	79B3493		
	173H7100	173H7100	175H9190	175H9190.22	175H9160		173H7100	175H9160		
	171A5070						171A5500	171A5500		
25°	5	14	23	31	38	-25°	46	55		
	79B9496	79B9595	79B9596	79B9596	79B9596		79B3491	79B3491		
	173H7100	173H7100	173H7100	175H9190.22	173H7100		173H7100	175H7190		
	171A5500	171A5010	171A5500		171A5500		171A5040	171A5070		
30°	6	15	24	32	39	-30°	47			
	79B9496	79B9596	79B9596	79B9596	79B9596		79B3491			
	175H9160	173H7100	175H9190	175H9190.22	173H7130		173H7130			
35°	7	16	25	33	40	-35°	48			
	79B9496	79B9596	79B9596	79B9596	79B9596		79B3491			
	173H7100	173H7100	173H7100	175H9190.22	173H7100		173H7100			
	171A5070	171A5010	171A5070	171A5010	171A5040		171A5500			
40°	8	17		34		-40°	49			
	79B9498	79B9498		79B9698						
	173H7100	175H9160		175H9190						
	171A5500	171A5500		171A5500						
45°	9	18	26	35	41	-45°	50			
	79B9498	79B3598	79B9698	79B3598	79B9698		79B3490	79B3490		
	175H9160	173H7100	173H7100	175H9190.22	173H7100		173H7130	175H7190		
							181.6130			

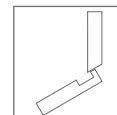
Maximum overlay specifications



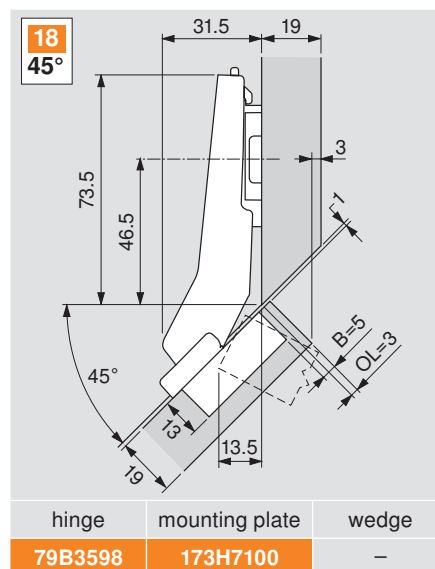
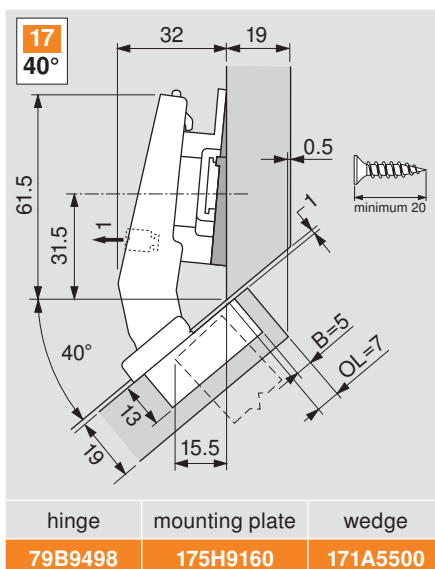
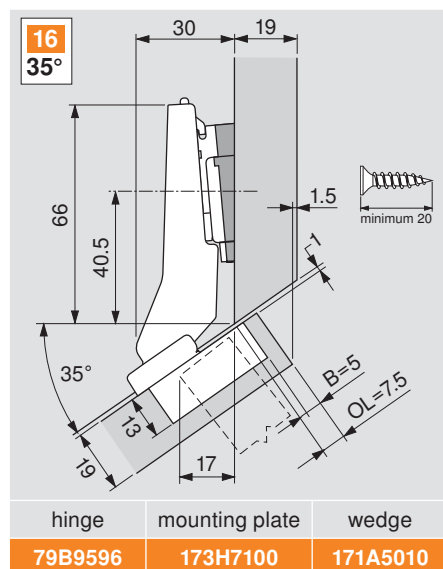
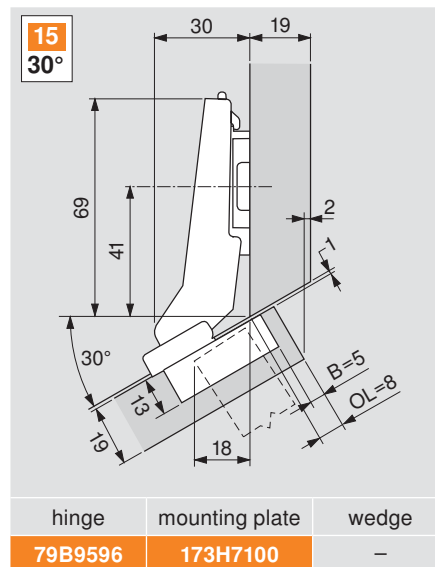
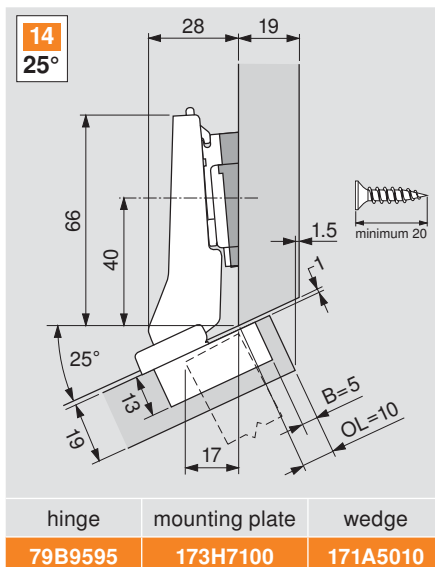
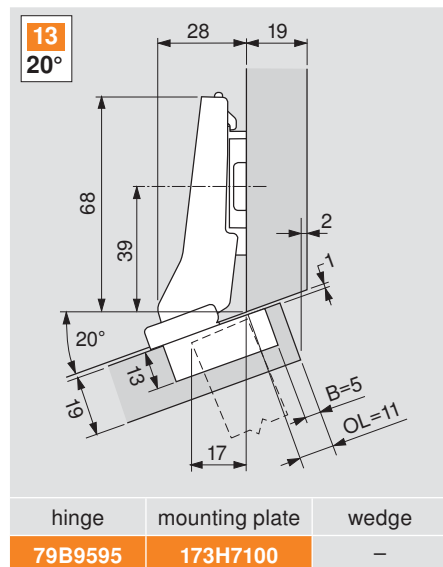
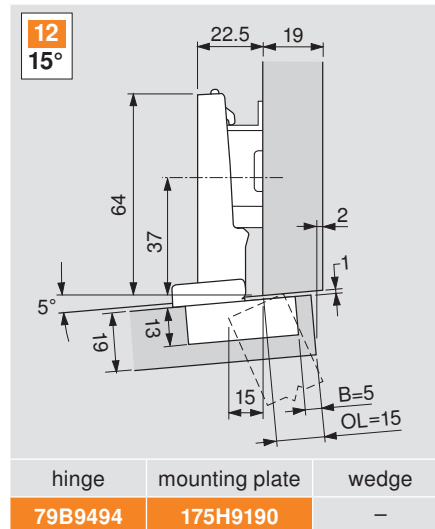
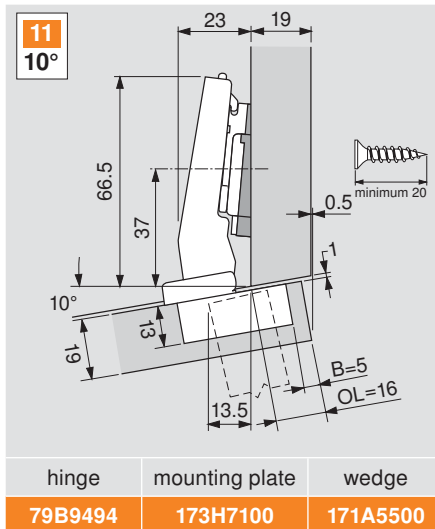
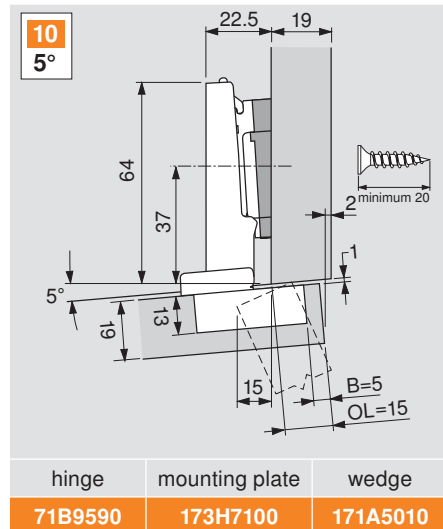
Positive angle applications



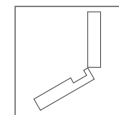
Partial overlay specifications



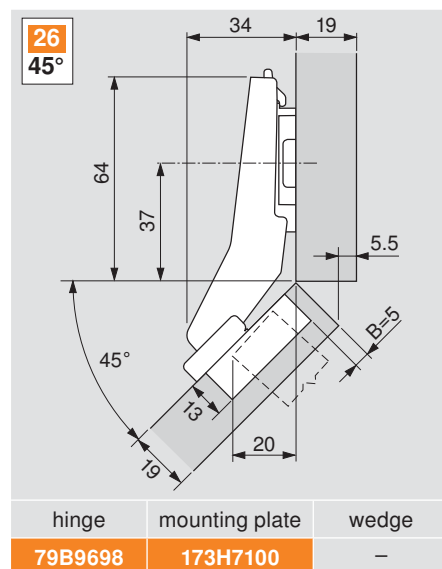
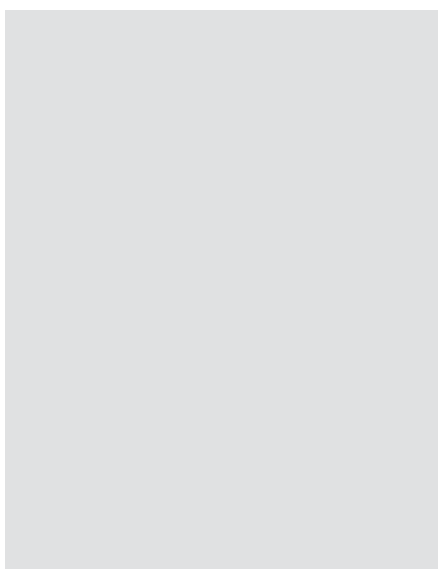
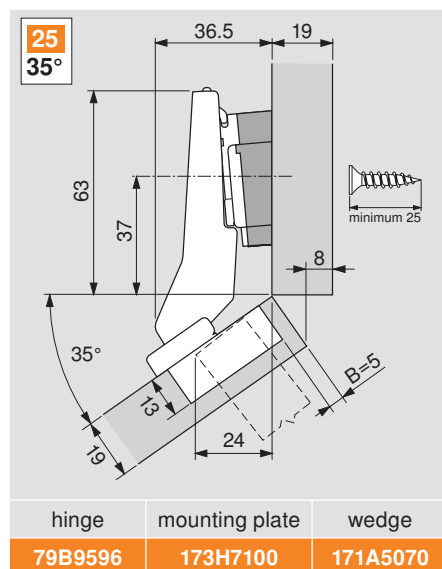
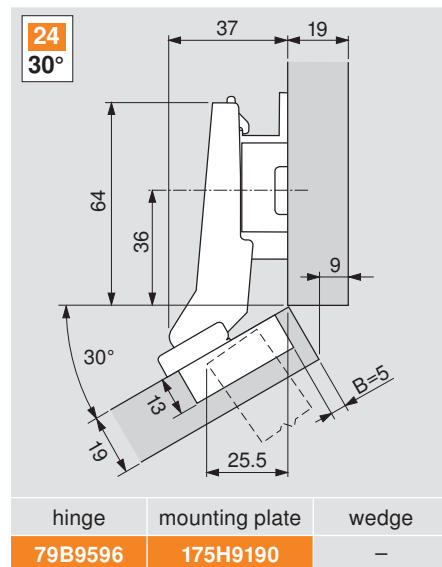
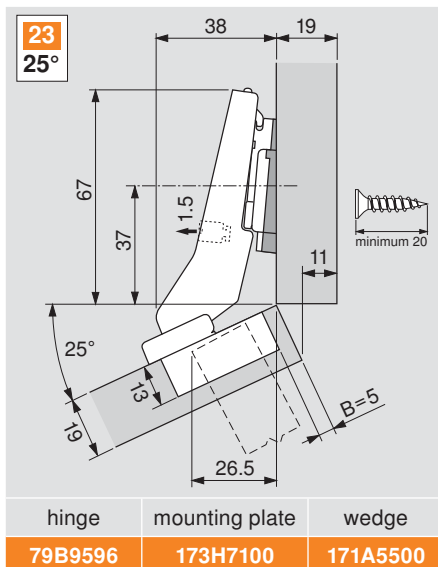
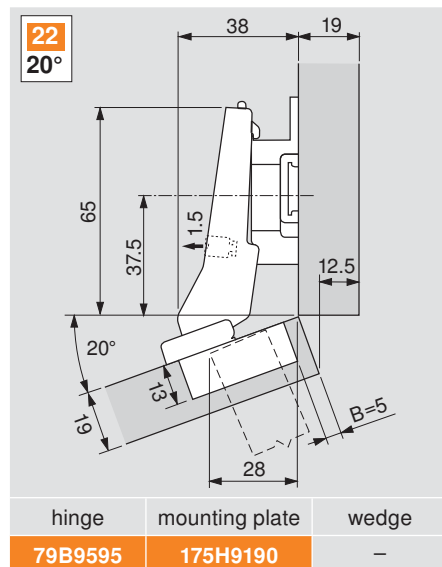
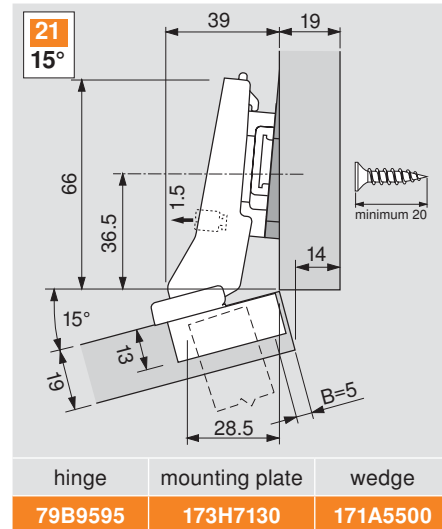
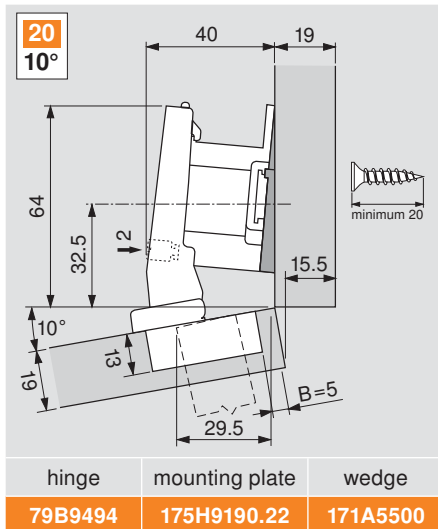
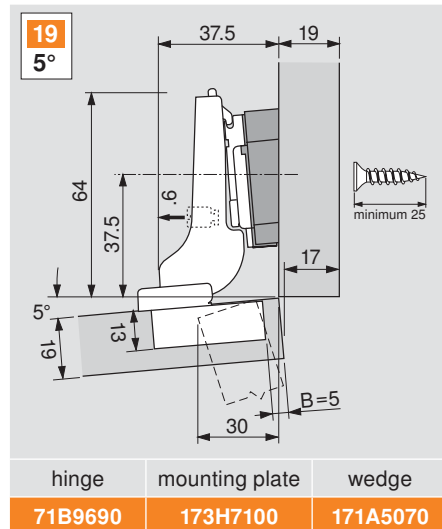
Positive angle applications



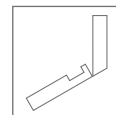
Corner merge specifications



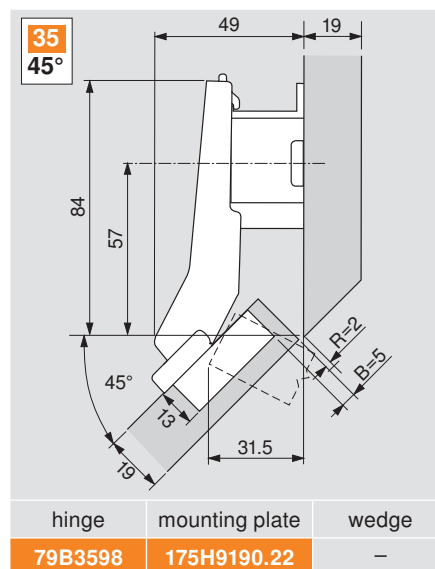
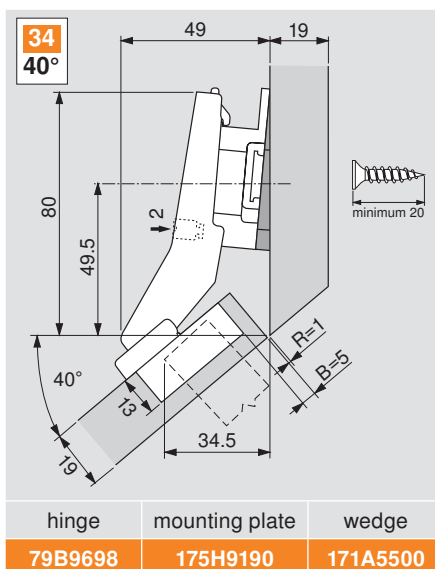
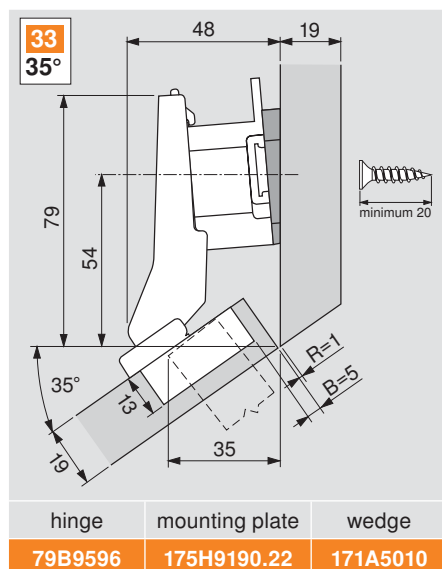
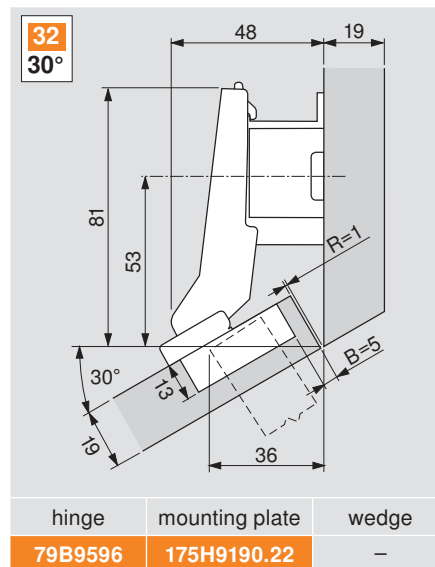
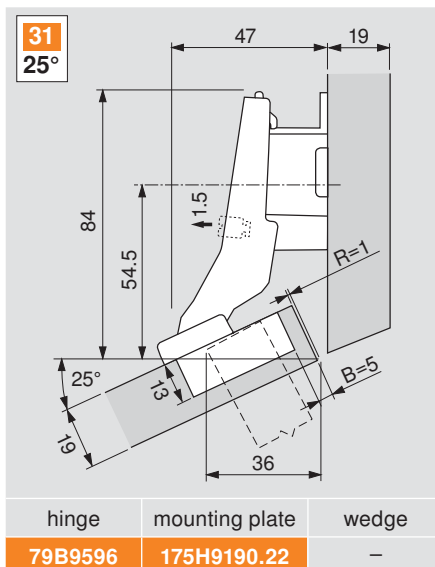
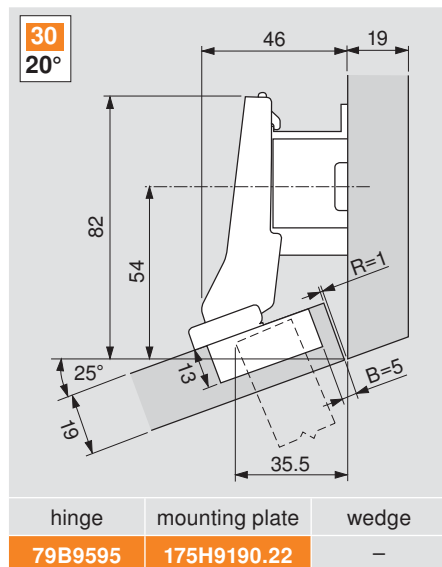
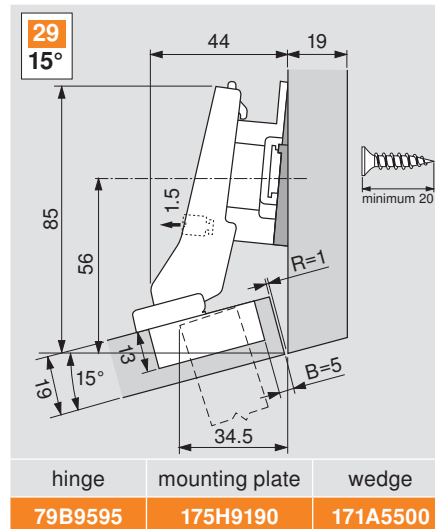
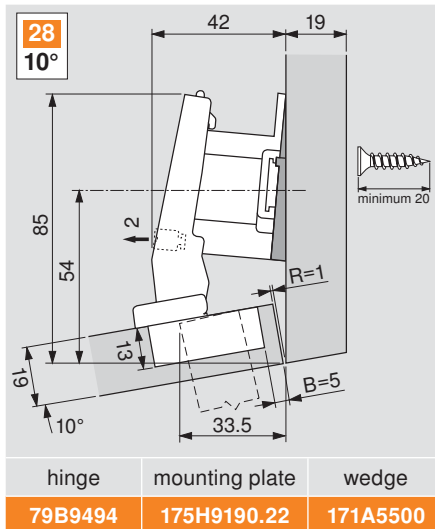
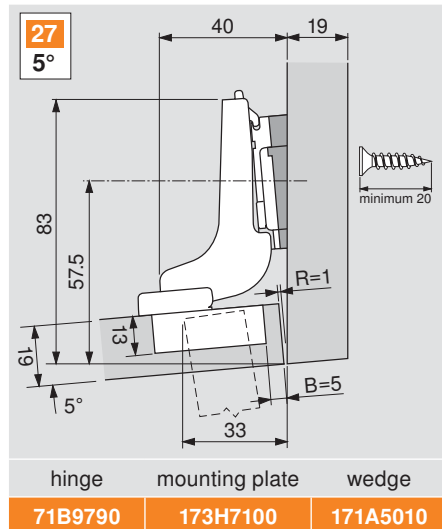
Positive angle applications



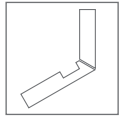
Inset door specifications



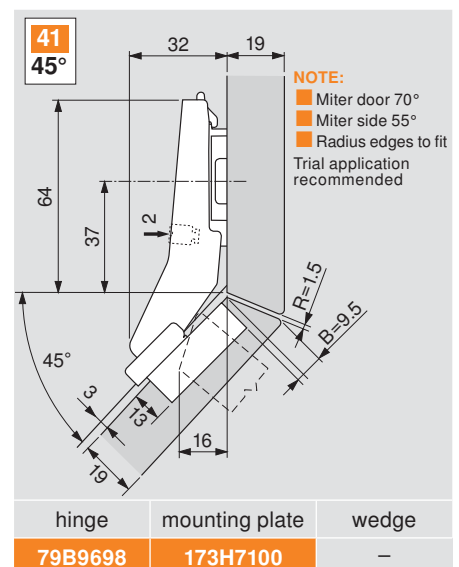
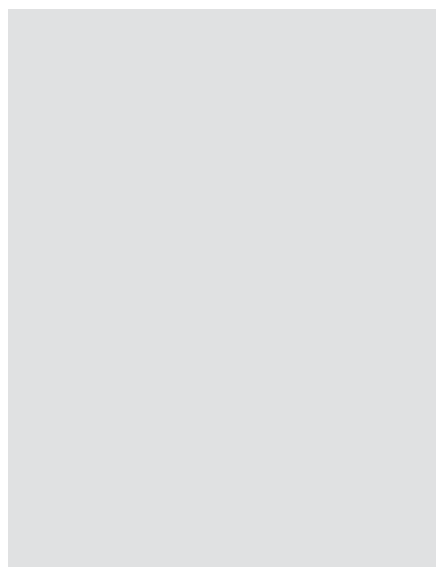
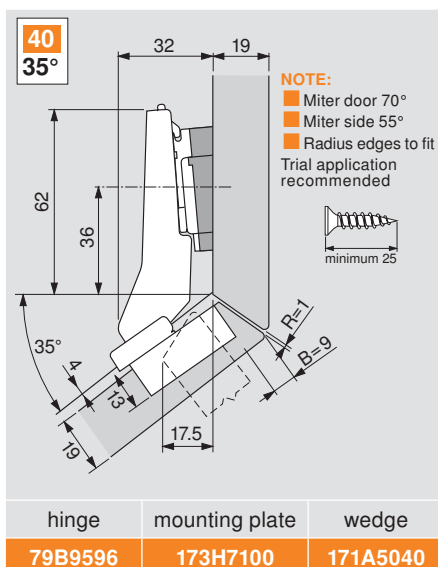
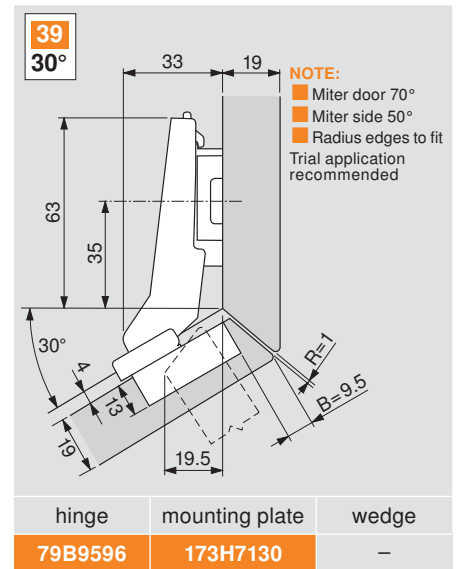
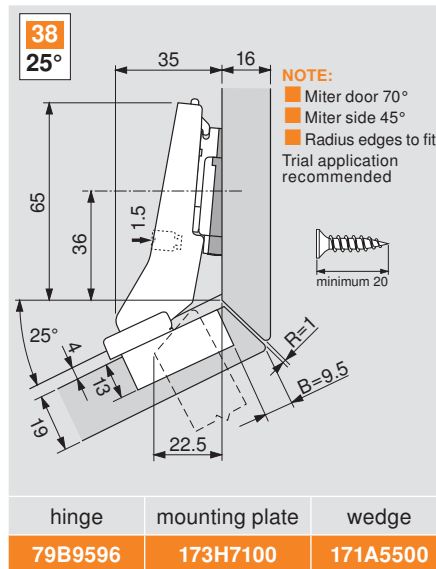
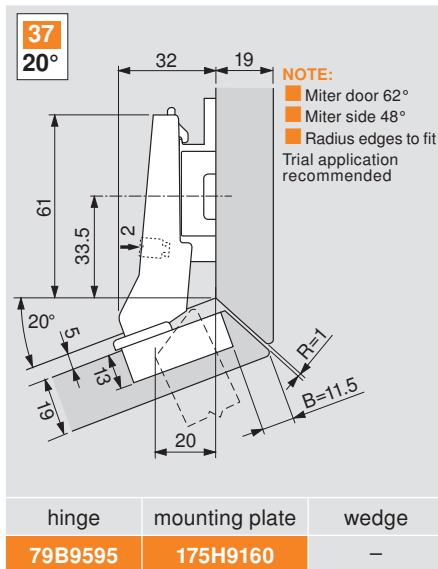
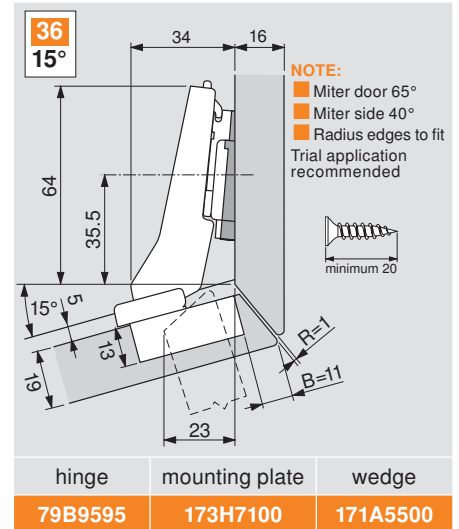
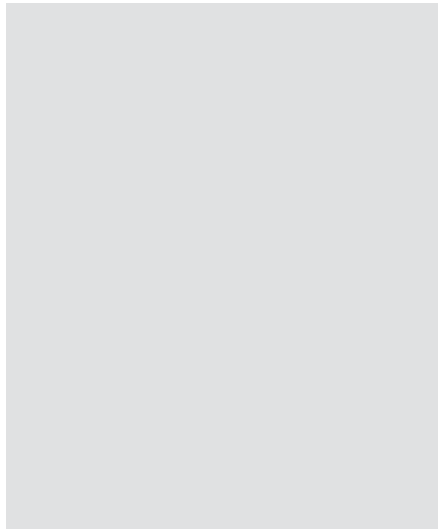
Positive angle applications



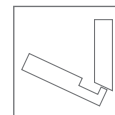
Mitered corner specifications



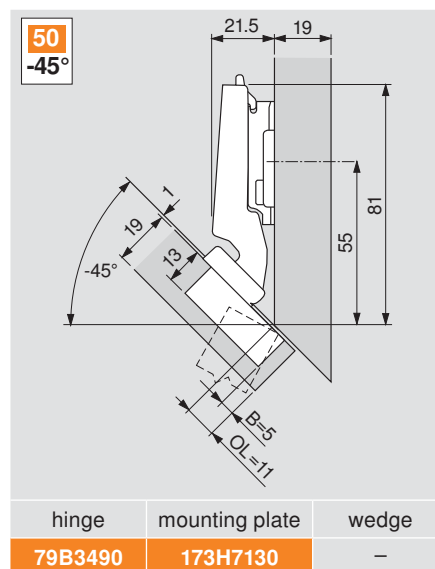
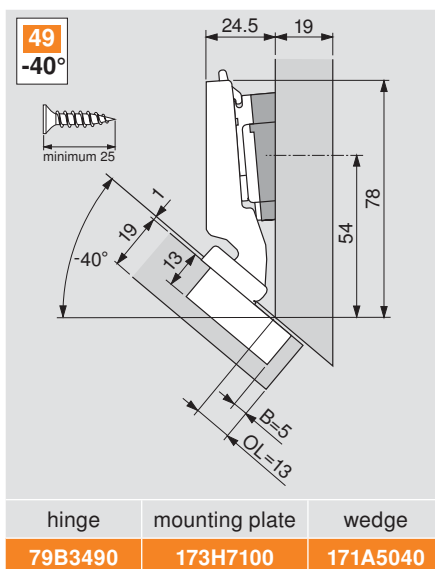
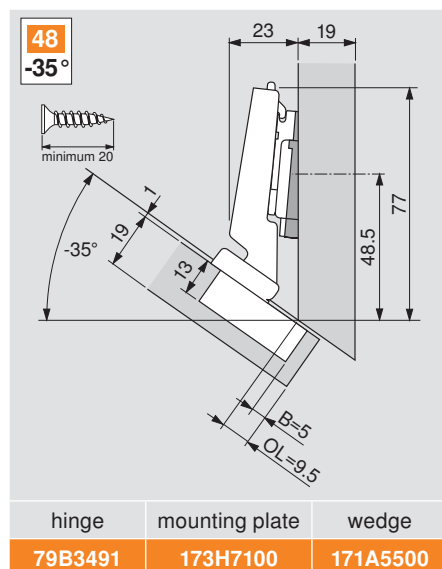
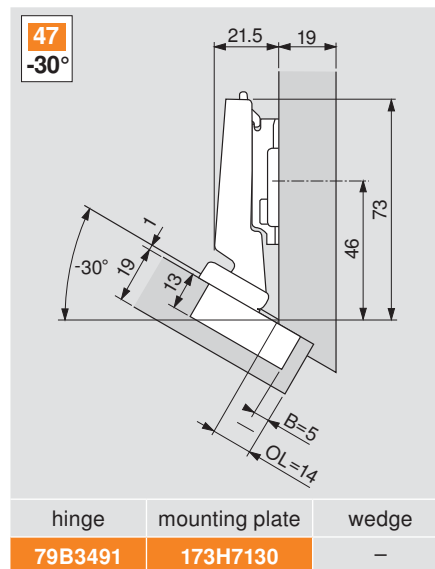
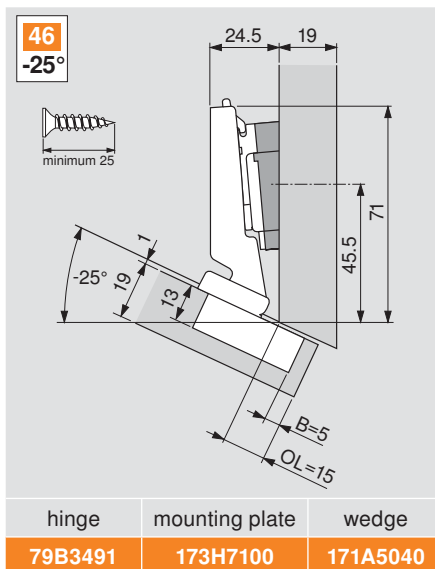
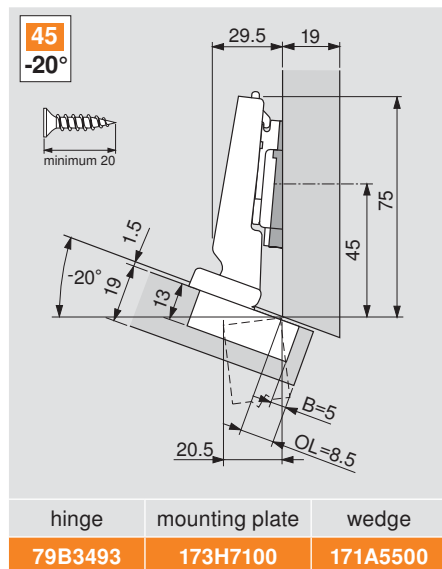
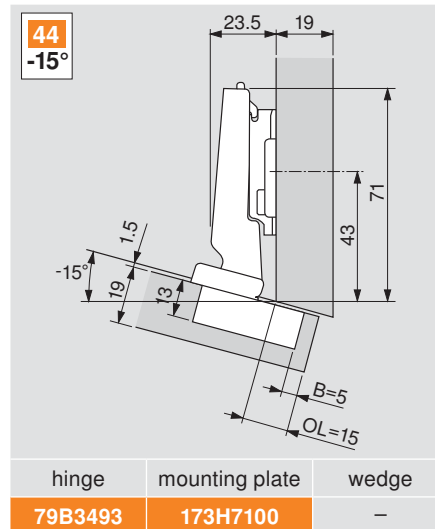
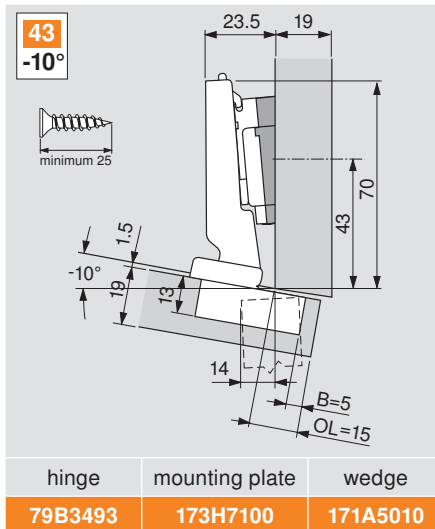
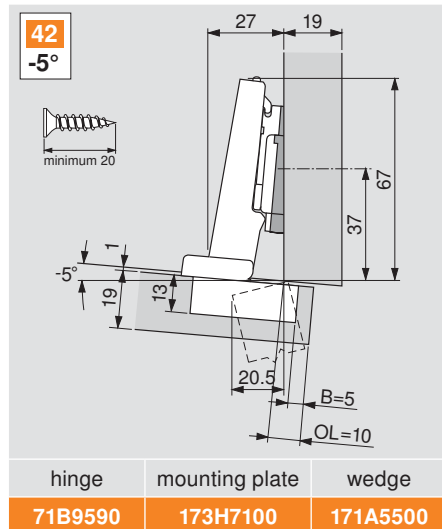
Positive angle applications



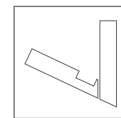
Maximum overlay specifications



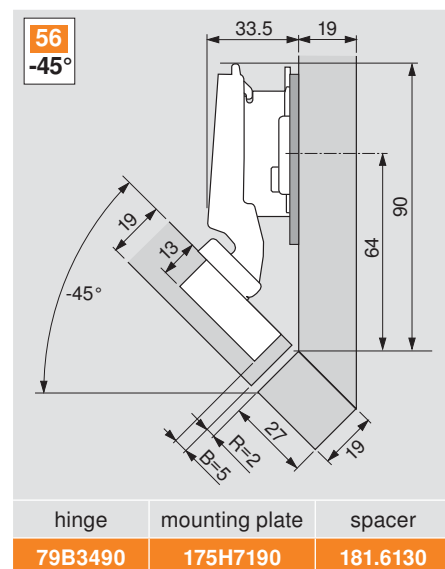
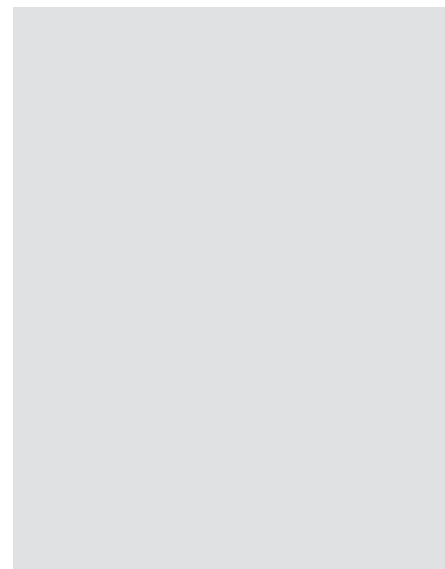
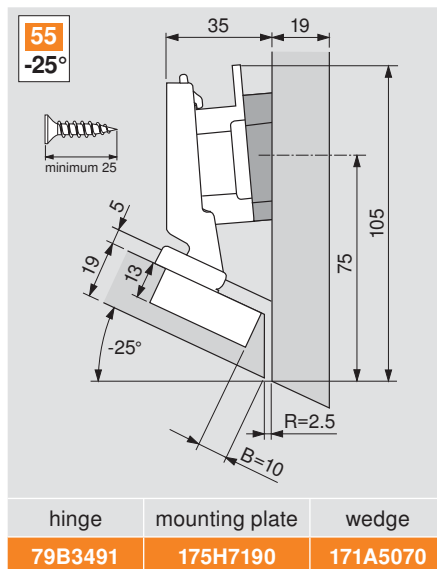
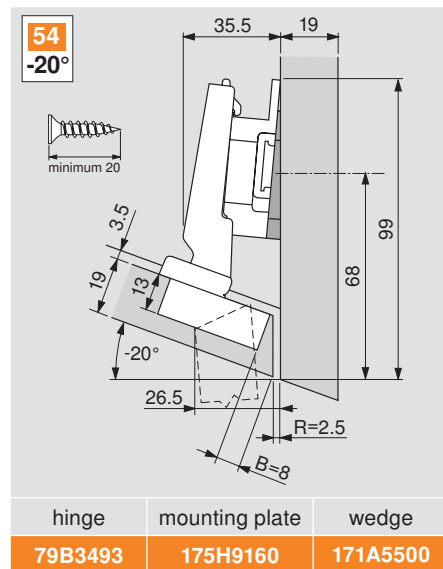
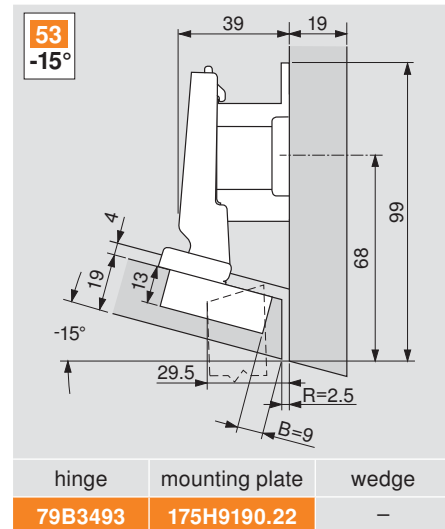
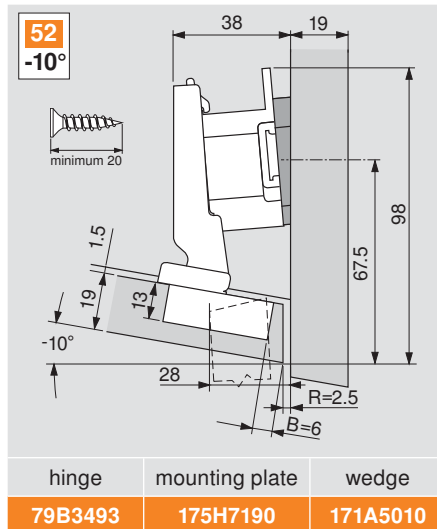
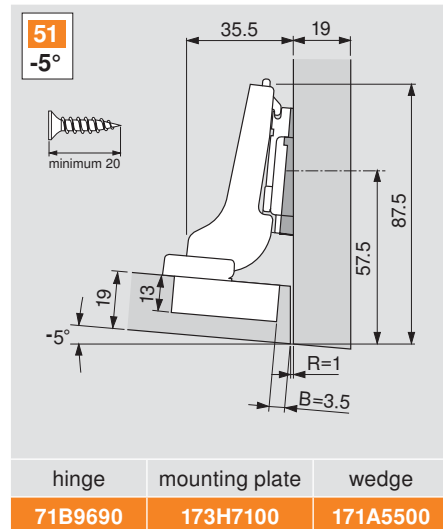
Negative angle applications



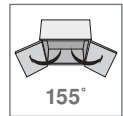
Inset door specifications



Negative angle applications



CLIP top 155° zero protrusion hinges



Features

- Zero protrusion hinge
- For use in cabinets with interior roll-outs
- For door thicknesses up to 24 (15/16")
- Add-on BLUMOTION available
- Compatible with existing CLIP mounting plates

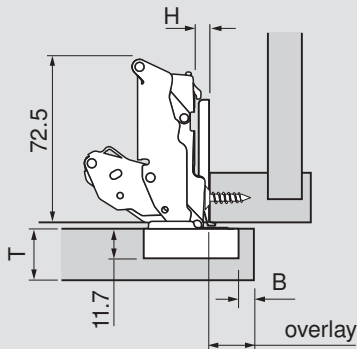


Minimum reveal table						
3	0	0	0	0	0	0
4	0	0	0	0	0	0
5	0	0	0	0	0	0
6	0	0	0	0	0	0
7	0	0	0	0	0	0
8	0	0	0	0	0	0
B = boring distance	16	18	19	20	22	24
T = door thickness						

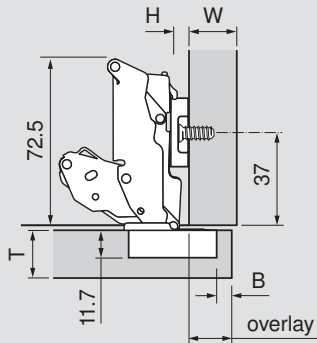
For thickness greater than 24, please see page 27

Overlay

Frame

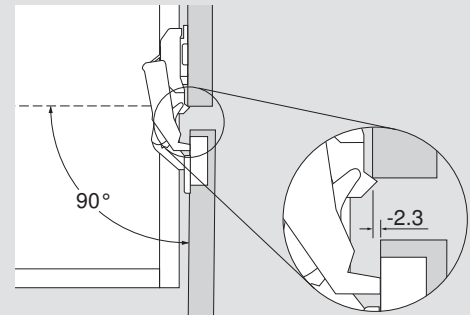


Panel



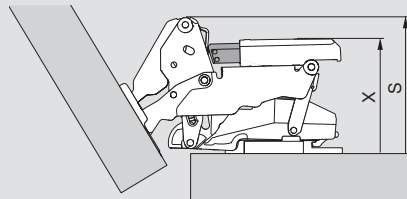
Door protrusion

At 90° opening, using 0 mm plate, the door will have -2.3 mm protrusion regardless of boring distance. Use side adjustment to increase or decrease door protrusion.



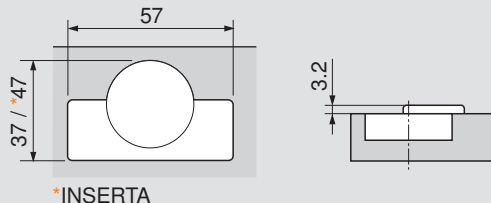
NOTE: Use of 0 mm or 3 mm is recommended for zero protrusion

BLUMOTION for 155° hinges



Hinge	X	S
CLIP top 155° straight-arm	53	61
CLIP top 155° half-cranked	63	71
Part no.		
BLUMOTION for 155° hinge	973A7000	

Hinge cup dimensions



H	Overlay						P	S
0	14	15	16	17	18	19	-2.3	61
3	11	12	13	14	15	16	0.7	64
	3	4	5	6	7	8	fixed distance = 11	
B = boring distance								

Straight-arm	Self close
Screw-on	71T7500N
Press-in	71T7530N
INSERTA	71T7540N01

Angle restriction clips



- For use with 155° hinges only
- Gray nylon

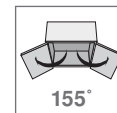
Part no.

110° restriction clip	70T7503N
92° restriction clip	70T7503N09

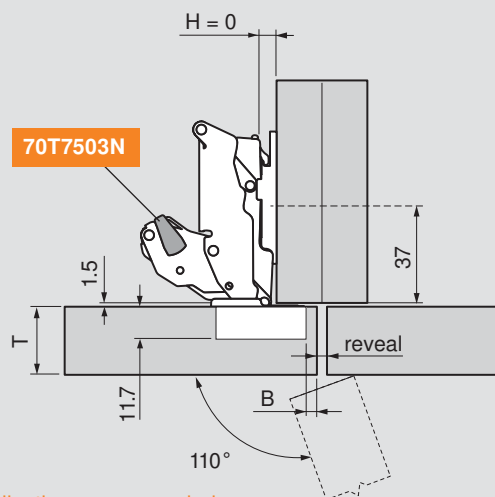
Abbreviations

H	= Plate height
P	= Door protrusion
S	= Side arm protrusion
T	= Door thickness
W	= Side panel width

CLIP top 155° straight-arm special applications



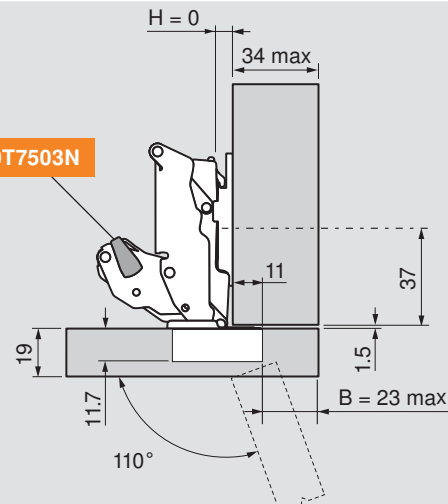
Maximum door thickness



Trial application recommended

NOTE: For thick door applications, you must bore at the specified boring distance listed in the chart below

Maximum door overlay



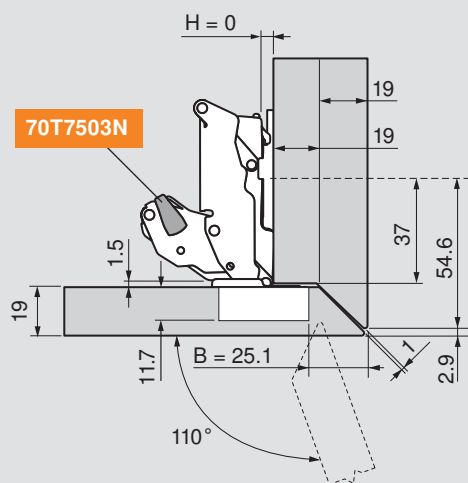
Trial application recommended

Minimum reveal	T = door thickness						
2	28	27	26	25			
	3	4	5	6	7	*8	
	B = boring distance						

*Minimum reveal is 1 mm on a 25 mm thick door when bored at 8 mm

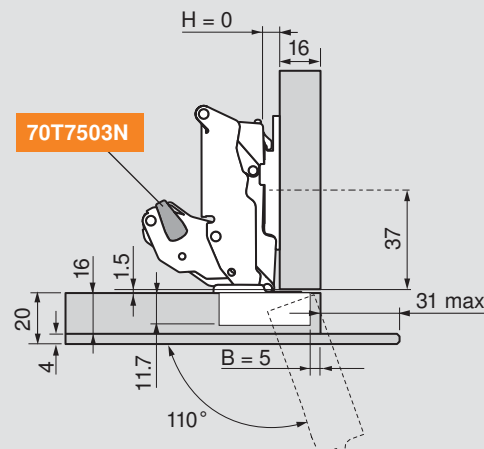
H	Overlay							
0	19	22	24	26	28	30	32	34
	8	11	13	15	17	19	21	23
	B = boring distance							

Mitered door with large overlay




Trial application recommended

Thin facing added to door



Trial application recommended

NOTE: These applications can be achieved in face frame cabinets by blocking out behind the frame

Straight-arm	Self close
Screw-on	71T7500N
Press-in 	71T7530N
INSERTA	71T7540N01

Angle restriction clips



- For use with 155° hinges only
- Gray nylon

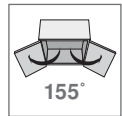
Part no.

110° restriction clip	70T7503N
92° restriction clip	70T7503N09

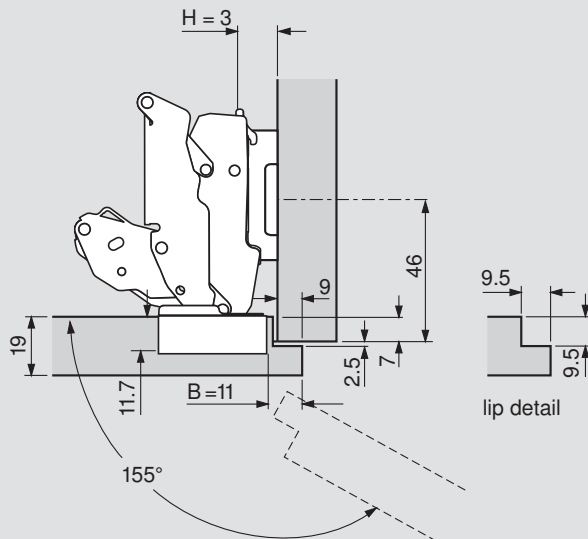
Abbreviations

H	=	Plate height
P	=	Door protrusion
S	=	Side arm protrusion
T	=	Door thickness
W	=	Side panel width

CLIP top 155° half-cranked special applications

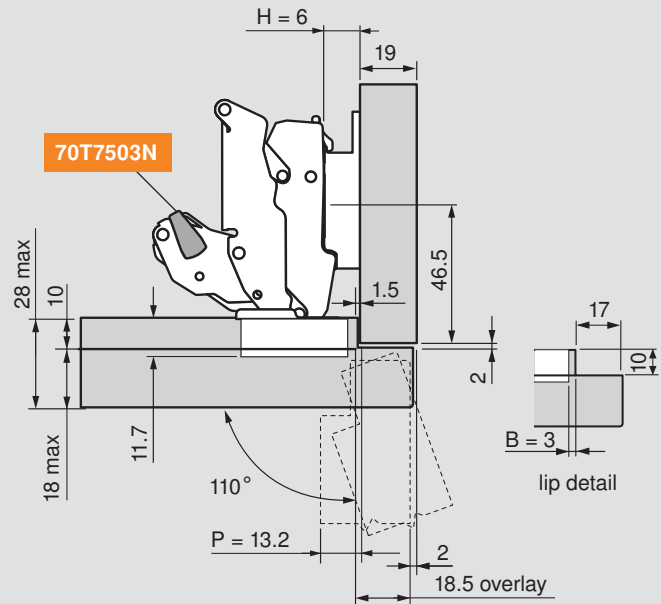


Lip door



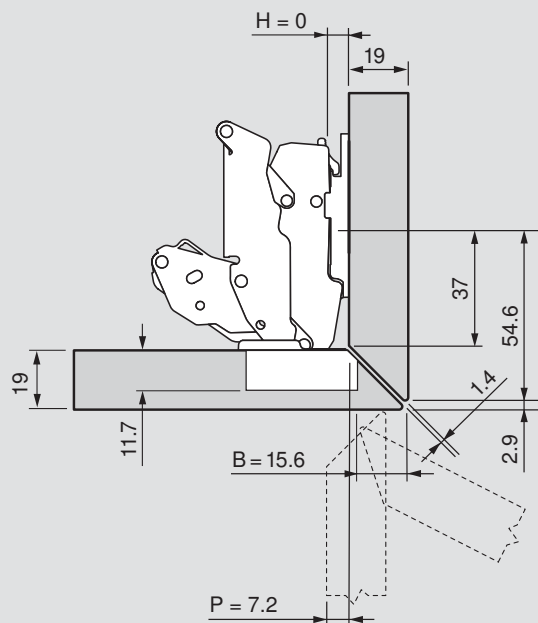
Trial application recommended

Thick lip door



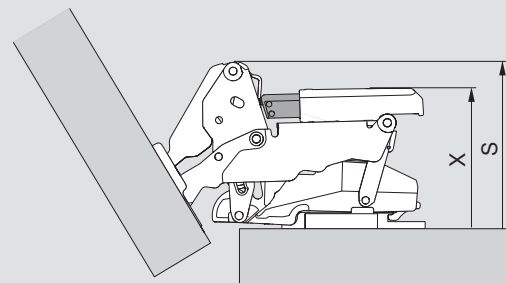
Trial application recommended

Two-sided and four-sided mitered door



Trial application recommended

BLUMOTION for 155° hinges



Hinge	X	S
CLIP top 155° straight-arm	53	61
CLIP top 155° half-cranked	63	71
Part no.		
BLUMOTION for 155° hinge	973A7000	

NOTE: These applications can be achieved in face frame cabinets by blocking out behind the frame

Half-cranked	Self close
Screw-on	71T7600N
INSERTA	71T7640N01

Angle restriction clips



- For use with 155° hinges only
- Gray nylon

Part no.

110° restriction clip	70T7503N
92° restriction clip	70T7503N09

Abbreviations

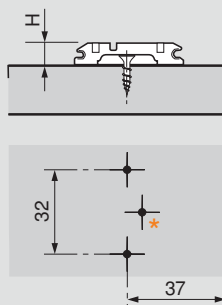
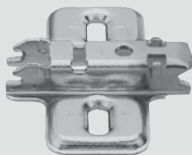
H	= Plate height
P	= Door protrusion
S	= Side arm protrusion
W	= Side panel width

CLIP mounting plates



Standard one-piece wing mounting plates

Wood screw

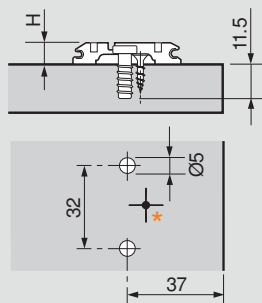


- Steel, nickel-plated
- Attached with #6 x 5/8" wood screws
- Height adjustment ± 3 mm

Part no.

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

System screw

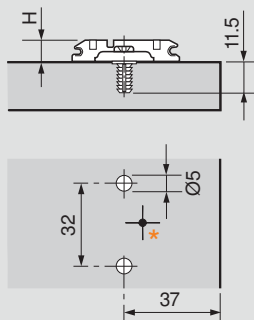


- Steel, nickel-plated
- Attached with pre-mounted Ø5 mm system screws (668.1450.EH)
- Height adjustment ± 3 mm

Part no.

0 plate height (H)	173L8100
3 plate height (H)	173L8130

EXPANDO

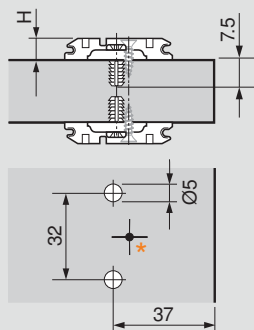


- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels (618.1500)
- Height adjustment ± 2 mm

Part no.

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

EXPANDO (twin application)

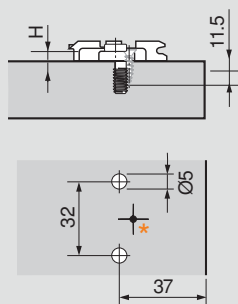


- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels for twin application (618.1500)
- Height adjustment ± 2 mm

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.

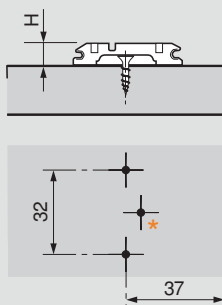
0 plate height (H)	175L8100
3 plate height (H)	175L8130
9 plate height (H)	175L8190

*Add additional wood screw if used with wide angled hinges

CLIP mounting plates

Cam adjustable wing mounting plates

Wood screw

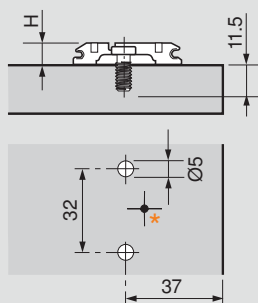


- Steel, nickel-plated
- Attached with #6 x 5/8" wood screws
- Cam height adjustment ± 2 mm

Part no.

0 plate height (H)	173H7100
3 plate height (H)	173H7130

System screw

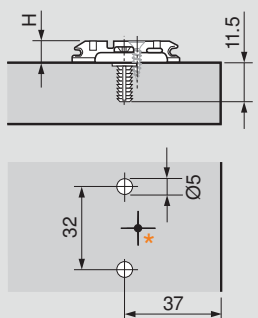


- Steel, nickel-plated
- Attached with #7 x 5/8" wood screws or Ø5 x 13 mm system screws
- Cam height adjustment ± 2 mm

Part no.

0 plate height (H)	173H9100
3 plate height (H)	173H9130

EXPANDO

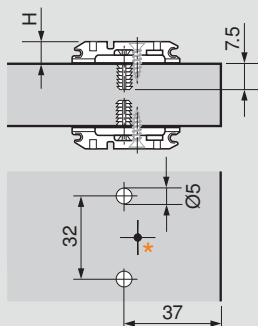


- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels (618.1500)
- Cam height adjustment ± 2 mm

Part no.

0 plate height (H)	174H7100E
3 plate height (H)	174H7130E

EXPANDO (twin application)

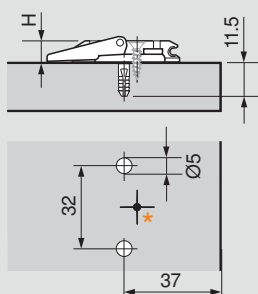


- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels for twin application (618.1500)
- Cam height adjustment ± 2 mm

Part no.

0 plate height (H)	174H710ZE
--------------------	------------------

INSERTA

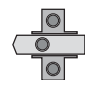


- Steel (closing lever – zinc die-cast, nickel-plated)
- Tool-free assembly with INSERTA self-anchoring feature
- Cam height adjustment ± 2 mm

Part no.

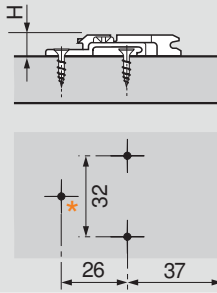
0 plate height (H)	174H7100I
3 plate height (H)	174H7130I

*Add additional wood screw if used with wide angled hinges



Standard two-piece wing mounting plates

Wood screw

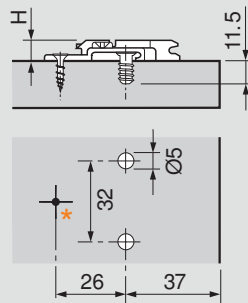
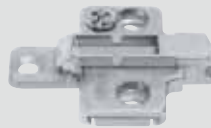


- Zinc die-cast, nickel-plated
- Attached with #6 x 5/8" wood screws
- Height adjustment ± 2 mm

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

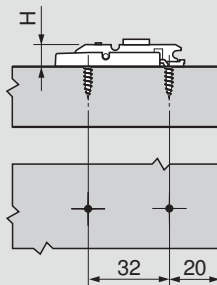
Part no.

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

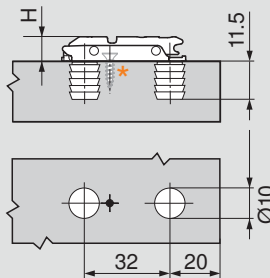


- Steel, nickel-plated
- Attached with #6 x 5/8" wood screws
- Cam height adjustment ± 2 mm
- Use of mounting plate template recommended

Part no.

0 plate height (H)	175H3100
--------------------	-----------------

Press-in

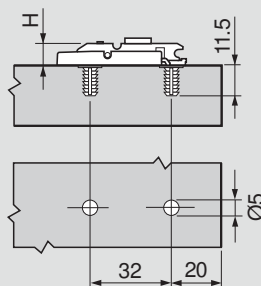


- Steel, nickel-plated
- Pre-attached with 10 mm dowels
- Cam height adjustment ± 2 mm
- **Use of insertion ram MZM.0053 required**

Part no.

0 plate height (H)	177H3100
--------------------	-----------------

EXPANDO

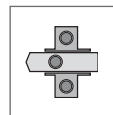


- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels
- Cam height adjustment ± 2 mm
- Use of mounting plate template recommended

Part no.

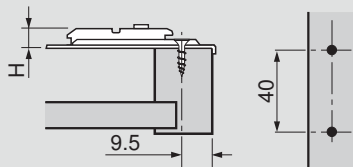
0 plate height (H)	177H3100E
3 plate height (H)	177H3130E

Face frame adapter plates



Face frame adapter plates

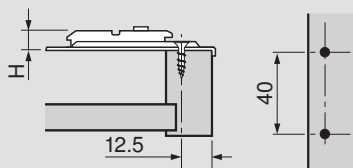
Cam adjustable center mount



- 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
- Part no.

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

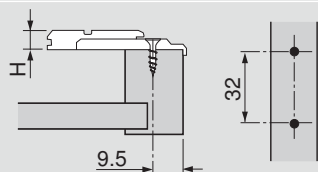
Cam adjustable off-center mount



- 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
- Part no.

0 plate height (H)	175H6600
--------------------	-----------------

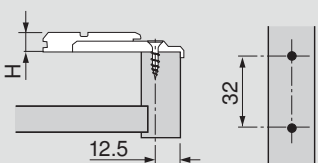
Center mount



- Zinc die-cast, nickel-plated
 - Attached with #7 x 3/4" wood screws
 - Center mount **9.5** (3/8")
 - Height adjustment ± 2 mm
- Part no.

3 plate height (H)	175L6030.21
--------------------	--------------------

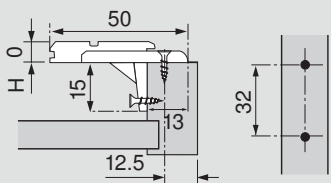
Off-center mount



- Zinc die-cast, nickel-plated
 - Attached with #7 x 3/4" wood screws
 - Off-center mount **12.5** (1/2")
 - Height adjustment ± 2 mm
- Part no.

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

With flange



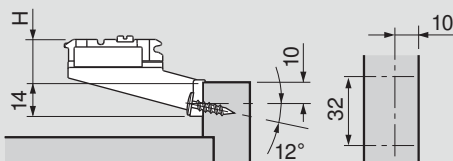
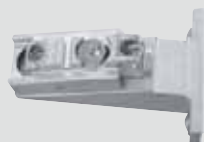
- Recommended when using 170° and zero protrusion hinges on face frame cabinets
 - Zinc die-cast, nickel-plated
 - Attached with #7 x 3/4" wood screws
 - Off-center mount **12.5** (1/2")
 - Height adjustment ± 2 mm
- Part no.

0 plate height (H)	175L6600.24
--------------------	--------------------

NOTE: Use of PLATEMATE recommended with all face frame adapter plates

Inset face frame adapter

Truss head screw



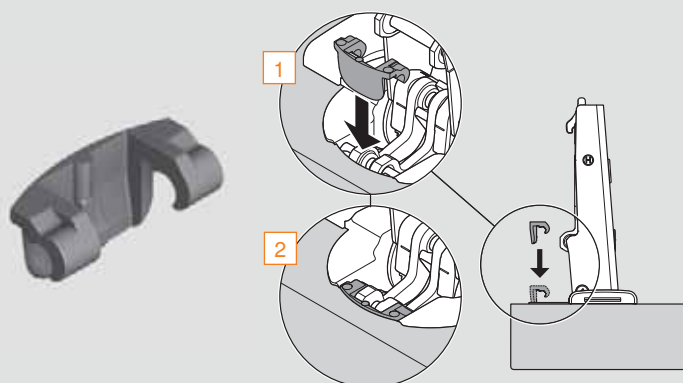
- Zinc die-cast, nickel-plated
 - Attached with #8 x 3/4" truss head screws
 - Can be used with applied bead molding
 - Cam height adjustment ± 2 mm
 - Use with half-cranked hinges only
 - Wide angle hinges not recommended
 - Use of PLATEMATE required for installation**
- Part no.

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

CLIP top BLUMOTION hinge accessories

a

Angle restriction clip



- Restricts opening angle to 86°
- For use with CLIP top BLUMOTION and CLIP top 110° and 110°+ hinges
- 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
- Use to retrofit 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. Suitable for screw-on, press-in and EXPANDO hinge cups
- Can also be used with CLIP top 110° and 110°+ hinges

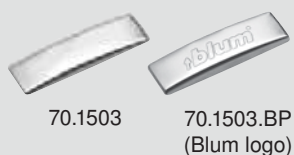


Part no.

Hinge cup cover cap

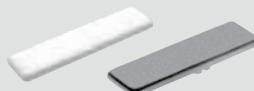
70T3504

Hinge arm cover cap

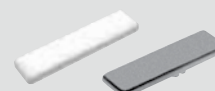


70.1503

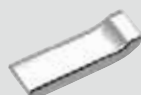
70.1503.BP
(Blum logo)



90M2103.01



90M2203



70.1663



94M3203



70.7503

nylon

steel

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

Straight-arm

90M2103.01

70.1503

With Blum logo

70.1503.BP

Cranked-arm

94M3203

70.1663

155° hinges

Wide angle hinges

70.7503

45°, blind corner and narrow aluminum door hinges

Specialty hinges

90M2103.01

70.1503

Angled hinges

Straight-arm

90M2203

70.1503

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



Hinge planning tools

Blum has downloadable Excel® spreadsheets that help determine the hinge that is right for your application.

Planning tools are easily accessible on our website at blum.com/planning



A complete face frame program

Since the 1980s Blum's COMPACT concealed hinge has proven itself as the high quality solution for face frame cabinets. The new BLUMOTION soft closing mechanism is integrated in the hinge cup, and continues to provide the quality of motion you have come to expect from Blum hardware. COMPACT BLUMOTION hinges are available for most overlay face frame applications or door styles.



39C/38C series – Full overlay hinges

COMPACT BLUMOTION 39C full overlay hinges with a 110° opening angle and 1/2" cup depth and 38C full overlay hinges with a 107° opening angle and 7/16" cup depth (ideal for profile doors).



38N series – Partial overlay hinges

COMPACT BLUMOTION 38N partial overlay hinges with a 105° opening angle and 7/16" cup depth.



38B series – Full overlay, face mount hinges

COMPACT BLUMOTION 38B full overlay face mount hinges with a 107° opening angle and 7/16" cup depth.



Overload safety feature

This feature protects the hinge from damage if the door is slammed and maintains the BLUMOTION soft closing for the life of the hinge.



Deactivation option

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



Interchangeable with COMPACT hinges

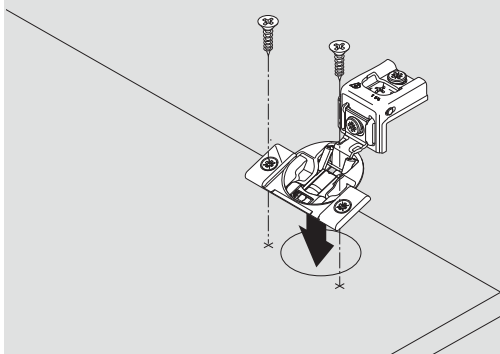
COMPACT BLUMOTION hinges are interchangeable with current COMPACT hinges so no need to change existing setups or workflows.

General specifications

BLUMOTION
inside

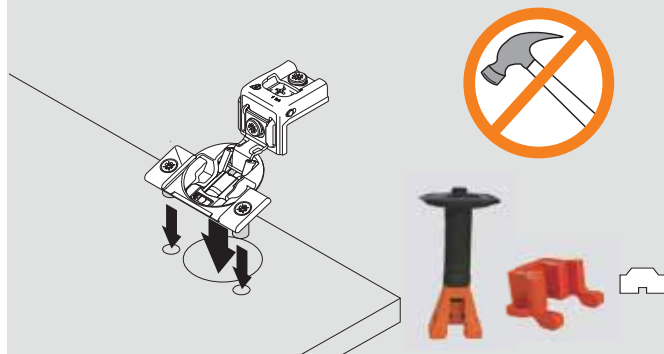
Screw-on

Use #6 wood screws



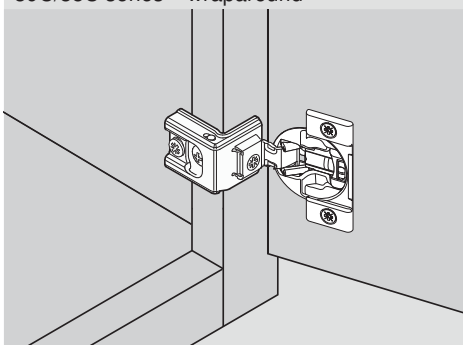
Press-in

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

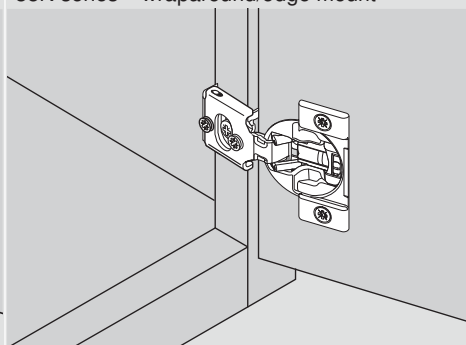


Mounting plate attachment

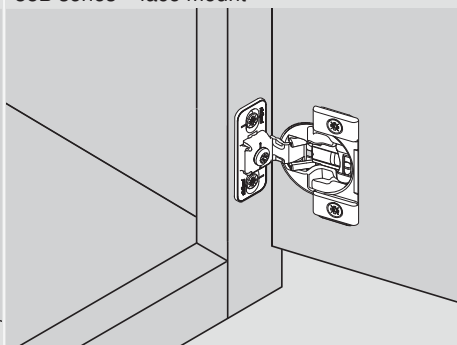
39C/38C series – wraparound



38N series – wraparound/edge mount



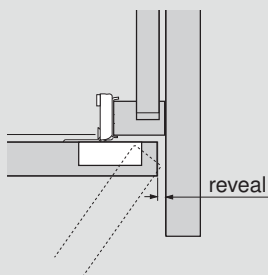
38B series – face mount



Minimum reveal

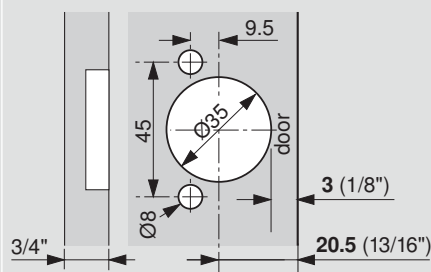
A minimum reveal per door is required to keep the door from binding and varies depending on door thickness.

See minimum reveal table for each hinge.



Hinge cup centerpoint

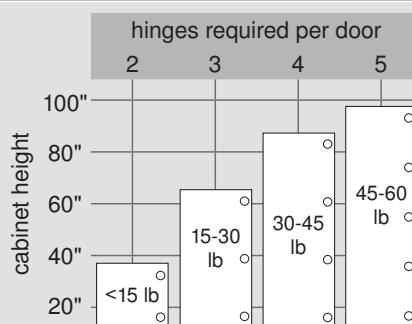
Hinge cup centerpoint and MINIPRESS/ MINIDRILL setback position is **20.5 (13/16")** for COMPACT BLUMOTION hinges



NOTE: Maximum door thickness 3/4"

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.

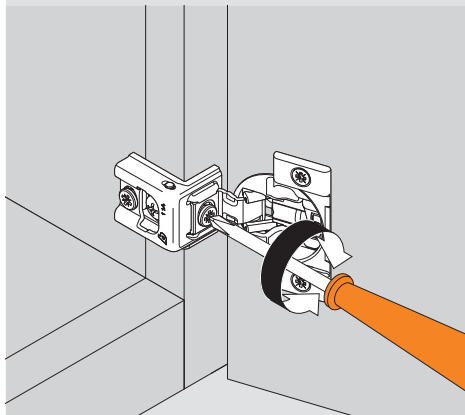
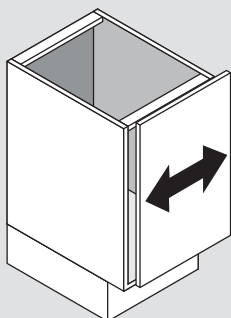


NOTE: The distance between the top and bottom hinges must be greater than the width of the door

Three-dimensional adjustment

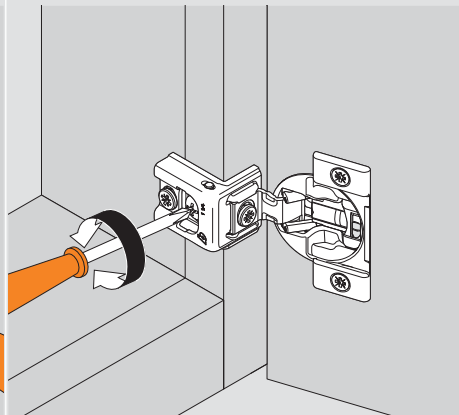
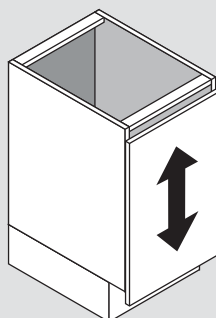
Side adjustment

Rotate the front cam screw to increase or decrease door overlay ($\pm 1/16"$)



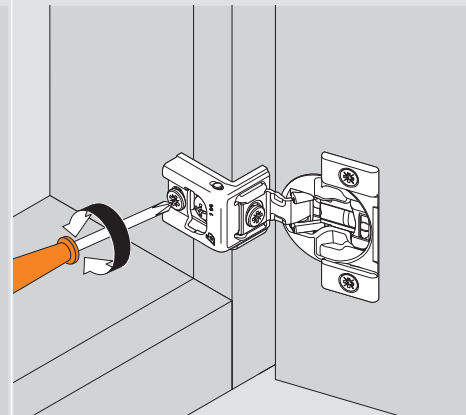
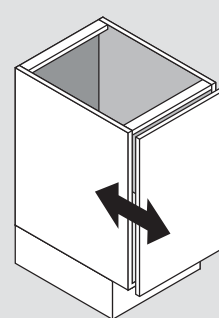
Height adjustment

Loosen installation screws to adjust door position ($\pm 1/8"$), then retighten



Depth adjustment

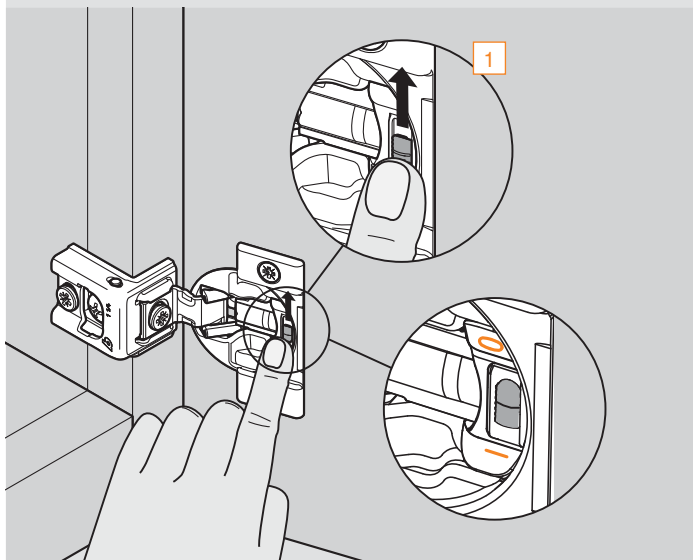
Rotate the rear cam screw to adjust door gap ($+ 3/32"$, $- 1/32"$)



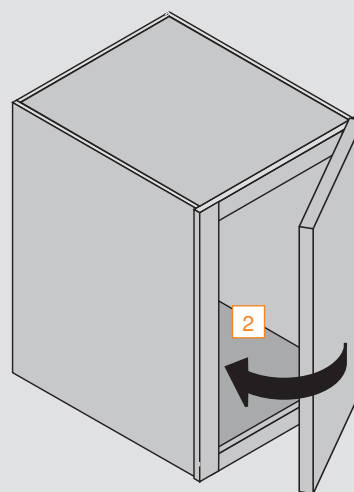
BLUMOTION deactivation

Deactivation switch on the hinge cup

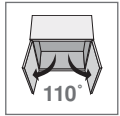
For small or light doors, the BLUMOTION can be deactivated on one of the hinges. COMPACT BLUMOTION comes in the activated position, marked with a "I". The deactivated position is marked with a "0".



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



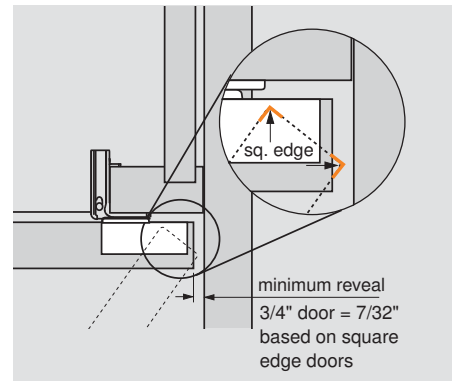
COMPACT BLUMOTION 39C hinges for full overlay



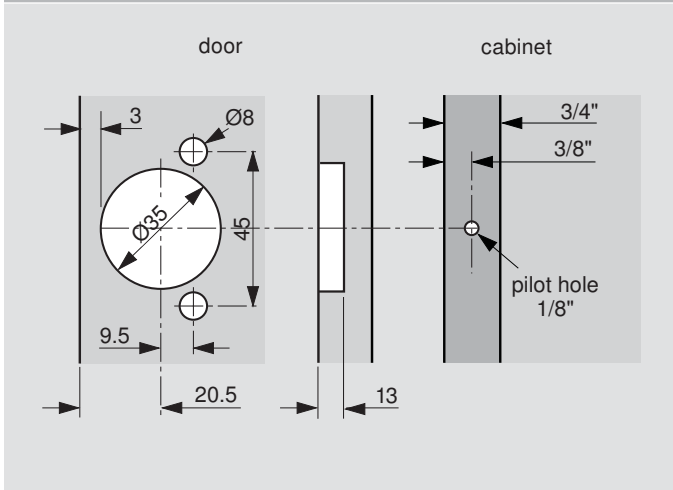
Description

- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- Overload safety feature
- One-piece wraparound hinge
- 1/2" cup depth

Minimum reveal

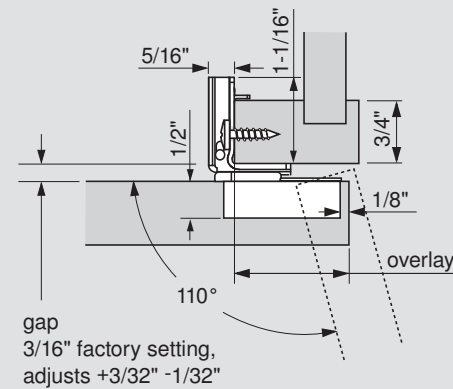


Boring pattern

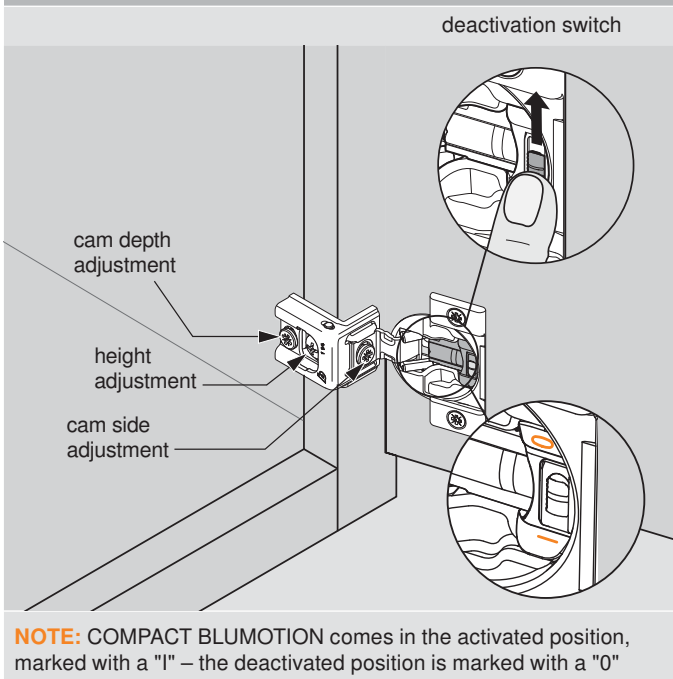


NOTE: Maximum door thickness 3/4"

Dimensions



Adjustment



NOTE: COMPACT BLUMOTION comes in the activated position, marked with a "1" – the deactivated position is marked with a "0"

Wraparound hinges



overlay	screw-on	47 press-in
1"	39C355B.16	39C358B.16
1-1/4"	39C355B.20	39C358B.20
1-5/16"	39C355B.21	39C358B.21
1-3/8"	39C355B.22	39C358B.22
1-1/2"	39C355B.24	39C358B.24
1-9/16"	39C355B.25	39C358B.25

Installation screw

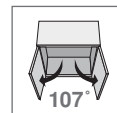
Truss head screw	834TH
------------------	-------

Accessories

Angle restriction clip	38C315B3.1
Hinge cup spacer	38C355B9
*Blank cover cap	38C3508

*See page 42 for additional cover cap options

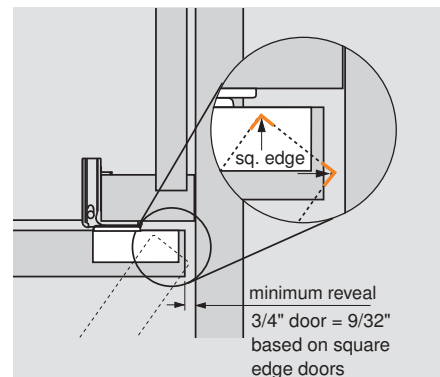
COMPACT BLUMOTION 38C hinges for full overlay



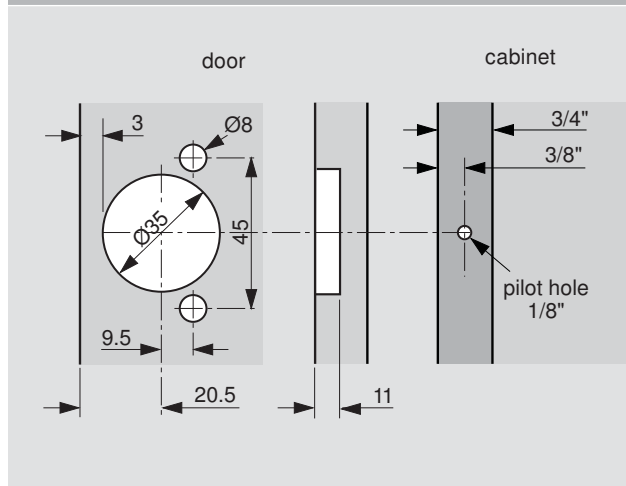
Description

- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- Overload safety feature
- One-piece wraparound hinge
- 7/16" cup depth

Minimum reveal

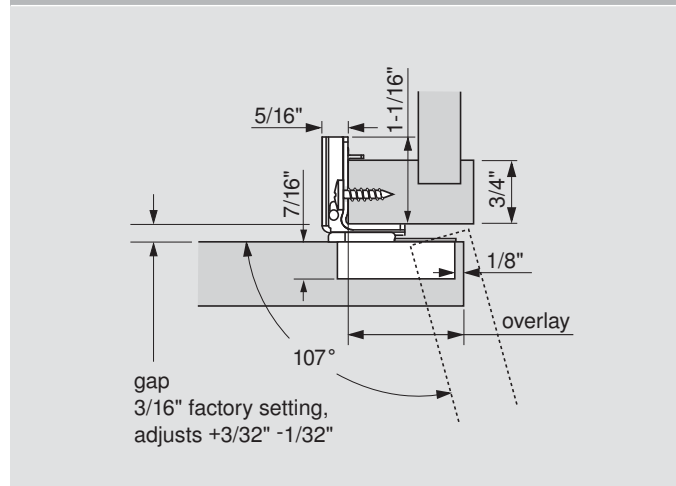


Boring pattern

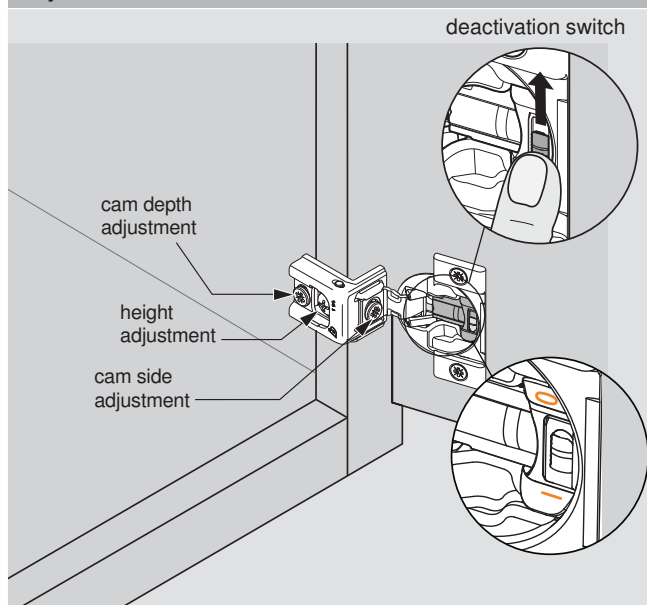


NOTE: Maximum door thickness 3/4"

Dimensions



Adjustment



NOTE: COMPACT BLUMOTION comes in the activated position, marked with a "I" – the deactivated position is marked with a "0"

Wraparound hinges



Overlay	Screw-on	47 Press-in
1-1/4"	38C355B.20	38C358B.20

Installation screw

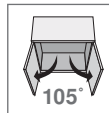
Truss head screw	834TH
------------------	-------

Accessories

Angle restriction clip	38C315B3.1
Hinge cup spacer	38C355B9
*Blank cover cap	38C3508

*See page 42 for additional cover cap options

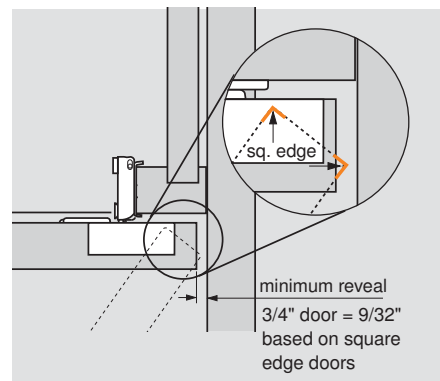
COMPACT BLUMOTION 38N hinges for partial overlay



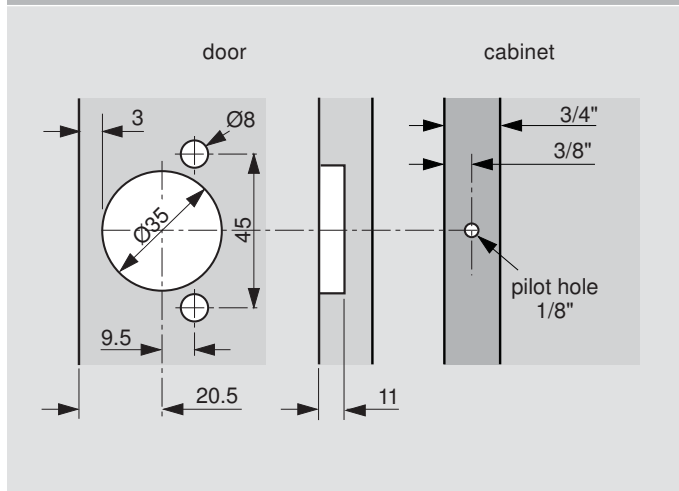
Description

- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- Overload safety feature
- One-piece wraparound hinge
- Edge mount available in 1/2" overlay
- 7/16" cup depth

Minimum reveal

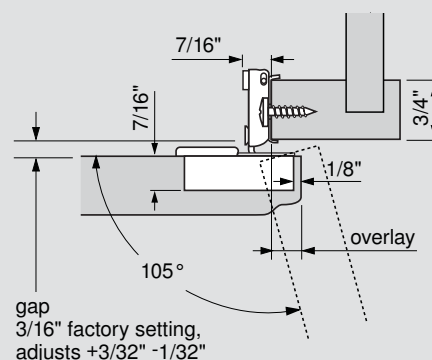


Boring pattern

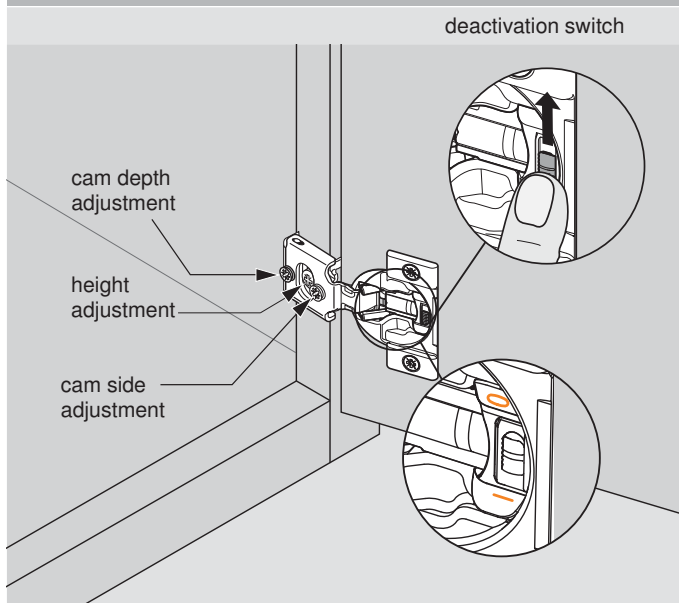


NOTE: Maximum door thickness 3/4"

Dimensions

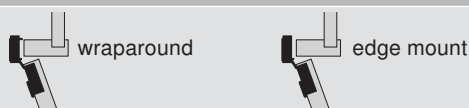


Adjustment



NOTE: COMPACT BLUMOTION comes in the activated position, marked with a "I" – the deactivated position is marked with a "O"

Wraparound and edge mount hinges



overlay	door protrusion	screw-on	press-in
5/16"	5/16"		38N358B.05
3/8"	1/4"	38N355B.06	38N358B.06
1/2"	1/8"	38N355B.08	38N358B.08
*1/2"	1/8"	38N355BE08	38N358BE08
5/8"	0	38N355B.10	38N358B.10
3/4"	0	38N355B.12	38N358B.12

*Available as edge mount hinge

Installation screw

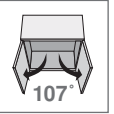
Truss head screw	834TH
------------------	-------

Accessories

Angle restriction clip	38C315B3.1
Hinge cup spacer	38C355B9
*Blank cover cap	38N3508B

*See page 42 for additional cover cap options

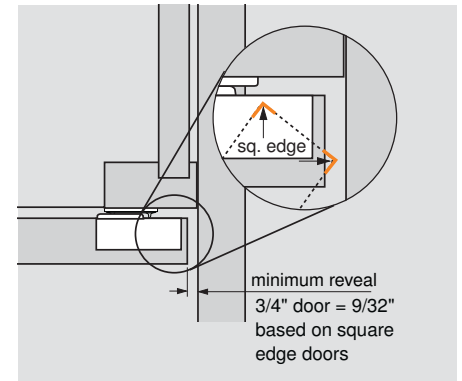
COMPACT BLUMOTION 38B hinges for face mount



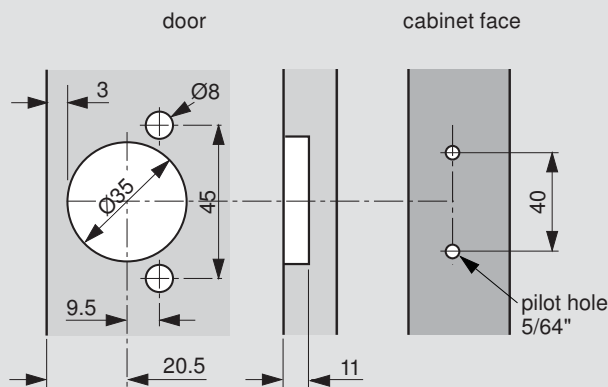
Description

- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- Overload safety feature
- One-piece face mount hinge
- 7/16" cup depth

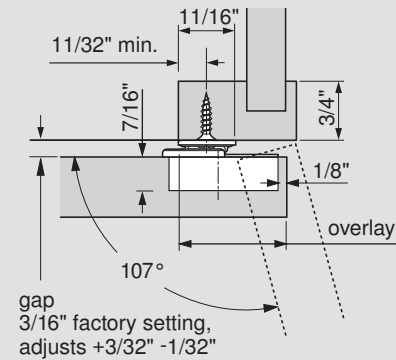
Minimum reveal



Boring pattern

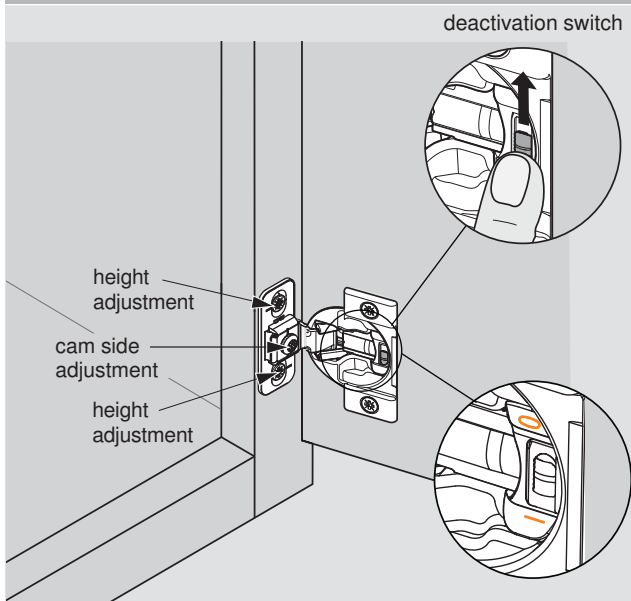


Dimensions



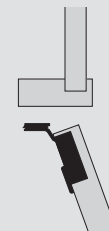
NOTE: Maximum door thickness 3/4"

Adjustment



NOTE: COMPACT BLUMOTION comes in the activated position, marked with an "I" – the deactivated position is marked with a "0"

Face mount hinges



overlay	screw-on	47 press-in
1-3/8" or greater	38B355BF22	38B358BF22

Installation screw

Flat head wood screw	606N or 606P
----------------------	---------------------

Accessories

Angle restriction clip	38C315B3.1
Hinge cup spacer	38C355B9

COMPACT BLUMOTION hinge accessories

a

Hinge arm cover caps



39C/38C cover cap



38N cover cap



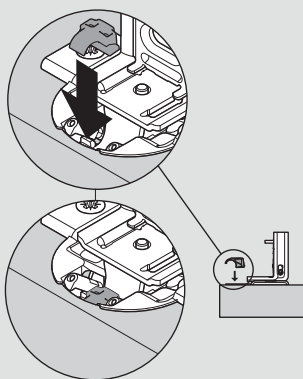
- Steel, nickel-plated cap
- Available blank or embossed (Blum logo)
- Also available with printed custom logo (minimum order quantity applies)

Part no.

39C/38C blank cover cap	38C3508
39C/38C Blum logo embossed cover cap	38C3508.BP
39C/38C Blum logo with black ink cover cap	38C3508.BL
38N blank cover cap	38N3508B
38N Blum logo embossed cover cap	38N3508BBP

Angle restriction clip

- Restricts opening angle of the COMPACT BLUMOTION to 86°
- Angle restriction clip must be inserted before the hinge has been attached to the face frame

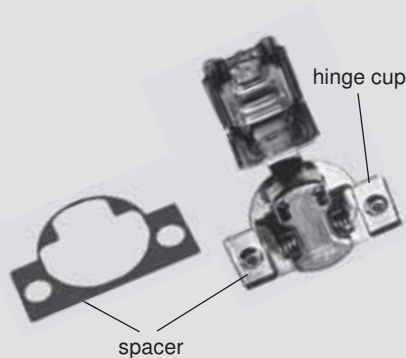


Part no.

Angle restriction clip **38C315B3.1**

Hinge cup spacer

- 1/16" spacer for use under the hinge cup for thin or profile doors

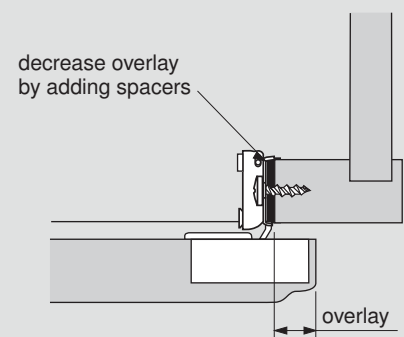
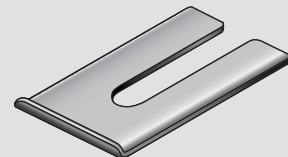


Part no.

Hinge cup spacer **38C355B9**

Distance spacer

- Steel spacer decreases door overlay in 1/32" increments
- Can be stacked to achieve desired overlay reduction



Part no.

Distance spacer **36.3515**

Assembly aids

a

Deep thread wood screw

- For attaching hinges and mounting plates

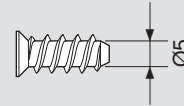


Part no.

#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 screw

- Pilot bore Ø5 (3/16") hole

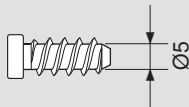


Part no.

#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 screw

- Pilot bore Ø5 (3/16") hole

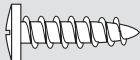


Part no.

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

Truss head screw

- For attaching hinge to face frame
- Type 17



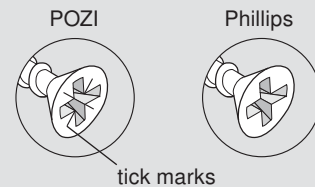
Part no.

#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 1" POZI bit insert	POZI BIT #2X2

Twin application screw

- Pre-bored Ø5 (3/16") hole

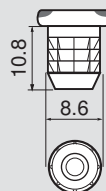


Part no.

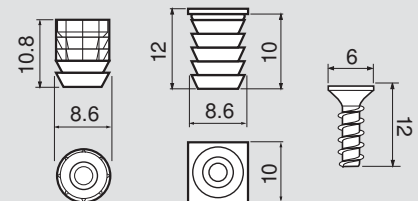
14 (9/16") screw	612.2010
20 (25/32") sleeve	612.2020
24 (15/16") sleeve	612.2420

Ø8 millimeter dowels

Square head dowel for attaching to hinges



Round dowel for insertion into doors



Part no.

Ø8 mm square dowel	70T5582.01	Ø8 mm round dowel	70.0532
Installation screw	608.1200	With flange	34.3582.01
		Installation screw	608.1200

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



- 110V 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

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

Machine accessories

9 spindle head



- 9 spindle head for use with MINIPRESS/MINIDRILL
- Bores nine holes spaced 32 mm apart, parallel to the fence
- New feature – quick-disconnect chucks
- Once aligned, does not require additional adjustment
- Bores cabinet side panel for 32 mm system boring for Blum mounting plates and runners
- Requires retrofit set for use with machines produced in 2009 or prior

Includes:

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

Part no.

9 spindle head	MZK.190S
Chuck cover cap	M30.1329

8 spindle head



- 8 spindle head for use with MINIPRESS/MINIDRILL
- Bores eight holes spaced 32 mm apart, perpendicular to the fence
- New feature – quick-disconnect chucks
- Once aligned, does not require additional adjustment
- Bores all METABOX and TANDEMBOX front fixing brackets and galleries
- Bores cabinet side panels for all Blum runner systems
- Requires retrofit set for use with machines produced in 2009 or earlier

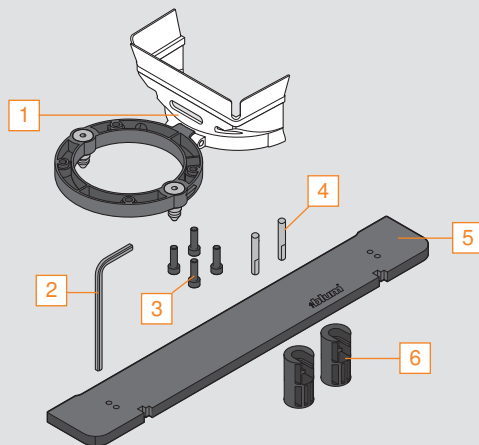
Includes:

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

Part no.

8 spindle head	MZK.880S
Chuck cover cap	M30.1329

Spindle head retrofit set



- Required for attachment of 9 and 8 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:

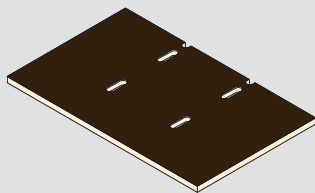
- 1 Adapter ring and shield
- 2 Ø5 mm allen wrench
- 3 Mounting bolts (qty 4)
- 4 Alignment pins (qty 2)
- 5 Alignment template
- 6 13 mm fixed depth stop (qty 2)

Part no.

Spindle head retrofit set	M30.1313.UM
---------------------------	--------------------

Assembly aids

Work table for M51 machine

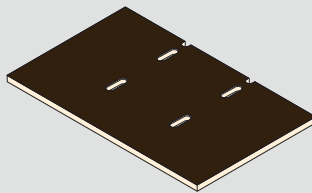


Part no.

Work table

MZA.1000

Work table for M52 machine

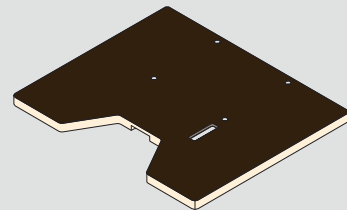


Part no.

Work table

MZA.5200

Work table for M53 machine



Part no.

Work table

MZA.5300

Center ruler



Part no.

Center ruler, 600 (2')

M30.0212

Extension ruler



Part no.

Extension ruler

MZL.1250.US

Extension ruler support



Part no.

Extension ruler support

MZV.2100

Ruler stop

Left or right ruler stop



Part no.

Ruler stop

MZS.3000

Small ruler stop

Left or right ruler stop



Part no.

Small ruler stop

MZS.2000

Large ruler stop

Symmetrical ruler stop



Part no.

Large ruler stop

MZS.1000

Fixed depth stop

13 (1/2") fixed depth stop for use with M51N machines (T-shaped)



Part no.

Fixed depth stop

M30.1304.01

Fixed depth stop

13 (1/2") fixed depth stop for use with M53 machines



Part no.

Fixed depth stop

M30.1304.02

Digital counter set



Part no.

Digital counter set

MZE.2110

Hold down clamp set



Part no.

Hold down clamp set

M53.0720.US

Laser center point set



Part no.

Laser center point set

MZR.5300.US

Breakaway clutch

For use with MINIPRESS and MINIDRILL



Part no.

Breakaway clutch

MZK.2009

Euro hinge insertion ram

- Can be used for inserting CLIP top BLUMOTION, CLIP top, and CLIP press-in hinges



NOTE: Not for use with CLIP top BLUMOTION and CLIP top 95°, CLIP 100°, wide angle or specialty hinges

Part no.

#10 insertion ram

MZM.0010.01**Euro hinge insertion ram**

- Can be used for inserting Blum wide angle press-in hinges



Part no.

#18 insertion ram

MZM.0018**Euro hinge insertion ram**

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



NOTE: Not for use with 170° and 155° wide angle hinges

Part no.

#40 insertion ram

MZM.0040**COMPACT hinge insertion ram**

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



Part no.

#47 insertion ram

MZM.0047**Mounting plate insertion Ram**

- MINIPRESS insertion ram for press-in, in-line mounting plate 177H3100



Part no.

#53 insertion ram

MZM.0053**Machine drill bits**

Ø5 mm



Ø8 mm



Ø10 mm



Ø35 mm

Part no.

Ø5 mm drill bit (right handed)

M01.ZB05.D2 R

Ø5 mm drill bit (left handed)

M01.ZB05.D3 L

Ø8 mm drill bit (left handed)

M01.ZB08.03 L

Ø10 mm drill bit (right handed)

M01.ZB10.02 R

Ø10 mm drill bit (left handed)

M01.ZB10.03 L

Ø20 mm drill bit (right handed)

M01.ZB20.02 R

Ø35 mm with center point

M01.ZB35.02 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-2 mm

DB-10 x 2mm

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

Assembly aids

Knock-in tool



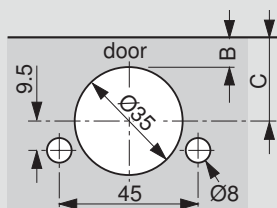
- Can be used to insert all Blum press-in hinges

Part no.

Knock-in tool

ZME.0710

ECODRILL



- Simple device for boring Blum hinge pattern
- Driven by electric/cordless drill (18v or higher)
- Boring distance adjusts from 2 mm to 8 mm
- Clamps to various door thicknesses up to 40 mm
- Includes drill bits (pre-installed) and two Torx bits

ECODRILL

M31.1000

Accessories

Replacement Ø35 mm bit

M31.ZB35.02

Replacement Ø8 mm bit

M31.ZB08.02

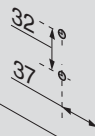
Tool set

MZW.1300

ECOJIG



holes are:
32mm apart,
37mm setback



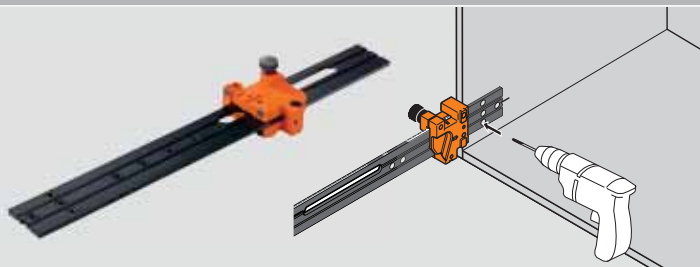
- Used to bore Ø5 mm holes for mounting plates that are mounted with system screws, EXPANDO dowels or INSERTA
- Also can be used to pre-bore Ø5 mm holes for EXPANDO BLUMOTION adapters
- Ø5 mm stop collar included

Part no.

ECOJIG

65.5070

Universal individual template



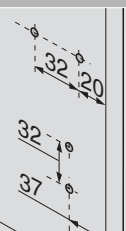
- For pre-boring mounting plates
- Also used for marking and pre-boring cabinet profiles, BLUMOTION, TIP-ON adapter plates and AVENTOS locating pins
- Calibrated scale for accurate setting

Part no.

Universal individual template

65.1051.01

Mounting plate template



- Use with CLIP mounting plates on overlay applications on panel cabinets
- For wing mounting plates (37 mm setback) and in-line mounting plates (20 mm setback)
- Simple location of mounting plate screw positions
- Pilot bore Ø2.5 mm holes for wood screws

Part no.

Mounting plate template

65.5300

QUICKFIX

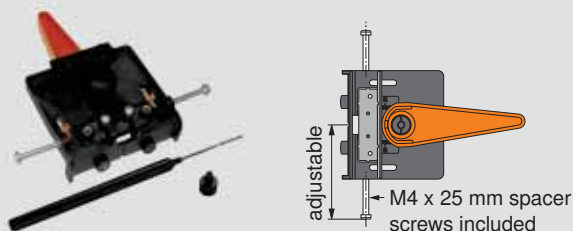


- Drilling sleeve dimensions changed from 2.5 mm to 5 mm for drilling for in-line mounting plates
- Locates/matches positions of hinges and plates on cabinets and doors
- Transfers positions from door-to-cabinet and cabinet-to-door
- Adjustable stop for various door overlays
- For use with wing or in-line mounting plates

Part no.

QUICKFIX	65.7500.03
Accessories	
Additional CLIP template	65.7510.03
2.2 meter rail	65.7590
Ø5 mm drill bit	DB-5mm

PLATEMATE



- Boring template for all Blum face frame adapter plates
- Clamps to the frame with cam lever
- Adjustment knob accommodates frame thickness of 5/8" to 1"
- Spacer screws permit quick use without measuring
- Includes 2.5 mm pilot bit and drill bit extension

Part no.

PLATEMATE	65.5030.01
-----------	------------

Dowelling fixture



- Tool designed for attaching and removing dowels from hinges
- Mounts directly to work surface

Part no.

Doweling fixture	69.3600
------------------	---------

INSERTA boring template

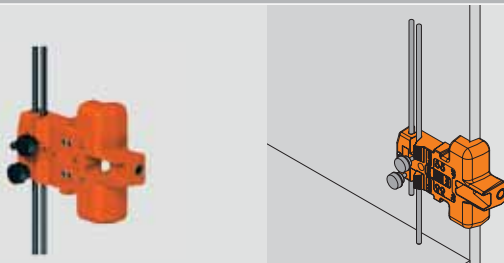


- For boring Ø8 mm dowel holes after Ø35 mm hole is bored
- Boring distance adjusts from 2 mm to 8 mm
- Also bores Ø5 mm holes for system screw mounting plates
- Includes drill stop collar to pilot bore Ø2.5 mm for screw-on plates

Part no.

INSERTA boring template	65.059A
-------------------------	---------

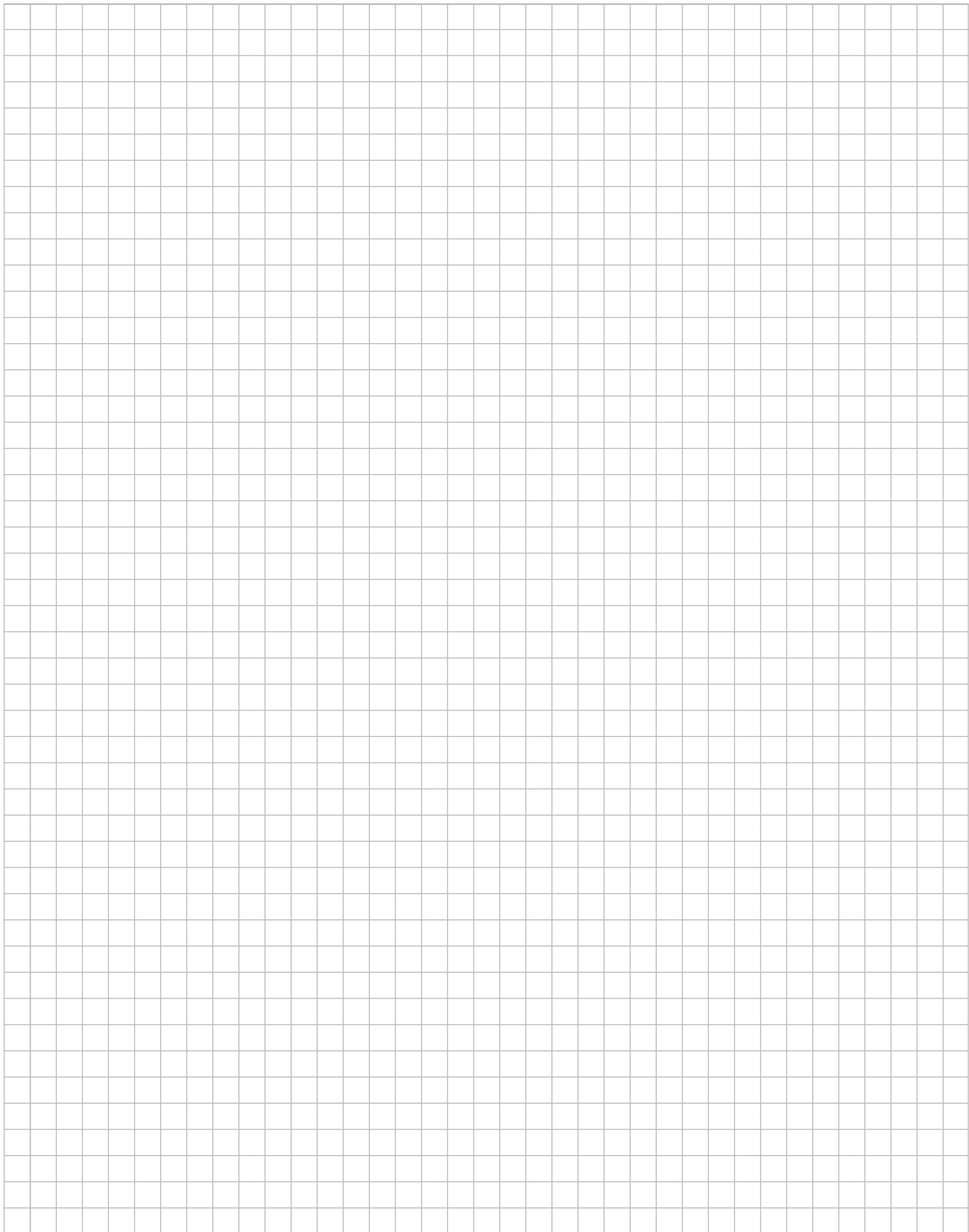
BLUMOTION for doors boring template



- For pre-boring BLUMOTION adapters
- Ø10 mm drill bushing for panel edge boring
- Vertical guides for setting height
- Can be used to pre-bore for wing and in-line mounting plates
- Includes Ø10 mm, Ø5 mm and Ø2.5 mm stop collars

Part no.

BLUMOTION for doors boring template	65.5000
-------------------------------------	---------



Part number index

Part no.

Page no.

171A5010	17-20, 22, 24, 25	34.3582.01	43	65.5000	49
171A5040	17, 18, 24	36.3515	42	65.5030.01	49
171A5070	17-19, 21, 25	38B355BF22	41	65.5070	48
171A5500	17-25	38B358BF22	41	65.5300	48
173H7100	18-25, 30	38C315B3.1	42	65.7500.03	49
173H7130	18, 23, 24, 30	38C3508	42	65.7510.03	49
173H9100	30	38C3508.BL	42	65.7590	49
173H9130	30	38C3508.BP	42	661.1000.HG	43
173L6100	29	38C355B.20	39	661.1150.HG	43
173L6130	29	38C355B9	42	661.1300.HG	43
173L8100	29	38C358B.20	39	661.1450.HG	43
173L8130	29	38N3508B	42	661.2000.HG	43
174E610Z	29	38N3508BBP	42	661.2500.HG	43
174E6100.01	29	38N355BE08	40	668.1450.EH	43
174H7100E	30	38N355B.06	40	69.3600	49
174H7100I	30	38N355B.08	40	70.0532	43
174H710ZE	30	38N355B.10	40	70.1503	33
174H7130E	30	38N355B.12	40	70.1503.BP	33
174H7130I	30	38N358B.05	40	70.1663	33
175H5030.21	32	38N358B.06	40	70.7503	33
175H3100	31	38N358B.08	40	7074N	43
175H6000	32	38N358B.10	40	707N	43
175H6030	32	38N358B.12	40	70T3504	33
175H6040	32	38N358BE08	40	70T3507.21	33
175H6060	32	39C355B.16	38	70T3553	33
175H6600	32	39C355B.20	38	70T5582.01	43
175H7100	31	39C355B.21	38	70T7503N	26-28
175H7130	31	39C355B.22	38	70T7503N09	26-28
175H7190	18, 25, 31	39C355B.24	38	71B3550	8
175H9100	31	39C355B.25	38	71B3580	8
175H9130	31	39C358B.16	38	71B358E	8
175H9160	18-20, 23, 25, 31	39C358B.20	38	71B3590	8
175H9190	18, 20-22, 31	39C358B.21	38	71B3650	8
175H9190.22	18, 22, 31	39C358B.22	38	71B3680	8
175L6030.21	32	39C358B.24	38	71B3690	8
175L6600.22	32	39C358B.25	38	71B3750	8
175L6600.24	32	6062N	43	71B3780	8
175L6630.22	32	6064N	43	71B3790	8
175L6660.22	32	606N	43	71B950A	12
175L8100	29	606P	43	71B9550	11
175L8130	29	608.1200	43	71B9580	11
175L8190	29	612.2010	43	71B9590	11, 17-20, 24
177H3100	31	612.2020	43	71B9650	11
177H3100E	31	612.2420	43	71B9680	11
177H3130E	31	65.059A	49	71B9690	11, 17, 18, 21, 25
181.6130	18, 25	65.1051.01	48	71B9750	11

Part no.

Page no.

71B9780	11	M30.1304.02	46
71B9790	11, 17, 18, 22	M30.1313.UM	45
71T7500N	26, 27	M30.1329	45
71T7530N	26, 27	M31.1000	48
71T7540N01	26, 27	M31.ZB08.02	48
71T7600N	28	M31.ZB35.02	48
71T7640N01	28	M52.1056*US	44
73B3550	9	M53.0720.US	46
73B3580	9	M53.1004*US	44
73B358E	9	M53.1053*50	44
73B3590	9	M53.1053*US	44
79B3490	17, 18, 24, 25	MZA.1000	46
79B3491	17, 18, 24, 25	MZA.5200	46
79B3493	17, 18, 24, 25	MZA.5300	46
79B3598	15, 17, 18, 20	MZE.2110	46
79B9494	17-22	MZK.190S	45
79B9496	17, 18, 19	MZK.2009	46
79B9498	17-20	MZK.880S	45
79B9550	13	MZL.1250.US	46
79B9580	13	MZM.0010.01	47
79B9590	13	MZM.0018	47
79B9595	17, 18, 20-23	MZM.0040	47
79B9596	17, 18, 20-23	MZM.0047	47
79B9698	17, 18, 22	MZM.0053	47
79B9980	14	MZR.5300.US	46
834TH	43	MZS.3000	46
90M2103.01	33	MZS.2000	46
90M2203	33	MZS.1000	46
94M3203	33	MZV.2100	46
973A7000	26, 28	MZW.1300	48
BIT HOLDER	43	POZI BIT #2x1	43
DB-2mm	47	POZI BIT #2x2	43
DB-2.5mm	47	POZI DRIVER	43
DB-5mm	47, 49	VPB-5	47
DB-8mm	47	ZME.0710	48
DB-10mm	47		
DB-10 x 2mm	47		
M01.ZB05.D2 R	47		
M01.ZB05.D3 L	47		
M01.ZB08.03 L	47		
M01.ZB10.02 R	47		
M01.ZB10.03 L	47		
M01.ZB20.02 R	47		
M01.ZB35.02 R	47		
M30.0212	46		
M30.1304.01	46		



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 blum.com for information on other Blum products
LIT.HNG1600 07.13 © 2013 Blum, Inc. Printed in the USA

Blum, Inc.
7733 Old Plank Rd.
Stanley, NC 28164
800-438-6788
blum.com



ISO 9001
Certified Quality
System

