

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.

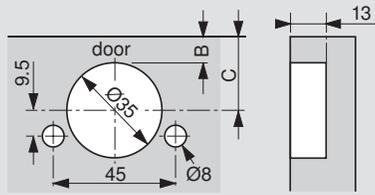


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# Quick reference

## Hinge cup centerpoint

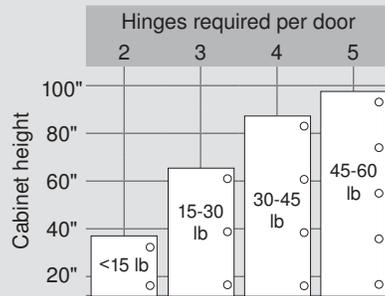


C = Cup centerpoint

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

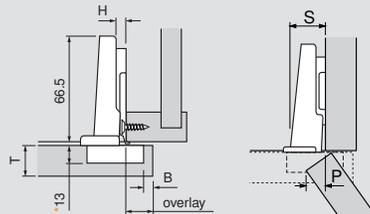
## Hinges per door



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

## 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)

## 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



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.

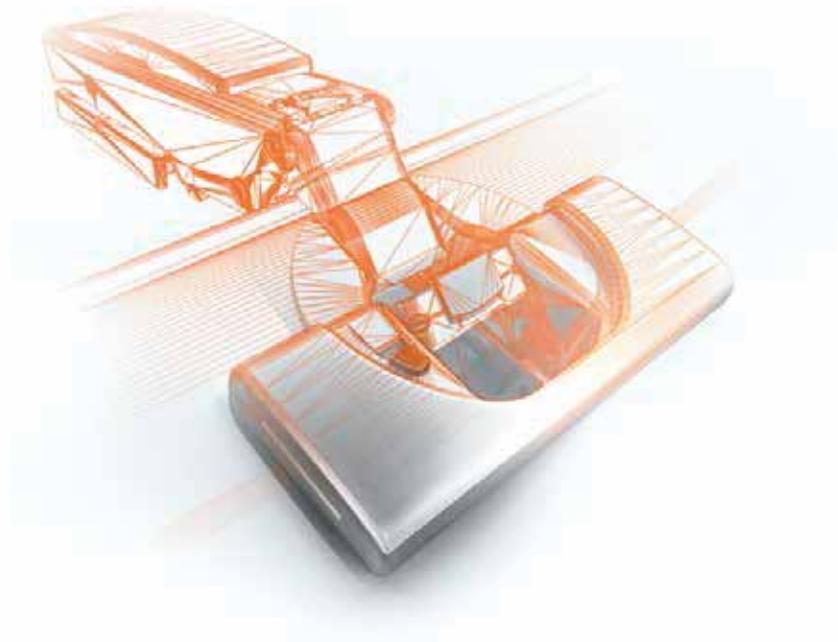


# Innovative technology concentrated into a small space

## 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](http://blum.com/planning)



# Elegant design, Superior function

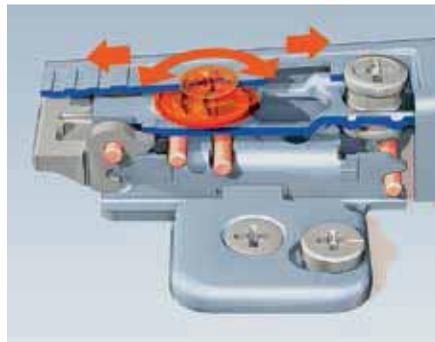
Silent and effortless, that's how cabinet doors close with CLIP top BLUMOTION hinges – regardless of the weight or closing speed. The BLUMOTION soft close mechanism is integrated in the hinge cup, and continues to provide the quality of motion you have come to expect from Blum.

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

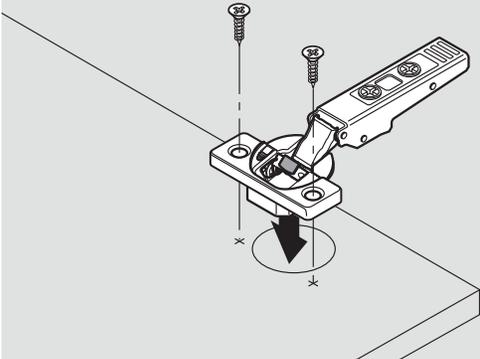
CLIP top BLUMOTION works with all current CLIP mounting plates so you can start using this new hinge right away with little change to production.

# General specifications

## Hinge-to-door attachment

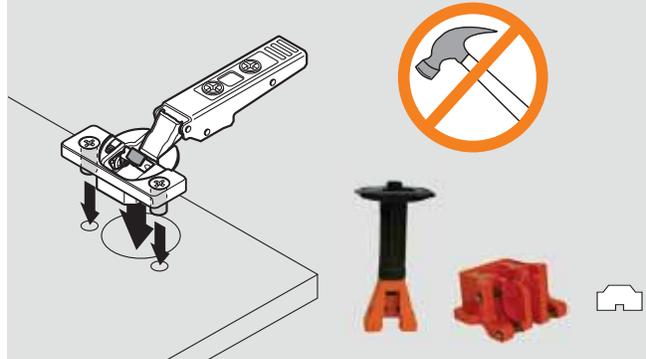
### Screw-on

Use #6 wood screws



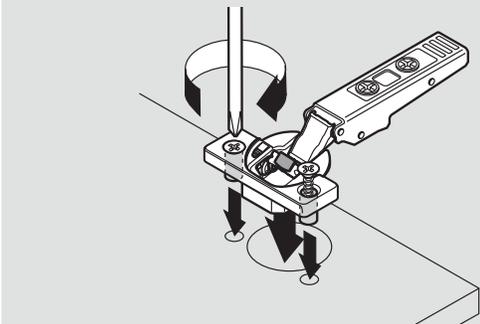
### Press-in

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



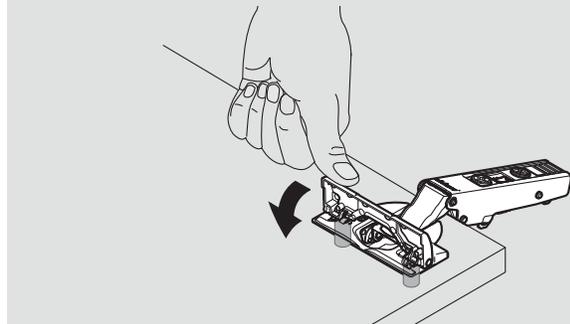
### EXPANDO

Pre-attached expanding Ø8 mm dowels



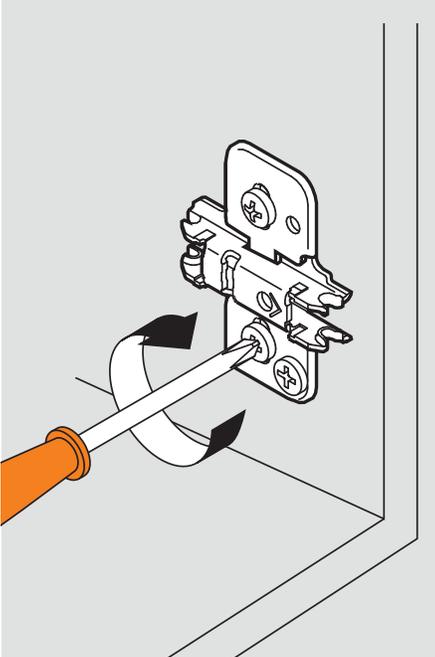
### INSERTA

Tool-free attachment with INSERTA expanding Ø8 mm dowels



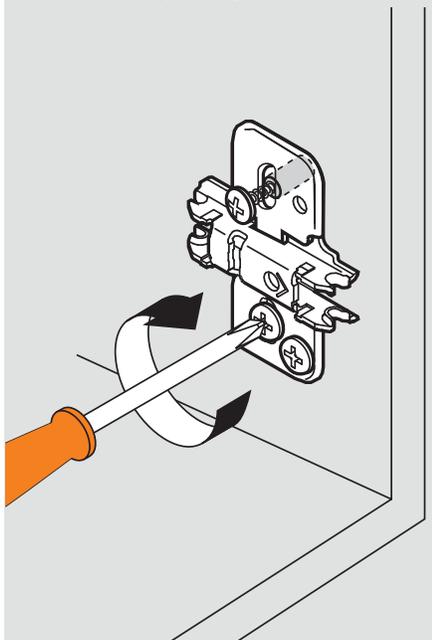
## Mounting plate-to-cabinet

### Screw-on



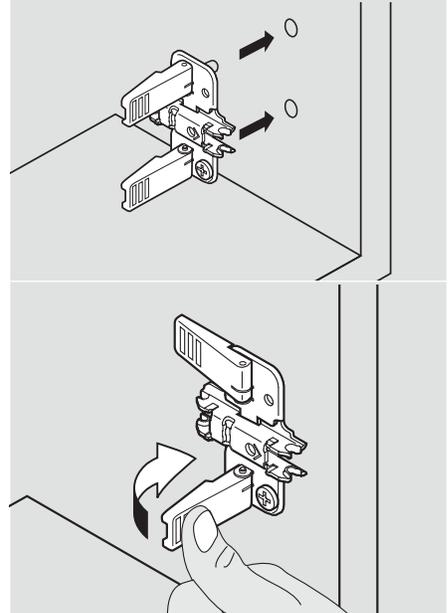
### EXPANDO

Pre-attached expanding Ø5 mm dowels



### INSERTA

Tool-free attachment with INSERTA expanding Ø5 mm dowels

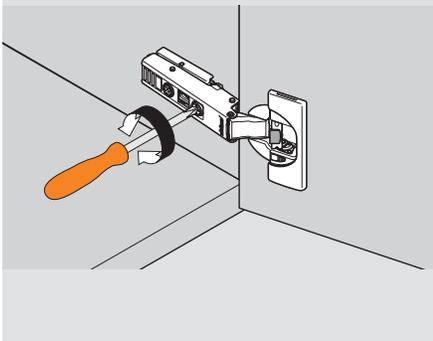
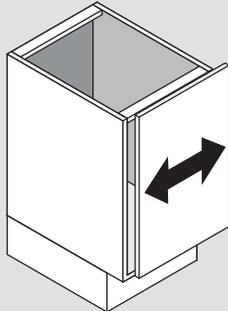


# Adjustment

## Three-dimensional adjustment

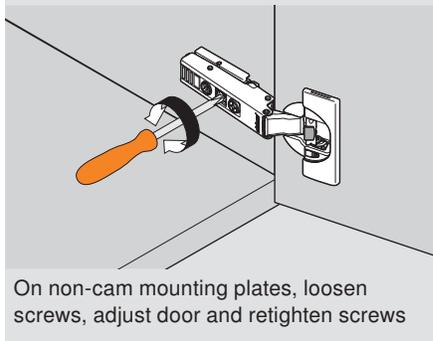
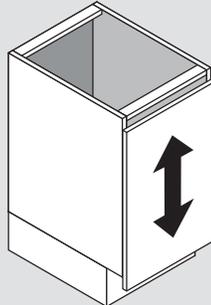
### Side adjustment

Rotate front screw to increase or decrease door overlay ( $\pm 2$  mm)



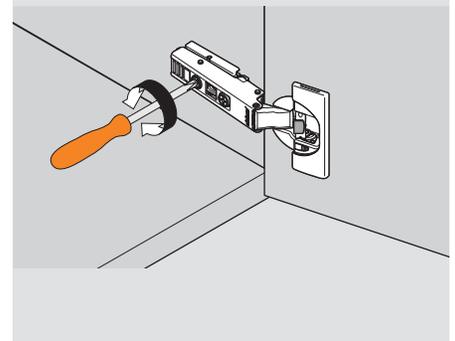
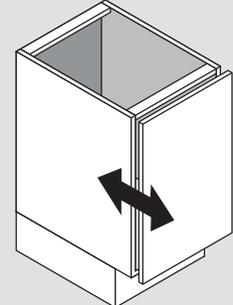
### Height adjustment

Rotate cam screw on mounting plate to adjust door position ( $\pm 2$  mm)



### Depth adjustment

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

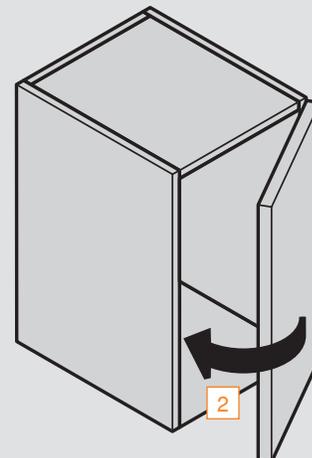
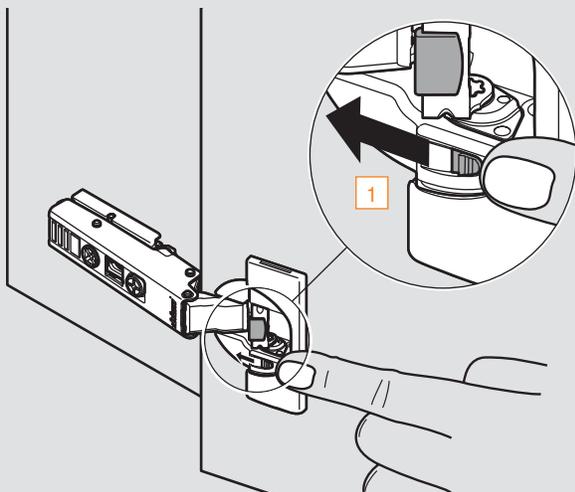


## BLUMOTION deactivation

### 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.



## i 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



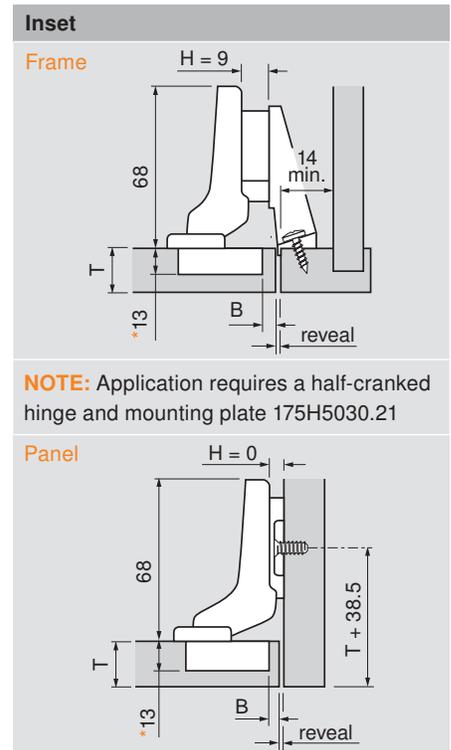
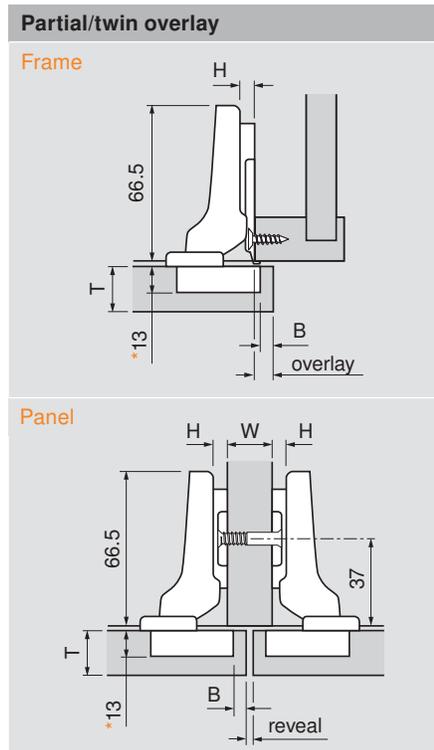
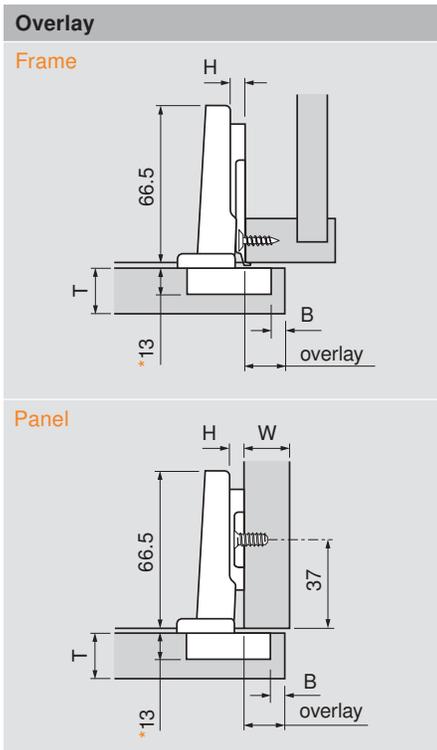
## Features

- 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					
3	0.5	1.0	1.8	2.7	4.3
4	0.5	1.0	1.7	2.5	3.8
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



**NOTE:** Application requires a half-cranked hinge and mounting plate 175H5030.21

\*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		
	10	8	6	4	2	19	21.5	31
	13	11	9	7	5	22		
	3	4	5	6	7	B = boring distance		
	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



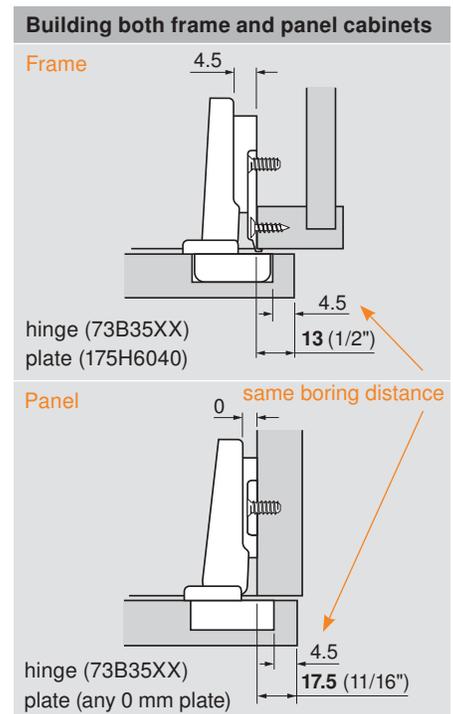
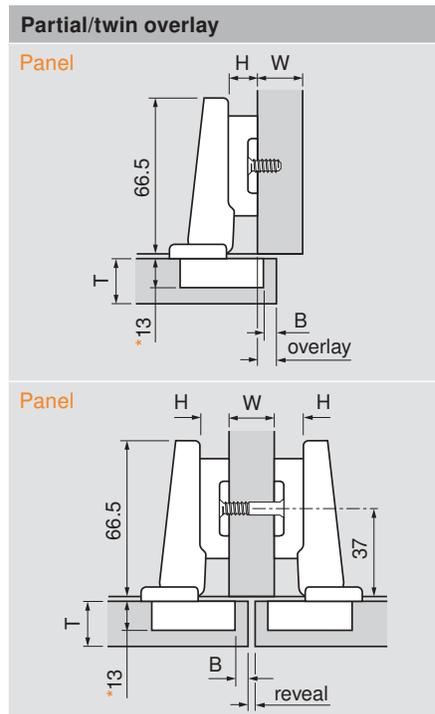
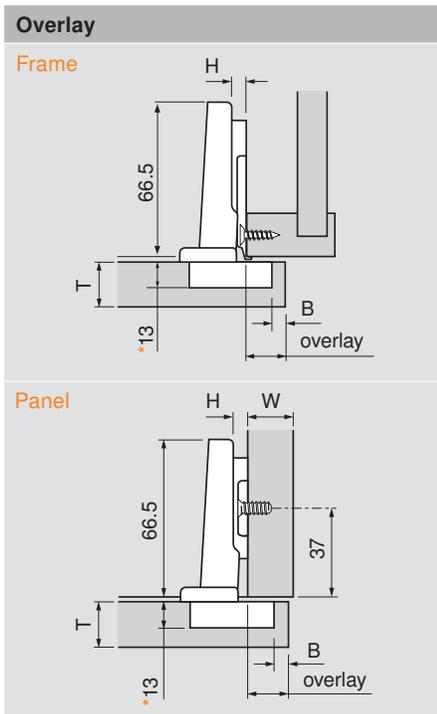
## Features

- 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
	2	-	-	-	-	-	16		
9	5	3	2	-	-	-	19	19	29
	8	6	5	4	-	-	22		
	3	4	4.5	5	6	7			
	B = boring distance								

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

- Bore all doors at 4.5 mm to achieve:
- 13 (1/2") overlay on frame cabinets
  - 17.5 (11/16") overlay on panel cabinets

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

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



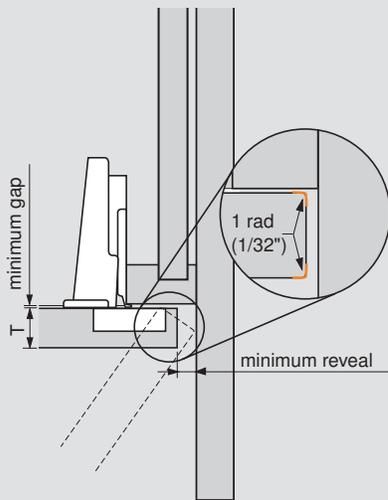
## New geometry for thick door applications

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

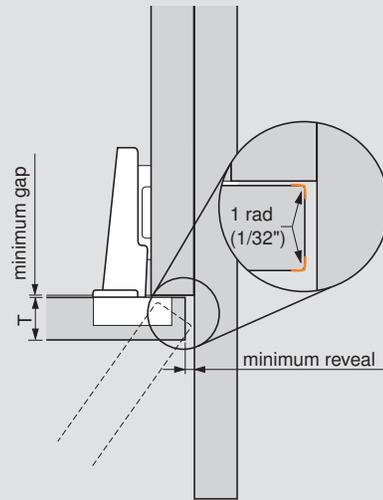
The factory setting for the door gap (distance between the back of door and front of side panel/frame) is 1.5 mm. For full opening angle without contacting the side panel or frame, the gap behind the door and the minimum reveal must be adjusted according to the table below.

**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



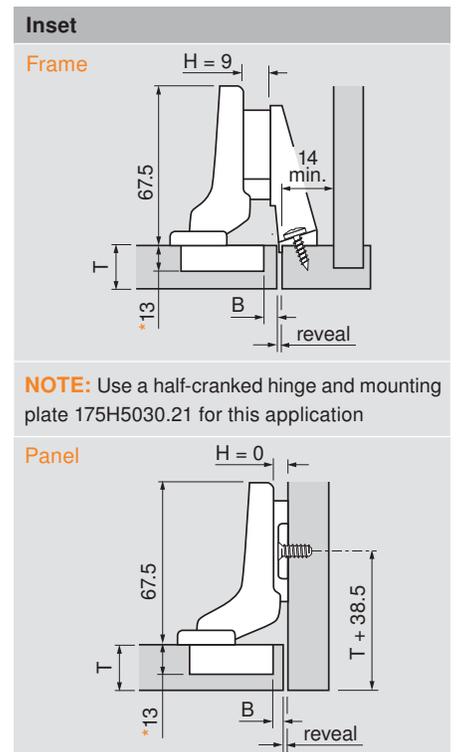
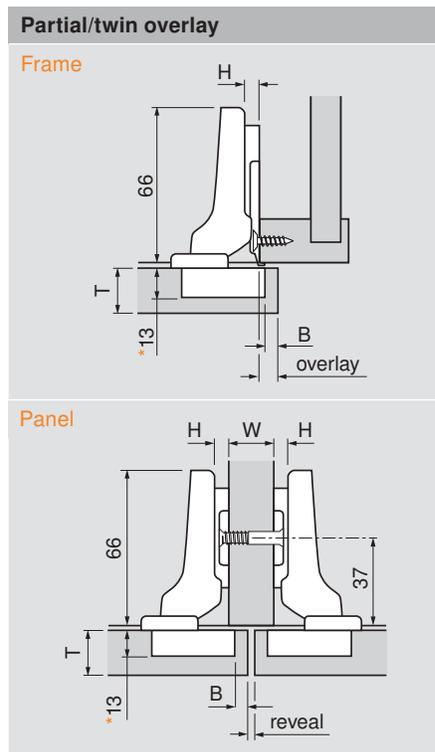
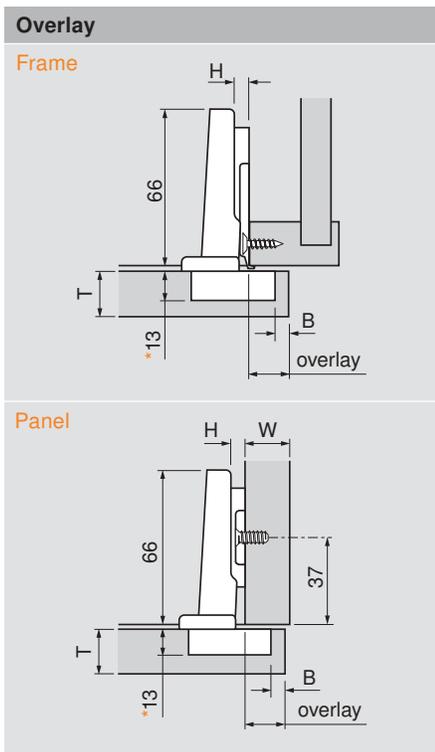
## Features

- 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
0	7	5	3	1	-	16		
	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	<b>71B9550</b>
Press-in	<b>71B9580</b>
INSERTA	<b>71B9590</b>

Half-cranked	Self close
Screw-on	<b>71B9650</b>
Press-in	<b>71B9680</b>
INSERTA	<b>71B9690</b>

Full-cranked	Self close
Screw-on	<b>71B9750</b>
Press-in	<b>71B9780</b>
INSERTA	<b>71B9790</b>

# 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

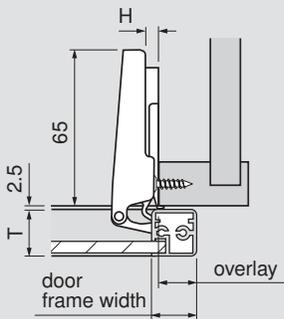


Minimum reveal table					
18	0.2	0.3	0.4	0.6	0.7
19	0.2	0.3	0.4	0.6	0.7
20	0.2	0.3	0.4	0.5	0.7
21	0.2	0.3	0.4	0.5	0.7
22	0.2	0.3	0.4	0.5	0.7
door frame width	18	19	20	21	22
T = door thickness					

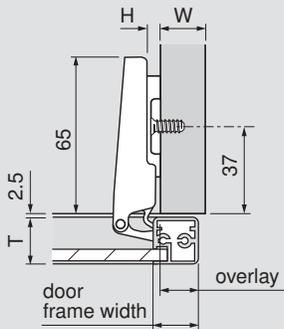
For thickness greater than 22 trial app. recommended

## Overlay

### Frame

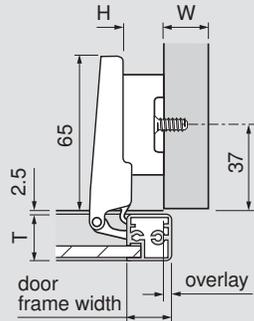


### Panel

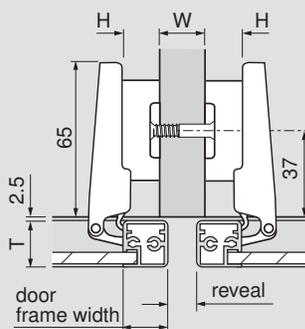


## Partial/twin overlay

### Frame

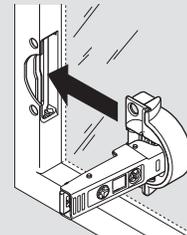


### Panel

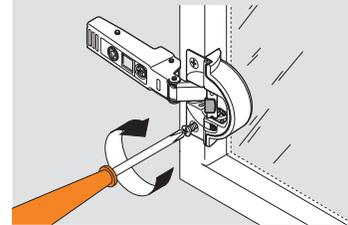


## Installation

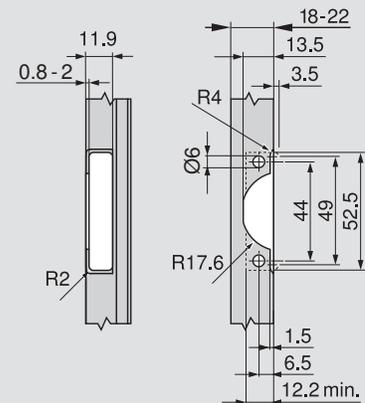
Attach cup adapter to the hinge and insert into machined openings



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
B = fixed				

Screw-on	Self close
	<b>71B950A</b>

Screw-on	Self close
	<b>71B950A</b>

## Abbreviations

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

# 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

### Flush door applications

Back of door is flush with stationary panel

Stationary panel spaced out thickness of door bumper

### Offset door applications

Stationary panel mounted to cabinet side, top and bottom

### Adjustments and clearance

\*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						

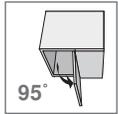
H	Reveal					P	S
0	5	4	3	2	1	33.5	21
	3	4	5	6	7		
	B = boring distance						

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

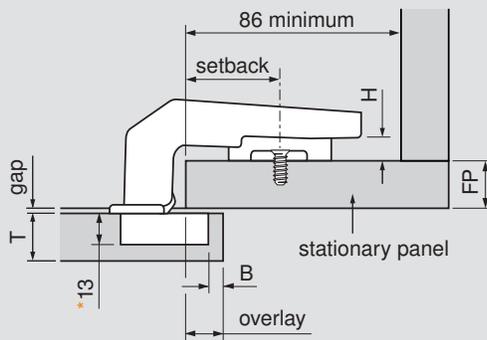
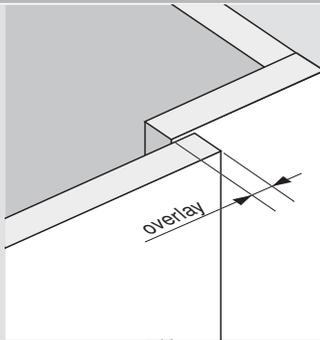
- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to 24 (15/16")
- Overload safety feature
- Boring distance range 3 mm to 7 mm
- Compatible with existing CLIP mounting plates and hinge arm cover caps



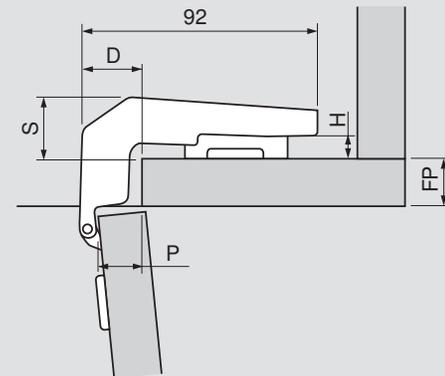
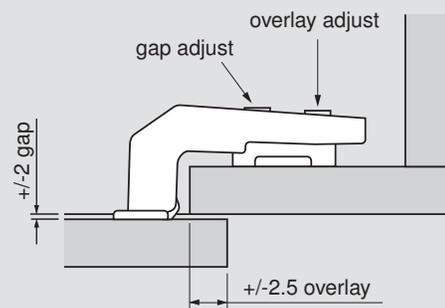
		Minimum reveal table					
3	0.1	0.3	0.4	0.5	0.9	1.3	
4	0.1	0.3	0.4	0.5	0.9	1.3	
5	0.1	0.3	0.4	0.5	0.9	1.3	
6	0.1	0.3	0.4	0.5	0.9	1.2	
7	0.1	0.3	0.4	0.5	0.9	1.2	
B= boring distance	16	18	19	20	22	24	
T = door thickness							

For thickness greater than 24 trial app. recommended

## Overlay application



## Adjustments and clearances



**NOTE:** Door gap can be adjusted  $\pm 2$  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

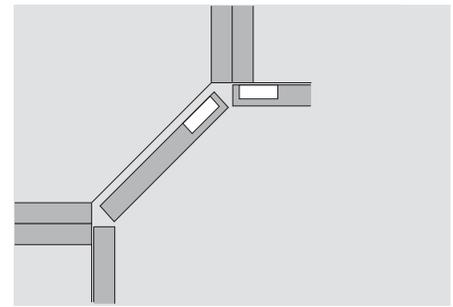
Overlay blind corner	Self close
Press-in	<b>79B9980</b>

# CLIP top BLUMOTION 110° diagonal hinge

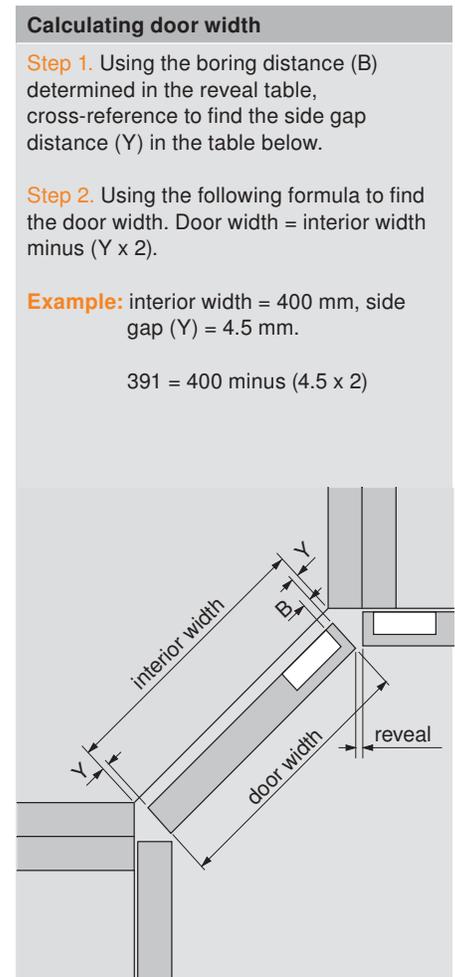
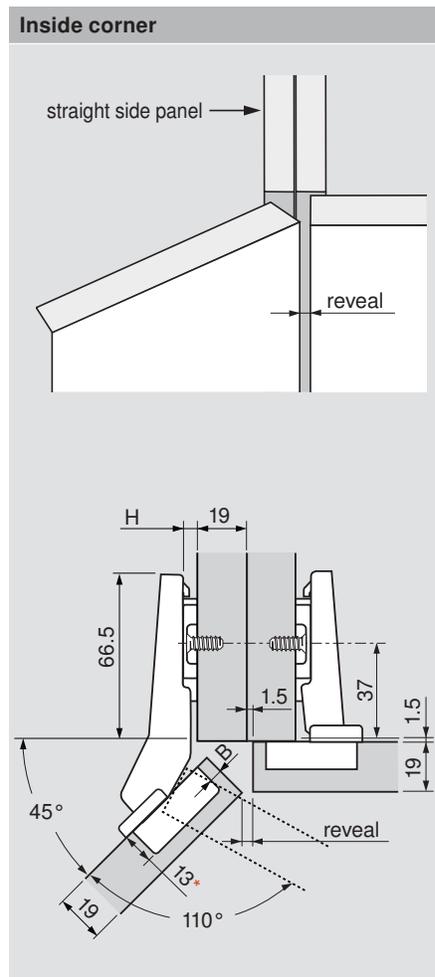
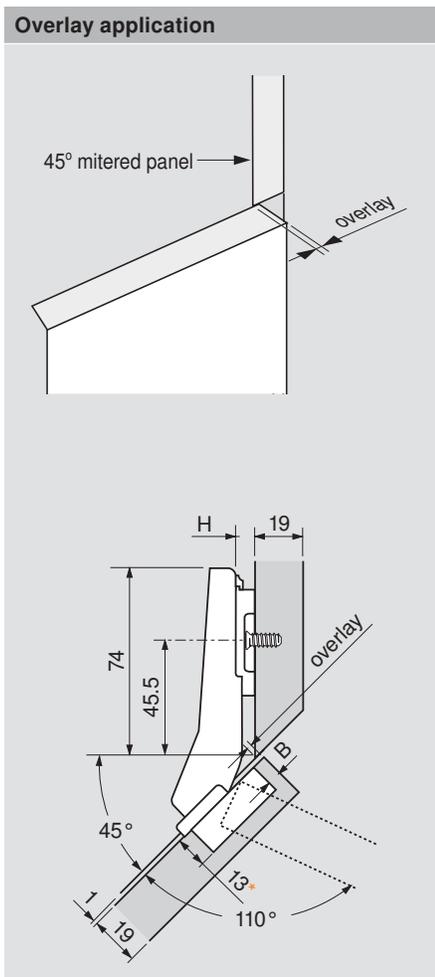


## Features

- 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



\*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°	<b>79B9494</b>	+20°	<b>79B9595</b>
		+30° II*	<b>79B9596</b>
			+30° III*
			<b>79B9496</b>
Part no.	Part no.	Part no.	
+45° I*	<b>79B9698</b>	+45° II*	<b>79B3598</b>
		+45° III*	<b>79B9498</b>

\*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°	<b>79B3493</b>	-30°
		<b>79B3491</b>
		-45°
		<b>79B3490</b>

## Thick door hinges used in angled applications

Part no.	Part no.	Part no.
95° straight-arm	<b>71B9590</b>	95° half-cranked
		<b>71B9690</b>
		95° full-cranked
		<b>71B9790</b>

## 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°	<b>171A5500</b>	+5°	<b>171A5010</b>
		+5°	<b>171A5040</b>
		+5°	<b>171A5070</b>

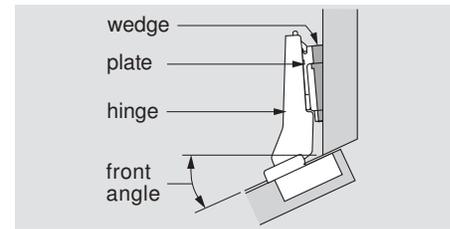
# Angle-to-style cross-reference

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

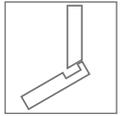
### Application number

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

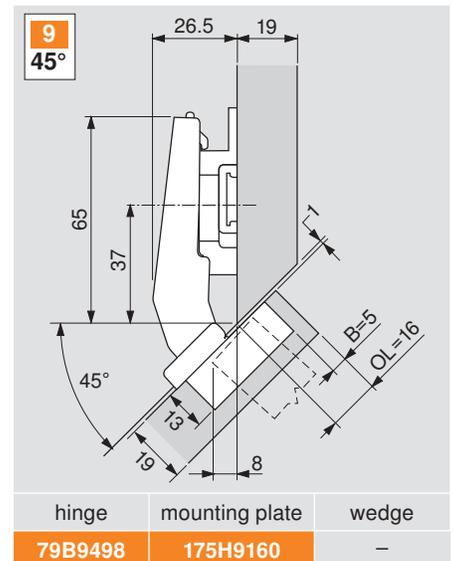
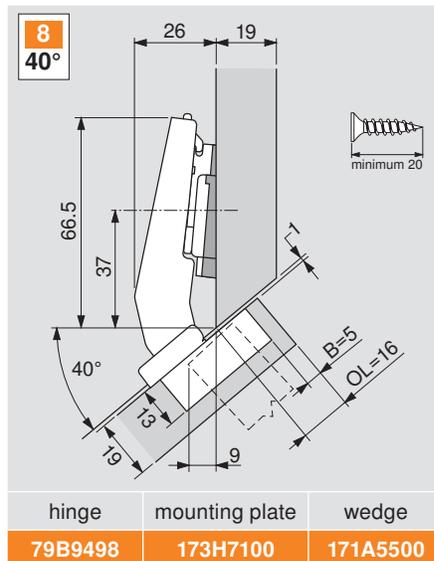
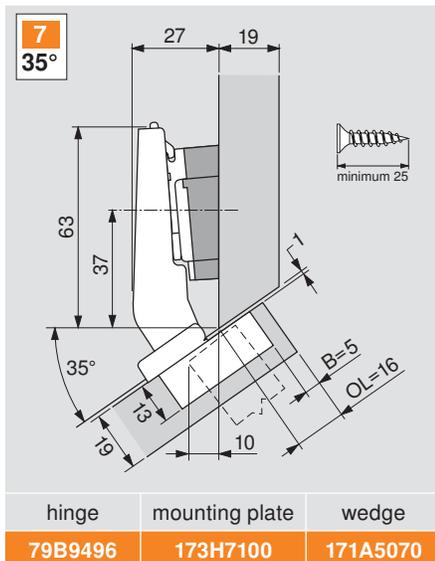
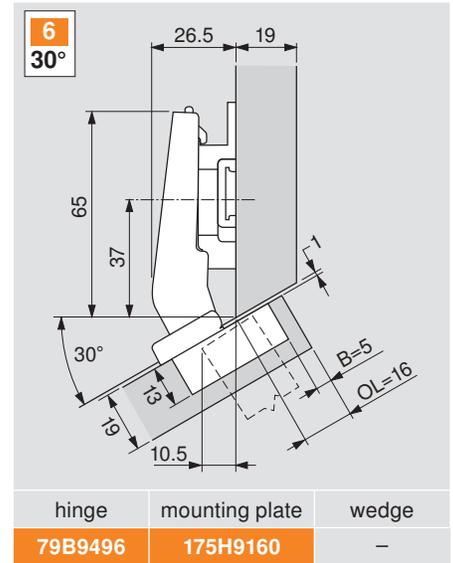
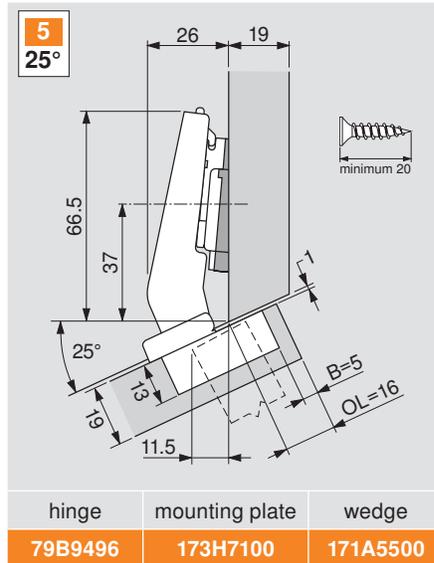
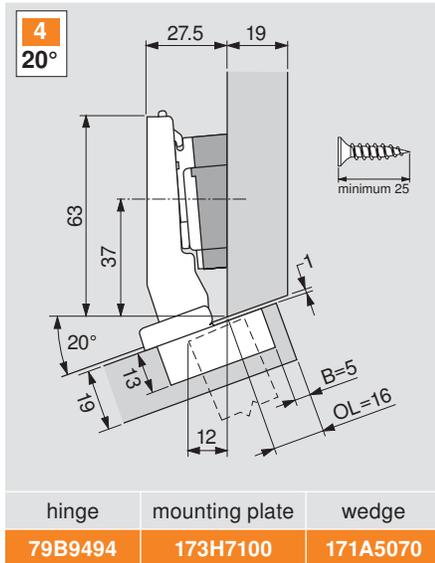
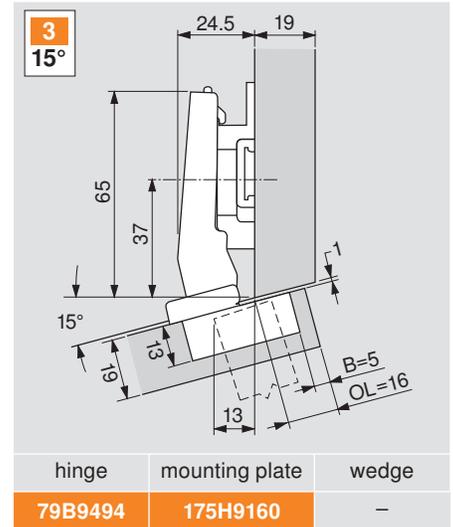
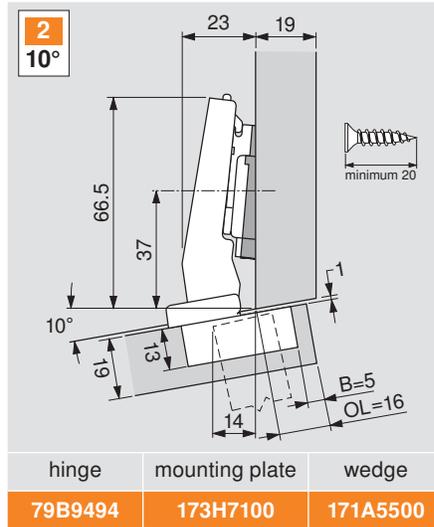
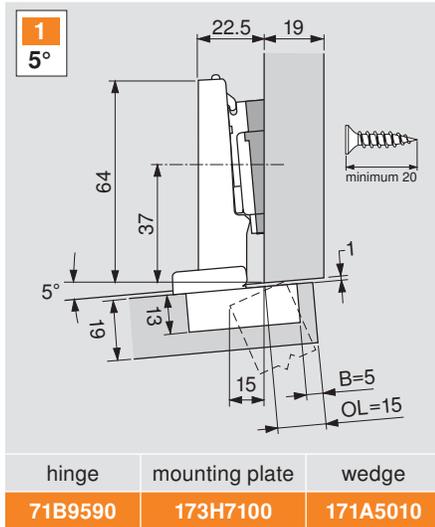


Positive angles					Negative angles			
	1	10	19	27			42	51
5°	71B9590	71B9590	71B9690	71B9790		-5°	71B9590	71B9690
	173H7100	173H7100	173H7100	173H7100			173H7100	173H7100
	171A5010	171A5010	171A5070	171A5010			171A5500	171A5500
10°	2	11	20	28		-10°	43	52
	79B9494	79B9494	79B9494	79B9494			79B3493	79B3493
	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		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			79B3490	
	173H7100	175H9160		175H9190			173H7100	
	171A5500	171A5500		171A5500		171A5040		
45°	9	18	26	35	41	-45°	50	56
	79B9498	79B3598	79B9698	79B3598	79B9698		79B3490	79B3490
	175H9160	173H7100	173H7100	175H9190.22	173H7100		173H7130	175H7190
							181.6130	

# Maximum overlay specifications

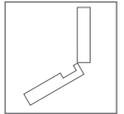


## Positive angle applications

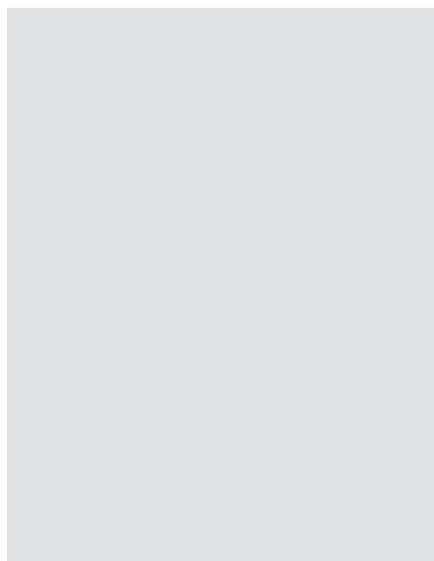
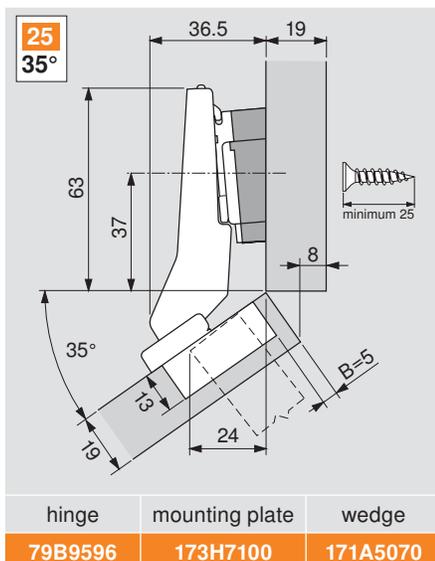
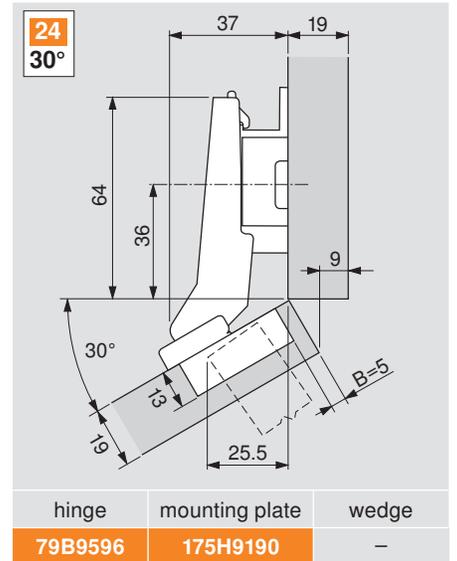
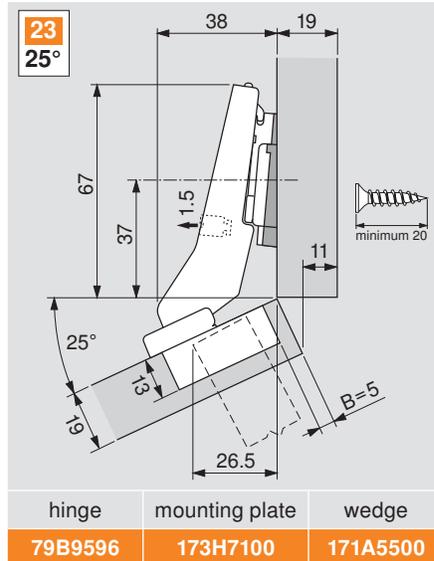
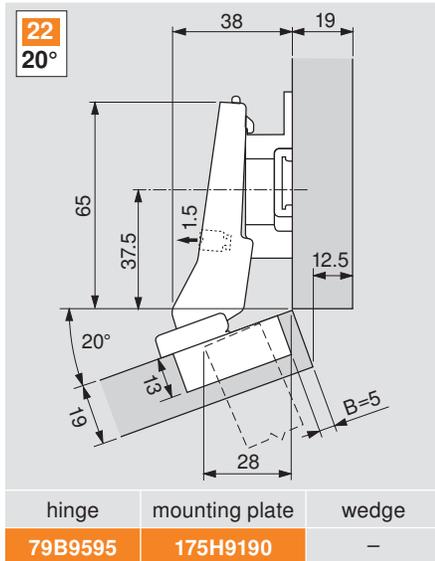
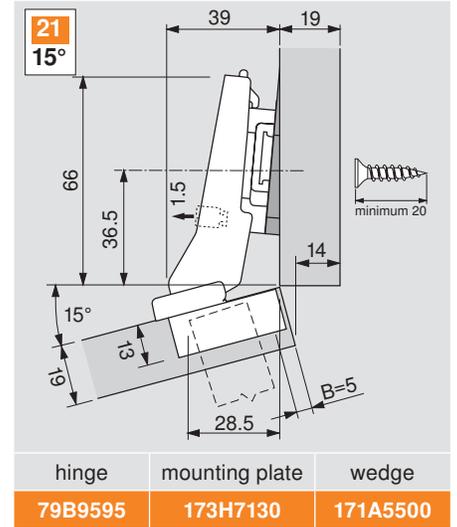
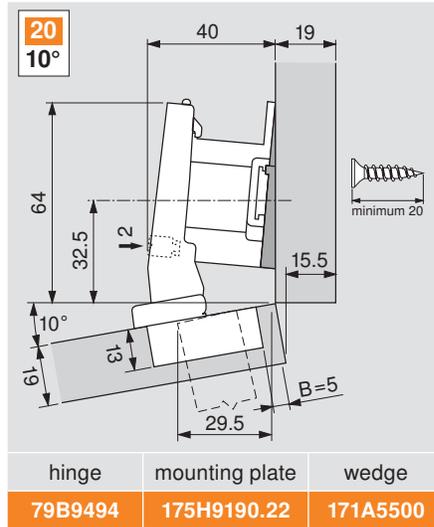
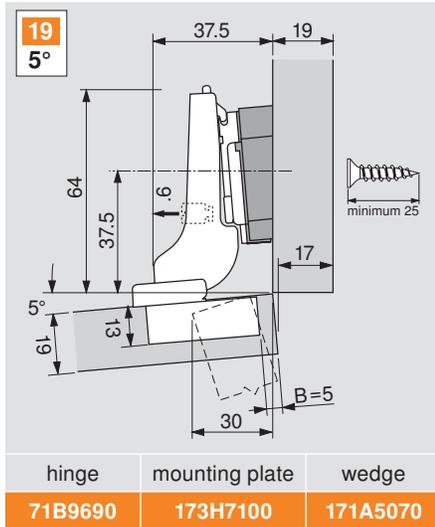




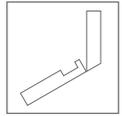
# Corner merge specifications



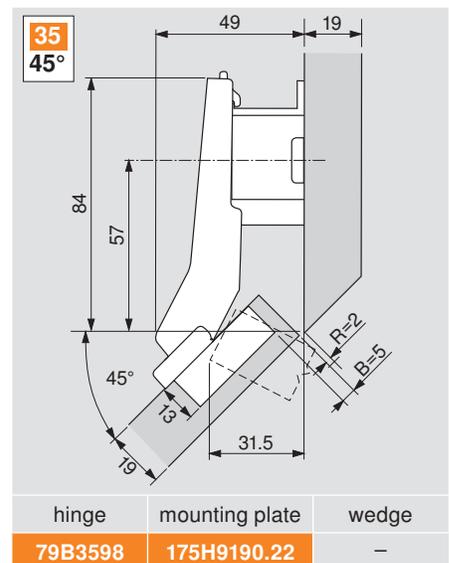
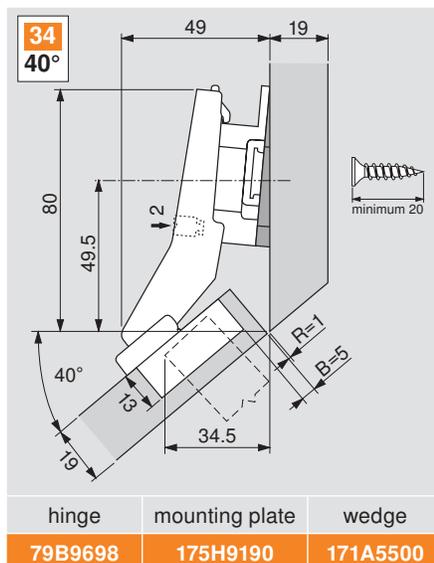
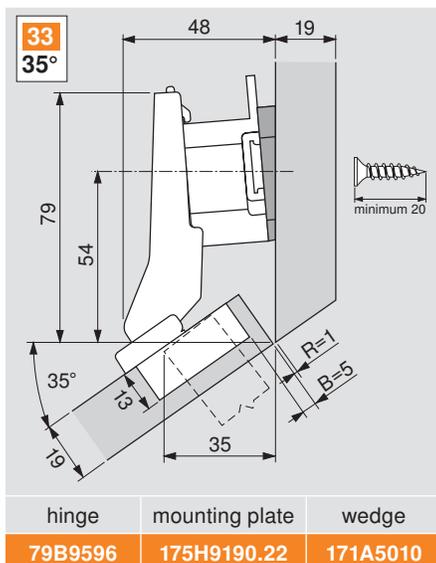
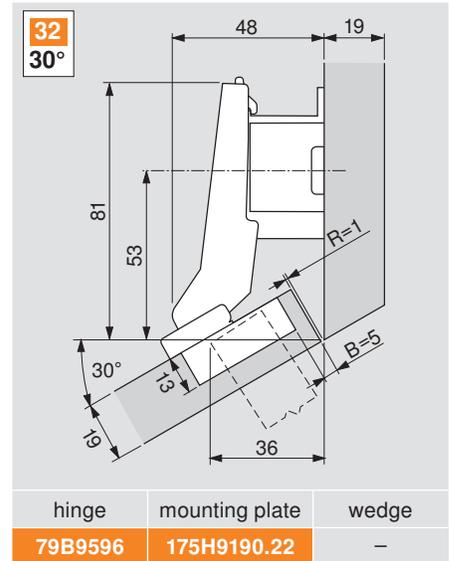
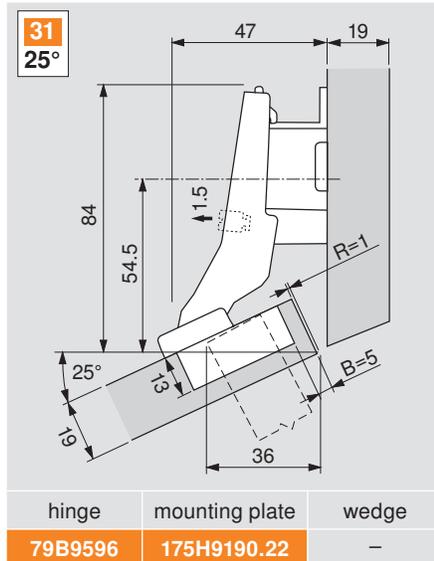
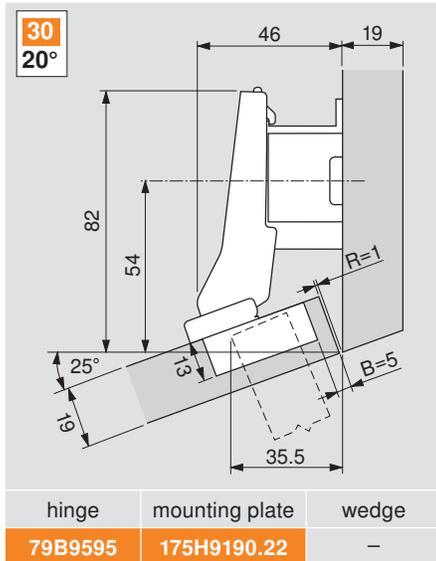
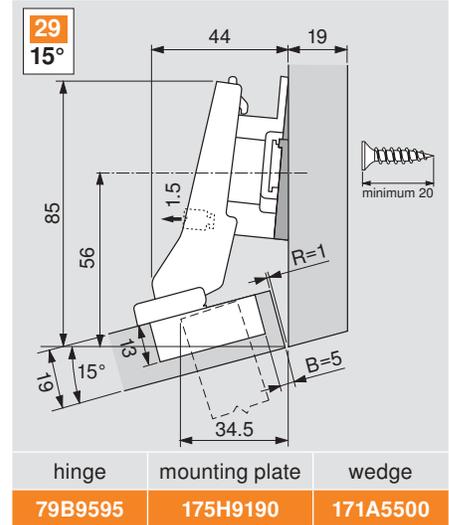
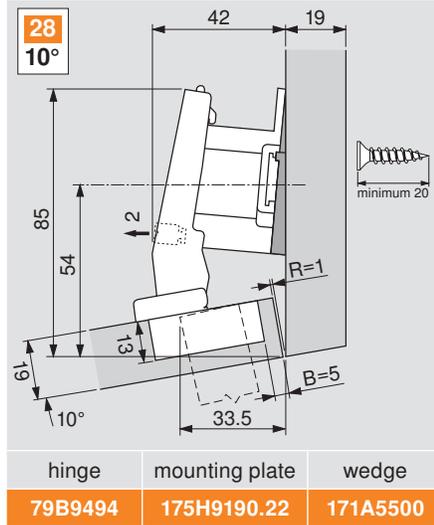
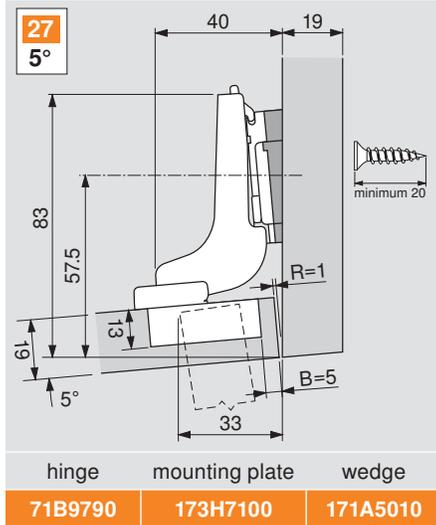
## Positive angle applications



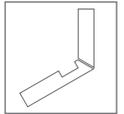
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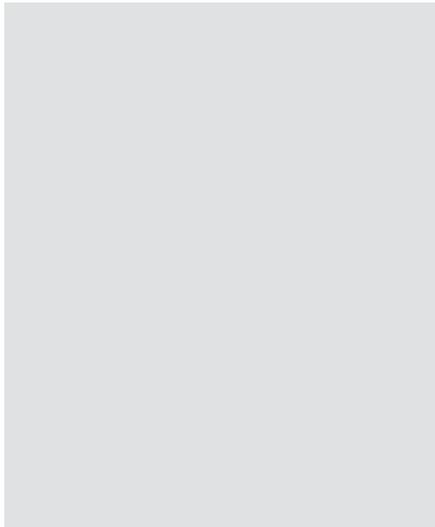
## Positive angle applications



# Mitered corner specifications



## Positive angle applications

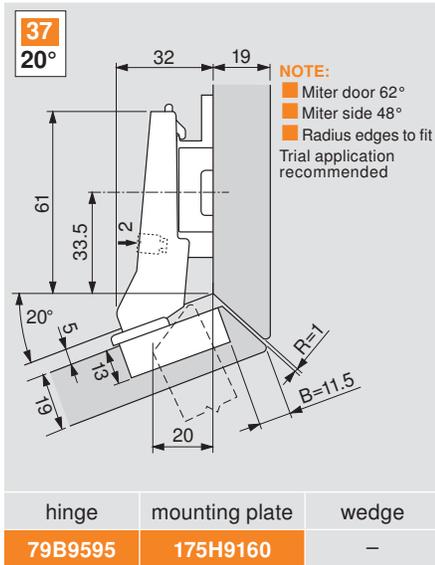


**36**  
15°

**NOTE:**  
 Miter door 65°  
 Miter side 40°  
 Radius edges to fit  
 Trial application recommended

hinge    mounting plate    wedge

79B9595    173H7100    171A5500

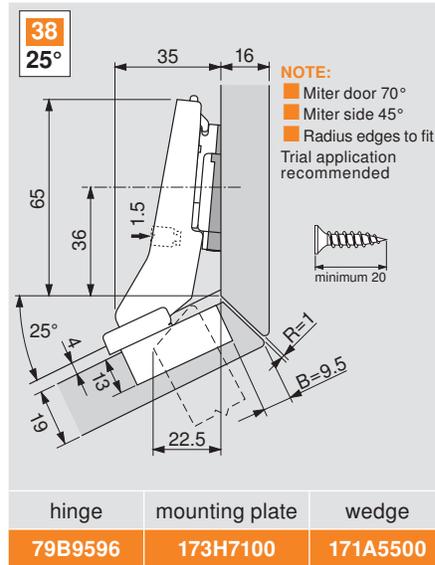


**37**  
20°

**NOTE:**  
 Miter door 62°  
 Miter side 48°  
 Radius edges to fit  
 Trial application recommended

hinge    mounting plate    wedge

79B9595    175H9160    -

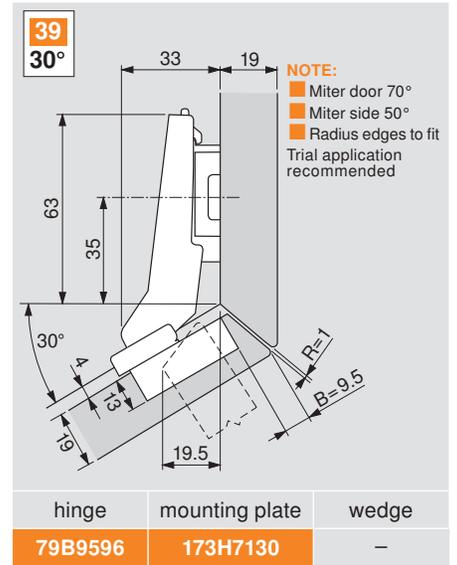


**38**  
25°

**NOTE:**  
 Miter door 70°  
 Miter side 45°  
 Radius edges to fit  
 Trial application recommended

hinge    mounting plate    wedge

79B9596    173H7100    171A5500

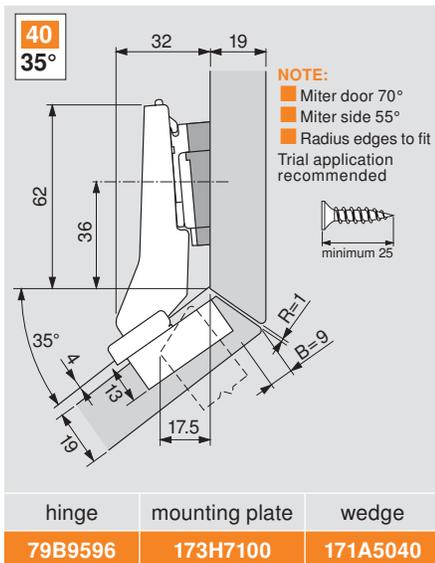


**39**  
30°

**NOTE:**  
 Miter door 70°  
 Miter side 50°  
 Radius edges to fit  
 Trial application recommended

hinge    mounting plate    wedge

79B9596    173H7130    -

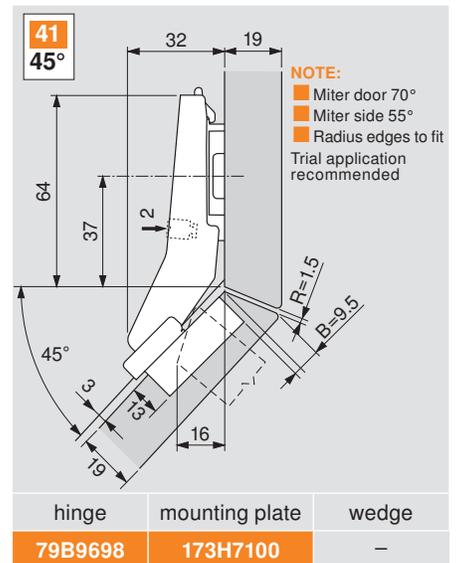


**40**  
35°

**NOTE:**  
 Miter door 70°  
 Miter side 55°  
 Radius edges to fit  
 Trial application recommended

hinge    mounting plate    wedge

79B9596    173H7100    171A5040



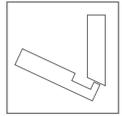
**41**  
45°

**NOTE:**  
 Miter door 70°  
 Miter side 55°  
 Radius edges to fit  
 Trial application recommended

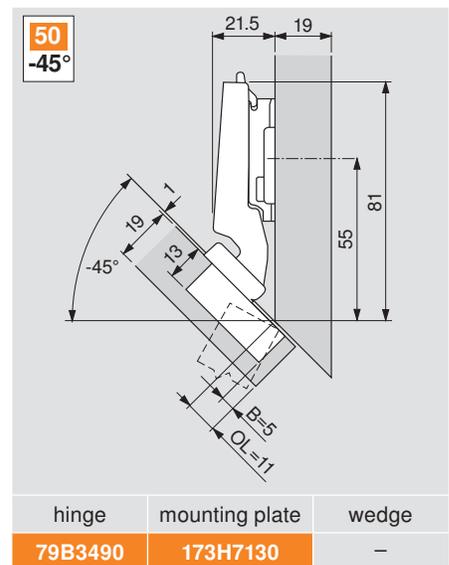
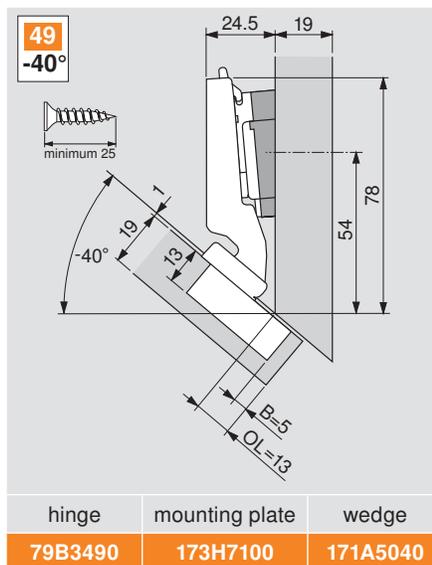
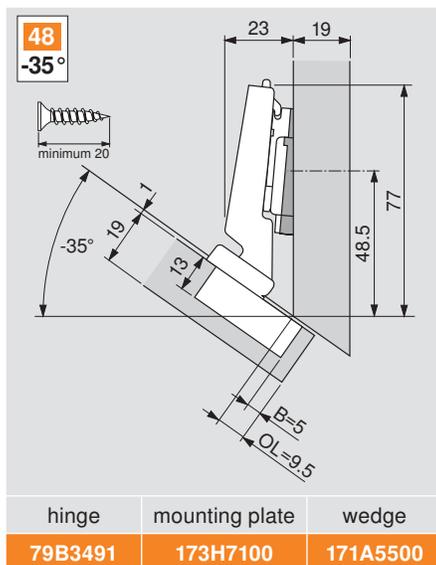
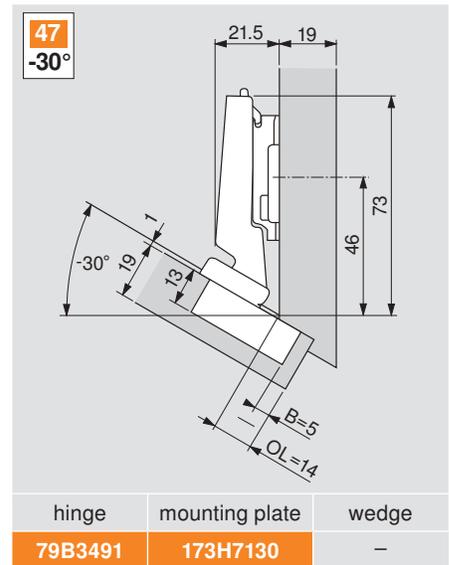
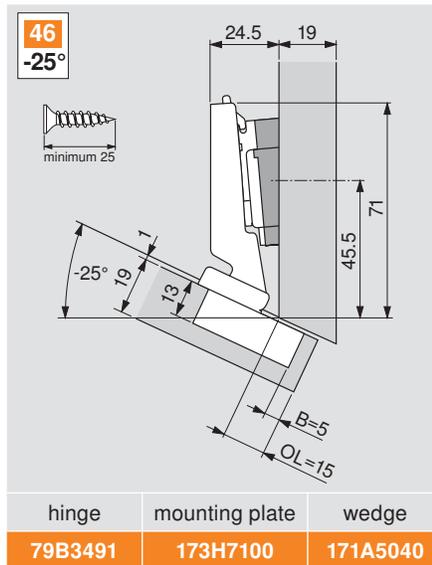
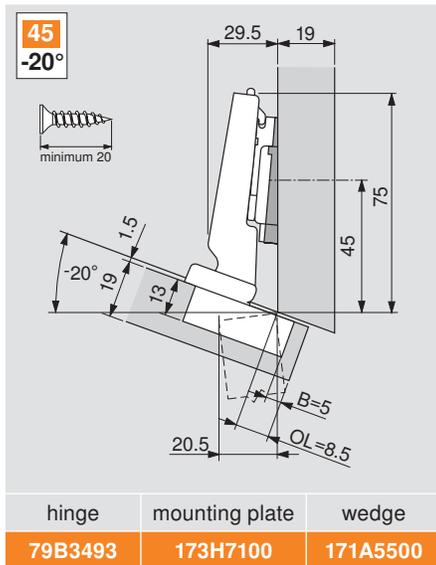
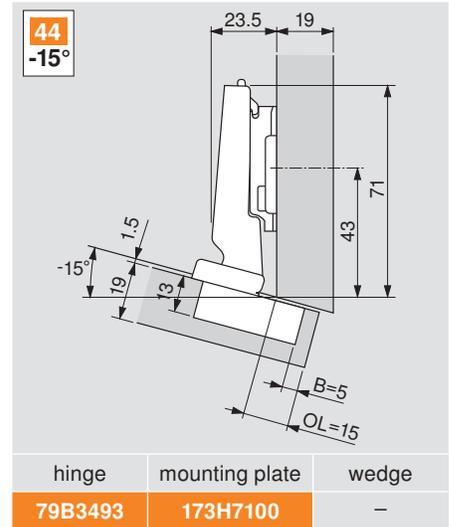
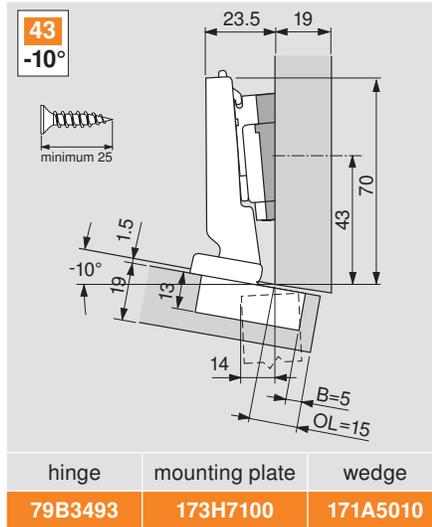
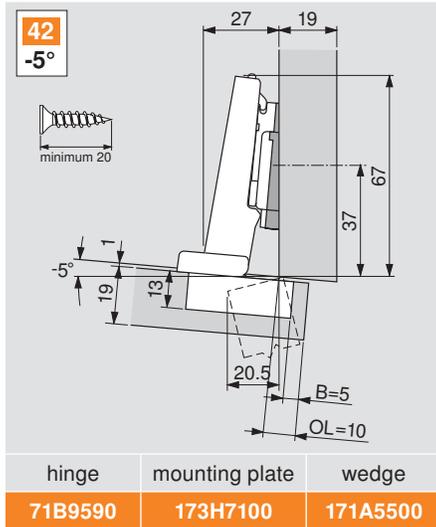
hinge    mounting plate    wedge

79B9698    173H7100    -

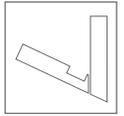
# Maximum overlay specifications



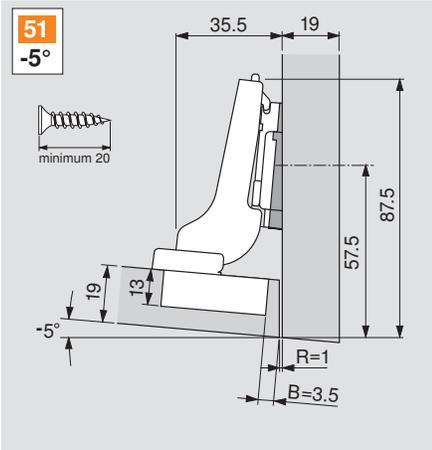
## Negative angle applications



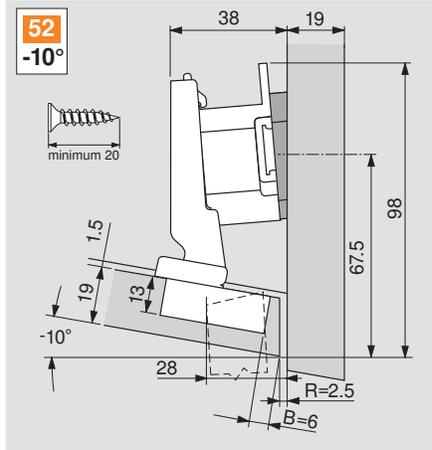
# Inset door specifications



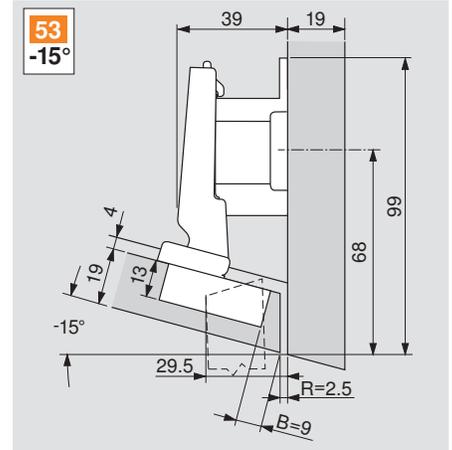
## Negative angle applications



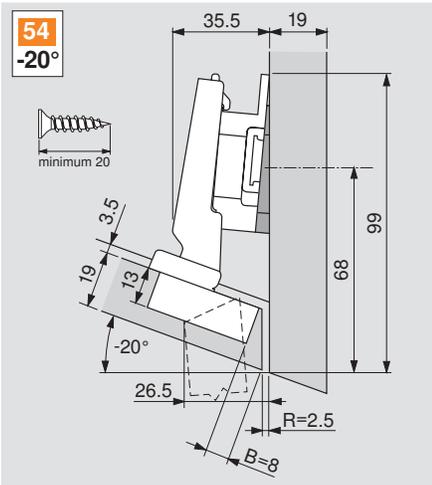
hinge	mounting plate	wedge
71B9690	173H7100	171A5500



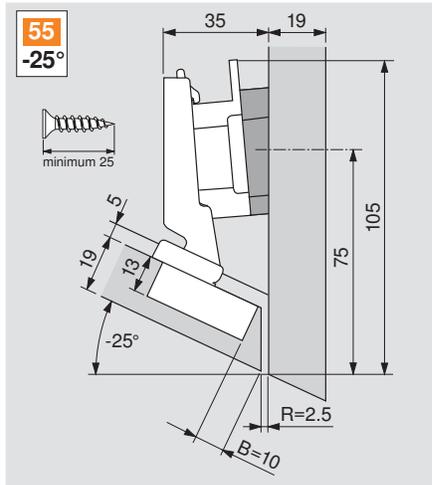
hinge	mounting plate	wedge
79B3493	175H7190	171A5010



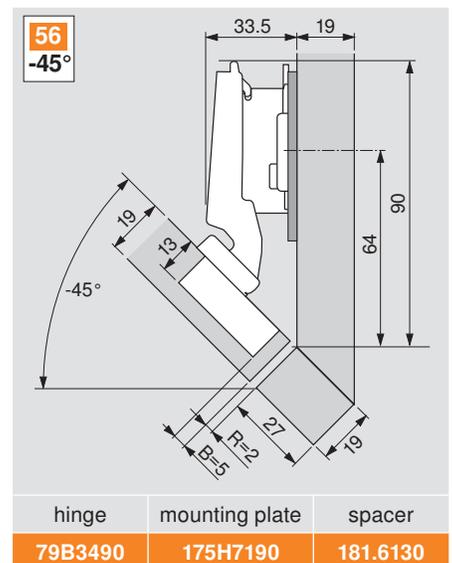
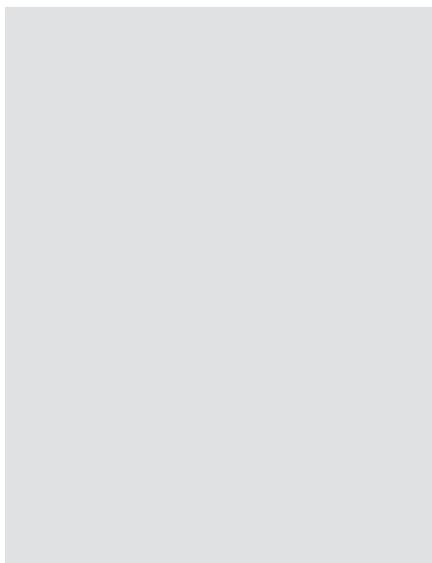
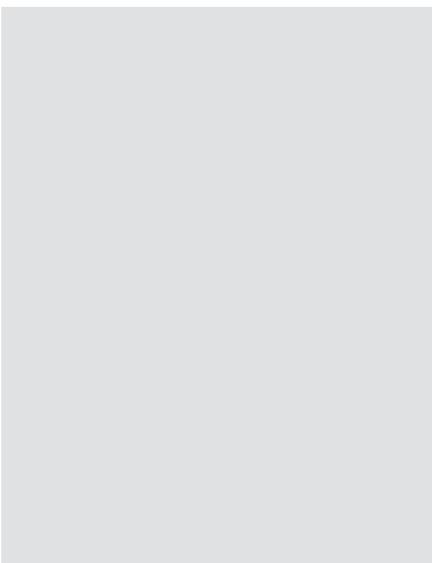
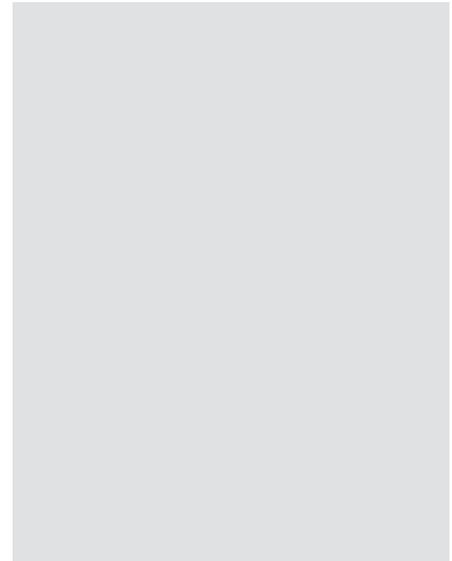
hinge	mounting plate	wedge
79B3493	175H9190.22	-



hinge	mounting plate	wedge
79B3493	175H9160	171A5500



hinge	mounting plate	wedge
79B3491	175H7190	171A5070



hinge	mounting plate	spacer
79B3490	175H7190	181.6130

# CLIP top 155° zero protrusion hinges



155°



## 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

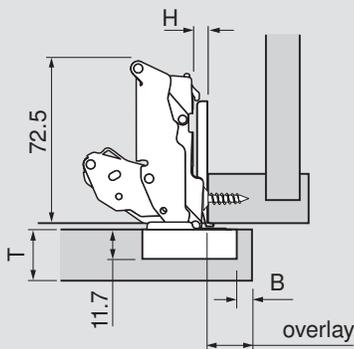


Minimum reveal table						
3	0	0	0	0	0	0
4	0	0	0	0	0	0
5	0	0	0	0	0	0
6	0	0	0	0	0	0
7	0	0	0	0	0	0
8	0	0	0	0	0	0
B = boring distance	16	18	19	20	22	24
	T = door thickness					

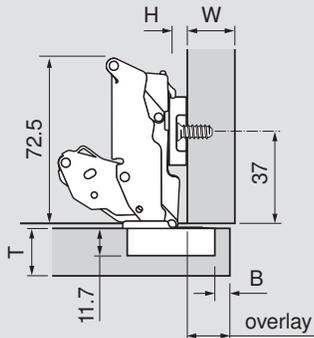
For thickness greater than 24, please see page 27

## Overlay

### Frame

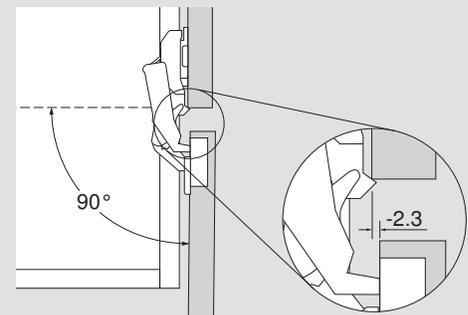


### Panel



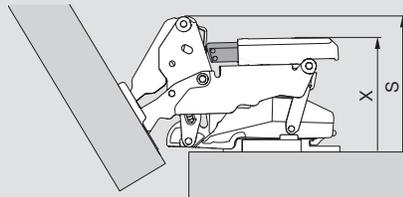
## Door protrusion

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.



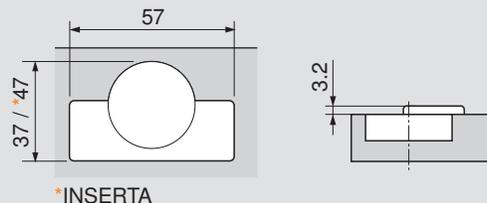
**NOTE:** Use of 0 mm or 3 mm is recommended for zero protrusion

## 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



\*INSERTA

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

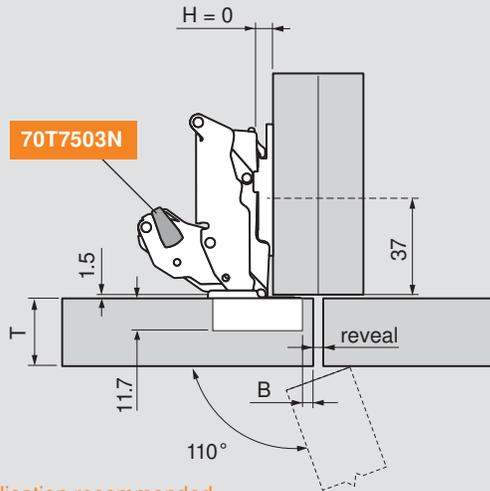
## Abbreviations

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

# CLIP top 155° straight-arm special applications



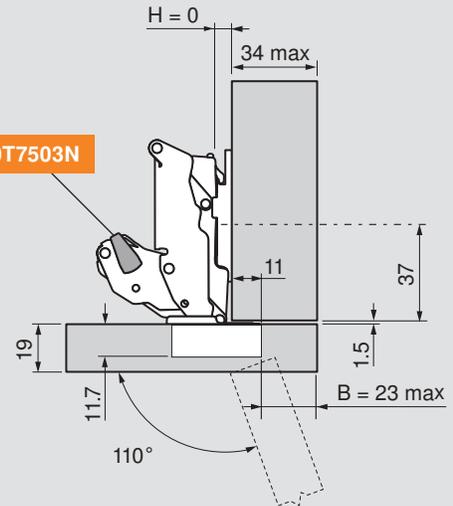
## Maximum door thickness



Trial application recommended

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

## Maximum door overlay



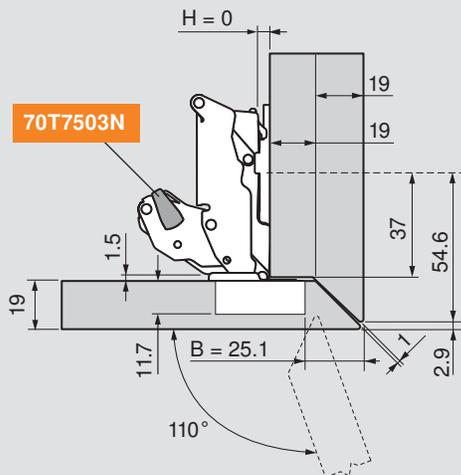
Trial application recommended

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

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

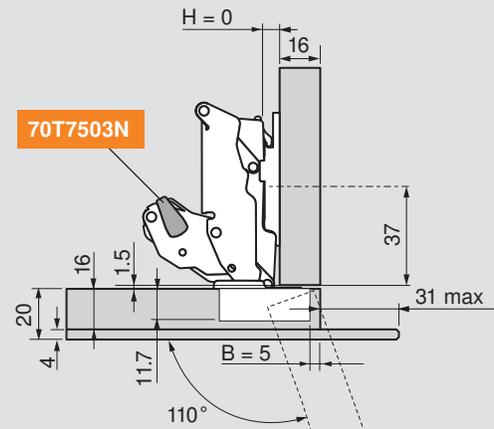
\*Minimum reveal is 1 mm on a 25 mm thick door when bored at 8 mm

## 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

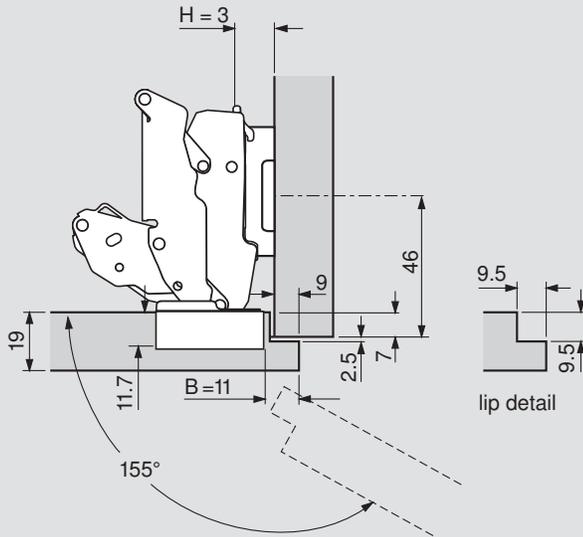
Angle restriction clips	
	<ul style="list-style-type: none"> <li>For use with 155° hinges only</li> <li>Gray nylon</li> </ul>
	Part no.
110° restriction clip	70T7503N
92° restriction clip	70T7503N09

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

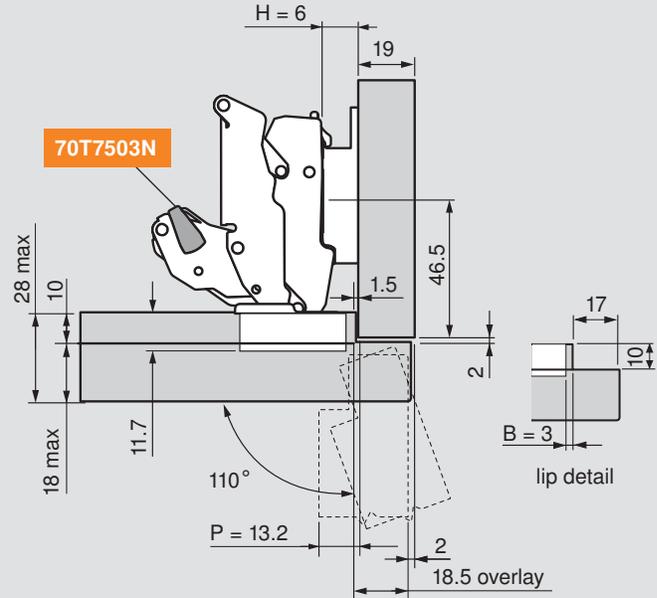


## Lip door



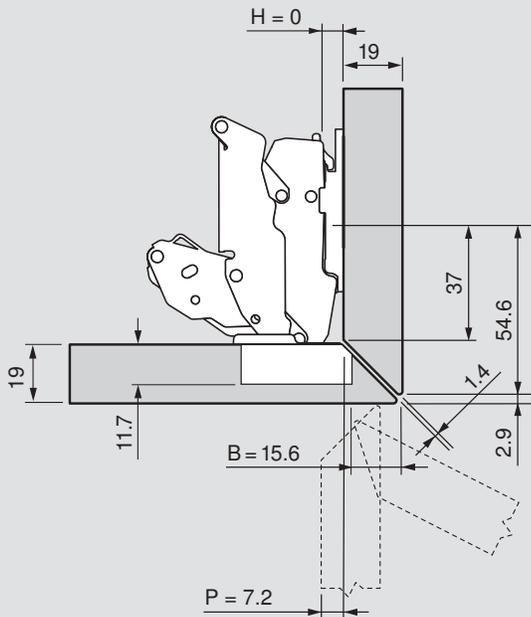
Trial application recommended

## Thick lip door



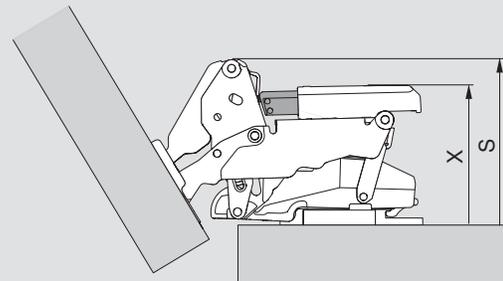
Trial application recommended

## 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

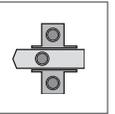
Part no.

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

### Abbreviations

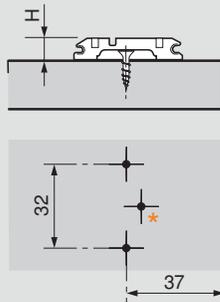
H	= Plate height
P	= Door protrusion
S	= Side arm protrusion
W	= Side panel width

# CLIP mounting plates



## Standard one-piece wing mounting plates

### Wood screw

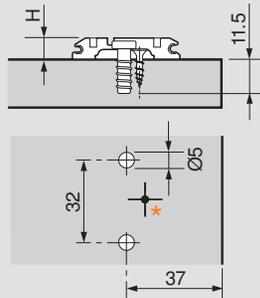


- Steel, nickel-plated
- Attached with #6 x 5/8" wood screws
- Height adjustment  $\pm 3$  mm

Part no.

0 plate height (H)	<b>173L6100</b>
3 plate height (H)	<b>173L6130</b>

### System screw

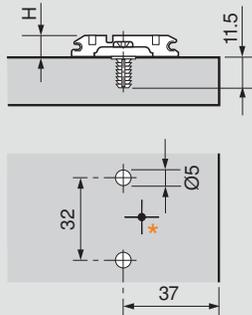


- Steel, nickel-plated
- Attached with pre-mounted  $\text{Ø}5$  mm system screws (668.1450.EH)
- Height adjustment  $\pm 3$  mm

Part no.

0 plate height (H)	<b>173L8100</b>
3 plate height (H)	<b>173L8130</b>

### EXPANDO

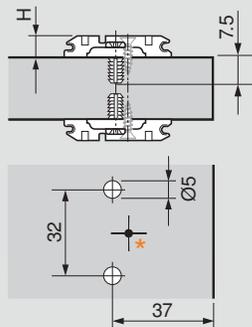


- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels (618.1500)
- Height adjustment  $\pm 2$  mm

Part no.

0 plate height (H)	<b>174E6100.01</b>
--------------------	--------------------

### EXPANDO (twin application)

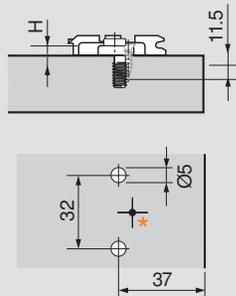


- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels for twin application (618.1500)
- Height adjustment  $\pm 2$  mm

Part no.

0 plate height (H)	<b>174E610Z</b>
--------------------	-----------------

### System screw



- Zinc die-cast, nickel-plated
- Attached with pre-mounted  $\text{Ø}5$  mm system screws (668.1450.EH)
- Height adjustment  $\pm 3$  mm

Part no.

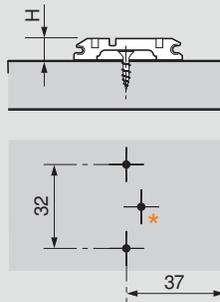
0 plate height (H)	<b>175L8100</b>
3 plate height (H)	<b>175L8130</b>
9 plate height (H)	<b>175L8190</b>

\*Add additional wood screw if used with wide angled hinges

# CLIP mounting plates

## Cam adjustable wing mounting plates

### Wood screw

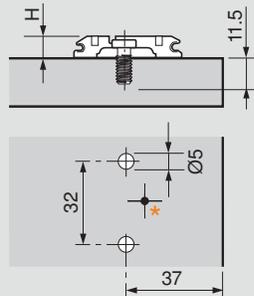


- Steel, nickel-plated
- Attached with #6 x 5/8" wood screws
- Cam height adjustment  $\pm 2$  mm

Part no.

0 plate height (H)	<b>173H7100</b>
3 plate height (H)	<b>173H7130</b>

### System screw

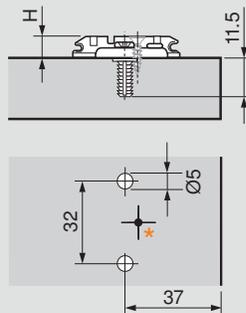


- Steel, nickel-plated
- Attached with #7 x 5/8" wood screws or Ø5 x 13 mm system screws
- Cam height adjustment  $\pm 2$  mm

Part no.

0 plate height (H)	<b>173H9100</b>
3 plate height (H)	<b>173H9130</b>

### EXPANDO

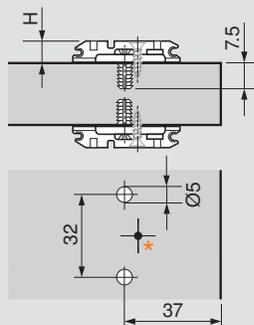


- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels (618.1500)
- Cam height adjustment  $\pm 2$  mm

Part no.

0 plate height (H)	<b>174H7100E</b>
3 plate height (H)	<b>174H7130E</b>

### EXPANDO (twin application)

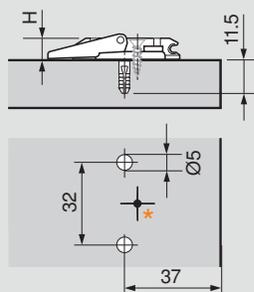


- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels for twin application (618.1500)
- Cam height adjustment  $\pm 2$  mm

Part no.

0 plate height (H)	<b>174H710ZE</b>
--------------------	------------------

### INSERTA

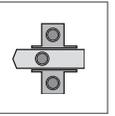


- Steel (closing lever – zinc die-cast, nickel-plated)
- Tool-free assembly with INSERTA self-anchoring feature
- Cam height adjustment  $\pm 2$  mm

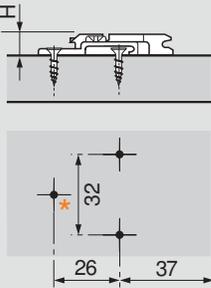
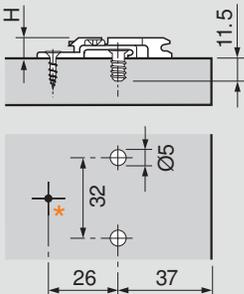
Part no.

0 plate height (H)	<b>174H7100I</b>
3 plate height (H)	<b>174H7130I</b>

\*Add additional wood screw if used with wide angled hinges

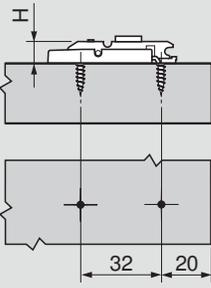
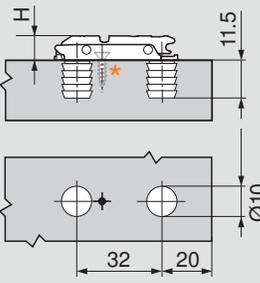
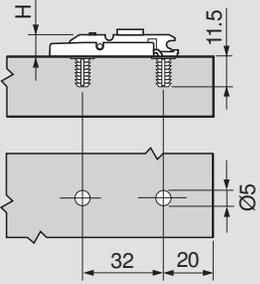


### Standard two-piece wing mounting plates

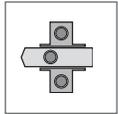
Wood screw		<ul style="list-style-type: none"> <li>Zinc die-cast, nickel-plated</li> <li>Attached with #6 x 5/8" wood screws</li> <li>Height adjustment <math>\pm 2</math> mm</li> </ul>										
		<p>Part no.</p> <table border="1"> <tr><td>0 plate height (H)</td><td>175H7100</td></tr> <tr><td>3 plate height (H)</td><td>175H7130</td></tr> <tr><td>9 plate height (H)</td><td>175H7190</td></tr> </table>	0 plate height (H)	175H7100	3 plate height (H)	175H7130	9 plate height (H)	175H7190				
0 plate height (H)	175H7100											
3 plate height (H)	175H7130											
9 plate height (H)	175H7190											
System screw		<ul style="list-style-type: none"> <li>Zinc die-cast, nickel-plated</li> <li>Attached with #7 x 5/8" wood screws or <math>\text{Ø}5 \times 13</math> mm system screws</li> <li>Height adjustment <math>\pm 2</math> mm</li> </ul>										
		<p>Part no.</p> <table border="1"> <tr><td>0 plate height (H)</td><td>175H9100</td></tr> <tr><td>3 plate height (H)</td><td>175H9130</td></tr> <tr><td>6 plate height (H)</td><td>175H9160</td></tr> <tr><td>9 plate height (H)</td><td>175H9190</td></tr> <tr><td>18 plate height (H)</td><td>175H9190.22</td></tr> </table>	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
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

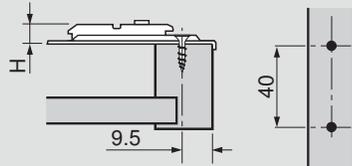
Wood screw		<ul style="list-style-type: none"> <li>Steel, nickel-plated</li> <li>Attached with #6 x 5/8" wood screws</li> <li>Cam height adjustment <math>\pm 2</math> mm</li> <li>Use of mounting plate template recommended</li> </ul>				
		<p>Part no.</p> <table border="1"> <tr><td>0 plate height (H)</td><td>175H3100</td></tr> </table>	0 plate height (H)	175H3100		
0 plate height (H)	175H3100					
Press-in		<ul style="list-style-type: none"> <li>Steel, nickel-plated</li> <li>Pre-attached with 10 mm dowels</li> <li>Cam height adjustment <math>\pm 2</math> mm</li> <li><b>Use of insertion ram MZM.0053 required</b></li> </ul>				
		<p>Part no.</p> <table border="1"> <tr><td>0 plate height (H)</td><td>177H3100</td></tr> </table>	0 plate height (H)	177H3100		
0 plate height (H)	177H3100					
EXPANDO		<ul style="list-style-type: none"> <li>Steel, nickel-plated</li> <li>Attached with pre-mounted screws with EXPANDO dowels</li> <li>Cam height adjustment <math>\pm 2</math> mm</li> <li>Use of mounting plate template recommended</li> </ul>				
		<p>Part no.</p> <table border="1"> <tr><td>0 plate height (H)</td><td>177H3100E</td></tr> <tr><td>3 plate height (H)</td><td>177H3130E</td></tr> </table>	0 plate height (H)	177H3100E	3 plate height (H)	177H3130E
0 plate height (H)	177H3100E					
3 plate height (H)	177H3130E					

# Face frame adapter plates



## Face frame adapter plates

### Cam adjustable center mount

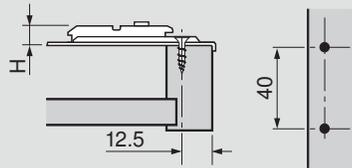


- Steel, zinc die-cast and nickel-plated
- Attached with #7 x 3/4" wood screws
- Center mount 9.5 (3/8")
- Cam height adjustment ±2 mm
- 175H6000 not for use with INSERTA hinges

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

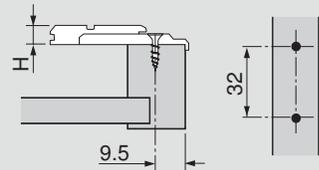


- Steel, zinc die-cast and nickel-plated
- Attached with #7 x 3/4" wood screws
- For use with INSERTA hinge cups
- Off-center mount 12.5 (1/2")
- Cam height adjustment ±2 mm

Part no.

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

### Center mount

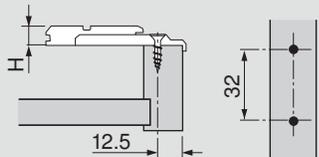


- Zinc die-cast, nickel-plated
- Attached with #7 x 3/4" wood screws
- Center mount 9.5 (3/8")
- Height adjustment ±2 mm

Part no.

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

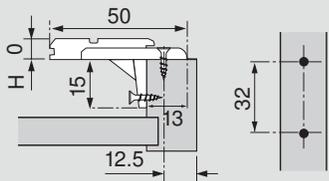


- Zinc die-cast, nickel-plated
- Attached with #7 x 3/4" wood screws
- Off-center mount 12.5 (1/2")
- Height adjustment ±2 mm

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

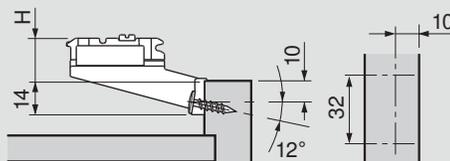
Part no.

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

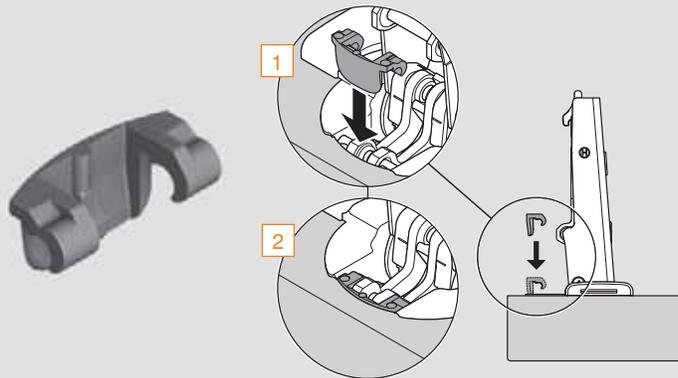
Part no.

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

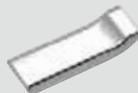
70.1503.BP  
(Blum logo)



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](http://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

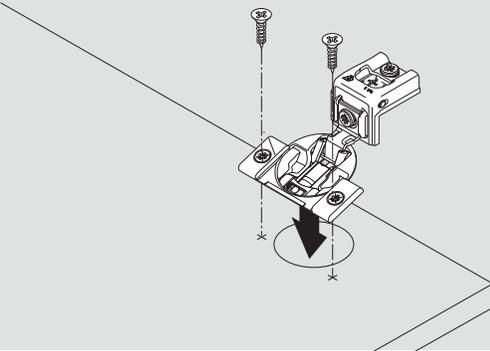
COMPACT BLUMOTION hinges are interchangeable with current COMPACT hinges so no need to change existing setups or workflows.

# General specifications

BLUMOTION  
inside

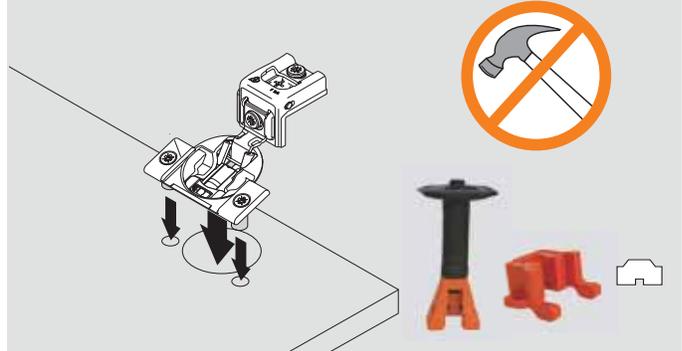
## Screw-on

Use #6 wood screws



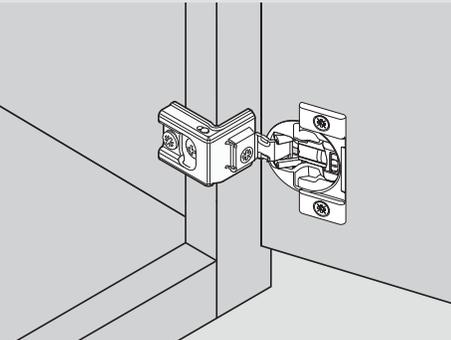
## Press-in

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

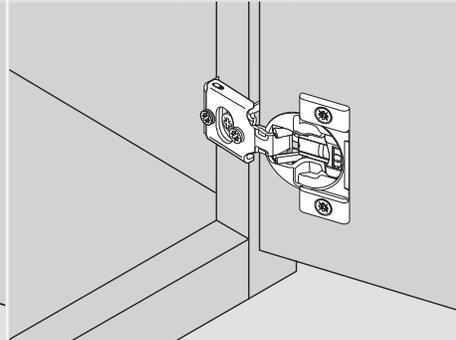


## Mounting plate attachment

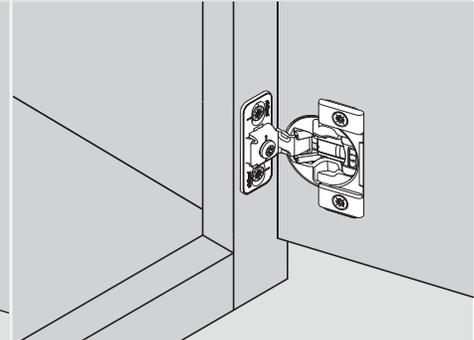
39C/38C series – wraparound



38N series – wraparound/edge mount



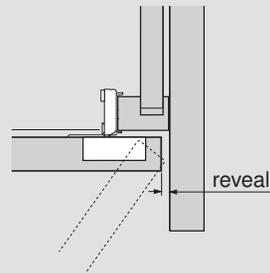
38B series – face mount



## Minimum reveal

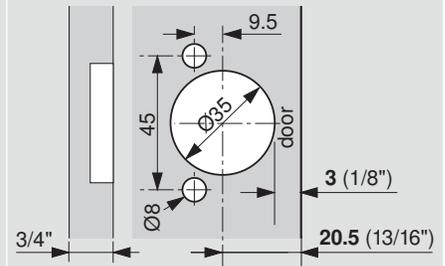
A minimum reveal per door is required to keep the door from binding and varies depending on door thickness.

See minimum reveal table for each hinge.



## Hinge cup centerpoint

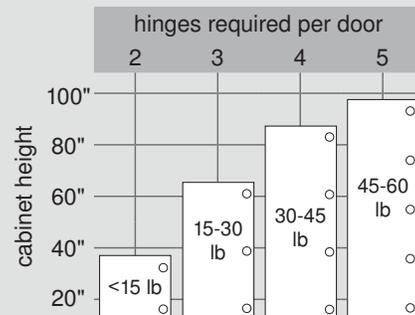
Hinge cup centerpoint and MINIPRESS/MINIDRILL setback position is 20.5 (13/16") for COMPACT BLUMOTION hinges



**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.



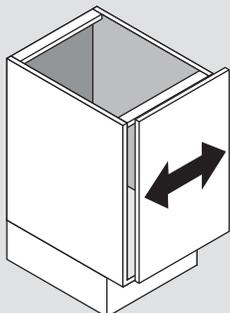
**NOTE:** The distance between the top and bottom hinges must be greater than the width of the door

# Adjustment

## Three-dimensional adjustment

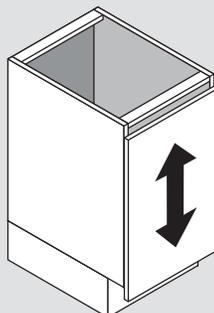
### Side adjustment

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



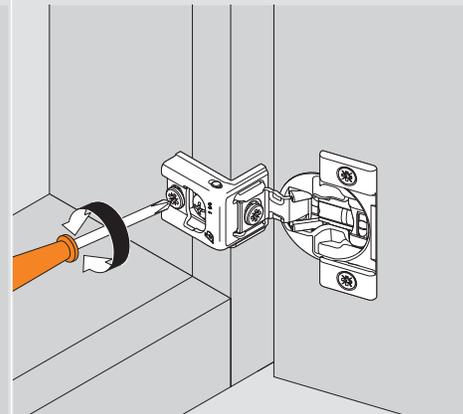
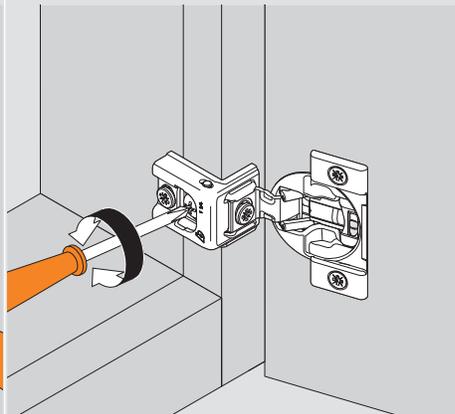
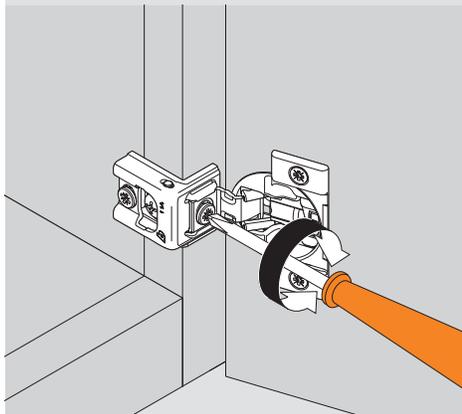
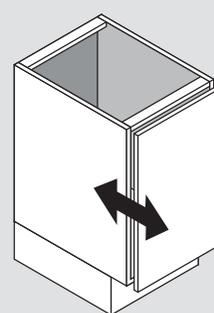
### Height adjustment

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



### Depth adjustment

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

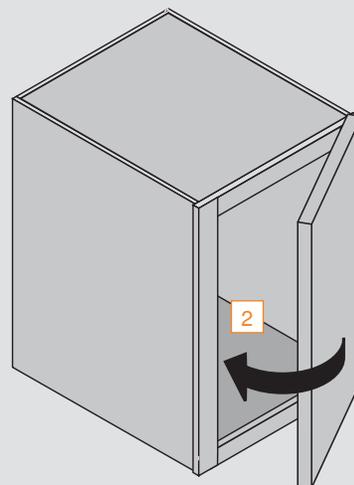
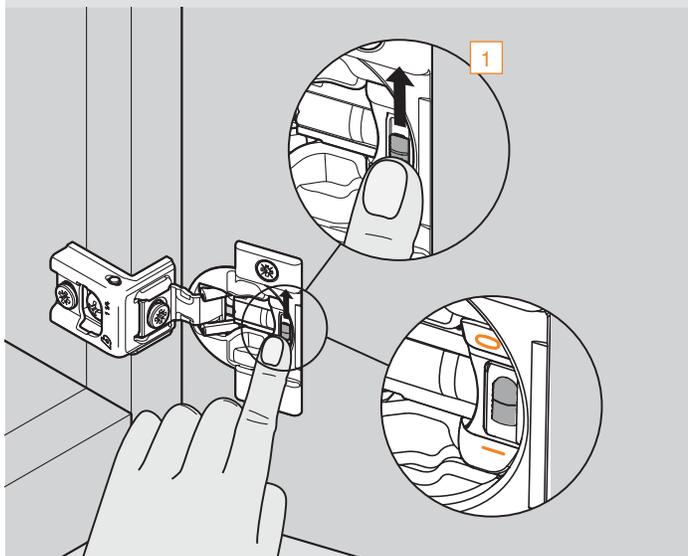


## BLUMOTION deactivation

### 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 "1". 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 "1".



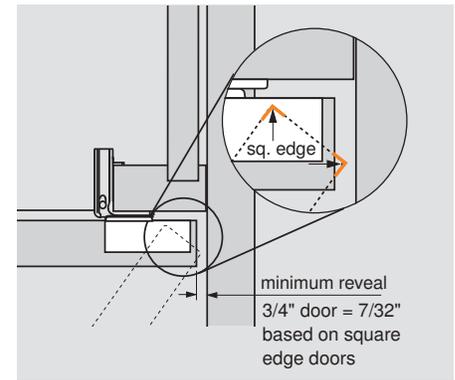
# COMPACT BLUMOTION 39C hinges for full overlay



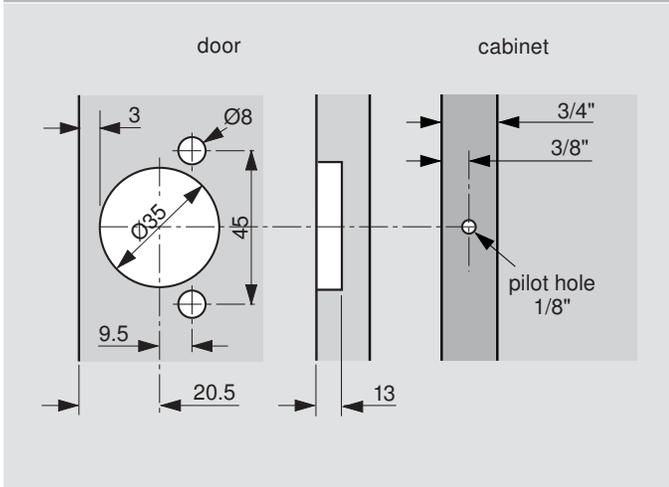
## Description

- 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

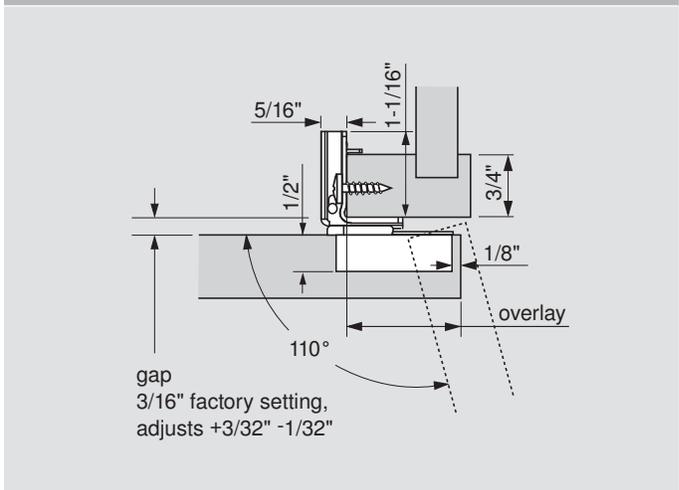


## Boring pattern

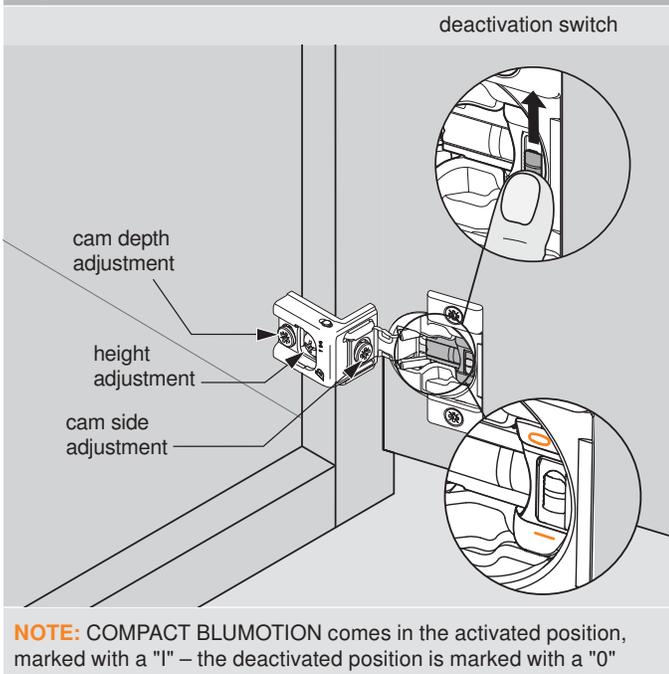


**NOTE:** Maximum door thickness 3/4"

## Dimensions



## Adjustment



## 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
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## Accessories

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

\*See page 42 for additional cover cap options

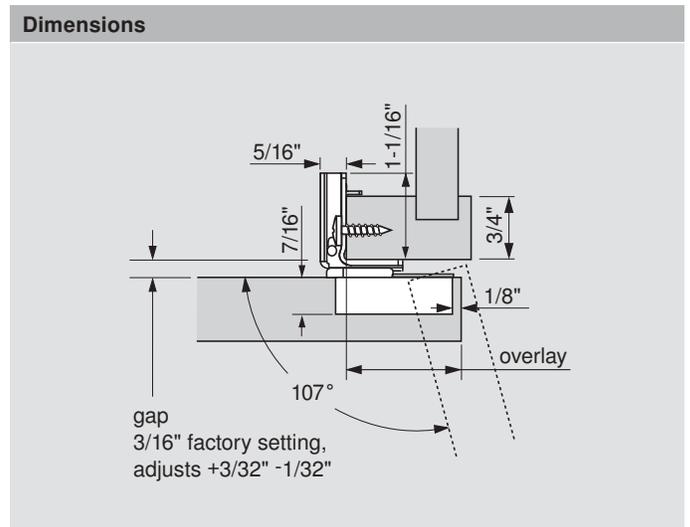
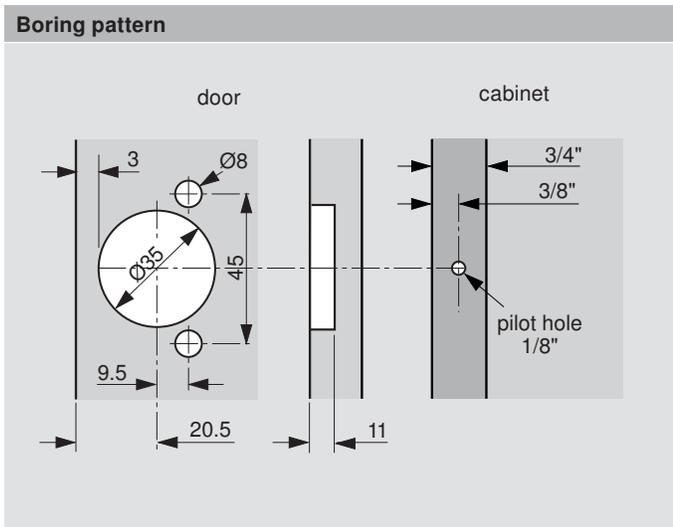
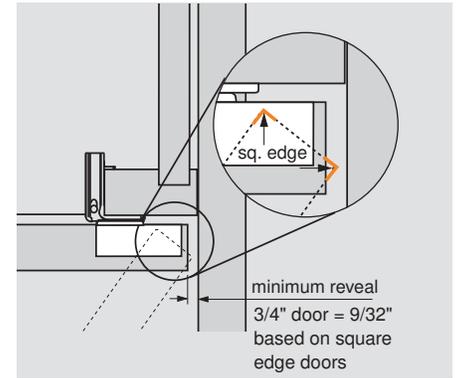
# COMPACT BLUMOTION 38C hinges for full overlay



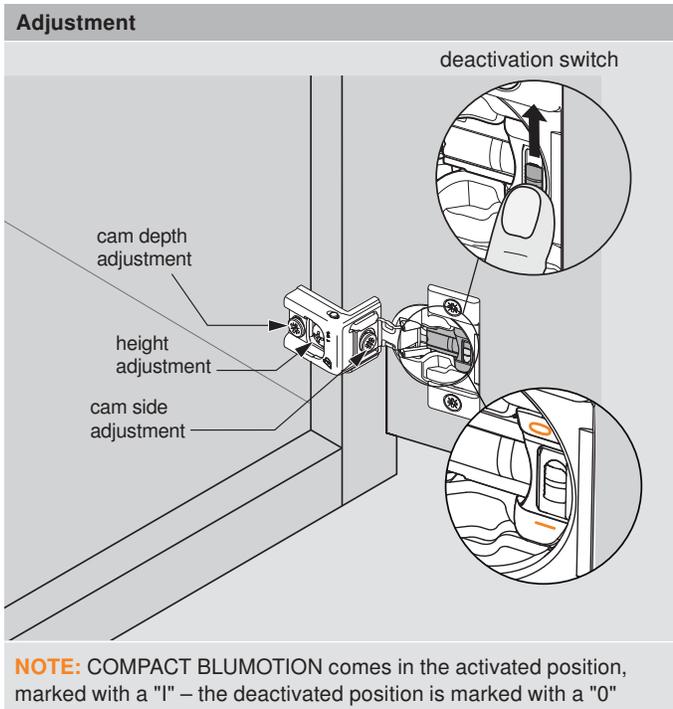
## Description

- 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



**NOTE:** Maximum door thickness 3/4"



### Wraparound hinges

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

### Installation screw

Truss head screw	834TH
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### Accessories

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

\*See page 42 for additional cover cap options

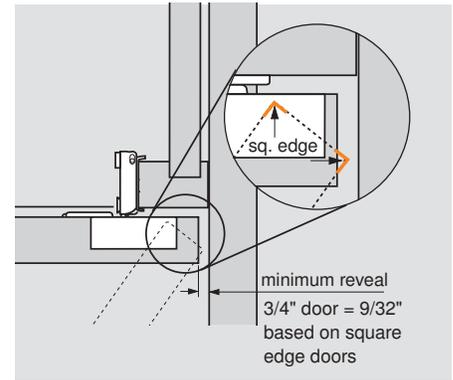
# COMPACT BLUMOTION 38N hinges for partial overlay



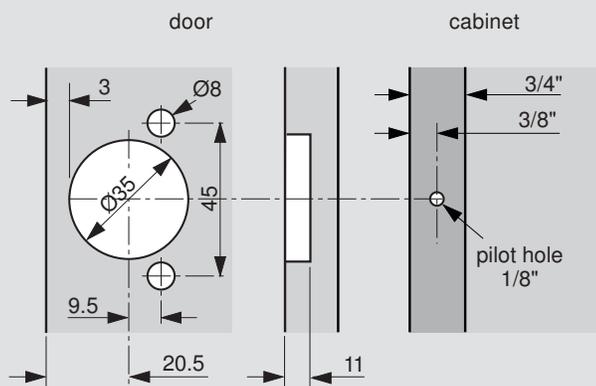
## Description

- 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

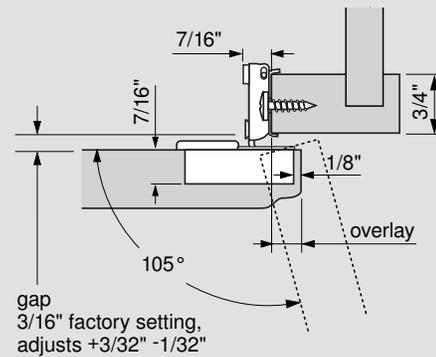


## Boring pattern

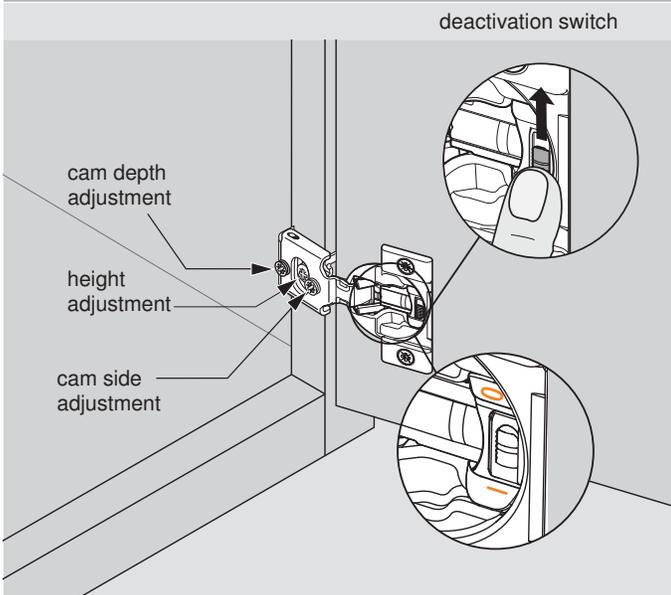


**NOTE:** Maximum door thickness 3/4"

## Dimensions

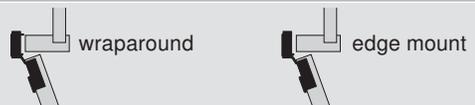


## Adjustment



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

## Wraparound and edge mount hinges



overlay	door protrusion	screw-on	47 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
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## Accessories

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

\*See page 42 for additional cover cap options

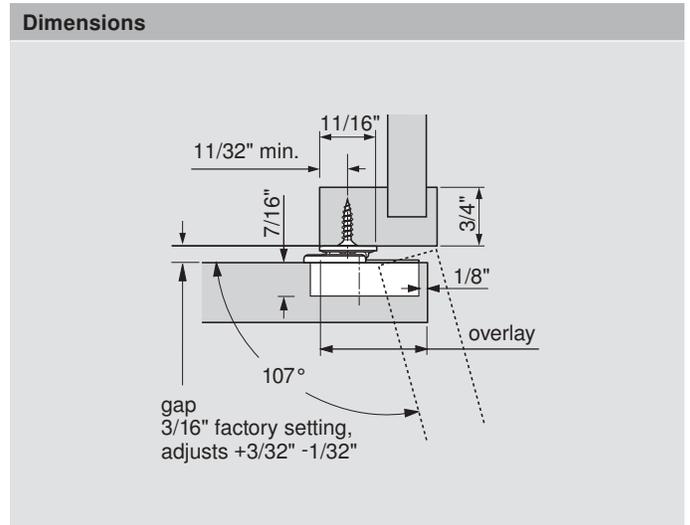
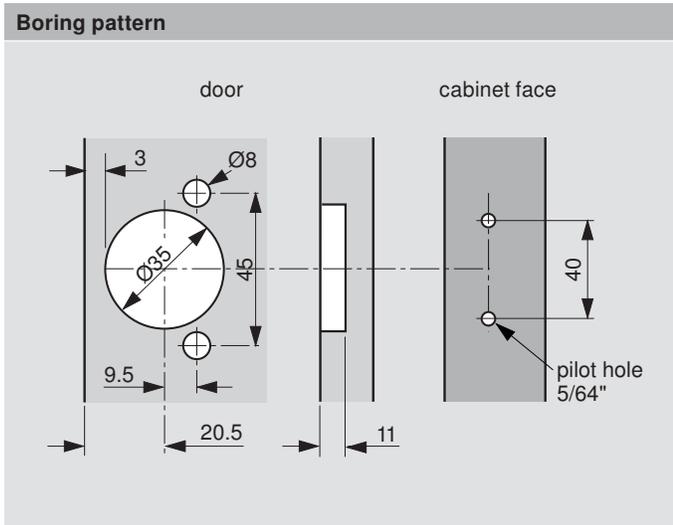
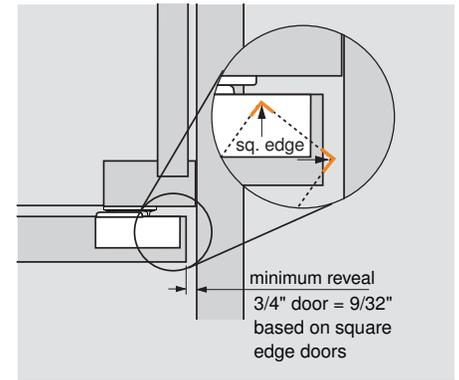
# COMPACT BLUMOTION 38B hinges for face mount



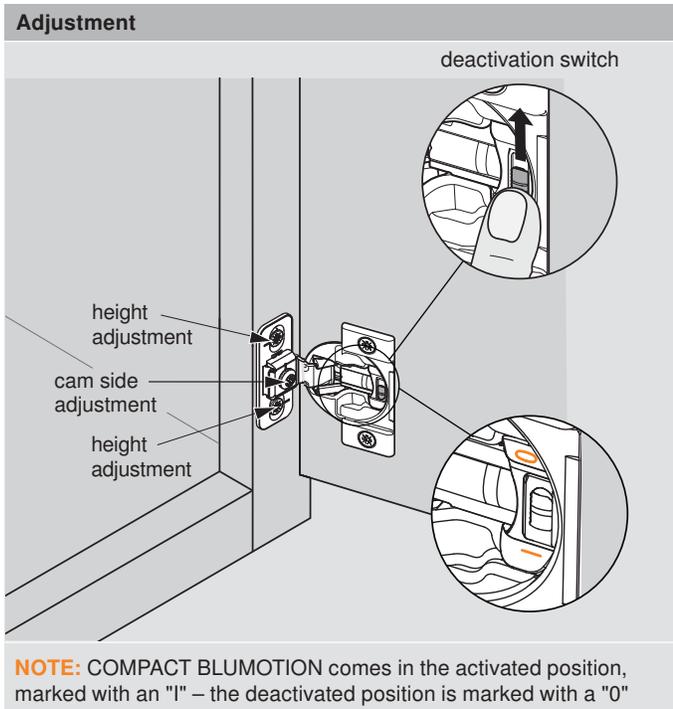
## Description

- 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



**NOTE:** Maximum door thickness 3/4"



### Face mount hinges

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

### Installation screw

Flat head wood screw	<b>606N or 606P</b>
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### Accessories

Angle restriction clip	<b>38C315B3.1</b>
Hinge cup spacer	<b>38C355B9</b>

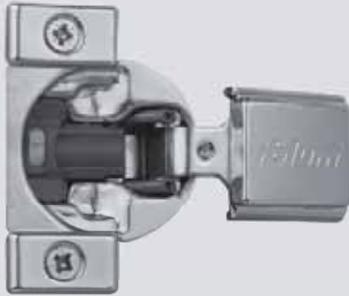
## Hinge arm cover caps



39C/38C cover cap



38N cover cap



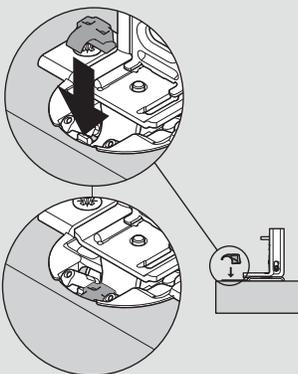
- Steel, nickel-plated cap
- Available blank or embossed (Blum logo)
- Also available with printed custom logo (minimum order quantity applies)

Part no.

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

## 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

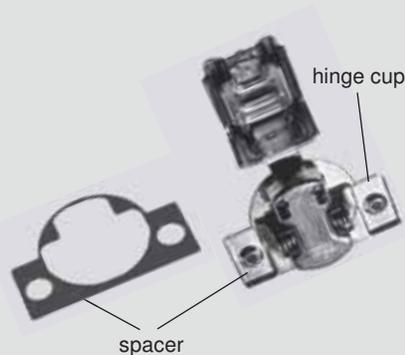


Part no.

Angle restriction clip **38C315B3.1**

## Hinge cup spacer

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

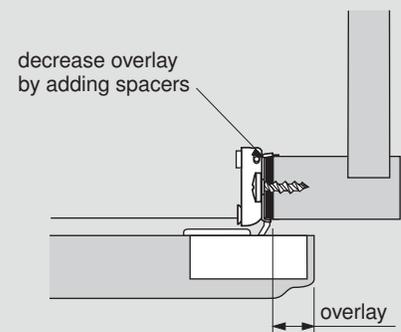


Part no.

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

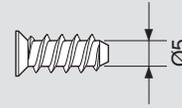


Part no.

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

## Deep thread system screw

- Pilot bore Ø5 (3/16") hole

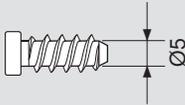


Part no.

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

## Pan head system screw

- Pilot bore Ø5 (3/16") hole



Part no.

#7 x 14.5 mm, #2 POZI	<b>668.1450.EH</b>
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## Truss head screw

- For attaching hinge to face frame
- Type 17



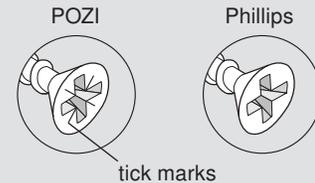
Part no.

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

## 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	<b>POZI DRIVER</b>
1/4" Magnetic bit holder	<b>BIT HOLDER</b>
#2 x 1" POZI bit insert	<b>POZI BIT #2X1</b>
#2 x 1" POZI bit insert	<b>POZI BIT #2X2</b>

## Twin application screw

- Pre-bored Ø5 (3/16") hole

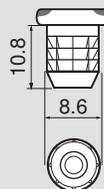


Part no.

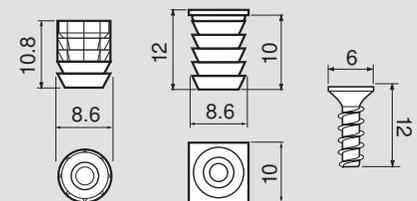
14 (9/16") screw	<b>612.2010</b>
20 (25/32") sleeve	<b>612.2020</b>
24 (15/16") sleeve	<b>612.2420</b>

## Ø8 millimeter dowels

### Square head dowel for attaching to hinges



### Round dowel for insertion into doors



Part no.

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

# 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	<b>MZK.190S</b>
Chuck cover cap	<b>M30.1329</b>

## 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

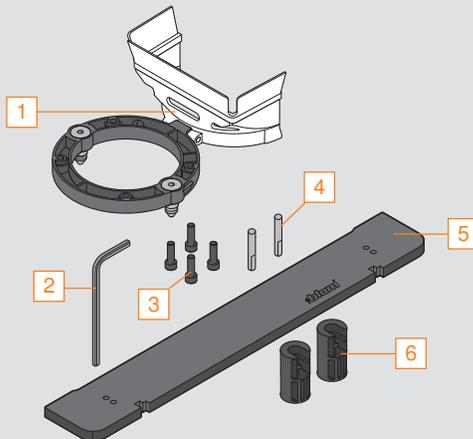
## Includes:

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

Part no.

8 spindle head	<b>MZK.880S</b>
Chuck cover cap	<b>M30.1329</b>

## 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:

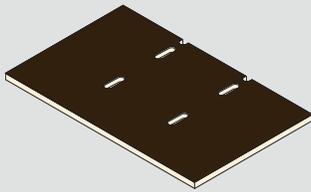
- 1 Adapter ring and shield
- 2 Ø5 mm allen wrench
- 3 Mounting bolts (qty 4)
- 4 Alignment pins (qty 2)
- 5 Alignment template
- 6 13 mm fixed depth stop (qty 2)

Part no.

Spindle head retrofit set	<b>M30.1313.UM</b>
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# Assembly aids

## Work table for M51 machine

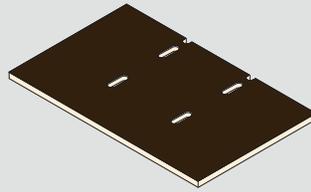


Part no.

Work table

**MZA.1000**

## Work table for M52 machine

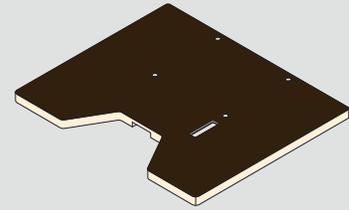


Part no.

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



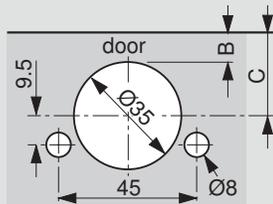
- Can be used to insert all Blum press-in hinges

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



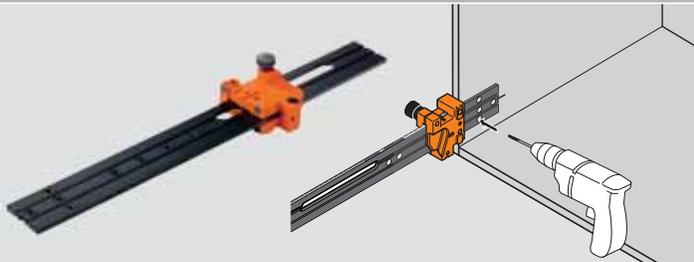
- Used to bore Ø5 mm holes for mounting plates that are mounted with system screws, EXPANDO dowels or INSERTA
- Also can be used to pre-bore Ø5 mm holes for EXPANDO BLUMOTION adapters
- Ø5 mm stop collar included

Part no.

ECOJIG

65.5070

## Universal individual template



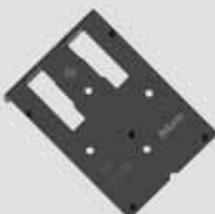
- For pre-boring mounting plates
- Also used for marking and pre-boring cabinet profiles, BLUMOTION, TIP-ON adapter plates and AVENTOS locating pins
- Calibrated scale for accurate setting

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**

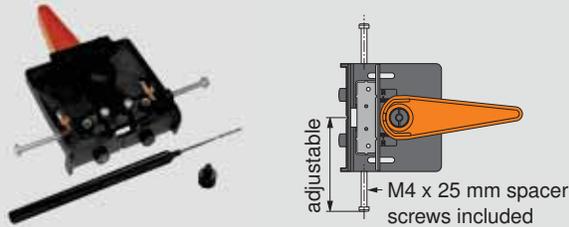


- Drilling sleeve dimensions changed from 2.5 mm to 5 mm for drilling for in-line mounting plates
- Locates/matches positions of hinges and plates on cabinets and doors
- Transfers positions from door-to-cabinet and cabinet-to-door
- Adjustable stop for various door overlays
- For use with wing or in-line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

Part no.

QUICKFIX	65.7500.03
<b>Accessories</b>	
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.

Dowelling fixture	69.3600
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**INSERTA boring template**

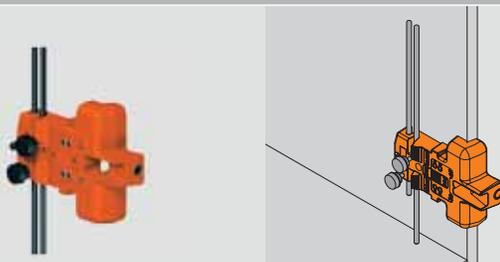


- For boring Ø8 mm dowel holes after Ø35 mm hole is bored
- Boring distance adjusts from 2 mm to 8 mm
- Also bores Ø5 mm holes for system screw mounting plates
- Includes drill stop collar to pilot bore Ø2.5 mm for screw-on plates

Part no.

INSERTA boring template	65.059A
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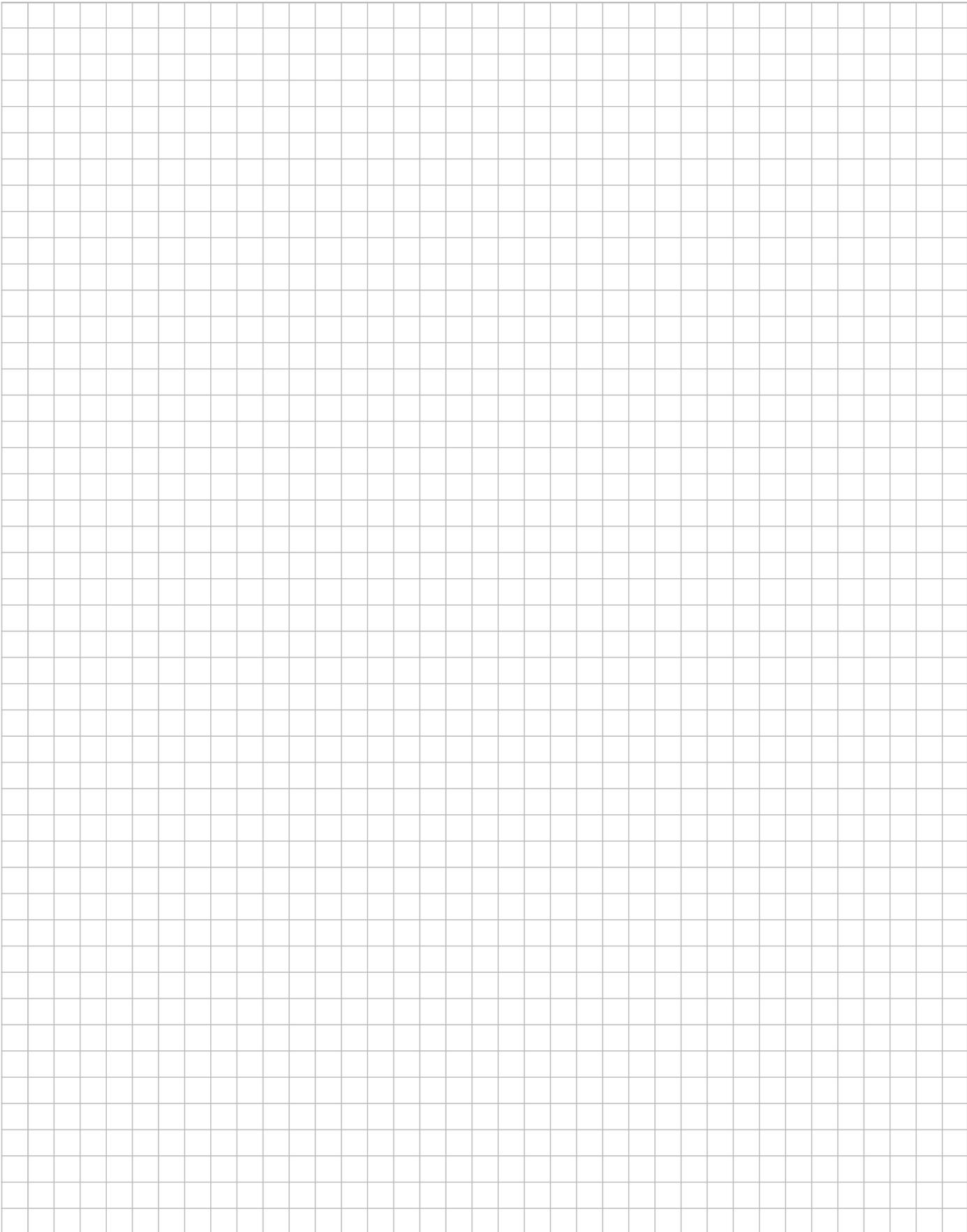
**BLUMOTION for doors boring template**

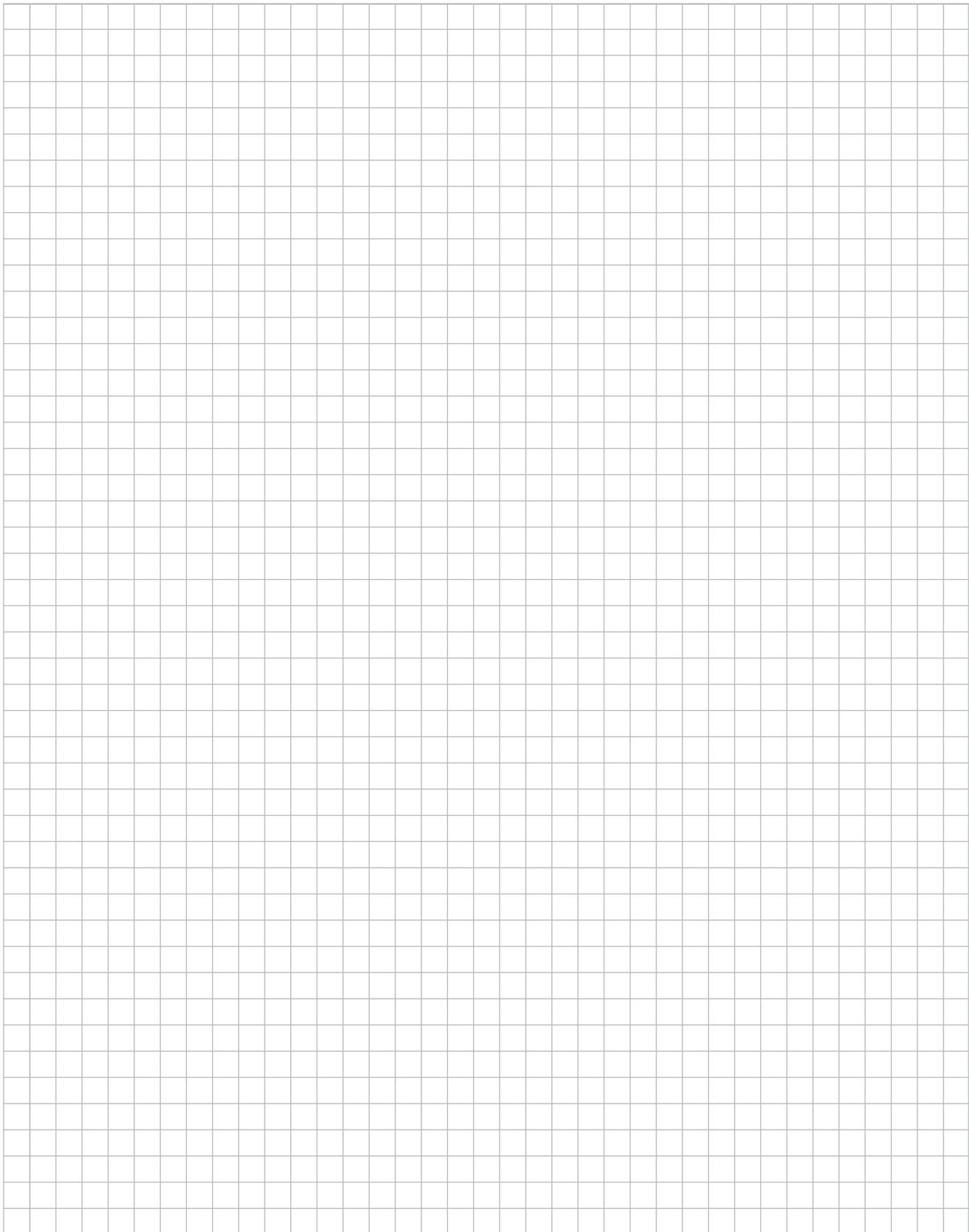


- For pre-boring BLUMOTION adapters
- Ø10 mm drill bushing for panel edge boring
- Vertical guides for setting height
- Can be used to pre-bore for wing and in-line mounting plates
- Includes Ø10 mm, Ø5 mm and Ø2.5 mm stop collars

Part no.

BLUMOTION for doors boring template	65.5000
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Blum, Inc. Headquarters, Stanley NC

# Why choose Blum



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

### Commitment to manufacturing in the U.S.

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



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



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

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