

Ablum®

blum.com

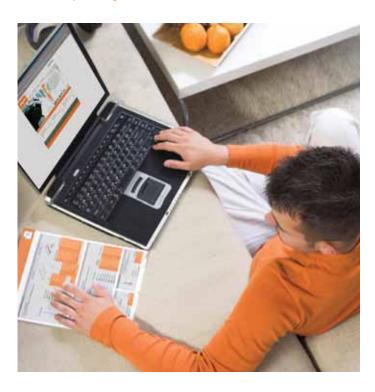
Simple planning and ordering

Blum offers many on-line tools to help you with your kitchen planning and ordering. Planning tools allow the selection of components based on your cabinet construction and size. Additional components can be selected as needed. Once complete, they provide an easy-to-follow order form.

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

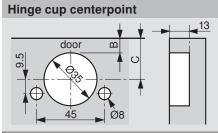


For more information on Concealed hinges please refer to our website at www.blum.com/us/en/01/#2

Or simply scan the quick reference code below

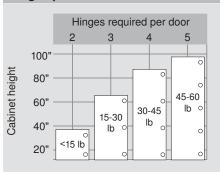


Quick reference



	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 = Boring distance					

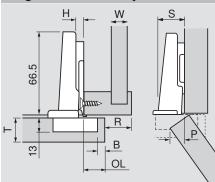
Hinges per door



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



В	= Boring distance
Н	= Plate height
OL	= Door overlay
Р	= Door protrusion
R	= Reveal
S	= Side arm protrusion
Т	= Door thickness
W	= Side panel width
FD	= Fixed distance

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

Fixed distance (FD)

The distance that the cup overlays the cabinet side panel when a hinge is attached to a 0 mm mounting plate.

This is used to calculate hinge overlay with the formula X + B minus H = OL (Fixed distance + boring distance minus plate height = overlay)





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Hinges

Ablum

Product Overview



CLIP top BLUMOTION

BLUMOTION is integrated in the hinge cup so additional assembly processes are no longer necessary after adjustment is complete.



CLIP top

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



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



Angled hinges

Angled hinges provide a tremendous array of possibilities for the professional cabinet designer. Specifically designed for panel constructed (frameless) cabinets, the system accommodates cabinet front angles from -45° to +45°, in 5° increments.



CLIP accessories

Blum offers a wide range of accessories from spacers to restriction clips that support a variety of applications. A selection of customizable cover caps enables the customer to enhance and personalize each hinge.



CLIP 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.

Hinges



BLUMOTION for doors

BLUMOTION add-on upgrade option available for CLIP top, CLIP and COMPACT hinges. Easy to install and offers the same quality of motion as BLUMOTION hinges.



TIP-ON for doors

Designed for panel or face frame (blocked out) cabinet applications. Works with CLIP top BLUMOTION, CLIP top and CLIP free swing and self close hinges. Ideal for handleless cabinets, doors can be opened easily with TIP-ON – a light touch is all that's needed.



COMPACT BLUMOTION

COMPACT BLUMOTION hinges have the soft closing mechanism integrated directly in the hinge cup. They are available for most overlay face frame applications or door styles and are interchangeable with current COMPACT hinges so no need to change existing setups or workflows.



COMPACT accessories

Blum's COMPACT hinges program has proven itself as the high quality solution for face frame cabinets for over 30 years and continue to provide the quality of motion you have come to expect from Blum hardware.



Assembly aids

Blum assembly aids support the assembly of all Blum products. They have proven to be the very best aids when it comes to day-to-day assembly. Their combination of high precision and practical benefits is valued both in workshops and directly on-site with the customer.



Machines and accessories

The wide range of drilling and insertion machines on offer from Blum ensures just the right solution no matter what the assembly requirement. Quick setup and easy operation ensure efficient assembly and a high-quality end result.



CLIP Testing Standards



Conditions for Tests

Blum, Inc. does a great deal of testing to ensure that the quality of our hardware is consistent with the usual high standards that our customers have come to expect from Blum. For this reason we have rigorous testing procedures which are carried out from the development stage through production. Blum's internal testing standards are based on practical applications of our products and are more stringent than what is required by ANSI/BHMA.

NOTE: All Blum hinges meet or exceed ANSI/BHMA A156.9-2001 grade 2 requirements. All concealed hinges are designed for indoor use.

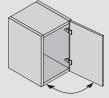
Cycle test	
Specifications	 Door size – 23-5/8" height, 23-5/8" width, 3/4" thickness Door weight –14.3 lb for cycle tests Door weight – 18.5 lb for load and over push tests Boring distance – 5 mm
Distance between hinges	= 16-15/16"
Hinge and mounting plate attachment	 Hinges are mounted to test blocks and attached to test door and stand with clamps Test blocks for door: Particle board Test blocks for mounting plate: Particle board

Cycle test



Without load

 200,000 opening and closing cycles for all CLIP hinges



With load

 11 lb extra weight is applied for 100,000 opening and closing cycles



Positive test result Positive test result

Load test



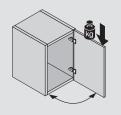
Static load

 67 lb applied ten times for five seconds, each at 45° opening angle



Dynamic load

 44 lb extra weight applied for fifty opening and closing cycles



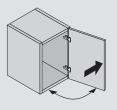
Positive test result Positive test result

Over push test



Without load

 CLIP hinges – Increasing forces up to 11 lb applied for a total of five times for a total of five seconds each

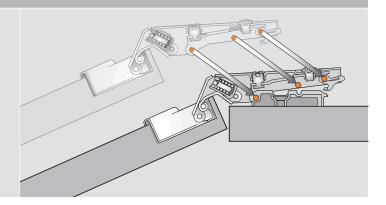


Positive test result



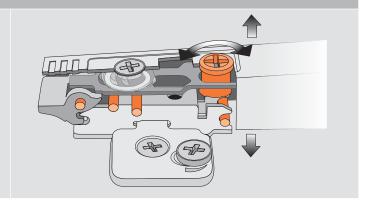
Blum three-point contact

CLIP top BLUMOTION, CLIP top and CLIP hinges have three-point contact between the hinge and mounting plate to keep them firmly connected under heavy usage.



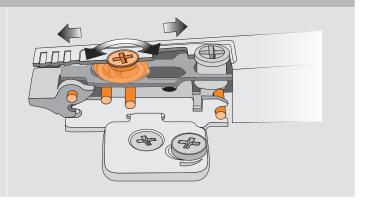
Side adjustment

Blum's side adjustment is a flush screw head that allows 4 mm of adjustment. It also has an integral stop that prevents removal.



Spiral tech depth adjustment

With Blum's spiral tech depth adjustment just one and three quarter revolutions of the screw creates 5 mm of adjustment without loosening and retightening a fixing screw.



Wide variety of mounting plates

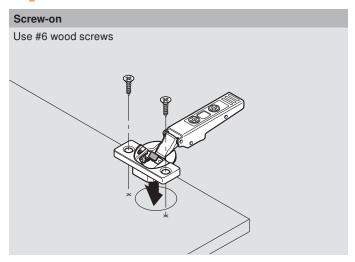
Blum has mounting plates for every application from wing plates with pre-attached screws or dowels and cam height adjustable face frame adapters, to sleek in-line mounting plates.

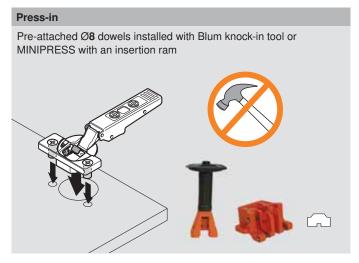


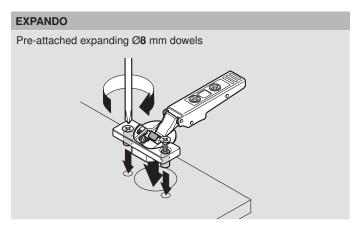
General Specifications

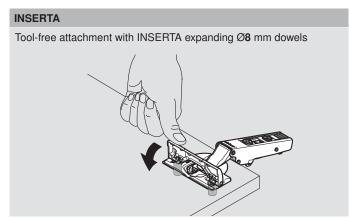


Hinge-to-Door Attachment

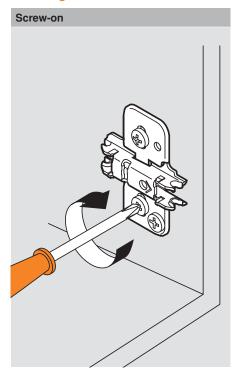


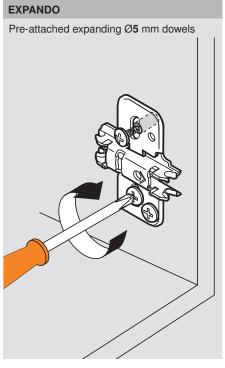


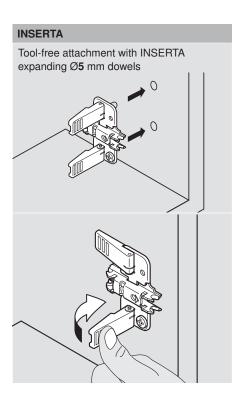




Mounting Plate-to-Cabinet





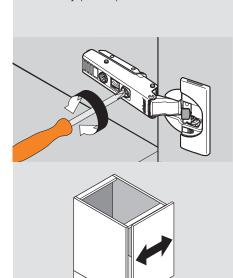




Three-Dimensional Adjustment

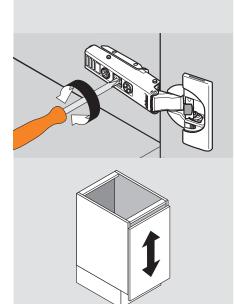
Side adjustment

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



Height adjustment

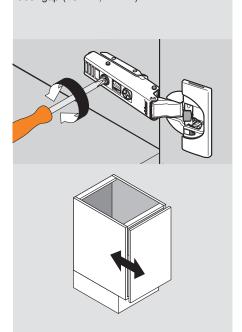
Rotate cam screw on mounting plate to adjust door position (±2 mm)



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

Depth adjustment

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

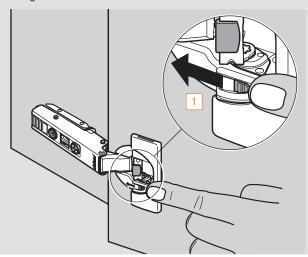


BLUMOTION Deactivation

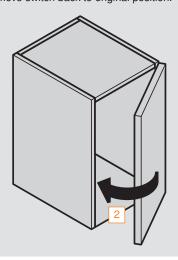
i

Deactivation switch on hinge cup

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



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



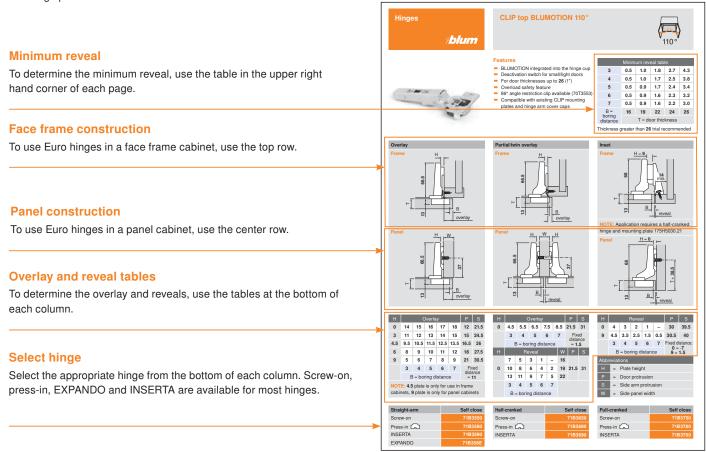
Temperature information

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

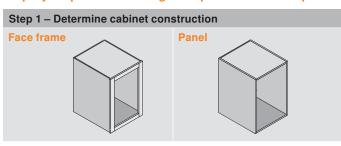
Using the Brochure

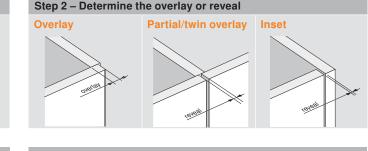


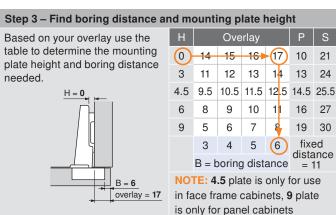
Blum's Concealed hinges brochure makes it easy to use our Euro hinges. Each page shows information for both face frame and panel applications. The top row shows the hinge in a face frame cabinet and the center row shows it in a panel cabinet. The bottom holds the overlay/reveal tables and hinge part numbers.

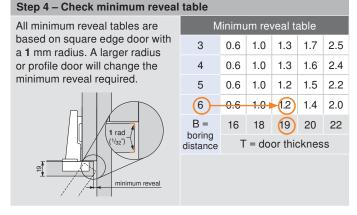


Step-by-step – the following example is based on a panel cabinet with an overlay









Hinge Program Overview

Hinges *ablum*°

CLIP top BLUMOTION	Page
110°	13
110°+	14
95° thick door	15
110° diagonal 45°	16
95° inset blind corner	17
95° overlay blind corner	18
95° narrow aluminum	19

CLIP top	Page
107°	20
110°	21
110°+	22
120°	23
120°+	24
95° thick door	25
170°	26
170° special applications	27
155° zero protrusion	28
155° special applications	29
125° zero protrusion	31
125° special applications	32
95° inset blind corner	33
95° overlay blind corner	34
120° aluminum for BLUMOTION	35
120° aluminum	36
110° diagonal 45°	37
95° mini	38
95° glass door	39
60° bi-fold	40

CLIP	Page
107°	41
100°	42

Angled	Page
CLIP top BLUMOTION and CLIP top	43

CLIP accessories	Page
Cover caps	55
Angle restriction clips	56
Mounting plates	57
BLUMOTION for doors	63
TIP-ON for doors	71

COMPACT BLUMOTION	Page
38N for partial overlay	80
39C for full overlay	81
38C for full overlay	82
38B for face mount	83
Accessories	84

COMPACT	Page
38N for partial overlay	86
39C for full overlay	87
38C for full overlay	88
33 for partial and full overlays	89
BLUMOTION for COMPACT	91
Accessories	92

Machines and assembly aids	Page
Machines	93
Machine accessories	94
Assembly aids	97

Part number index	Page
Part numbers	101



CLIP top BLUMOTION 110°





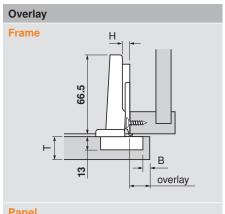
- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to 26 (1")
- Overload safety feature
- 86° angle restriction clip available (70T3553)
- Compatible with existing CLIP mounting plates and hinge arm cover caps

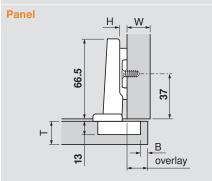
Minimum reveal table							
3	0.5	1.0	1.8	2.7	4.3		
4	0.5	1.0	1.7	2.5	3.8		
5	0.5	0.9	1.7	2.4	3.4		
6	0.5	0.9	1.6	2.3	3.2		
7	0.5	0.9	1.6	2.2	3.0		
B =	16	19	22	24	26		
boring distance	T = door thickness						

Thickness greater than 26 trial recommended

Inset



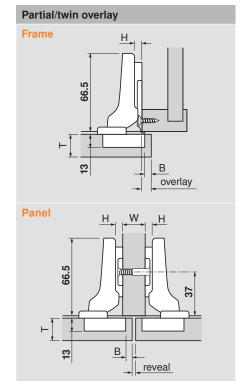






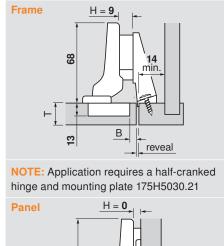
NOTE: 4.5 plate is only for use in frame cabinets, 9 plate is only for panel cabinets

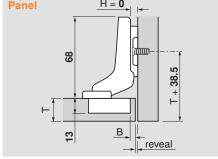
Straight-arm	Self close
Screw-on	71B3550
Press-in	71B3580
INSERTA	71B3590
EXPANDO	71B358E



Н				Р	S				
0	4.5	5.5	6.	5 7	.5	8.	5	21.5	31
	3	4	5		6	7		Fix	
	E	B = boring distance distance = 1.5							
Н		F	levea			١,	W	Р	S
	7	5	3	1	1 – 1				
0	10	8	6	6 4 2 1				21.5	31
	13	11	9 7 5				22		
	3 4 5 6 7								
	В:	= bor	ing di						

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





H		,	Р	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 d			
	В	B = boring distance $0 = -7$ $9 = 1.5$							
Abbreviations									
Н	= Plate height								
Р	=	= Door protrusion							
S	= Side arm protrusion								
W	= Side panel width								

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

CLIP top BLUMOTION 110°+

Hinges

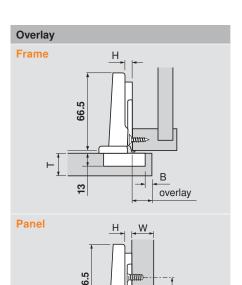


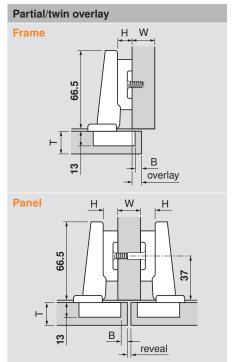
Features

- 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
- 86° angle restriction clip available (70T3553)
- 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 =	16	19	22	24	26		
boring distance	T = door thickness						







Building b	oth frame and panel cabinets
Frame	4.5
hinge (73B plate (175F	
Panel	4.5

Н				Р	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	7		ed				
	B = boring distance = 13								

13

В

overlay

3	4	4.5	5	ь	-	distance
	B = k	ooring	g dist	ance		= 13
ΓE: 4			,			rame abinets

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

Н	Overlay							Р	S
9	7	8	8.5	9	1	0	11	19	29
	3	4	4.5	5	6	6	7	Fix dista	
		B = 1	borin	ng dis	tan	се		= 1	
Н		Reveal W P S					S		
	2	-	-	-	-	-	16		
9	5	3	2	2 – – – 19				40	00
•		3	_	_	_	-	19	19	29
	8	6	5	4	_	_	19 22	- 1	29
		6	-	4 5	- 6	7		- 1	29

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

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

17.5 (11/16")

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:

hinge (73B35XX)

plate (any 0 mm plate)

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

Abbre	Abbreviations						
Н	= Plate height						
Р	= Door protrusion						
S	= Side arm protrusion						
W	= Side panel width						



CLIP top BLUMOTION 95° Thick Door



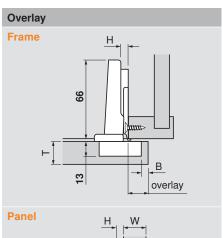


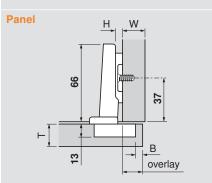
- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to 30 (1-3/16")
- Overload safety feature
- Compatible with existing CLIP mounting plates and hinge arm cover caps

	Minimum reveal table							
3	0.4	8.0	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 =	19	22	24	26	28	29	30	
boring distance		Т	= do	or thi	cknes	SS		

Thickness greater than 30 trial recommended



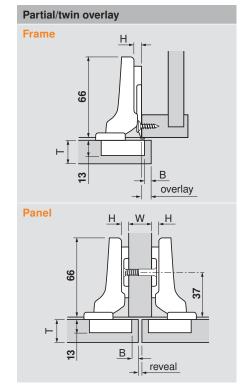




Н		C	Р	S			
0	14	15	16	17	18	14.5	22
3	11	12	13	14	15	17.5	25
4.5	9.5	10.5	11.5	12.5	13.5	19	26.5
6	8	9	10	11	12	20.5	28
9	5	6	7	23.5	31		
	3 4 5 6 7 Fixed						
	B = boring distance = 11						

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

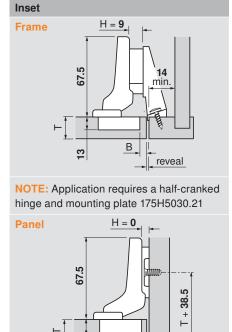
Straight-arm	Self close
Screw-on	71B9550
Press-in	71B9580
INSERTA	71B9590



Н		(Р	S		
0	4.5	5.5	8.5	24	31	
	3	4	7	Fix		
	B = boring distance = 1.5					

Н		W	Р	S				
	7	5	3	1	_	16		
0	10	8	6	4	2	19	24	31
	13	11	9	7	5	22		
	3	4	5					
	В	= bor	ing d					

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



Н		F	Р	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	7		istance:		
	В	= boı	ce	0 = 9 =	1.5		

В

reveal

13

Abbreviations						
Н	= Plate height					
Р	= Door protrusion					
S	= Side arm protrusion					
W	= Side panel width					

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



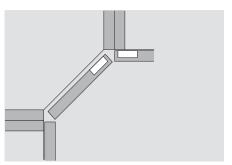
CLIP top BLUMOTION 110° Diagonal 45°





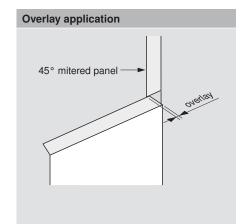


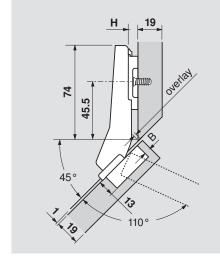
- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to 19 (3/4")
- Overload safety feature
- Compatible with existing CLIP mounting plates and hinge arm cover caps



Thickness greater than 19 trial recommended

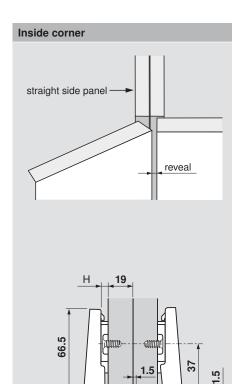






Н	Overlay				
0	1	2	3	4	
	3	4	5	6	
	I	B = boring	g distance	÷	

Diagonal 45° hinge	Self close
INSERTA	79B3598



Н	Reveal				
0	6	5	4	3	
	3	4	5	6	
	B = boring distance				
NOTE:	Reveal ba	sed on 19	9 (3/4") sid	de panel	

110°

reveal

45°

Diagonal 45° hinge	Self close
INSERTA	79B3598

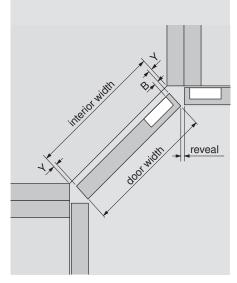
Calculating door width

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

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

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

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



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					

Abbr	eviations
Н	= Plate height
Υ	= Side gap



CLIP top BLUMOTION 95° Inset Blind Corner



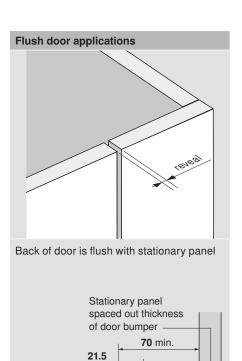


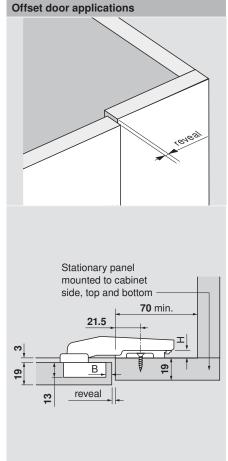
Features

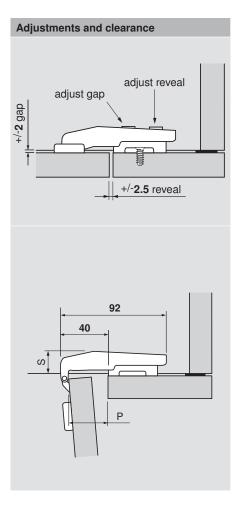
- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to 24 (15/16")
- Overload safety feature
- Boring distance range 3 mm to 7 mm
- Compatible with existing CLIP mounting plates and hinge arm cover caps

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 =	16	18	19	20	22	24
boring distance	T = door thickness					

Thickness greater than 24 trial recommended







Н		F	Revea	.I		Р	S
3	5	4	3	2	1	33.5	21
	3	4	5	6	7		
	B = boring distance						

В

reveal

13

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

Н		F	Revea	ıl		Р	S
0	5	4	3	2	1	33.5	18
	3	4	5	6	7		
	B = boring distance						

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

Abbr	Abbreviations					
Н	= Plate height					
Р	= Door protrusion					
S	= Side arm protrusion					



CLIP top BLUMOTION 95° Overlay Blind Corner

Hinges



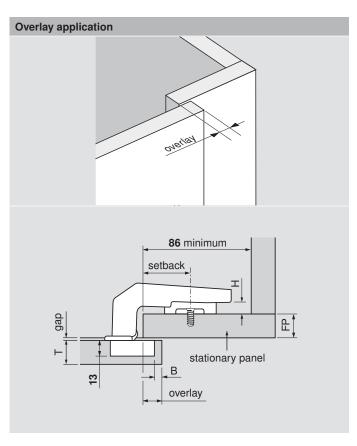
Features

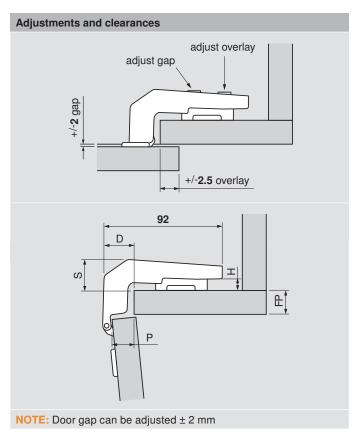


- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to 24 (15/16")
- Overload safety feature
- Boring distance range 3 mm to 7 mm
- Compatible with existing CLIP mounting plates and hinge arm cover caps

	N Alice I			A a la La		
	IVIINI	mum	reveai	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 =	16	18	19	20	22	24
boring distance T			door	thickn	ess	

Thickness greater than 24 trial recommended





Setback	Overlay			Р	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					ed ance	
	B = boring distance				се	=	

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 boring distance.

Н		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.

Abbre	Abbreviations				
D	= Depth				
FP	= Front panel thickness				
Н	= Plate height				
Р	= Door protrusion				
S	= Side arm protrusion				

Overlay blind corner	Self close
Press-in	79B9980



CLIP top BLUMOTION 95° Narrow Aluminum Door



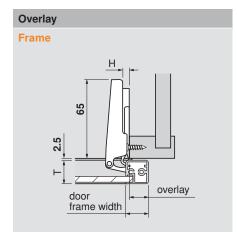


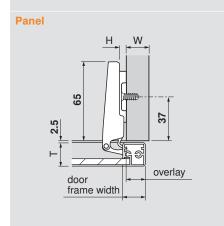
- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to 22 (7/8")
- Overload safety feature
- Compatible with existing CLIP mounting plates and hinge arm cover caps

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	18	19	20	21	22
frame width		T = dc	oor thick	kness	

Thickness greater than 22 trial recommended



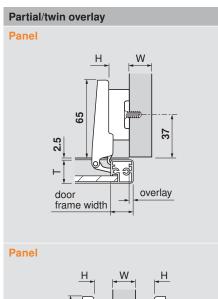


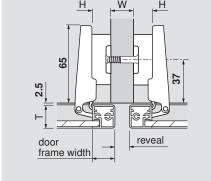


Н	Overlay	Р	S
0	16	13.5	22
3	13	16.5	25
4.5	11.5	18	26.5
6	10	19.5	28
9	7	22.5	31
	B = fixed		

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

Straight-arm	Self close
Screw-on	71B950A

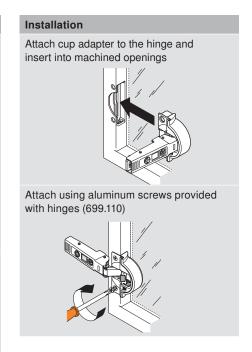


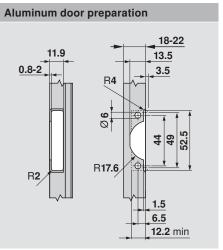


Н	Overlay	Р	S
9	7	23	31
	B = fixed		

Н	Reveal	W	Р	S
0	2	16	23	31
9	5	19	23	31
	B = fixed			

Straight-arm	Self close
Screw-on	71B950A





Abbre	Abbreviations				
Н	= Plate height				
Р	= Door protrusion				
S	= Side arm protrusion				
W	= Side panel width				

CLIP top 107°

Hinges



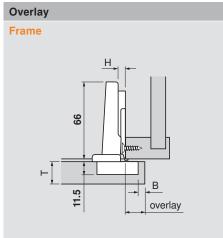
Features

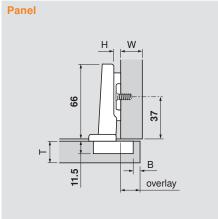
- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 22 (7/8")
- 86° angle restriction clip available (74.1103)
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

Minimum reveal table							
3	0.6	1.0	1.3	1.7	2.5		
4	0.6	1.0	1.3	1.6	2.4		
5	0.6	1.0	1.2	1.5	2.2		
6	0.6	1.0	1.2	1.4	2.0		
B =	16	18	19	20	22		
boring distance	T = door thickness						

Thickness greater than 22 trial recommended







Н		Р	S			
0	14	15	16	17	10	21
3	11	12	13	14	13	24
4.5	9.5	10.5	11.5	12.5	14.5	25.5
6	8	9	10	11	16	27
9	5	6	7	8	19	30
	3 4 5 6					ed
	В =	= boring	ice	dista = 1		

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

÷		overlay
11.5	-1 -	B_overlay

Straight-arm	Self close
Screw-on	75T1550
Press-in	75T1580
INSERTA	75T1590B

t-arm	Self close	Abbreviations			
on	75T1550	Н	= Plate height		
n 🖳	75T1580	Р	= Door protrusion		
ΤΑ	75T1590B	S	= Side arm protrusion		
		W	= Side panel width		



CLIP top 110°



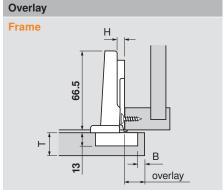


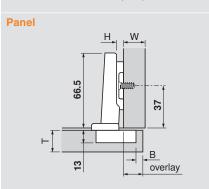
- Three-dimensional adjustment
- Available with INSERTA attachment
- INSERTA lever expands in Ø8 mm holes
- For door thicknesses up to 26 (1")
- 86° angle restriction clip available (70T3553)
- All metal hinge, nickel plated
- Add-on BLUMOTION soft close available

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 =	16	19	22	24	26		
boring distance	T = door thickness						

Thickness greater than 26 trial recommended



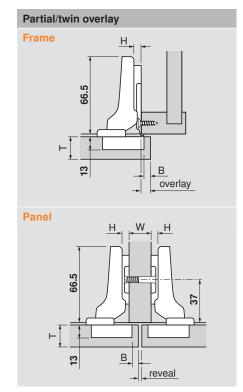






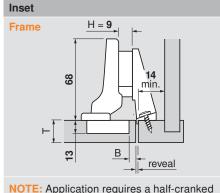
NOTE: 4.5 plate is only for use in frame cabinets, 9 plate is only for panel cabinets

Straight-arm	Self close	Free swing
Screw-on	71T3550	70T3550.TL
Press-in	71T3580	70T3580.TL
INSERTA	71T3590	70T3590.TL
EXPANDO	71T358E	

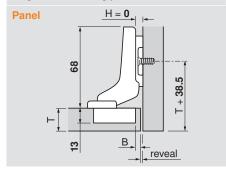


Н			Ove	rlay	<u> </u>			Р	S
0	4.5	5.5	6.	5	7.5	8.5	5	21.5	31
	3	4	5	5	6	7		Fix	
		B = b	oring	dis	stanc	е		dista = 1	
Н		F	levea	al		١ ا	W	Р	S
	7	5	3	1	-	. 1	16		
0	10	8	6	4	2	1	19	21.5	31
	13	11	9	7	5	2	22		
	3	4	5	6	7				
	B = boring distance								

Half-cranked	Self close	Free swing
Screw-on	71T3650	70T3650.TL
Press-in	71T3680	
INSERTA	71T3690	70T3690.TL



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



Н	Reveal				Р	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		
	В	= boı	ring d	istand	се	9 =		
Abb	reviat	ions						
Н	=	Plate	heig	ht				
Р	=	= Door protrusion						
S	= Side arm protrusion							
W	= Side panel width							

Full-cranked	Self close	Free swing
Screw-on	71T3750	70T3750.TL
Press-in	71T3780	
INSERTA	71T3790	

CLIP top 110°+

Hinges



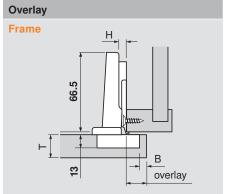
Features

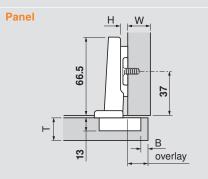
- For larger overlays (22 mm maximum)
- Three-dimensional adjustment
- Available with INSERTA attachment
- INSERTA lever expands in Ø8 mm holes
- For door thicknesses up to 26 (1")
- 86° angle restriction clip available (70T3553)
- All metal hinge, nickel plated
- Add-on BLUMOTION soft close available

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						

Thickness greater than 26 trial recommended



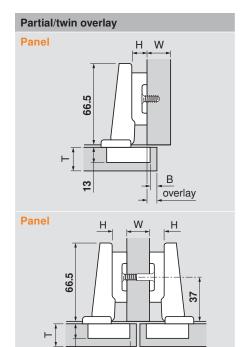




Н			Р	S						
0	16	17	17.5	18	19	20	10	20		
3	13	14	14.5	15	16	17	13	23		
4.5	11.5	12.5	13	13.5	14.5	15.5	14.5	24.5		
6	10	11	11.5	12	13	14	16	26		
9	7	8	8.5	9	10	11	19	29		
	3	4	4.5	5	6	7	Fixed			
	B = boring distance distance = 13									

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

Straight-arm	Self close	Free swing
Screw-on	73T3550	72T3550.TL
Press-in	73T3580	72T3580.TL
INSERTA	73T3590	72T3590.TL
EXPANDO	73T358E	

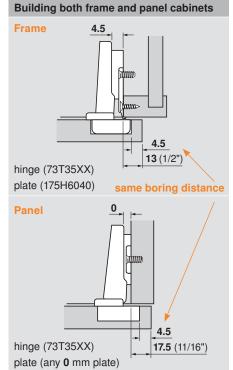


Н		Overlay							Р	S
9	7	8	8.	5 9	9	10		11	19	29
	3	4	4.	5 4	5	6		7	Fix dista	
		B = boring distance							= 1	
Н			Rev	/eal				W	Р	S
	2	_	_	_	-	- -	_	16		
9	5	3	2	_	-	-	_	19	19	29
	8	6	5	4	-	-	_	22		
	3	4	4.5	5	6	i	7			
	E	B = boring distance								

В

reveal

Straight-arm	Self close	Free swing
Screw-on	73T3550	72T3550.TL
Press-in	73T3580	72T3580.TL
INSERTA	73T3590	72T3590.TL
EXPANDO	73T358E	



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

Bore all doors at 4.5 mm to achieve:

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

Advantages:

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

Abbreviations					
Н	=	Plate height			
Р	=	Door protrusion			
S	=	Side arm protrusion			
W	=	Side panel width			



CLIP top 120°





- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 22 (7/8")
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

Minimum reveal table								
3	1.2	1.7	2.0	2.4	3.3			
4	1.2	1.7	2.0	2.3	3.1			
5	1.1	1.6	1.9	2.2	3.0			
6	1.1	1.6	1.9	2.2	2.9			
B =	16	18	19	20	22			
boring distance	T = door thickness							

Thickness greater than 22 trial recommended

min.

reveal

T + 38.5

39

В

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

Inset

Frame

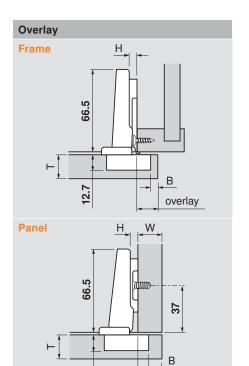
Panel

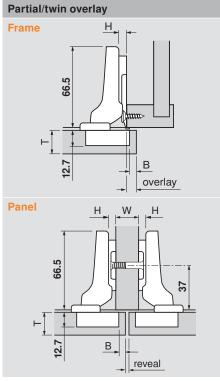
89

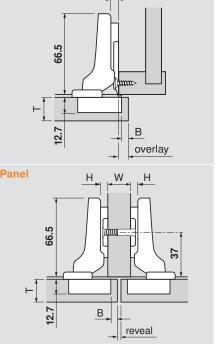
12.7

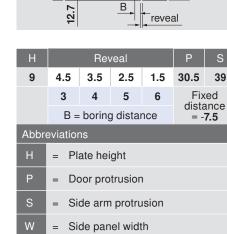
89











Н		Ove	Р	S			
0	14	15	16	17	11.5	20.5	
3	11	12	13	14	14.5	23.5	
4.5	9.5	10.5	11.5	12.5	16	25	
6	8	9	10	11	17.5	26.5	
9	5	6	7	8	20.5	29.5	
	3	4	5	6	Fixed distance		
	B =	boring		11			

overlay

12.7

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

Straight-arm	Self close
Screw-on	71T5550
Press-in	71T5580
INSERTA	71T5590B
EXPANDO	71T558E

Н		Overlay					Р	S	
0	4.5	5.	5 6	.5	7	7.5	21.5	30	
	3	3 4 5 6			6	Fix dista			
	В	B = boring distance					= 1		
Н		Reveal W			W	P	S		
	7	5	3	1		16			
0	10	8	6	4		19	21.5	30	
	13	11	9	7		22	2		
	3	4	5	6					
	B =	B = boring distance							

Half-cranked	Self close
Screw-on	71T5650
Press-in	71T5680
INSERTA	71T5690B

Self close
71T5650
71T5680
71T5690B

CLIP top 120°+

Hinges



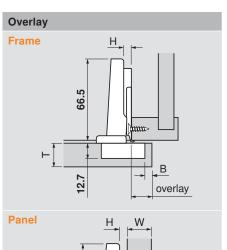


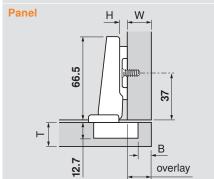
- For larger overlays (21 mm maximum)
- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 22 (7/8")
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

Minimum reveal table								
3	1.2	1.7	2.0	2.4	3.3			
4	1.2	1.7	2.0	2.3	3.1			
4.5	1.1	1.6	1.9	2.2	3.0			
5	1.1	1.6	1.9	2.2	3.0			
6	1.1	1.6	1.9	2.2	2.9			
B = boring distance	16	18	19	20	22			
	T = door thickness							

Thickness greater than 22 trial recommended



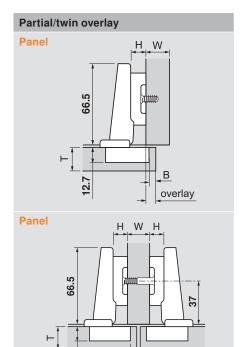




Н		(Р	S				
0	16	17	17.5	18	19	12	21.5	
3	13	14	14.5	15	16	15	24.5	
4.5	11.5	12.5	13	13.5	14.5	16.5	26	
6	10	11	11.5	12	13	18	27.5	
9	7	8	8.5	9	10	21	30.5	
	3	4	4.5	5	6	Fixed distance		
	D 1 1 11 11 11						13	

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

Straight-arm	Self close
Screw-on	73T5550
Press-in	73T5580
INSERTA	73T5590B
EXPANDO	73T558E



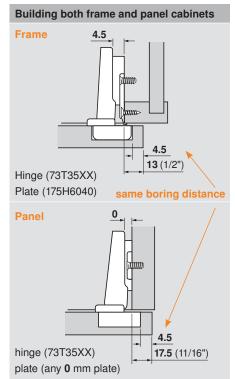
Н	Overlay						Р	S		
9	7	8	8.5	5 9)	10	18.5	28		
	3	4	4.5	5 5	5	6				
	Е	3 = bo	oring	dista	nce	•		ance 13		
Н		F	levea	ıl		W	′ P	S		
	2	-	-	_	-	16	6			
9	5	3	2	-	-	19	18.	5 28		
	8	6	5	4	-	22	2			
	3	4	4.5	5	6					
	В:	B = boring distance								

В

reveal

12.7

Straight-arm	Self close
Screw-on	73T5550
Press-in	73T5580
INSERTA	73T5590B
EXPANDO	73T558E



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

Bore all doors at 4.5 mm to achieve:

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

Advantages:

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

Abbreviations					
Н	= Plate height				
Р	= Door protrusion				
S	= Side arm protrusion				
W	= Side panel width				



CLIP top 95° Thick Door



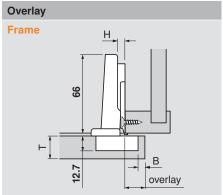


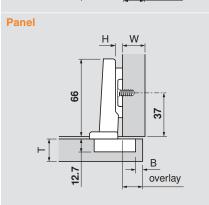
- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 30 (1-3/16")
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

Minimum reveal table								
3	0.4	8.0	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 =	19	22	24	26	28	29	30	
boring distance	T = door thickness							

Thickness greater than 30 trial recommended







Overlay

16

13

10 11

7

5

B = boring distance NOTE: 4.5 plate is only for use in frame cabinets, 9 plate is only for panel cabinets

10.5 11.5

17

14

8

6 7

12.5 13.5

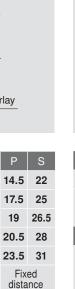
18 14.5

15 17.5

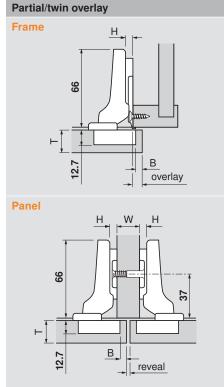
12 20.5

9

19

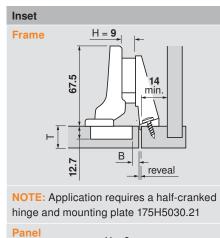


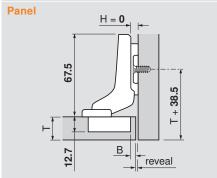
Straight-arm	Self close	Free swing
Screw-on	71T9550	70T9550.TL
Press-in	71T9580	70T9580.TL
INISERTA	71T0500R	



Н		(Р	S			
0	4.5	5.5	6.5	7.5	8.5	24	31
	3	4	5	6	7	Fixe	
	Е	3 = bo	= 1 .				
Н		Re	eveal		W	Р	S
	7	5	3	1 -	- 16		
0	10	8	6	4 2	2 19	24	31
	13	11	9	7 !	22	:	
	13 3	11 4	-	7 5		!	

Half-cranked	Self close	Free swing
Screw-on	71 T 9650	70T9650.TL
Press-in	71T9680	
INSERTA	71T9690B	





П		Reveal					0	
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 distanc $0 = 7$		
	В	= bo	ring d	istand	се	9 =		
Abb	reviat	ions						
Н	=	Plate	heig	ht				
Р	=	= Door protrusion						
S	= Side arm protrusion							
W	=	Side	pane	l widt	h			

Full-cranked	Self close	Free swing
Screw-on	71T9750	70T9750.TL
Press-in	71T9780	
INSERTA	71T9790B	

0

3

4.5

6

9

14

11

9.5

8

5 6

3

15

12

9

4

CLIP top 170°

Hinges





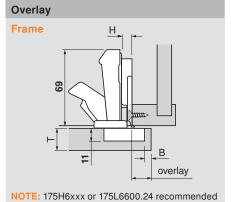


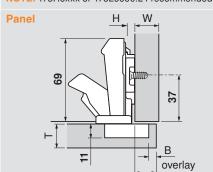
- Available with INSERTA attachment
- For door thicknesses up to 24 (15/16")
- 130° angle restriction clip available (70.6103)
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

Minimum reveal table							
3	0	0	0	0	0.2	2.2	
4	0	0	0	0	0	1.4	
5	0	0	0	0	0	0.9	
6	0	0	0	0	0	0	
7	0	0	0	0	0	0	
8	0	0	0	0	0	0	
B =	16	18	19	20	22	24	
boring distance	T = door thickness						

Thickness greater than 24 trial recommended



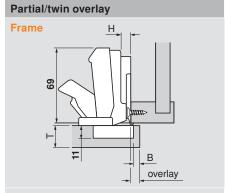


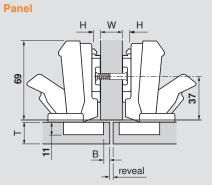


Н	Overlay						Р	S	
0	14	15	16	17	18	19	1.5	65	
3	11	12	13	14	15	16	4.5	68	
4.5	9.5	10.5	11.5	12.5	13.5	14.5	6	69.5	
6	8	9	10	11	12	13	7.5	71	
9	5	6	7	8	9	10	10.5	74	
	3	4	5	6	7	8	Fixed		
	B = boring distance = 11								

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

Straight-arm	Self close	Free swing
Screw-on	71T6550	70T6550.TL
Press-in	71T6580	
INSERTA	71T6540B	70T6540BTL



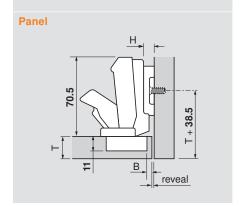


Н	Overlay						Р	S	
0	4.5	5.5	6.5	7.5	8.5	9.5	11	75	
	3	4	5	6	7	8	Fixed distance		
		B = k		= 1					

Н	Reveal						W	Р	S
	7	5	3	1	_	_	16		
0	10	8	6	4	2	0	19	11	75
	13	11	9	7	5	3	22		
	3	4	5	6	7	8			
	E	3 = b	orin						

Half-cranked	Self close	Free swing
Screw-on	71T6650	70T6650.TL
Press-in	71T6680	
INSERTA	71T6640B	

Inset
Inset application not recommended with 170° hinges and the inset face
frame adapter (175H5030.21)



Н	Reveal						Р	S	
9	4.5	3.5	2.5	1.5	0.5	_	20	84	
	3	4	5	6	7	8	Fixed distance		
	B = boring distance						= -7		

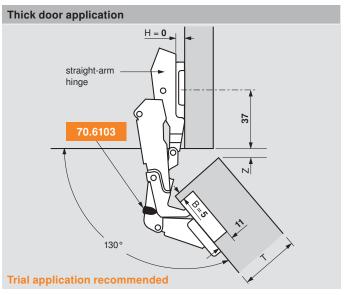
Abbr	Abbreviations					
Н	= Plate height					
Р	= Door protrusion					
S	= Side arm protrusion					
W	= Side panel width					

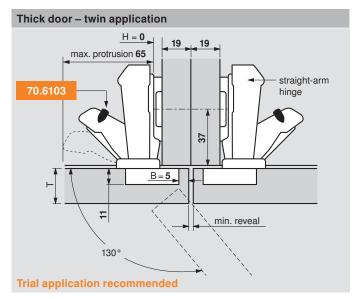
Half-cranked	Self close	Free swing
Screw-on	71T6650	70T6650.TL
Press-in	71T6680	
INSERTA	71T6640B	





Straight-Arm Applications



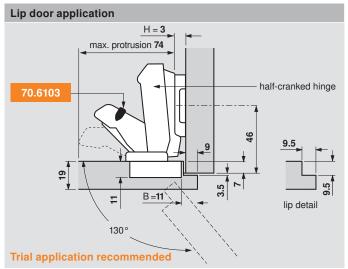


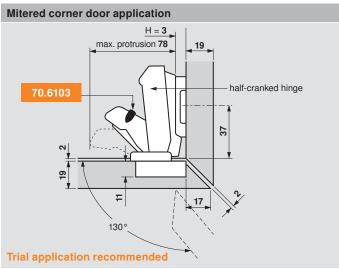
NOTE: Inset application can also be achieved with either a straight-arm hinge with a 18 mm plate or half-cranked hinge with 9 mm plate. Setback of mounting plate would be 38.5 mm + door thickness.

Z = gap						
15.5	13	11	9.5	7.5		
25	29	32	35	38		
T = door thickness						

Minimum reveal table							
0	0 6.5 14.5 21						
22	25	29	32				
T = door thickness							

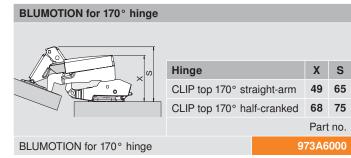
Half-Cranked Applications





NOTE: Special applications can be achieved in face frame cabinets by blocking out behind the frame or use of the new CLIP wing plates (pages 61-62)







CLIP top 155° **Zero Protrusion**

Hinges





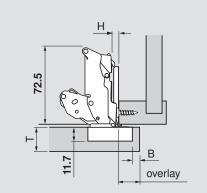
Features

- For use in cabinets with interior roll-outs
- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 24 (15/16")
- Angle restriction clips available
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

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 =	16	18	19	20	22	24	
boring distance	T = door thickness						

Thickness greater than 24 please see page 29

Overlay **Frame**





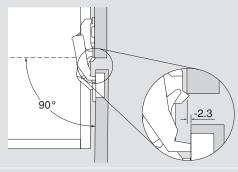
Panel В overlay

Н	Overlay						Р	S
0	14	15	16	17	18	19	-2.3	61
3	11	11 12 13 14 15 16						64
	3 4 5 6 7 8						Fix	
	B = boring distance						alsta	ance 11

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

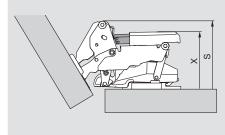
Door protrusion

At a 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	62
CLIP top 155° half-cranked	63	72
		Part no.
BLUMOTION for 155° hinge	ç	73A7000

Hinge cup dimensions 57 *INSERTA

70T7503N09

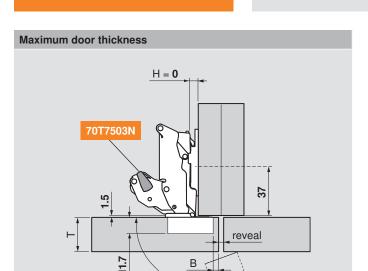
Angle restr	iction clips	
For use w protrusion Gray nylo		•
		Part no.
110° restricti	ion clip	70T7503N

92° restriction clip

Abbr	eviations
Н	= Plate height
Р	= Door protrusion
S	= Side arm protrusion
Т	= Door thickness
W	= Side panel width

CLIP top 155° Straight-Arm Special Applications

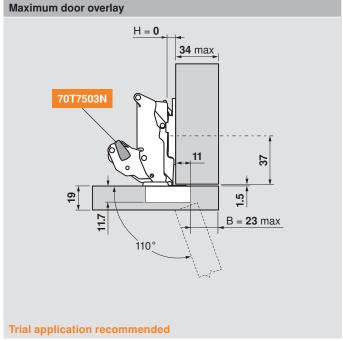




Ablum

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

Trial application recommended

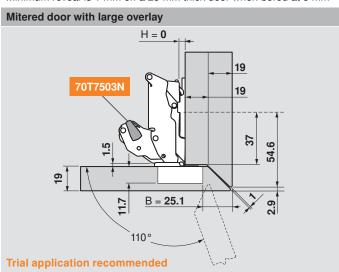


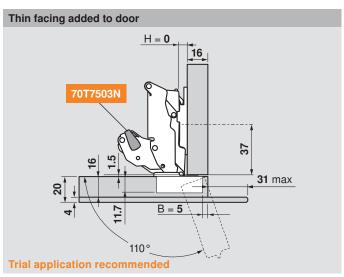
NOTE: Inset application can also be achieved with either a straight-arm hinge with a 18 mm plate or half-cranked hinge with 9 mm plate. Setback of mounting plate would be 38.5 mm + door thickness.

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

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

	Н		Overlay						
8 11 13 15 17 19 21 2	0	19	22	24	26	28	30	32	34
		8	8 11 13 15 17 19 21 23						
B = boring distance		B = boring distance							





NOTE: Special applications can be achieved in face frame cabinets by blocking out behind the frame or use of the new CLIP wing plates (pages 61-62)

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

Angle restriction clips	
For use w protrusion Gray nylo	U
	raitilo.
110° restriction clip	70T7503N
92° restriction clip	70T7503N09

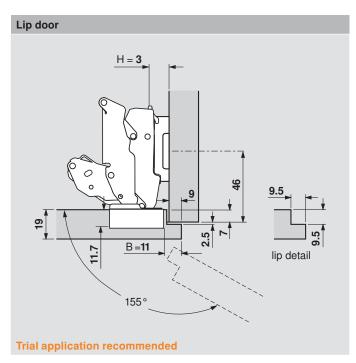
Abbr	eviations
Н	= Plate height
Р	= Door protrusion
S	= Side arm protrusion
W	= Side panel width

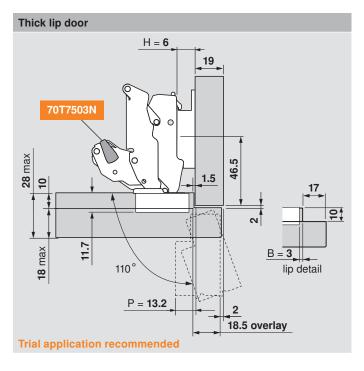


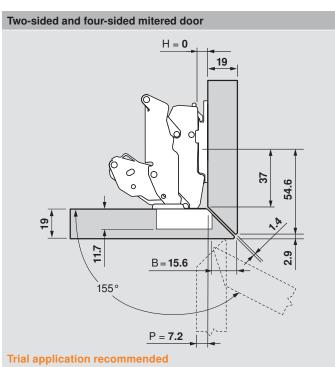
CLIP top 155° **Half-Cranked Special Applications**

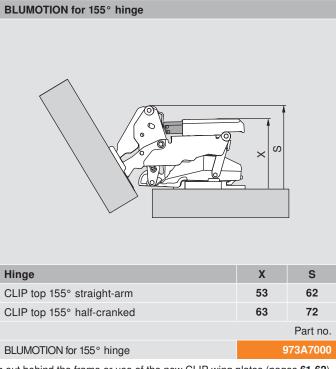
Hinges











NOTE: Special applications can be achieved in face frame cabinets by blocking out behind the frame or use of the new CLIP wing plates (pages 61-62)

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

Angle res	triction clips	
	For use w protrusionGray nylo	0
		Part no.
110° restric	ction clip	70T7503N
92° restrict	tion clip	70T7503N09

Abbr	Abbreviations					
Н	= Plate height					
Р	= Door protrusion					
S	= Side arm protrusion					
W	= Side panel width					



CLIP top 125° Zero Protrusion for Thicker Doors





Features

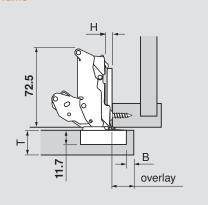
- Zero protrusion hinge for thicker doors
- For use in cabinets with interior roll-outs
- Three-dimensional adjustment
- For door thicknesses up to 30 (1-3/16")
- 92° angle restriction clip available (70T7503N)
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

Minimum reveal table								
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	
8	0	0	0	0	0	0	0	
B = boring distance	19	20	22	24	26	28	30	
	T = door thickness							

Thickness greater than 30 mm, see next page

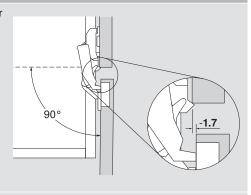
Overlay

Frame



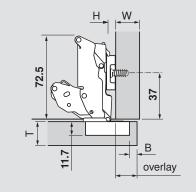
Door protrusion

At 90° opening, using **0** mm plate, the door will have -1.7 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

Panel



	<u>⊢</u>	- P				over	'lay_	
Н			Ove	erlay			Р	S
0	14	15	16	17	18	19	-1.7	63

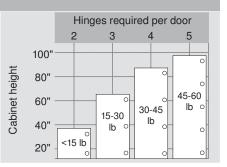
Straight-arm	Self close
Screw-on	71T7500D
Press-in	71T7530D

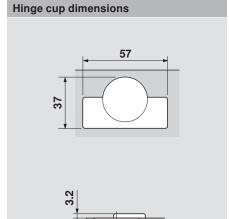
B = boring distance

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 for each door.

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







	Abbreviations					
	Н	= Plate height				
	Р	= Door protrusion				
	S	= Side arm protrusion				
I	Т	= Door thickness				
	W	= Side panel width				

1.3 66 Fixed distance

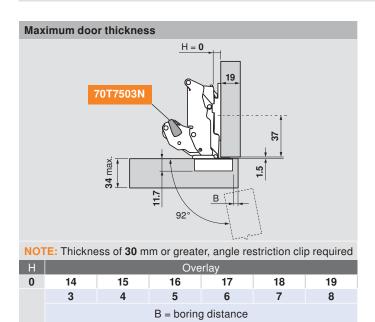
= 11

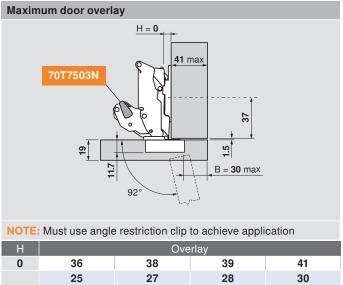


CLIP top 125° Special Applications

Hinges

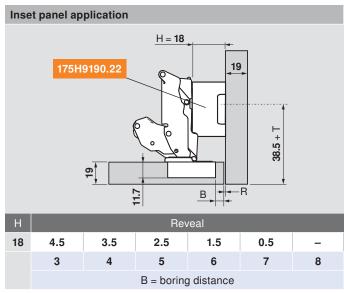


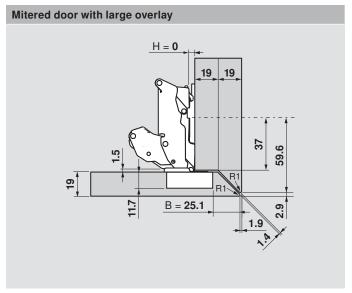




B = boring distance

NOTE: Inset application can also be achieved with a straight-arm hinge with a 18 mm plate. Setback of mounting plate would be 38.5 mm + door thickness.



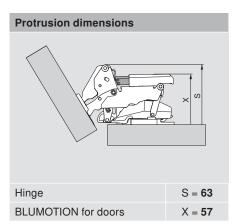


For all special applications, a trial application is always recommended

NOTE: Special applications can be achieved in face frame cabinets by blocking out behind the frame or use of the new CLIP wing plates (pages 61-62)









CLIP top 95° Inset Blind Corner



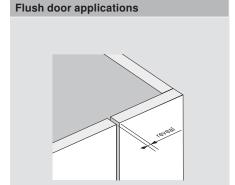


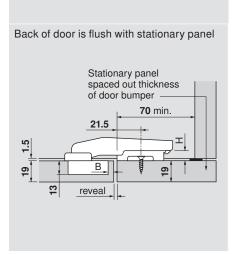
- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 24 (15/16")
- All metal hinge, nickel-plated

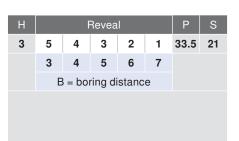
Minimum reveal table								
3	0.1	0.3	0.4	0.5	0.9	1.3		
4	0.1	0.3	0.4	0.5	0.9	1.3		
5	0.1	0.3	0.4	0.5	0.9	1.3		
6	0.1	0.3	0.4	0.5	0.9	1.2		
7	0.1	0.3	0.4	0.5	0.9	1.2		
B =	16	18	19	20	22	24		
boring distance	T = door thickness							

Thickness greater than 24 trial recommended



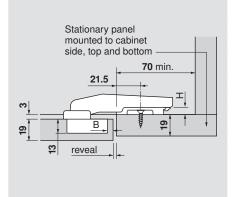






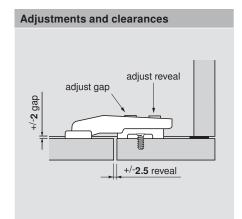
Inset blind corner	Self close
Screw-on	79T9550
Press-in	79T9580
INSERTA	79T9590B

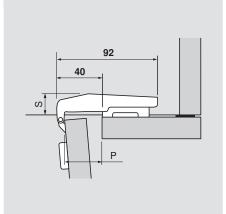
Offset door applications
The state of the s



Н		F	Р	S				
0	5	4	3	2	1	33.5	18	
	3	4						
	В	B = boi						

Inset blind corner	Self close
Screw-on	79T9550
Press-in	79T9580
INSERTA	79T9590B





Abbreviations					
Н	=	Plate height			
Р	=	Door protrusion			
S	=	Side arm protrusion			



CLIP top 95° Overlay Blind Corner

Hinges



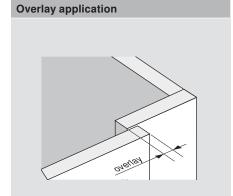


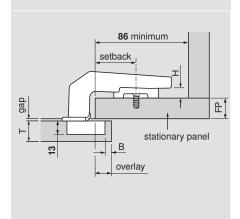
- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 24 (15/16")
- All metal hinge, nickel-plated

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 =	16	18	19	20	22	24		
boring distance T = door thickness								

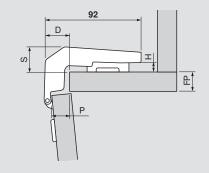
Thickness greater than 24 trial recommended







Adjustments and clearances
adjust overlay adjust overlay adjust overlay +/-2.5 overlay
92 D



NOTE: Door gap can be adjusted ± 2 mm

Setback	Overlay				Р	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		
	B = boring distance				=			

NO the Use and

	B = boring distance	= 9	
TE: [Door overlay varies depen	ding on	N
setba	ack position of the mounti	ng plate.	or
e the	table to select the desired	loverlay	m
d cros	ss-reference to the plate s	etback	cr
d hori	ng distance		th

and soming distances	
Overlay blind corner	Self close
INSERTA	79T9990B37

Н	Gap			S
0	7	4	1	21
3	4	1	_	24
6	1	-	-	27
	16			
	FP = front panel thickness			

OTE: The door gap varies depending n the stationary panel thickness and the nounting plate height. Use the table to ross-reference the plate height based on the front panel thickness and door gap.

Abbr	eviations
D	= Depth
FP	= Front panel thickness
Н	= Plate height
Р	= Door protrusion
S	= Side arm protrusion



CLIP top 120° Aluminum Door for BLUMOTION



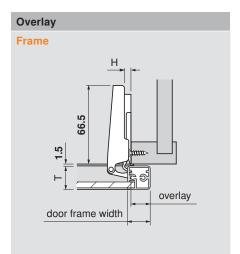


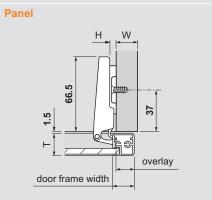
- For use with BLUMOTION 973A
- Three-dimensional adjustment
- For door thicknesses up to 22 (7/8")
- All metal hinge, nickel-plated

Minimum reveal table					
18	1.5	1.9	2.4	2.9	3.7
19	1.5	1.8	2.2	2.7	3.3
20	1.4	1.8	2.2	2.6	3.1
21	1.4	1.7	2.1	2.5	3.0
22	1.3	1.7	2	2.4	2.9
Door	18	19	20	21	22
frame width		T = dc	or thic	kness	

Thickness greater than 22 trial recommended



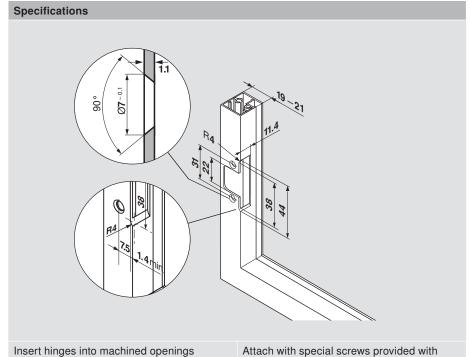


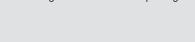


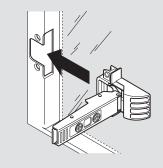
Н	Overlay	Р	S
0	15	8	19.5
3	12	11	22.5
4.5	10.5	12.5	24
6	9	14	25.5
9	6	17	28.5
	Fixed boring distance		

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

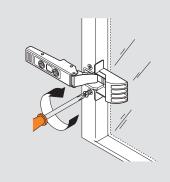
Straight-arm	Self close
Screw-on	73T550AB







Attach with special screws provided with hinges (699.110)





BLUMOTION 973A shown attached

Abbr	eviations
Н	= Plate height
Р	= Door protrusion
S	= Side arm protrusion
W	= Side panel width

CLIP top 120° **Aluminum Door**

Hinges





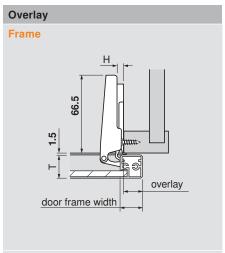
Features

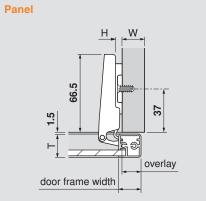
- Not for use with BLUMOTION 973A
- Three-dimensional adjustment
- For door thicknesses up to 22 (7/8")
- All metal hinge, nickel-plated



Minimum reveal table					
18	1.5	1.9	2.4	2.9	3.7
19	1.5	1.8	2.2	2.7	3.3
20	1.4	1.8	2.2	2.6	3.1
21	1.4	1.7	2.1	2.5	3.0
22	1.3	1.7	2	2.4	2.9
Door	18	19	20	21	22
frame width		T = dc	or thic	kness	

Thickness greater than 22 trial recommended

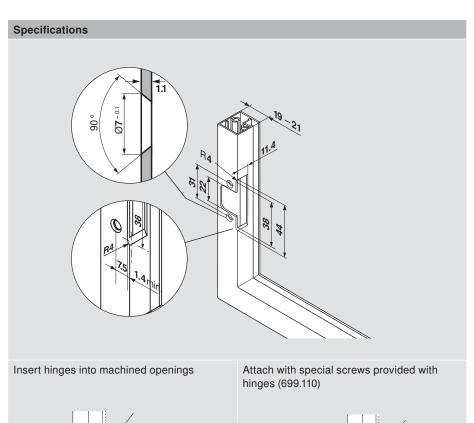




Н	Overlay	Р	S
0	15	8	19.5
3	12	11	22.5
4.5	10.5	12.5	24
6	9	14	25.5
9	6	17	28.5
	Fixed boring distance		

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

Straight-arm	Self close	Free swing
Screw-on	73T550A	72T550A.TL







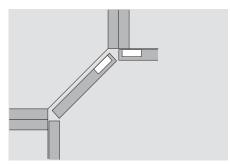
CLIP top 110° Diagonal 45°



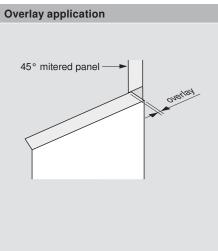


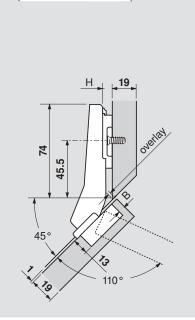
Features

- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 19 (3/4")
- All metal hinge, nickel-plated



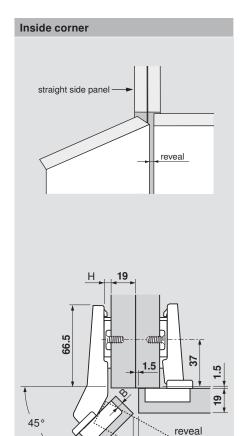
Thickness greater than 19 trial recommended





Н	Overlay								
0	1	4							
	3	4	5	6					
	B = boring distance								

Diagonal 45° hinges	Self close
Screw-on	79T5550
Press-in	79T5580
INSERTA	79T5590B



Н	Reveal							
0	6 5 4 3							
	3 4 5 6							
	B = boring distance							
NOTE: F	Reveal ba	sed on 1 9	9 (3/4") sid	de panel				

110°

Diagonal 45° hinges	Self close
Screw-on	79T5550
Press-in	79T5580
INSERTA	79T5590B

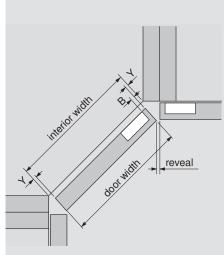
Calculating door width

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

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

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

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



Y = side gap								
5.5 4.5 3.5 2.5								
3	4	5	6					
B = boring distance								
NOTE: Bas	sed on 19 (3/4	4") door thick	ness					

Abbr	evia	tions
Н	=	Plate height
Υ	=	Side gap

CLIP top 95°

Hinges





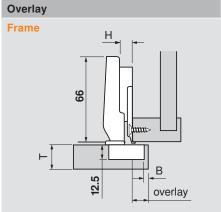
- For small doors or doors with small frames
- Side adjustment of +0.5 mm to -3.5 mm
- 26 mm drill bit required (1" cannot be used)
- Three-dimensional adjustment
- For door thicknesses up to 26 (1")
- All metal hinge, nickel-plated

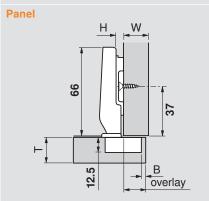






Thickness greater than 26 trial recommended

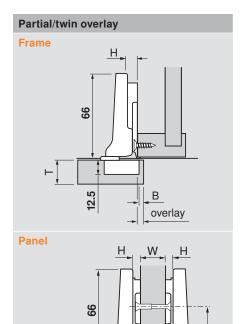




Н		Overlay	Р	S	
0	13	14	15	6	19
3	10	11	12	9	22
4.5	8.5	9.5	10.5	11	23.5
6	7	8	9	12	25
9	4	5	6	15	28
	3	4	5	Fix	
	B = boring distance			dista = 1	

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

Straight-arm	Self close
Screw-on	71T0550



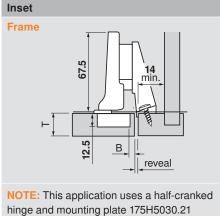
	reveal					
Н		Overlay		Р	S	
0	3.5	4.5	5.5	15.5	24	
	3	4	Fix dista			
	B – ho	orina dis	uista	_		

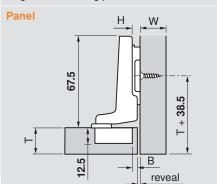
В

ιĊ

Н	Reveal			W	Р	S
	9	7	5	16		
0	12	10	8	19	15.5	24
	15	13	11	22		
	3	4	5			
	B = bo	ring dis	stance			

Half-cranked	Self close
Screw-on	71T0650





Н	Reveal			Р	S
0	5	4	3	24	32
	3	4	Fixed distance		
	B = bc	oring dis	dista	ince - 8	

Abbreviations				
Н	= Plate height			
Р	= Door protrusion			
S	= Side arm protrusion			
Т	= Door thickness			
W	= Side panel width			

Full-cranked	Self close
Screw-on	71T0750



CLIP top 95° Glass Door

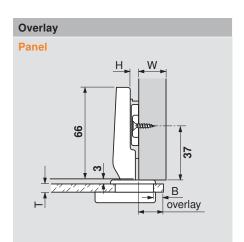


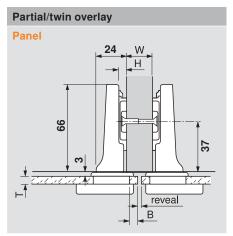


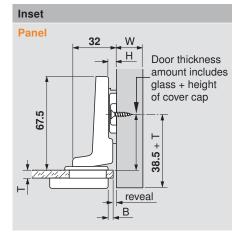
- For glass thickness of 4.5 mm to 7 mm
- Side adjustment of +0.5 mm to -3.5 mm
- Three-dimensional adjustment
- Fixing screws included (605.1100)
- 26 mm drill bit required (1" cannot be used)

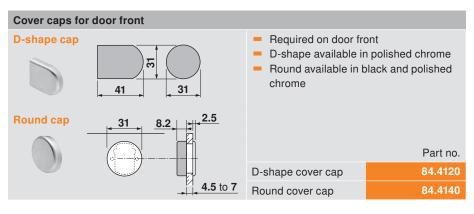
Minimum reveal table						
5.5	0	0	0	0		
6	0	0	0	0		
6.5	0	0	0	0		
7	0	0	0	0		
B = boring distance	4.5	5	6	7		
	T = door thickness					

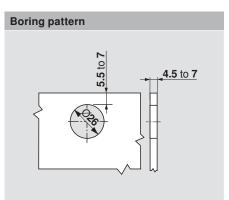
Thickness greater than 7 trial recommended











Н		Ove	Р	S		
0	15.5	16	16.5	17	6	19
3	12.5	13	13.5	14	9	22
6	9.5	10	10.5	11	12	25
9	6.5	7	7.5	8	15	28
	5.5	6	Fix			
	B =	boring	dista =	ince 10		

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

Н		Rev	/eal	W	Р	S	
	4	3	1	0.5	16		
0	7	6	5	4	19	15	24
	10	9	8	7	22		
	5.5	6	6.5	7		Fixed stance	•
	B =	borin	g dista	ance	ai	= . 5	е

0	2.5	2	1.5	1	23.5	32
	5.5	6	6.5	7	Fixed distance = -8	
	B =	boring	g distai	nce		
Abbre	viatior	ıs				
Н	= Plate height					
Р	= Door protrusion					
S	S = Side arm protrusion					
Т	= Door thickness					
W	= Side panel width					

Reveal

Straight-arm	Self close
Screw-on	75T4100

Half-cranked	Self close
Screw-on	75T4200

Full-cranked	Self close
Screw-on	75T4300

CLIP top 60° **Bi-Fold**

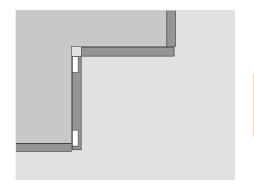
Hinges

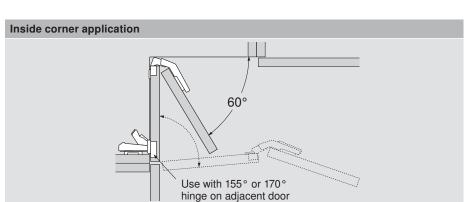


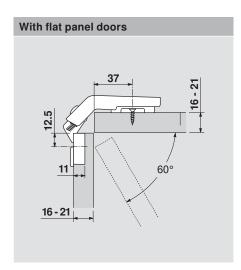


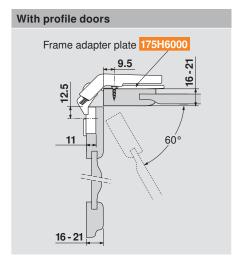


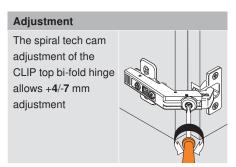
- Spiral tech depth adjustment for in/out
- Four-dimensional adjustment
- All metal hinge, nickel-plated











Bi-fold hinges	Self close
Screw-on	79T8500.10
Press-in	79T8530.10

General specifications 37 35 mm bore

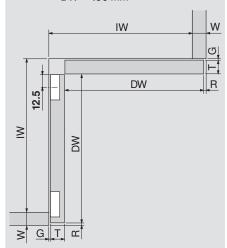
Calculating door sizes

The doors for a CLIP top bi-fold application can be of equal or unequal width. To calculate the door width (DW) of each door follow the step-by-step below.

- Step 1. Add the interior width to the side panel width (W)
- Step 2. Subtract door thickness (T) and reveal (R)
- Step 3. Subtract gap (G) and bumper thickness behind adjacent door

Formula: DW = (IW + W) minus T minus R minus G

Example: DW = (500 + 19) - 19 - 3 - 1DW = 496 mm



Abbr	Abbreviations			
DW	= Door width			
G	= Gap			
Н	= Plate height			
IW	= Interior width			
R	= Reveal			
Т	= Door thickness			
W	= Side panel width			



CLIP 107°



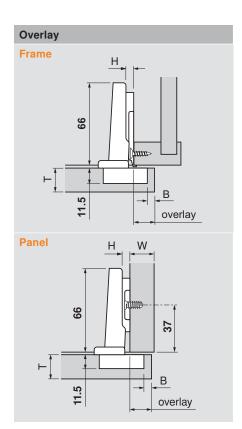


- Three-dimensional adjustment
- For door thicknesses up to 22 (7/8")
- 86° angle restriction clip available (74.1103)
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

Minimum reveal table							
3	0.6	1.0	1.3	1.7	2.5		
4	0.6	1.0	1.3	1.6	2.4		
5	0.6	1.0	1.2	1.5	2.2		
6	0.6	1.0	1.2	1.4	2.0		
B = boring distance	16	18	19	20	22		
	T = door thickness						

Thickness greater than 22 trial recommended





Н		Ove	Р	S		
0	14	15	10	21		
3	11	12	13	14	13	24
4.5	9.5	10.5	11.5	12.5	14.5	25.5
6	8	9	10	11	16	27
9	5	6	19	30		
	3 4 5 6				Fix	
	B = boring distance				dista =	

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

Straight-arm	Self close
Press-in	75M1580

Abbre	eviations
Н	= Plate height
P	= Door protrusion
· ·	•
S	= Side arm protrusion
Т	= Door thickness
W	= Side panel width







Features

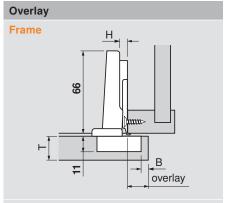
- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 24 (15/16")
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

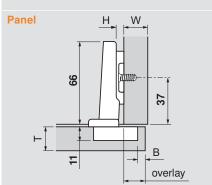
CLIP 100°

Minimum reveal table						
3	0.5	0.9	1.1	1.4	2.3	3.6
4	0.5	0.8	1.0	1.3	2.0	3.3
5	0.4	0.8	1.0	1.2	1.8	3.0
6	0.4	0.8	0.9	1.1	1.7	2.8
B =	16	18	19	20	22	24
boring distance		T =	door	thickn	ess	

Thickness greater than 24 trial recommended



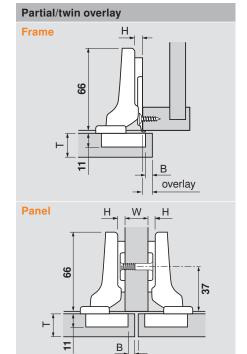




Н		Ove	Р	S		
0	14	15	16	17	9	20
3	11	12	13	14	12	23
4.5	9.5	10.5	11.5	12.5	13.5	24.5
6	8	9	10	11	15	26
9	5	6	7	8	18	29
	3	4	Fix			
	B = boring distance				dista =	

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

Straight-arm	Self close	Free swing
Screw-on	71M2550	70M2550.TL
Press-in	71M2580	70M2580.TL
INSERTA	71M2590B	



Н		Overlay				S
0	4.5	5.5	6.5	7.5	18.5	30
	3	4	5	6	Fix	
	B =	= boring	ice	dista = 1		

reveal

Н	Reveal				W	Р	S
	7	5	3	1	16		
0	10	8	6	4	19	18.5	30
	13	11	9	7	22		
	3	4	5	6			
	B = boring distance						

Half-cranked	Self close	Free swing
Screw-on	71M2650	70M2650.TL
Press-in	71M2680	
INSERTA	71M2690B	

Inset
Frame 14 min. reveal
NOTE: This application uses a half-cranked hinge and mounting plate 175H5030.21
Panel H + 38.5

Н		Rev	Р	S		
0	4	3	2	1	27	38
	3	4	Fix			
	B = boring distance				_	

В

reveal

Abbre	Abbreviations					
Н	= Plate height					
Р	= Door protrusion					
S	= Side arm protrusion					
Т	= Door thickness					
W	= Side panel width					

Full-cranked	Self close	Free swing			
Screw-on	71M2750	70M2750.TL			
Press-in	71M2780	70M2780.TL			
INSERTA	71M2790B				

Angled hinges from +45° to -45°

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

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

Step 1.

On page 47, 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 48 to 54 are in numerical order and show all the details.

Angled Hinges CLIP top BLUMOTION and CLIP top



Positive Angle Hinges





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

Negative Angle Hinges



Standard Thick Door Hinges Used in Angled Applications



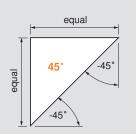
Angled Spacer Wedges for Positive and Negative Angled Hinges

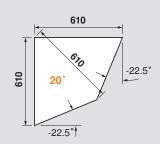


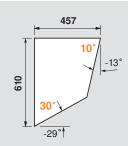
Angled Cabinet Configurations

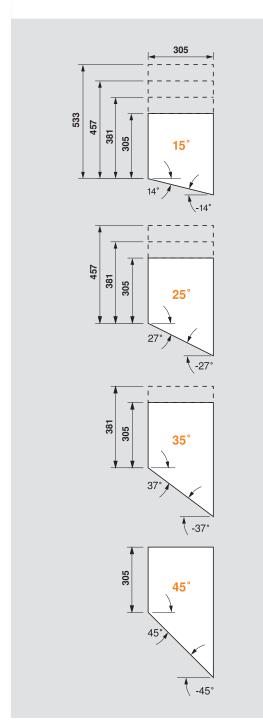
ablum°

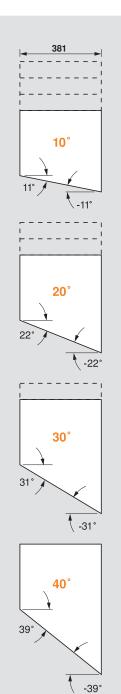
Match desired configuration to angle-to-style cross-reference chart on page 47

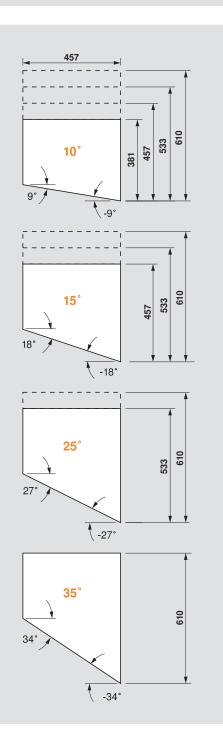








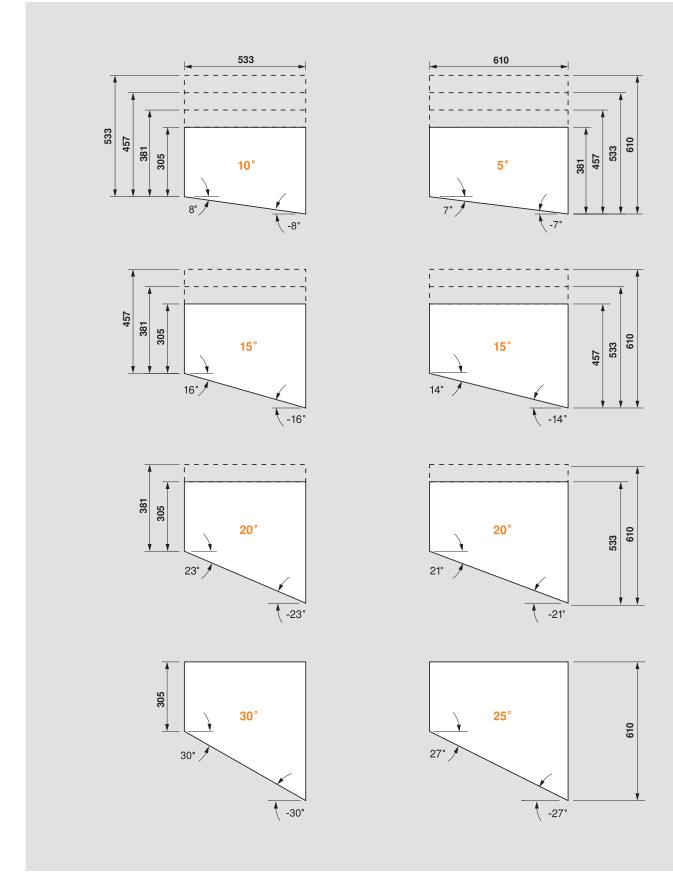






Match desired configuration to angle-to-style cross-reference chart on page 47

Angled Cabinet Configurations



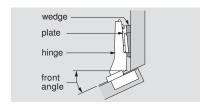
Angle-to-Style Cross-Reference



Application number

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

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

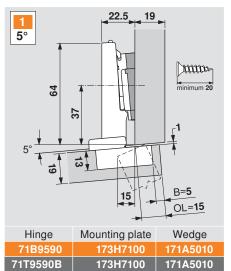


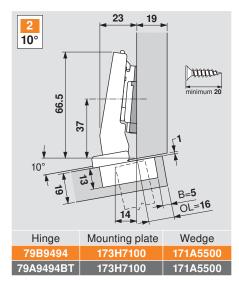
	Positive angles						Negative angles	
	1						J	
	Maximum overlay	Partial overlay	Corner merge	Inset door	Mitered corner		Maximum overlay	Inset door
	1	10	19	27			42	51
	71B9590	71B9590	71B9690	71B9790			71B9590	71B9690
5°	71T9590B	71T9590B	71T9690B	71T9790B		5°	71T9590B	71T9690B
	173H7100	173H7100	173H7100	173H7100			173H7100	173H7100
	171A5010	171A5010	171 A 5070	171A5010			171A5500	171 A5500
	2	11	20	28			43	52
	79B9494	79B9494	79B9494	79B9494			79B3493	79B3493
10°	79A9494BT	79A9494BT	79A9494BT	79A9494BT		10°	79A5493BT	79A5493BT
	173H7100	173H7100	175H9190.22	175H9190.22			173H7100	175H7190
	171A5500	171A5500	171 A5500	171A5500			171A5010	171 A 5010
	3	12	21	29	36		44	53
	79B9494	79B9494	79B9595	79B9595	79B9595		79B3493	79B3493
15°	79A9494BT	79A9494BT	79A9595BT	79A9595BT	79A9595BT	15°	79A5493BT	79A5493BT
	175H9160	175H9190	173H7130	175H9190	173H7100		173H7100	175H9190.22
			171A5500	171 A5500	171A5500			
	4	13	22	30	37		45	54
	79B9494	79B9595	79B9595	79B9595	79B9595		79B3493	79B3493
20°	79A9494BT	79A9595BT	79A9595BT	79A9595BT	79A9595BT	20°	79A5493BT	79A5493BT
	173H7100	173H7100	175H9190	175H9190.22	175H9160		173H7100	175H9160
	171A5070						171A5500	171 A5500
	5	14	23	31	38		46	55
	79B9496	79B9595	79B9596	79B9596	79B9596		79B3491	79B3491
25°	79A9496BT	79A9595BT	79A9596BT	79A9596BT	79A9596BT	25°	79A5491BT	79A5491BT
	173H7100	173H7100	173H7100	175H9190.22	173H7100		173H7100	175H7190
	171A5500	171 A5010	171A5500		171A5500		171A5040	171A5070
	6	15	24	32	39		47	
30°	79B9496	79B9596	79B9596	79B9596	79B9596	30°	79B3491	
30	79A9496BT	79A9596BT	79A9596BT	79A9596BT	79A9596BT	30	79A5491BT	
	175H9160	173H7100	175H9190	175H9190.22	173H7130		173H7130	
	7	16	25	33	40		48	
	79B9496	79B9596	79B9596	79B9596	79B9596		79B3491	
35°	79B9496BT	79A9596BT	79A9596BT	79A9596BT	79A9596BT	35°	79A5491BT	
	173H7100	173H7100	173H7100	175H9190.22	173H7100		173H7100	
	171A5070	171A5010	171A5070	171A5010	171A5040		171A5500	
	8	17		34			49	
	79B9498	79B9498		79B9698			79B3490	
40°	79A9498BT	79A9498BT		79A9698BT		40°	79A5490BT	
	173H7100	175H9160		175H9190			173H7100	
	171A5500	171A5500		171 A5500			171A5040	
	9	18	26	35	41		50	56
	79B9498	79B3598	79B9698	79B3598	79B9698		79B3490	79B3490
45°	79A9498BT	79T5590B	79A9698BT	79T5590B	79A9698BT	45°	79A5490BT	79A5490BT
	175H9160	173H7100	173H7100	175H9190.22	173H7100		173H7130	175H7190
								181.6130

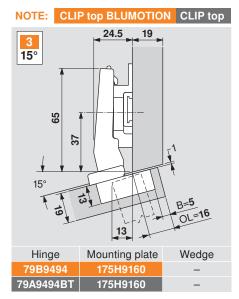
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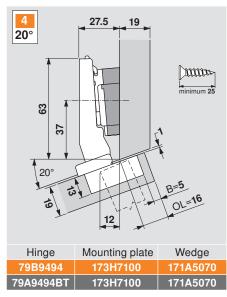
Hinges

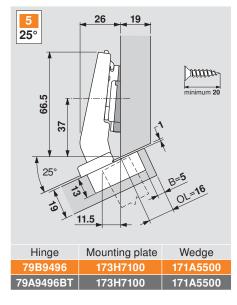


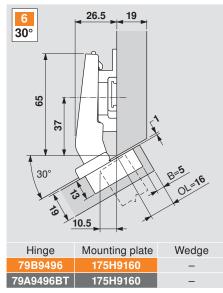


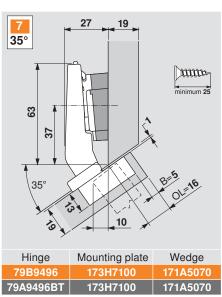


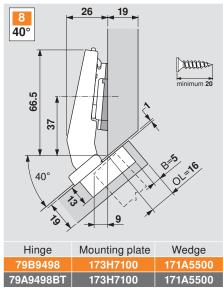


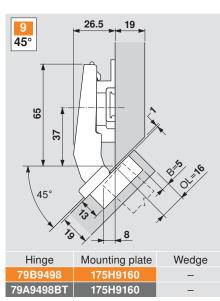










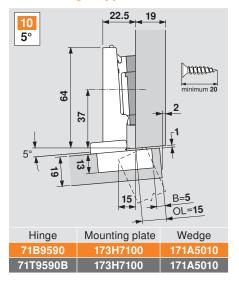


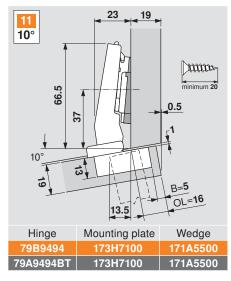
Hinges

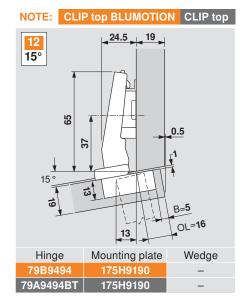


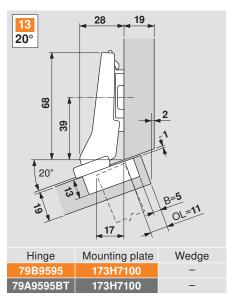
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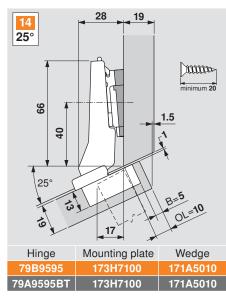


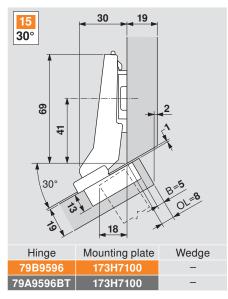


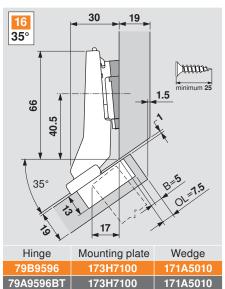


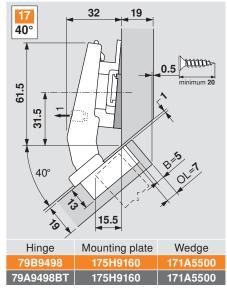


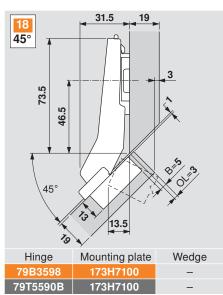








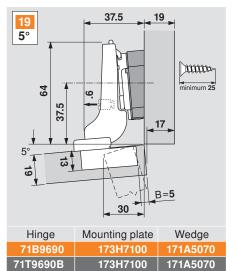


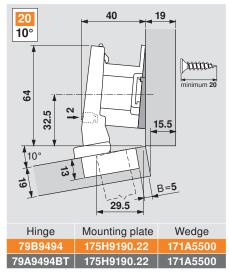


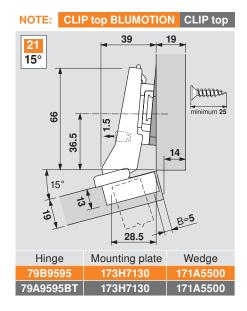
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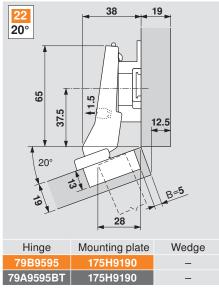
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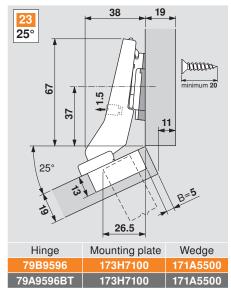


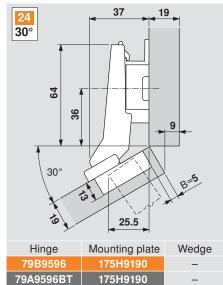


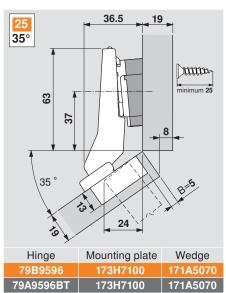


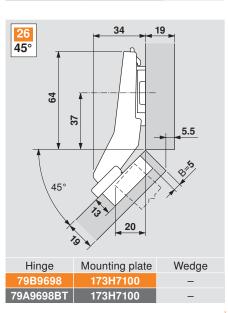










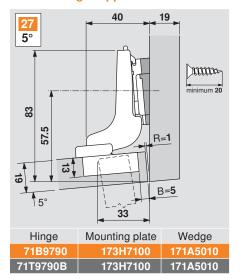


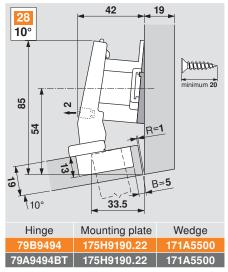
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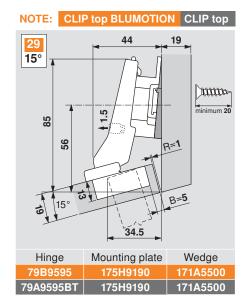


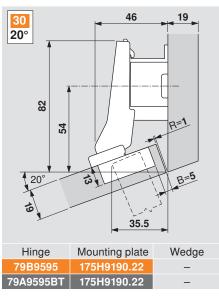
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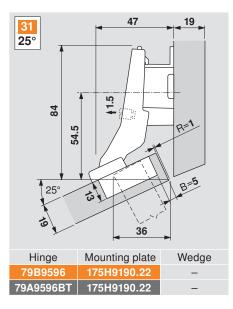


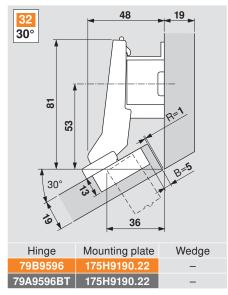


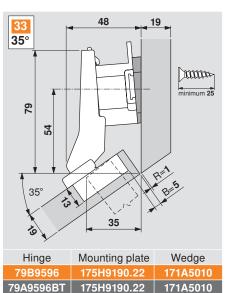


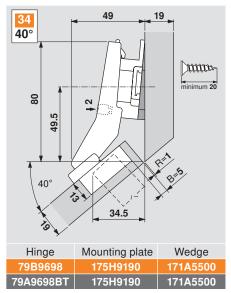


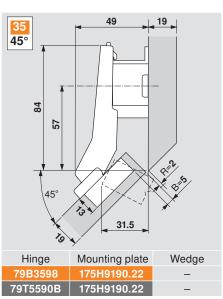








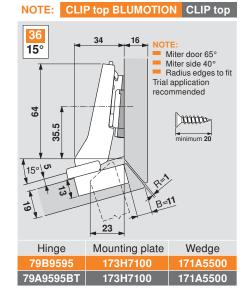


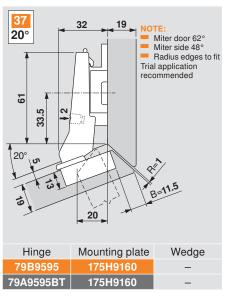


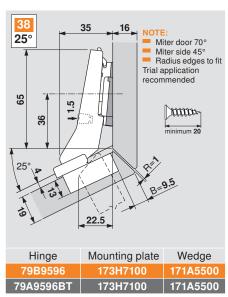
Mitered Corner Specifications

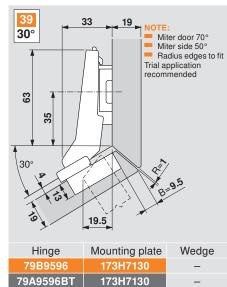
Hinges Ablum

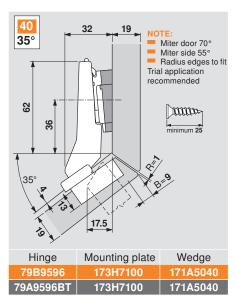


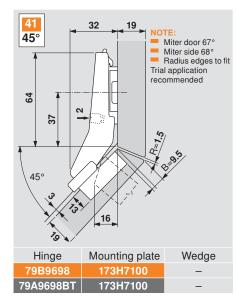












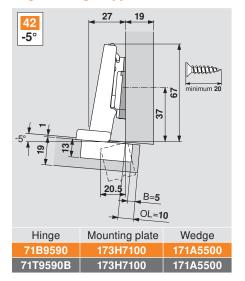
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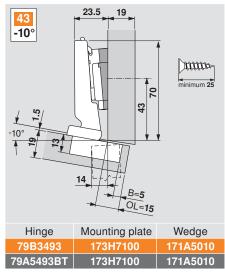


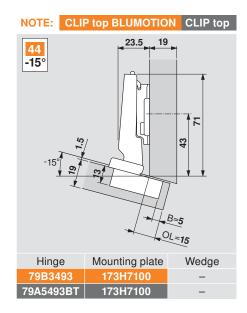
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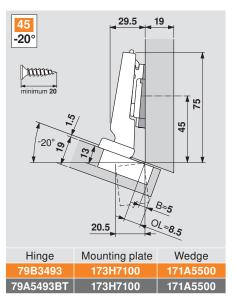


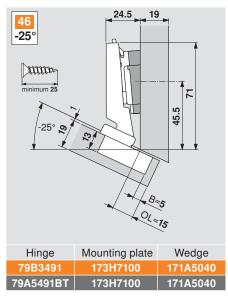
Negative Angle Applications

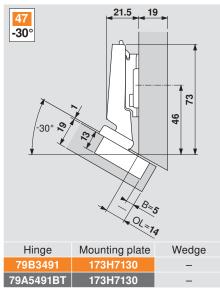


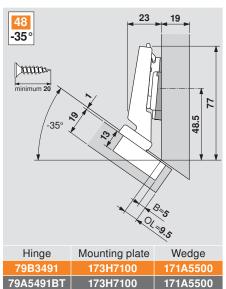


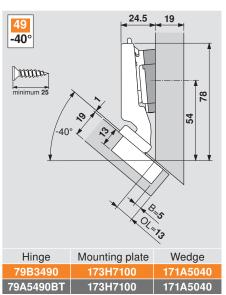


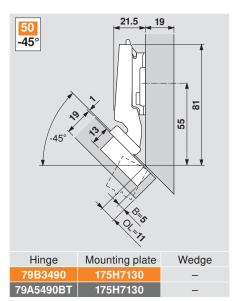








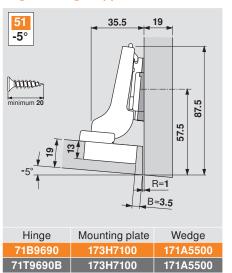


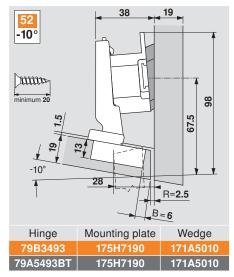


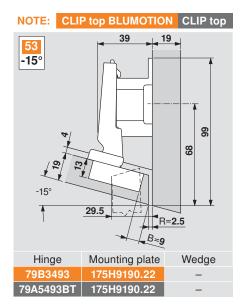
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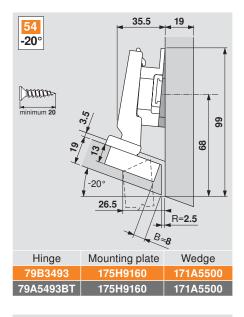
Hinges Ablum

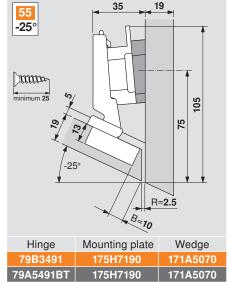
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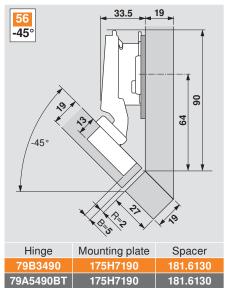


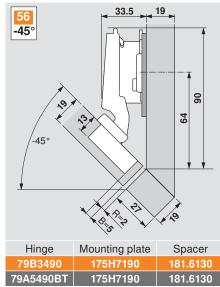






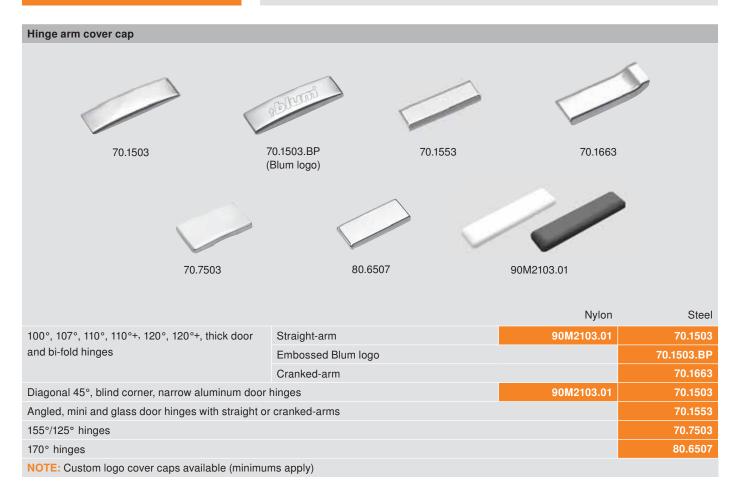






CLIP Accessories





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
- Non-stackable
- Gray nylon



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
- Steel, nickel-plated



Part no.

Hinge cup cover cap

3 mm spacer

70T3504

Hinge cup cover cap

- For use with CLIP top hinges only
- Suitable for screw-on, press-in and EXPANDO hinge cups for CLIP top 107°, 120°, 120°+, thick door and blind corner hinges
- Clip on attachment/removal
- Steel, nickel-plated



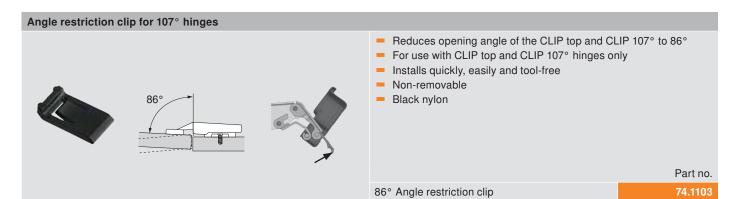
Part no.

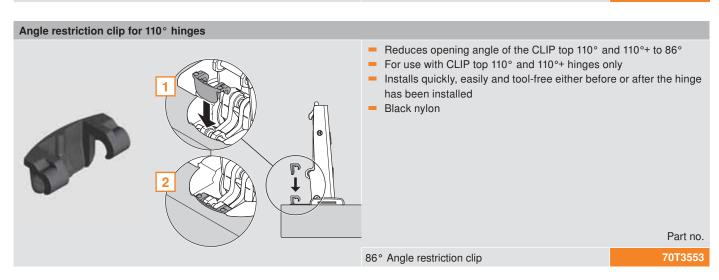
Hinge cup cover cap

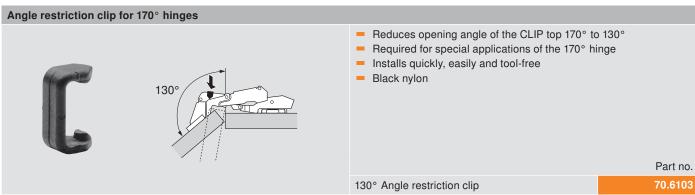
Reduces overlays by 3 mm Mounts under CLIP wing mounting plates Stackable Gray nylon Part no. 181.6130 3 mm spacer

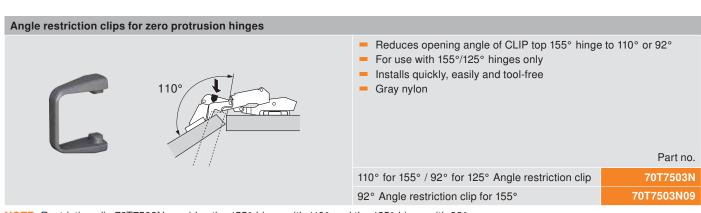
Angle Restriction Clips

Hinges Ablum









CLIP Mounting Plates



Standard one-piece wing mounting plates **Wood screw** Steel, nickel-plated Attached with #6 x 5/8" wood screws Height adjustment ±3 mm Part no. 0 plate height (H) 173L6100 173L6130 3 plate height (H) **System screw** Steel, nickel-plated Attached with pre-mounted Ø5 mm system screws (668.1450.EH) Height adjustment ±3 mm Part no. 173L8100 0 plate height (H) 3 plate height (H) 173L8130 **EXPANDO** Steel, nickel-plated Attached with pre-mounted screws with EXPANDO dowels (618.1500) Height adjustment ±2 mm Part no. 0 plate height (H) 174E6100.01 **EXPANDO** (twin application) Steel, nickel-plated Attached with pre-mounted screws with EXPANDO dowels for twin application (618.1500) Height adjustment ±2 mm 32 Part no. 174E610Z 0 plate height (H) System screw Zinc die-cast, nickel-plated Attached with pre-mounted Ø5 mm system screws (668.1450.EH) Height adjustment ±3 mm Part no. 0 plate height (H) 175L8100 3 plate height (H) 175L8130 9 plate height (H) 175L8190

^{*}Add additional wood screw if used with wide angled hinges

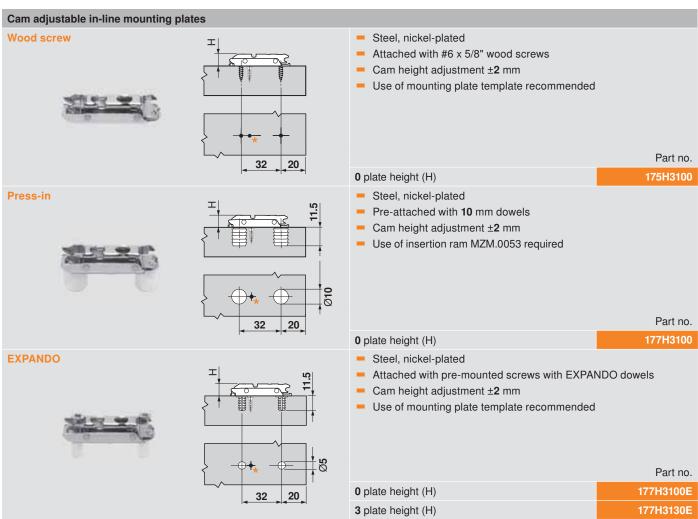
CLIP Mounting Plates

Cam adjustable wing mounting plates **Wood screw** Steel, nickel-plated Attached with #6 x 5/8" wood screws Cam height adjustment ±2 mm 32 Part no. 0 plate height (H) 173H7100 173H7130 3 plate height (H) Steel, nickel-plated **System screw** Attached with #7 x 5/8" wood screws or Ø5 x 13 mm system screws Cam height adjustment ±2 mm Part no. 173H9100 0 plate height (H) 3 plate height (H) 173H9130 **EXPANDO** Steel, nickel-plated Attached with pre-mounted screws with EXPANDO dowels (618.1500) Cam height adjustment ±2 mm Part no. 174H7100E 0 plate height (H) 3 plate height (H) 174H7130E **EXPANDO** (twin application) Steel, nickel-plated Attached with pre-mounted screws with EXPANDO dowels for twin application (618.1500) Cam height adjustment ±2 mm Part no. 37 174H710ZE 0 plate height (H) **INSERTA** Steel (closing lever – zinc die-cast, nickel-plated) Tool-free assembly with INSERTA self-anchoring feature Cam height adjustment ±2 mm Part no. 174H7100I 0 plate height (H) 174H7130I 3 plate height (H)

CLIP Mounting Plates



Standard two-piece wing mounting plates **Wood screw** Zinc die-cast, nickel-plated Attached with #6 x 5/8" wood screws Height adjustment ±2 mm Part no. 0 plate height (H) 3 plate height (H) 175H7130 26 37 175H7190 9 plate height (H) Zinc die-cast, nickel-plated **System screw** Attached with #7 x 5/8" wood screws or Ø5 x 13 mm system screws Height adjustment ±2 mm Part no. 175H9100 0 plate height (H) 3 plate height (H) 175H9130 6 plate height (H) 175H9160 175H9190 9 plate height (H) 26 37 175H9190.22 18 plate height (H)



^{*}Add additional wood screw if used with wide angled hinges

Face Frame Adapter Plates



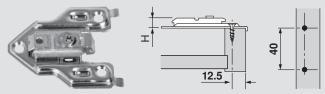
Face frame adapter plates

Cam adjustable center mount





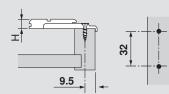
Cam adjustable off-center mount

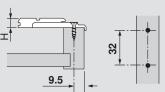


Center mount

Off-center mount







32

3 plate height (H)

Attached with #7 x 3/4" wood screws

Off-center mount 12.5 (1/2")

Height adjustment ±2 mm

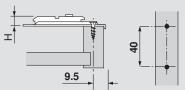
175L6600.22 0 plate height (H) 175L6630.22 3 plate height (H)

6 plate height (H)

175L6660.22 Recommended when using 170° and zero protrusion hinges on face

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





can be used with this plate



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

- 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

- 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. 175L6030.21

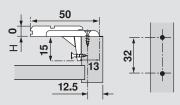
Part no.

Part no.

Zinc die-cast, nickel-plated

With flange





12.5

- frame cabinets

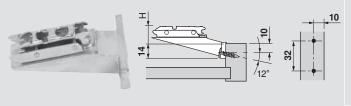
 - Height adjustment ±2 mm

175L6600.24 0 plate height (H)

NOTE: Use of PLATEMATE required with all face frame adapter plates. Reference page 98

Inset face frame adapter

Truss head screw



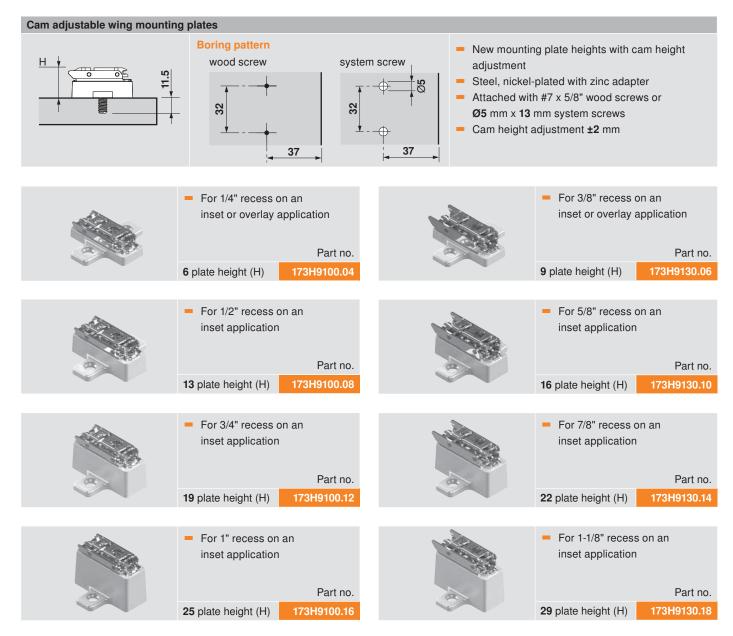
- Zinc die-cast, nickel-plated
- Attached with #8 x 3/4" truss head screws
- Can be used with applied bead molding
- Cam height adjustment ±2 mm
- Use with half-cranked hinges only
- Wide angle hinges not recommended
- Use of PLATEMATE required for installation

Part no.

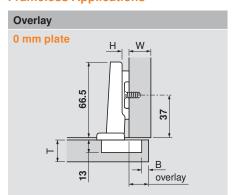
9 plate height (H) 175H5030.21

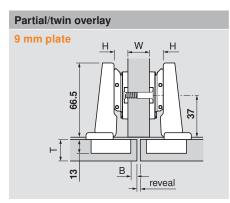
CLIP Wing Mounting Plates

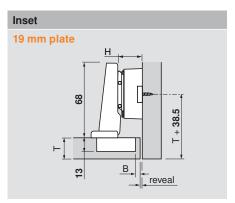




Frameless Applications





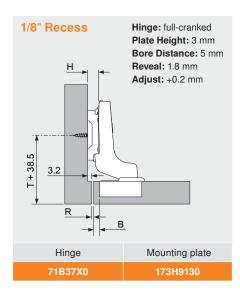


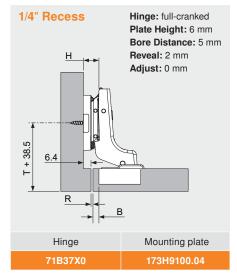
NOTE: With our new CLIP wing mounting plate program, all three of the common frameless applications, (full overlay, half overlay and inset) can be achieved with a straight-arm hinge and cam height adjustment. An alternative inset application, includes the use of a half-cranked hinge and 9 mm cam height adjustment mounting plate.

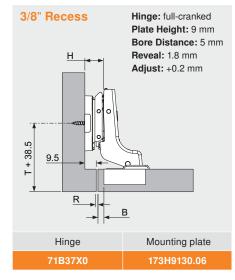
Inset Applications for Face Frame

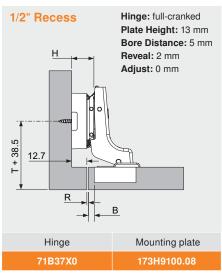
Hinges

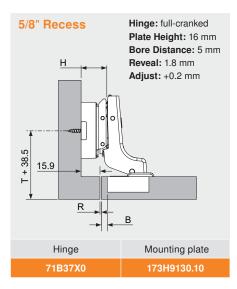


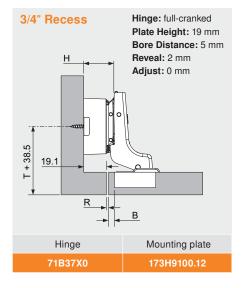


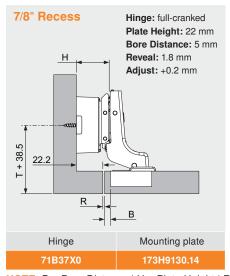


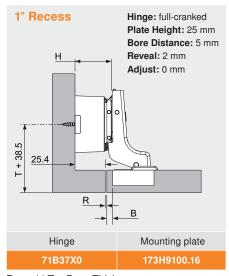


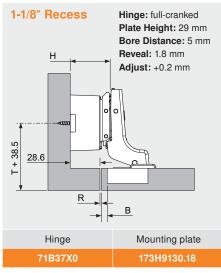








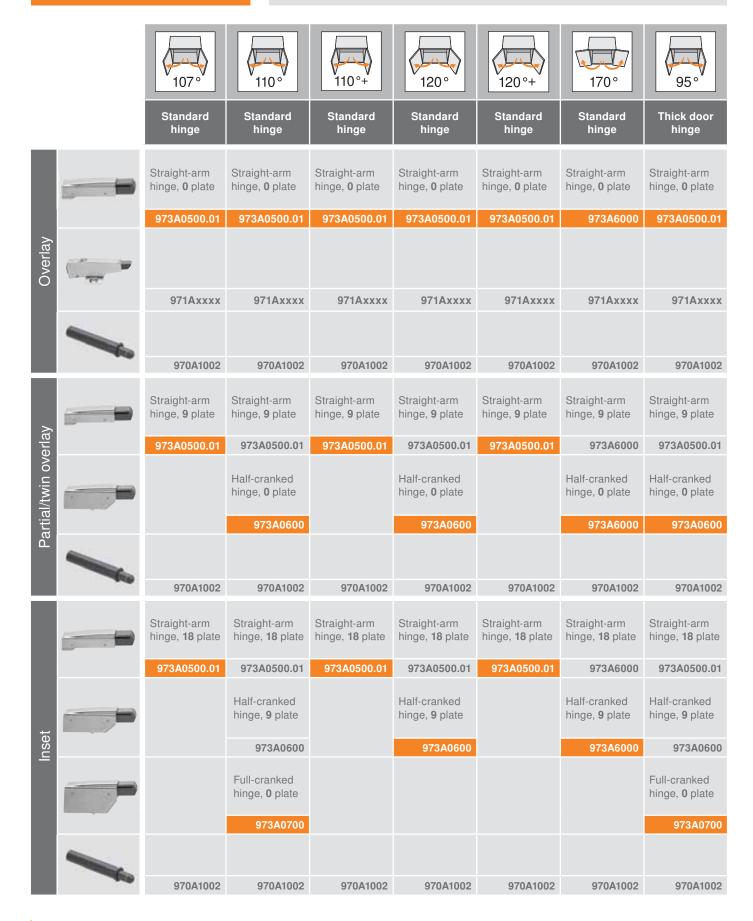




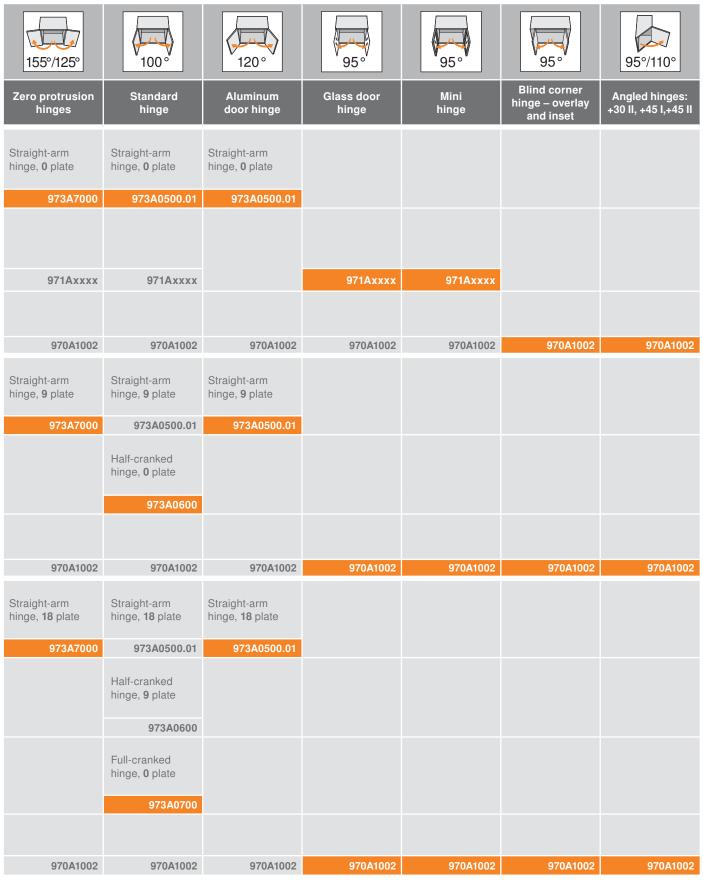
NOTE: B = Bore Distance | H = Plate Height | R = Reveal | T = Door Thickness

BLUMOTION for doors Overview for CLIP Hinges

Ablum







Hinges

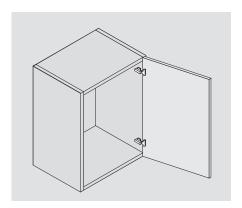


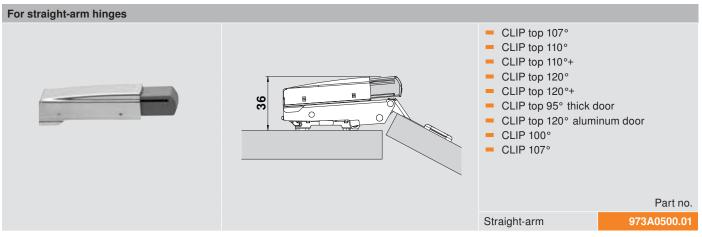
BLUMOTION 973A for CLIP Hinges

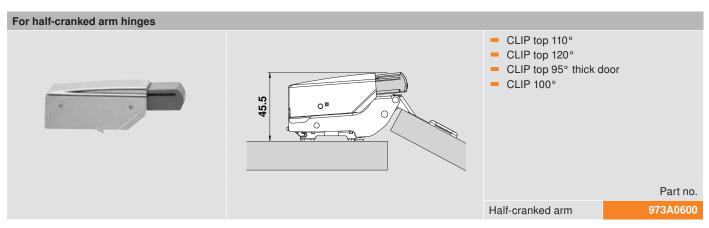


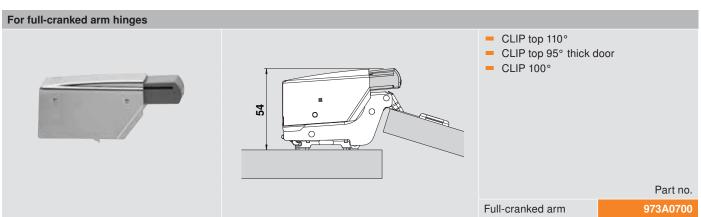
Features

- Soft-closing feature for CLIP top and **CLIP** hinges
- Offers the same quality of motion as drawer systems with BLUMOTION
- Automatically adjusts to the closing force of the door
- Simple attachment to the hinge arm
- Designed for use with Blum CLIP hinges only
- Nickel-plated steel and gray nylon



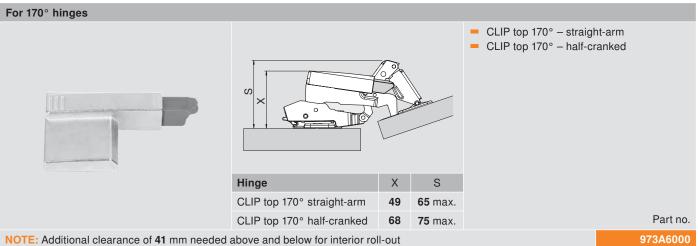


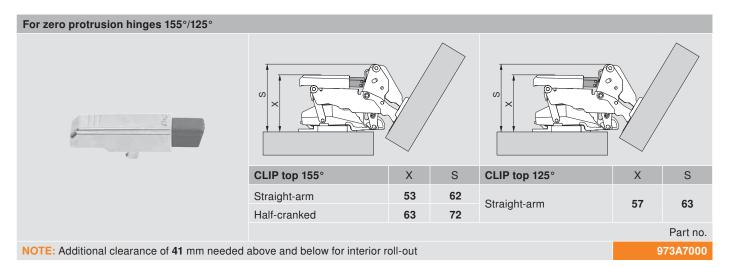


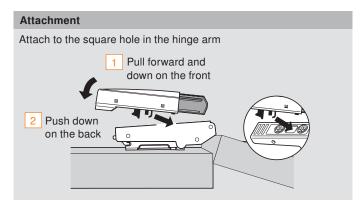


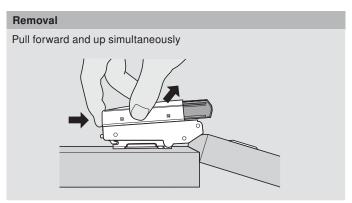
Ablum

Specifications



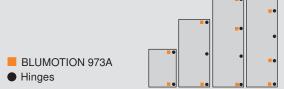






BLUMOTION per door

- BLUMOTION 973A is designed for one BLUMOTION per self closing hinge, however, quantities may vary depending on door size and weight
- Small or light doors may only require one BLUMOTION
- Trial application recommended



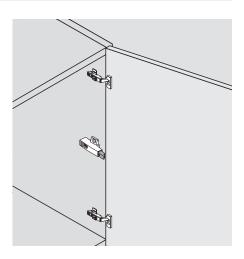


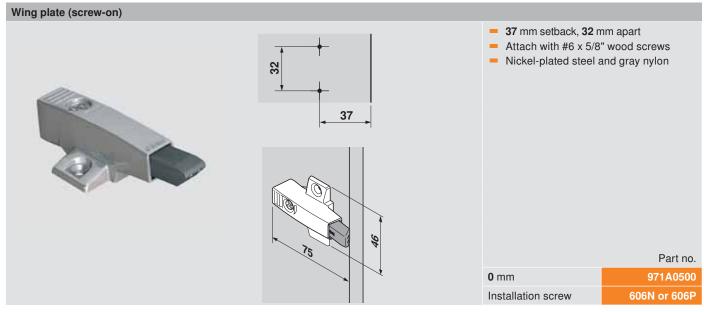
BLUMOTION 971A for CLIP Hinges

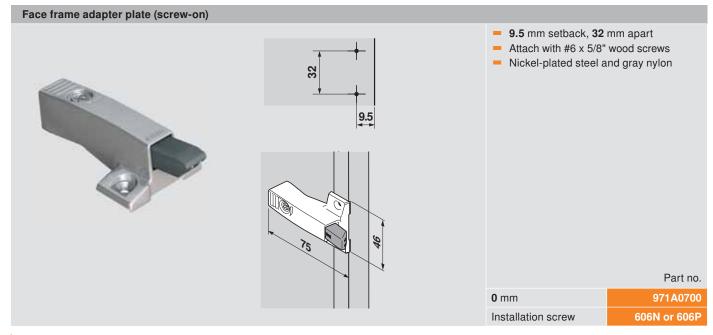


Features

- Soft-closing feature for CLIP top and CLIP straight-arm hinges
- Offers the same quality of motion as drawer systems with BLUMOTION
- Adjustable to various door sizes and weights (+3/-7 mm range)
- Installed onto hinge-side panel
- For use with straight-arm hinge and either 0 mm or 3 mm mounting plate only
- Nickel-plated steel and gray nylon



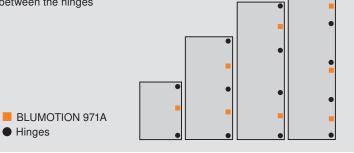




Specifications

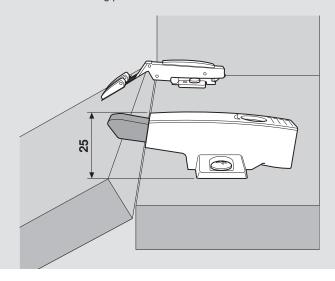
BLUMOTION per door

- For optimum BLUMOTION effect, BLUMOTION 971A should be installed onto the hinge-side panel centered between the two hinges
- Tall or heavy doors may require an additional BLUMOTION 971A between the hinges
- Trial application recommended



0 mm BLUMOTION application

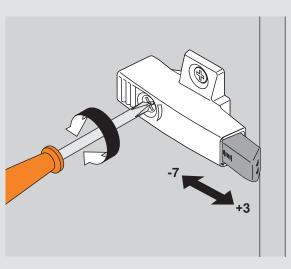
For all hinges with a straight-arm and a 0 mm mounting plate



General Specifications

Adjustment

- Use a Phillips or POZI screwdriver to adjust the contact point in or out (+3/-7 mm)
- Adjust out for larger, heavier doors or adjust in for smaller, lighter doors



Hinges

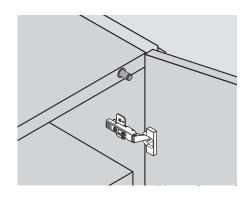


BLUMOTION 970A for CLIP Hinges



Features

- Soft-closing feature for CLIP top and **CLIP** hinges
- Offers the same quality of motion as drawer systems with BLUMOTION
- Automatically adjusts to the closing force of the door
- Installed into the top and/or bottom panel or with adapter plates on hinge-side
- Gray nylon

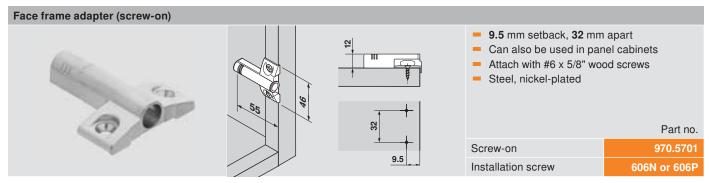


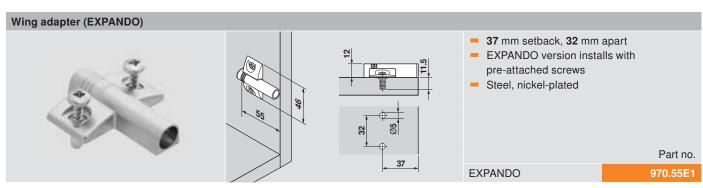


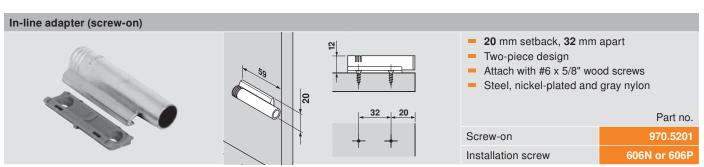
BLUMOTION per door

- BLUMOTION 970A is designed for two BLUMOTION per door, however, one may be enough depending on door size and weight
- Small or light doors may only require one BLUMOTION
- Trial application recommended
 - BLUMOTION 970A
 - Hinges



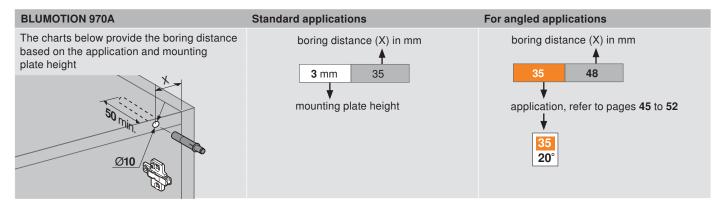






General Specifications





Standard Application

	Overla boring	ay distance	Twin boring distance		Inset boring	ı distance	Inset with straight-arm boring distance	
	0 mm	32	0 mm	41	0 mm	50	18 mm	50
Mounting plate height	3 mm	35	3 mm	44	3 mm	53		
	6 mm	38	6 mm	47				
	9 mm	41	9 mm	50				

Blind Corner Applications

		blind corner distance	Overlay blind corne boring distance			
			0 mm	32		
Mounting plate height	3 mm	51	3 mm	35		
			6 mm	38		

Angled Applications (reference angle applications page (47 to 54)

	1 (1)	x. overlay ing distance		tial overlay ing dist.		rner merge ing distance	Inse	et ng distance	(1)	ered corner ing distance
5°	1	33	10	33	19	48	27	48	36	45
10°	2	33	11	33	20	48	28	48	37	45
15°	3	33	12	33	21	48	29	48	38	45
20 °	4	33	13	37	22	48	30	48	39	45
25°	5	33	14	37	23	48	31	48	40	45
30°	6	33	15	41	24	48	32	48	41	45
35°	7	33	16	41	25	48	33	48		
40°	8	33	17	41			34	48		
45°	9	33	18	41	26	48	35	48		
-5°	42	37					51	48		
-10°	43	33					52	54		
-15°	44	33					53	54		
-20°	45	37					54	54		
-25 °	46	33					55	54		
-30°	47	33								
-35°	48	37								
-40°	49	37								
-45°	50	37					56	54		



Mounting

The TIP-ON unit can be either bored into the cabinet end panel or a attached to the cabinet interior using adapter plates.



Catch plate

The catch plate is the counterpart to TIP-ON. It is available in self-adhesive or screw-on versions.



Hinges

Free swing hinges are used with TIP-ON for doors with magnet/ self close hinges are used with TIP-ON for doors with bumper.



Doors can be opened easily with TIP-ON – a light touch is all that's needed

- Designed for panel or face frame (blocked out) cabinet applications
- Works with CLIP top BLUMOTION, CLIP top, CLIP, COMPACT BLUMOTION and COMPACT
- Can be bored into the side panel or used with an adapter plate
- Easy depth adjustment for proper door gap setting
- Works for both overlay and inset applications
- Quick and easy installation
- Increased design options
- Requires minimal force to open and close

Tool-Free Door Gap Adjustment

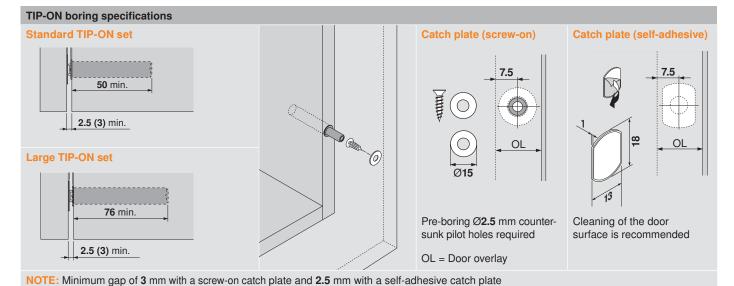
The adjustment feature (+4/-1 mm) has been incorporated into the TIP-ON unit so even when TIP-ON is inserted into the cabinet, it has an integrated gap adjustment. To adjust gap, turn the ejector pin. The click-stop positions allow you to easily find the right setting.

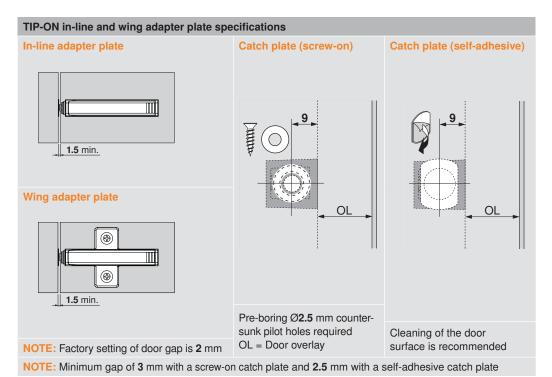
General Specifications

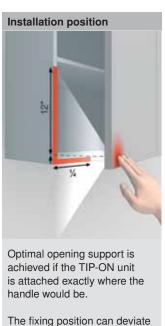












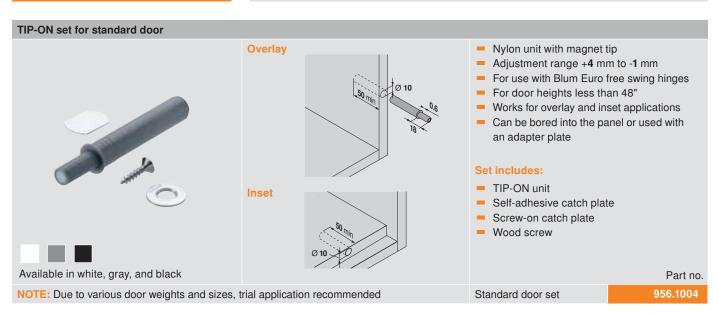
±12" in height and up to a

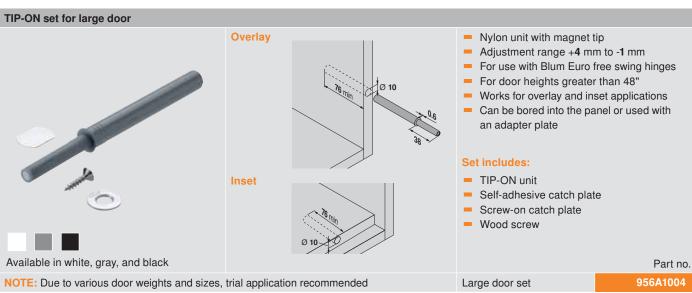
terms of width.

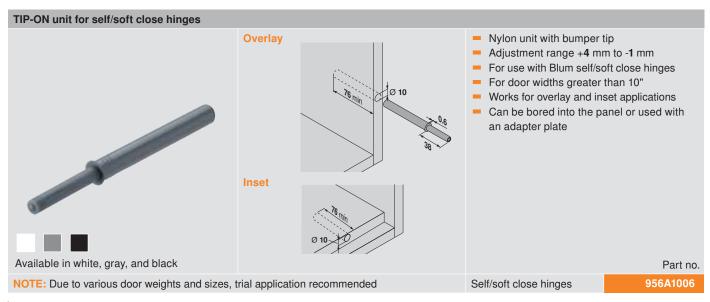
quarter of the cabinet width in

TIP-ON for doors





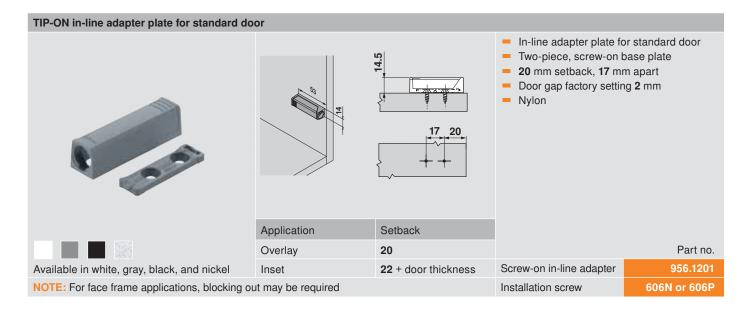


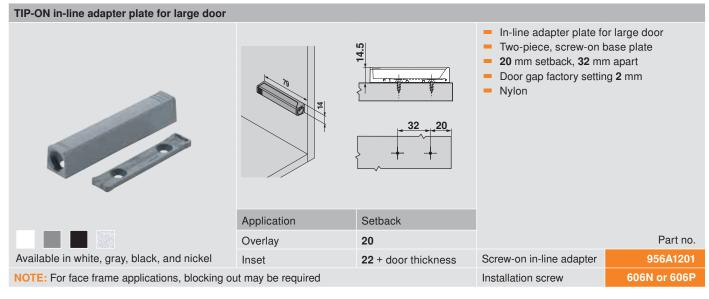


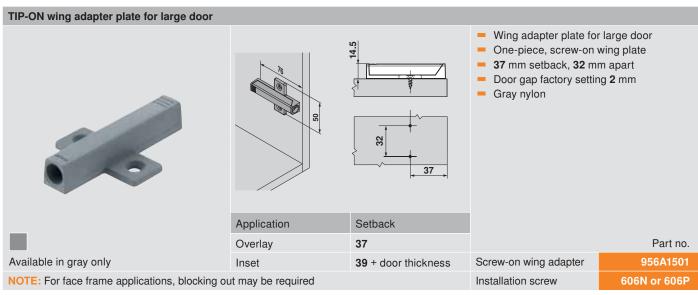
General Specifications

Hinges









COMPACT BLUMOTION and COMPACT hinges A complete face frame program

Blum's COMPACT hinges program has proven itself as the high quality solution for face frame cabinets for over 30 years and continue to provide the quality of motion you have come to expect from Blum hardware.

COMPACT BLUMOTION hinges have the soft closing mechanism integrated directly in the hinge cup. They are available for most overlay face frame applications or door styles.





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.



Interchangeability

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



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.



COMPACT BLUMOTION and COMPACT Hinges Overview



COMPACT BLUMOTION 38N hinges for partial overlay

Partial overlay hinges with a 105° opening angle and 7/16" cup depth



COMPACT BLUMOTION 39C/38C hinges for full overlay

39C: Full overlay hinges with a 110° opening angle and 1/2" cup depth38C: Full overlay hinges with a 107° opening angle and 7/16" cup depth



COMPACT BLUMOTION 38B face mount hinges for full overlay

Full overlay face mount hinges with a 107° opening angle and 7/16" cup depth



COMPACT 38N hinges for partial overlay

Partial overlay hinges with a 105° opening angle and 7/16" cup depth



COMPACT 39C/38C hinges for full overlay

39C: Full overlay hinges with a 110° opening angle and 1/2" cup depth 38C: Full overlay hinges with a 107° opening angle and 7/16" cup depth



COMPACT 33 hinges for partial and full overlay

Economical two-piece assembly hinges with a 110° opening angle and 1/2" cup depth

COMPACT Testing Standards



Conditions for Tests

Blum, Inc. does a great deal of testing to ensure that the quality of our hardware is consistent with the usual high standards that our customers have come to expect from Blum. For this reason we have rigorous testing procedures which are carried out from the development stage through production. Blum's internal testing standards are based on practical applications of our products and are more stringent than what is required by ANSI/BHMA.

NOTE: All Blum hinges meet or exceed ANSI/BHMA A156.9-2001 grade 2 requirements. All concealed hinges are designed for indoor use.

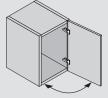
Cycle test		
Specifications	 Door size – 23-5/8" height, 23-5/8" width, 3/4" thickness Door weight –14.3 lb for cycle tests Door weight – 18.5 lb for load and over push tests Boring distance – 3 mm 	
Distance between hinges	= 16-15/16"	
Hinge and mounting plate attachment	 Hinges are mounted to test blocks and attached to test door and stand with clamps Test blocks for door: Particle board Test blocks for mounting plate: Particle board 	

Cycle test



Without load

100,000 opening and closing for all COMPACT



With load

11 lb extra weight is applied for 100,000 opening and closing cycles



Positive test result Positive test result

Load test



Static load

67 lb applied ten times for five seconds, each at 45° opening angle



Dynamic load

 44 lb extra weight applied for fifty opening and closing cycles



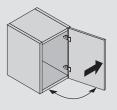
Positive test result Positive test result

Over push test



Without load

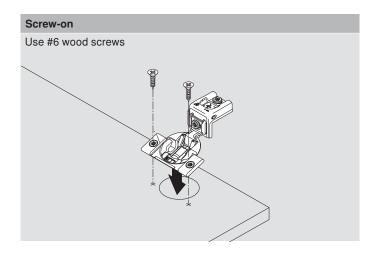
COMPACT hinges - Increasing forces up to 11 lb applied for a total of forty times for five seconds each

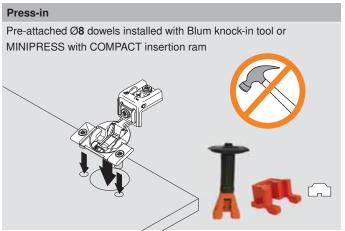


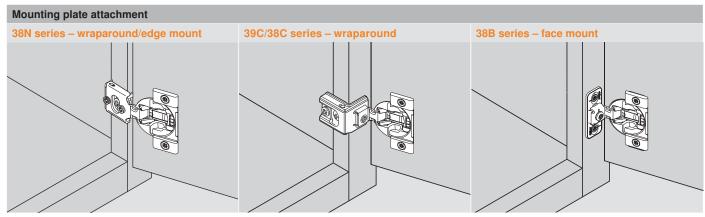
Positive test result

General Specifications

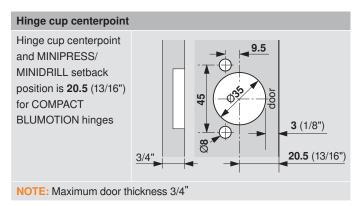






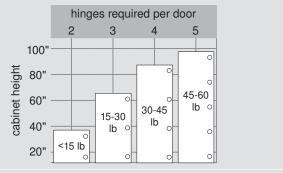


Minimum reveal A minimum reveal per door is required to keep the door from binding and varies depending on door thickness. See minimum reveal table for each hinge. reveal



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

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Three-dimensional adjustment

Side adjustment

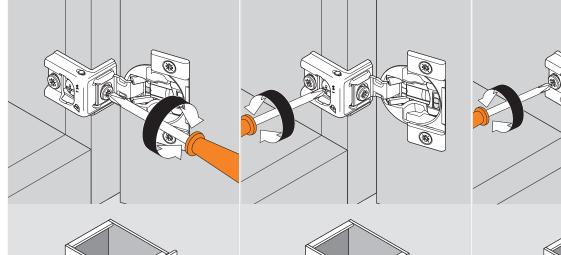
Rotate the front cam screw to increase or decrease door overlay (± 1/16")

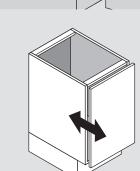
Height adjustment

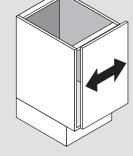
Loosen installation screws to adjust door position (± 1/8"), then retighten

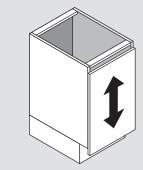
Depth adjustment

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





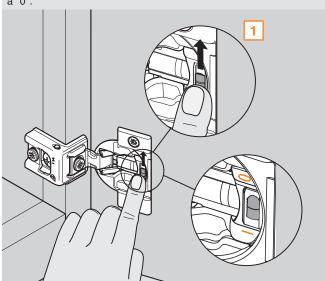




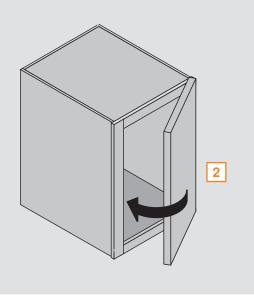
BLUMOTION Deactivation

Deactivation switch on the hinge cup

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



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





COMPACT BLUMOTION 38N for Partial Overlay



Minimum Reveal

Features

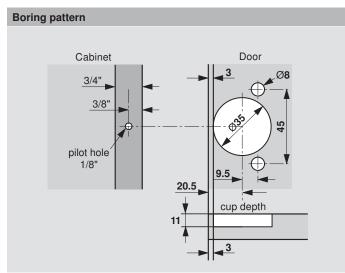
- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- Overload safety feature
- One-piece wraparound hinge
- 7/16" cup depth
- Edge mount available in 1/2" overlay

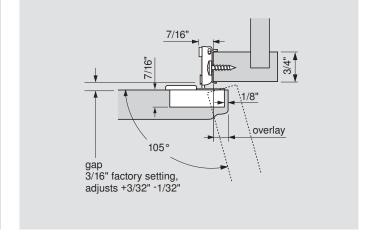
Dimensions



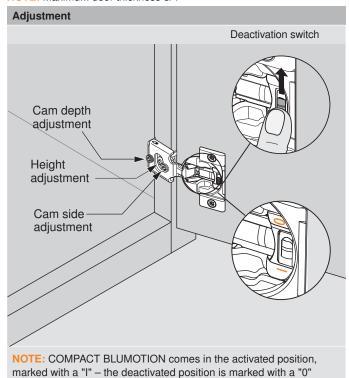


minimum reveal 3/4" door = 9/32" based on square edge doors





NOTE: Maximum door thickness 3/4"



Wraparound and edge mount hinges			
	Wraparo	ound E	Edge mount
Overlay	Door protrusion	Screw-on	Press-in
5/16"	5/16"		38N358B.05
3/8"	1/4"	38N355B.06	38N358B.06
1/2"	1/8"	38N355B.08	38N358B.08
*1/2"	1/8"	38N355BE08	38N358BE08
5/8"	0	38N355B.10	38N358B.10
3/4"	0	38N355B.12	38N358B.12

*Available as edge mount hinge

Installation screw	
Truss head screw	834TH
	·

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

^{*}See page 84 for additional cover cap options



COMPACT BLUMOTION 39C for Full Overlay



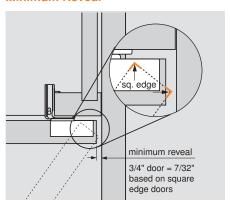
Features

BLUMOTION integrated into the hinge cup

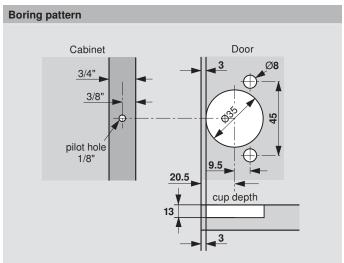
Dimensions

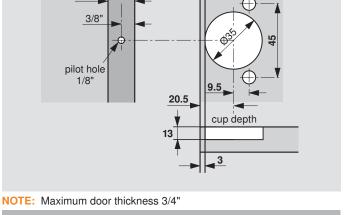
- Deactivation switch for small/light doors
- Overload safety feature
- One-piece wraparound hinge
- 1/2" cup depth
- Less minimum reveal



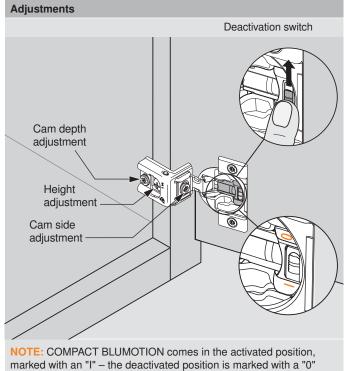








5/16" 1/8" overlay 110° 3/16" factory setting, adjusts +3/32" -1/32"



Wraparound hinges		
Overlay	Screw-on	Press-in
1"	39C355B.16	39C358B.16
1-1/4"	39C355B.20	39C358B.20
1-5/16"	39C355B.21	39C358B.21
1-3/8"	39C355B.22	39C358B.22
1-1/2"	39C355B.24	39C358B.24
1-9/16"	39C355B.25	39C358B.25

Installation screw	
Truss head screw	834TH
Accessories	
Angle restriction clip	38C315B3.1
Hinge cup spacer	38C355B9
*Blank cover cap	38C3508

^{*}See page 84 for additional cover cap options

COMPACT BLUMOTION 38C for Full Overlay



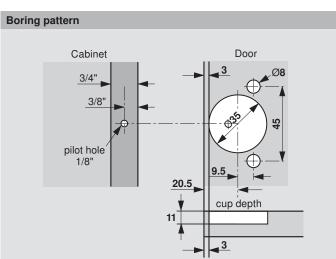
Features

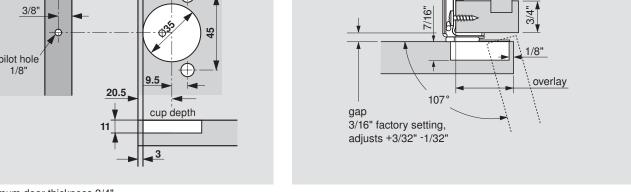
- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- Overload safety feature
- One-piece wraparound hinge
- 7/16" cup depth
- Ideal for profiled doors



Minimum Reveal sq. edge minimum reveal

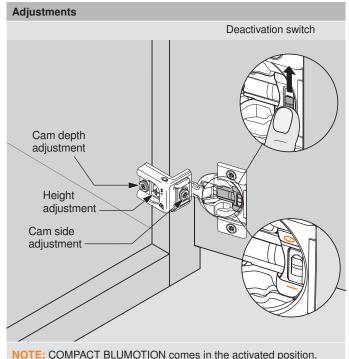
3/4" door = 9/32" based on square edge doors





Dimensions





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



Installation screw	
Truss head screw	834TH
Accessories	

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

*See page 84 for additional cover cap options



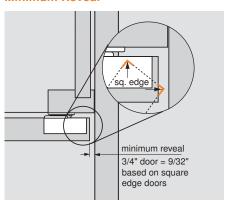
COMPACT BLUMOTION 38B for Face Mount

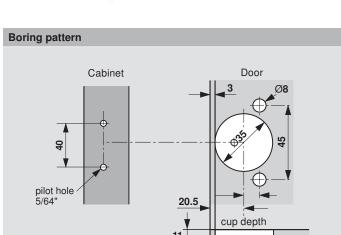


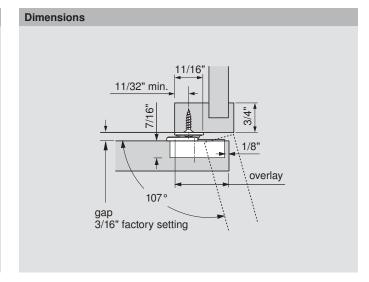
Features

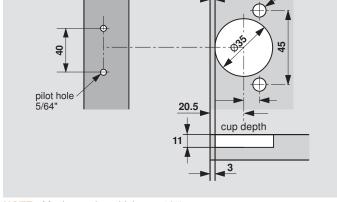
- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- Overload safety feature
- One-piece face mount hinge
- 7/16" cup depth
- Ideal for large overlays or refacing of cabinets

Minimum Reveal

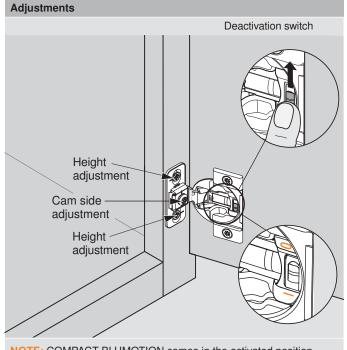








NOTE: Maximum door thickness 3/4"



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



ilistaliation sciew	
Flat head wood screw	606N or 606P

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

COMPACT BLUMOTION Hinge Accessories



Hinge arm cover caps



39C/38C blank cover cap



39C/38C Blum logo embossed cover cap



38N Blum logo embossed cover cap

38N blank cover cap



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

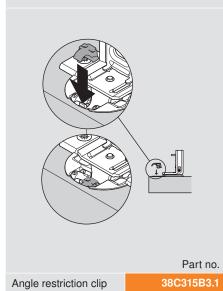
38N Blum logo embossed cover cap



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
- Gray nylon

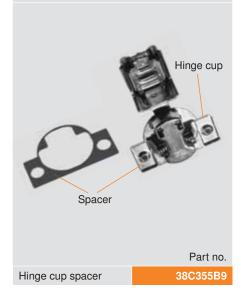




Hinge cup spacer

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



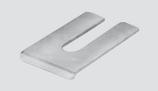


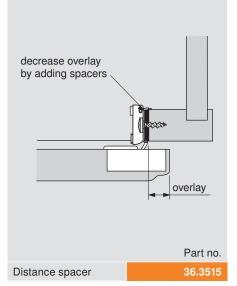
Distance spacer

 Steel spacer decreases door overlay in 1/32" increments

38N3508BBP

- Can be stacked to achieve desired overlay reduction
- Steel, zinc-coated

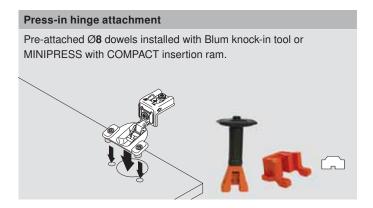


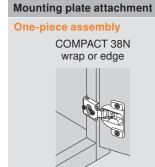


COMPACT General Specifications

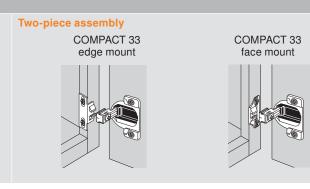


Screw-on hinge attachment Use #6 wood screws

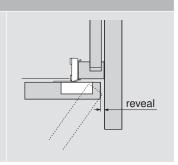




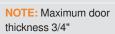


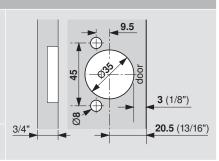


Minimum reveal A minimum reveal per door is required to keep the door from binding and varies depending on door thickness (see minimum reveal table for each hinge).

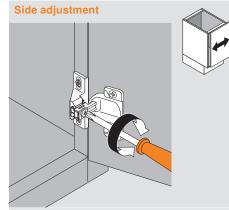




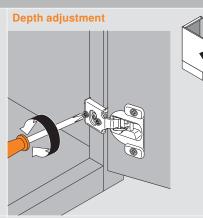




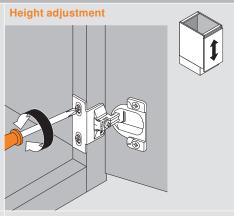
Three-way independent adjustment



Side adjustment is possible on all COMPACT hinges. COMPACT 38N, 39C and 38C have cam side adjustment.



COMPACT 38N, 39C and 38C have cam depth adjustment



All COMPACT hinges are independently height adjustable

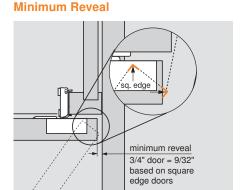
COMPACT 38N for Partial Overlay



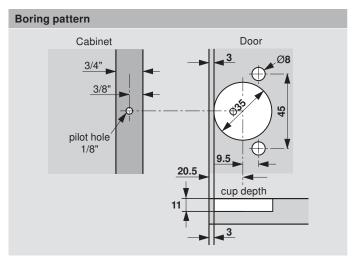
Features

- 105° opening angle
- One piece assembly
- Wraparound or edge mount
- 7/16" cup depth
- ±1/8" height adjustment
- ±1/16" side adjustment
- +3/32", -1/32" cam depth adjustment
- Steel, nickel-plated
- Can be used with BLUMOTION 971A9700

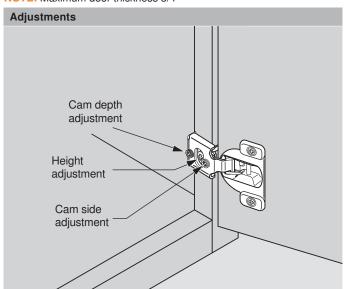






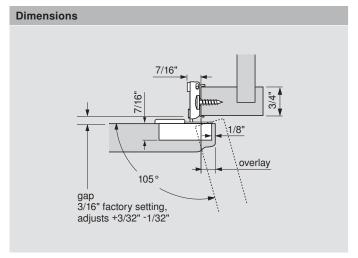


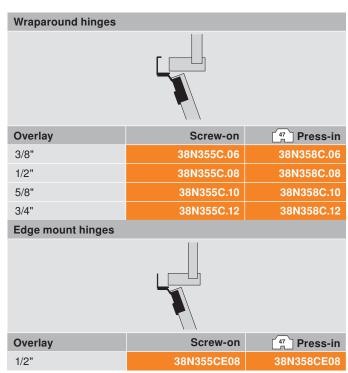
NOTE: Maximum door thickness 3/4"



Calculating door protrusion

	Door overlay	Door protrusion
	3/8"	1/4"
	1/2"	1/8"
	5/8"	0
	3/4"	0





Installation screw	
Truss head installation screw	834TH



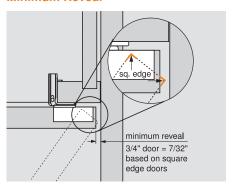
COMPACT 39C for Full Overlay

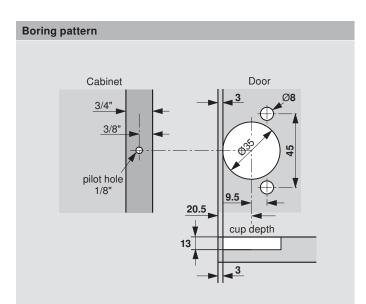


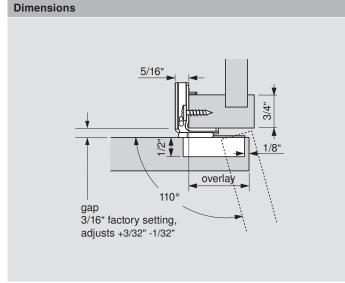


- 110° opening angle
- One piece assembly
- Wraparound mount
- 1/2" cup depth
- ±1/8" height adjustment
- ±1/16" side adjustment
- +3/32", -1/32" cam depth adjustment
- Steel, nickel-plated
- Can be used with BLUMOTION 971A9700

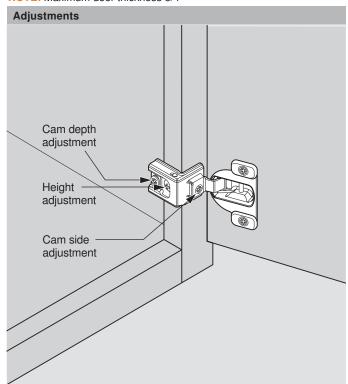
Minimum Reveal

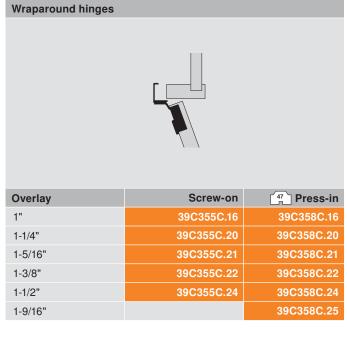






NOTE: Maximum door thickness 3/4"





Installation screw	
Truss head installation screw	834TH

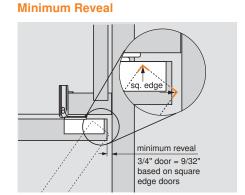
COMPACT 38C for Full Overlay

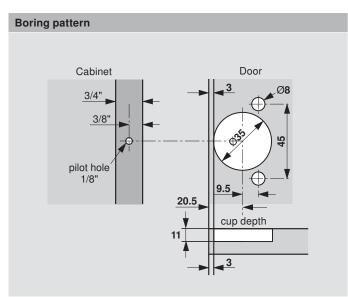


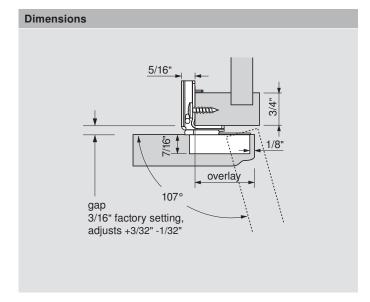
Features

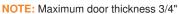
- 107° opening angle
- One piece assembly
- Wraparound mount
- 7/16" cup depth
- ±1/8" height adjustment
- ±1/16" side adjustment
- +3/32", -1/32" cam depth adjustment
- Steel, nickel-plated
- Can be used with BLUMOTION 971A9700

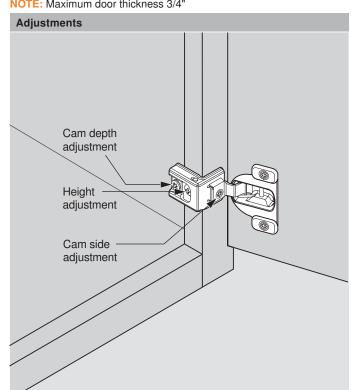


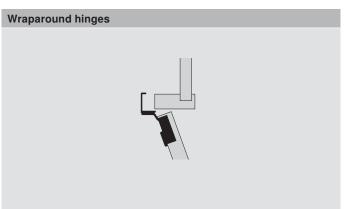












Overlay	Screw-on	Press-in
1-1/4"	38C355C.20	38C358C.20
1-5/16"		38C358C.21
1-3/8"		38C358C.22
1-1/2"		38C358C.24
1-9/16"		38C358C.25

Installation screw	
Truss head installation screw	834TH

ablum

COMPACT 33



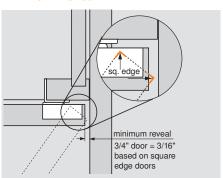


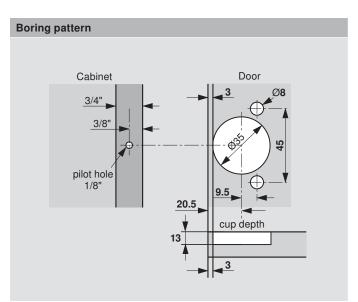
- = 110° opening angle
- Two piece assembly
- Edge or face mount
- 1/2" cup depth
- ±9/64" height adjustment
- -1/8" side adjustment only

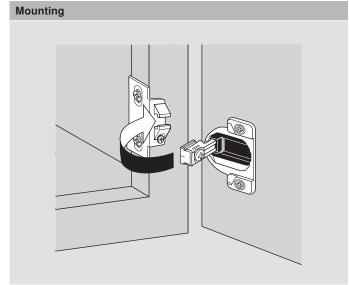
58.0890.1198

- Zinc die-cast hinge and mounting plates
- Can be used with BLUMOTION 971A9700



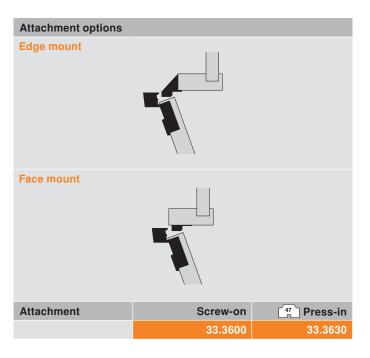




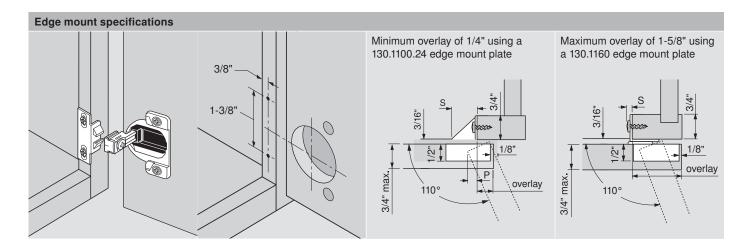


NOTE: Maximum door thickness 3/4"

COMPACT 33 spacer For use with profile or thin doors with a cup depth less than 13 mm 1.5 mm spacer placed under the hinge cup Clear nylon Spacer Hinge cup Mounting plate Part no.



COMPACT 33 spacer



Edge mount mounting plates

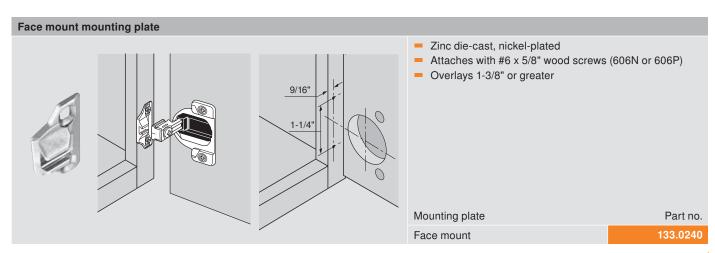
*Extra screw location



NOTE: An additional screw is required on mounting plates with 1-3/8" to 1-5/8" overlays to insure stability. Install after height adjustments have been made.

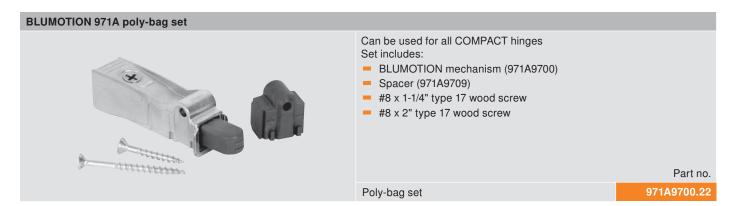
- Zinc die-cast, nickel-plated
- Attaches with #6 x 5/8" wood screws (606N or 606P)
- Overlays from 1/4" to 1-5/8"

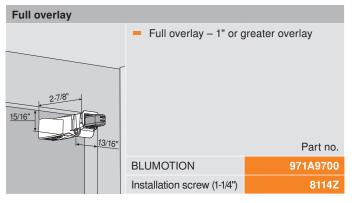
Overlay	Hinge arm protrusion (S)	Door protrusion (P)	Mounting plate
1/4"	1-1/8"	1/2"	130.1100.24
1/2"	7/8"	1/4"	130.1100.23
5/8"	3/4"	1/8"	130.1100.26
3/4"	5/8"	0	130.1100.22
1"	3/8"	0	130.1110.02
1-1/8"	1/4"	0	130.1120.02
1-1/4"	3/16"	0	130.1130.02
*1-3/8"	3/16"	0	130.1140.02
*1-1/2"	3/16"	0	130.1150.02
*1-5/8"	3/16"	0	130.1160

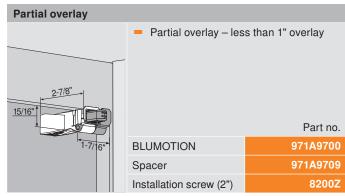




BLUMOTION 971A for **COMPACT** hinges



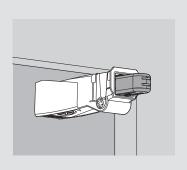




Specifications

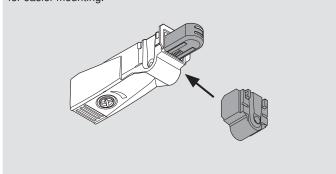
Mounting

BLUMOTION for doors mounts anywhere on the hinge-side stile of the cabinet using a 1-1/4" screw or 2" screw when using spacer.



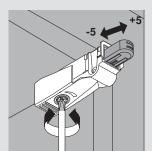
Attachment of partial overlay spacer

The partial overlay spacer snaps onto the side of the BLUMOTION for easier mounting.



Adjustment

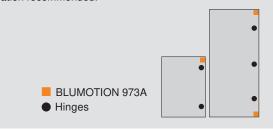
Use a Phillips or POZI screwdriver to adjust the contact point in or out (+5/-5 mm). Adjust out for larger, heavier doors or in for smaller, lighter doors.



BLUMOTION per door

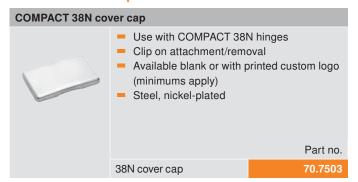
For optimum BLUMOTION effect, one BLUMOTION 971A should be installed for most applications.

Tall or heavy doors may require an additional BLUMOTION 971A Trial application recommended.

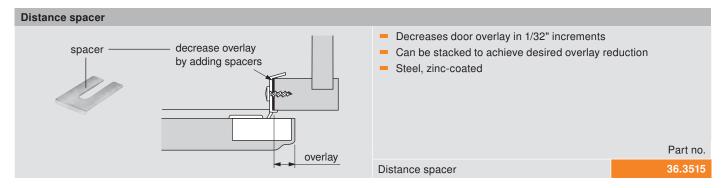




COMPACT Cover Caps







Dowel Cross-Reference Chart

Blum press-in and EXPANDO dowels simplify installation Use the charts below to find the proper hinge-to-dowel combination Ø8 mm dowels NOTE: All dowels for Ø8 mm holes require a #6 x 1/2" dowel screw (608.1200) Dowels for Ø8 mm hole 70T5582.01 34.3582.01 602.1200 608.1200 Square head Installation Installation Series Without flange With flange Type 100°/107° 110°/110°+ 120°/120°+ 170° CLIP top BLUMOTION, Thick door CLIP top and CLIP Zero protrusion Diagonal 45° Blind corner Bi-fold 38N COMPACT **BLUMOTION** 39C/38C/38B and COMPACT 33

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



9 spindle head



NOTE: Requires 5 each left hand and 4 each right hand drill bits. Recommended drill bit size for quick disconnect chucks: overall length is 57 mm and shank is 10 mm in diameter and 27 mm in length.

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

Includes:

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

Part no.

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

8 spindle head



NOTE: Requires 4 each left hand and 4 each right hand drill bits. Recommended drill bit size for quick disconnect chucks: overall length is 57 mm and shank is 10 mm in diameter and 27 mm in length.

- 8 spindle head for use with MINIPRESS/MINIDRILL
- Bores eight holes spaced 32 mm apart, perpendicular to the fence
- Quick-disconnect chucks
- Once aligned, does not require additional adjustment
- Bores all METABOX and TANDEMBOX front fixing brackets/galleries
- Bores cabinet side panels for all Blum runner systems
- 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.

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

Spindle head retrofit set



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

Set includes:

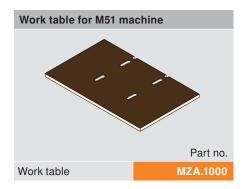
- Adapter ring and shield
- 2 Ø5 mm allen wrench
- Mounting bolts (qty 4)
- 4 Alignment pins (qty 2)
- Alignment template 5
- 6 13 mm fixed depth stop (qty 2)

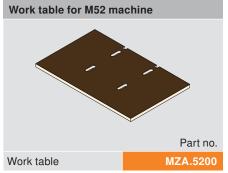
Part no.

Hinges



Machine Accessories





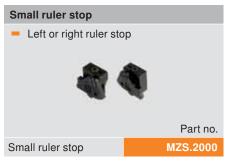


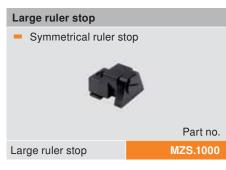


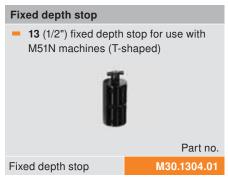














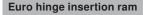












- Can be used for inserting CLIP top BLUMOTION, CLIP top and CLIP press-in hinges
- Not for use with wide angled or specialty hinges

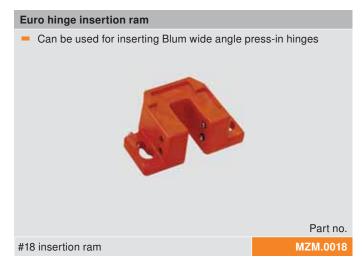


NOTE: Can be used with CLIP top BLUMOTION 95°, CLIP top 95° and CLIP 100° by adjusting the ball plungers

Part no.

#10 insertion ram

MZM.0010.01



Euro hinge insertion ram

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



NOTE: Not for use with 170°, 155° and 125° wide angle hinges

Part no.

COMPACT hinge insertion ram

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



Part no.

Mounting plate insertion Ram MINIPRESS insertion ram for press-in, in-line mounting plate 177H3100 Part no.

MZM.0053

#40 insertion ram MZM.0040 #47 insertion ram MZM.0047

Machine drill bits 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 Ø35 mm Ø8 mm Ø10 mm drill bit (left handed) M01.ZB10.03 L Ø5 mm Ø20 mm drill bit (right handed) M01.ZB20.02 R NOTE: Machine drill bits need to be set to 57 mm in length to achieve proper bore depth. Ø35 mm drill bit (right handed) M01.ZB35.02 R

Twist drill bits - high speed steel



VPB-5

*Used to pilot bore for screw-on hinges

Twist drill bit



Chuck for DB-2 mm

with	MINIPRESS	or MINIC	RILI

	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

#53 insertion ram

Assembly Aids

ablum°

Knock-in tool





Can be used to insert all Blum press-in hinges

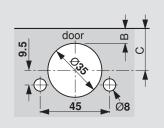
Part no.

Knock-in tool

ZME.0710

ECODRILL





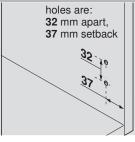
- Simple device for boring Blum hinge pattern
- Driven by electric/cordless drill (18v or higher)
- Boring distance adjusts from 2 mm to 8 mm
- Clamps to various door thicknesses up to 40 mm
- Includes drill bits (pre-installed) and two Torx bits

Part no.

ECODRILL	M31.1000
Accessories	
Replacement Ø35 mm bit	M31.ZB35.02
Replacement Ø8 mm bit	M31.ZB08.02
Tool set	MZW.1300

ECOJIG



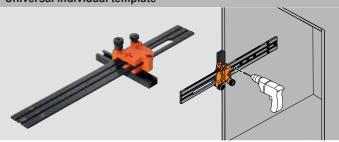


- Used to bore Ø5 mm holes for mounting plates that are mounted with system screws, EXPANDO dowels or INSERTA
- Also can be used to pre-bore Ø5 mm holes for EXPANDO BLUMOTION adapters
- Ø5 mm stop collar included

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

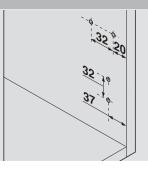
Part no.

Universal individual template

65.1051.02

Mounting plate template





- For pre-boring TIP-ON for doors wing and in-line adapters
- Can also be used to bore for wing (37 mm) and in-line (20 mm) mounting plates
- Additional hole location added (37 mm) for in-line adapter for standard doors
- Simple location of adapter and mounting plate screw positions
- Pilot bore Ø2.5 mm holes for wood screws

Part no.

Mounting plate template

65.5300°



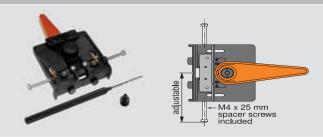


- Drilling sleeve dimensions changed from 2.5 mm to 5 mm for drilling for in-line mounting plates
- Locates/matches positions of hinges and plates on cabinets and doors
- Transfers positions from door-to-cabinet and cabinet-to-door
- Adjustable stop for various door overlays
- For use with wing or in-line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

Part no.

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

PLATEMATE



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

Part no.

PLATEMATE 65.5030.01

Dowelling fixture



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

Part no.

Doweling fixture 69.3600

INSERTA boring template



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

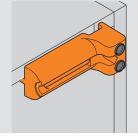
Part no.

INSERTA boring template

65.059A

BLUMOTION and **TIP-ON** for doors boring template





- For pre-boring BLUMOTION and TIP-ON units
- Ø10 mm drill bushing for edge boring
 - Bores left and right side of cabinet
- Includes Ø10 mm stop collar

Part no.

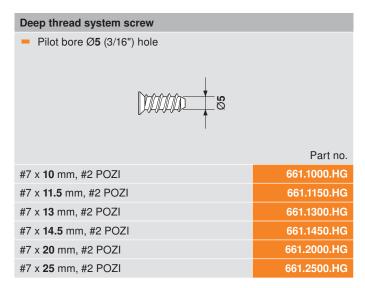
BLUMOTION and TIP-ON for doors boring template

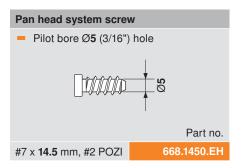
65.5010

Assembly Aids



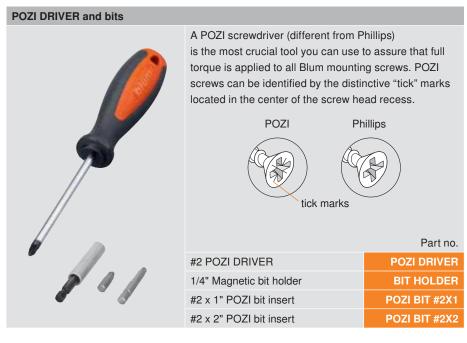
Deep thread wood screw For attaching hinges and mounting plates Part no. 6062N #6 x 1/2", #2 Phillips #6 x 5/8", #2 Phillips 606N #6 x 5/8", #2 POZI 606P 6064N #6 x 3/4", #2 Phillips #7 x 5/8", #2 Phillips 707N #7 x 3/4", #2 Phillips 7074N

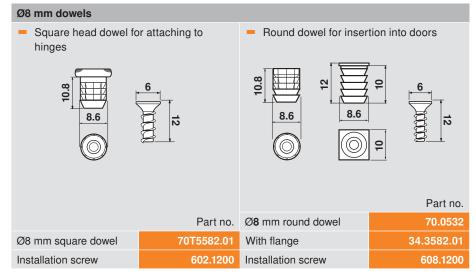








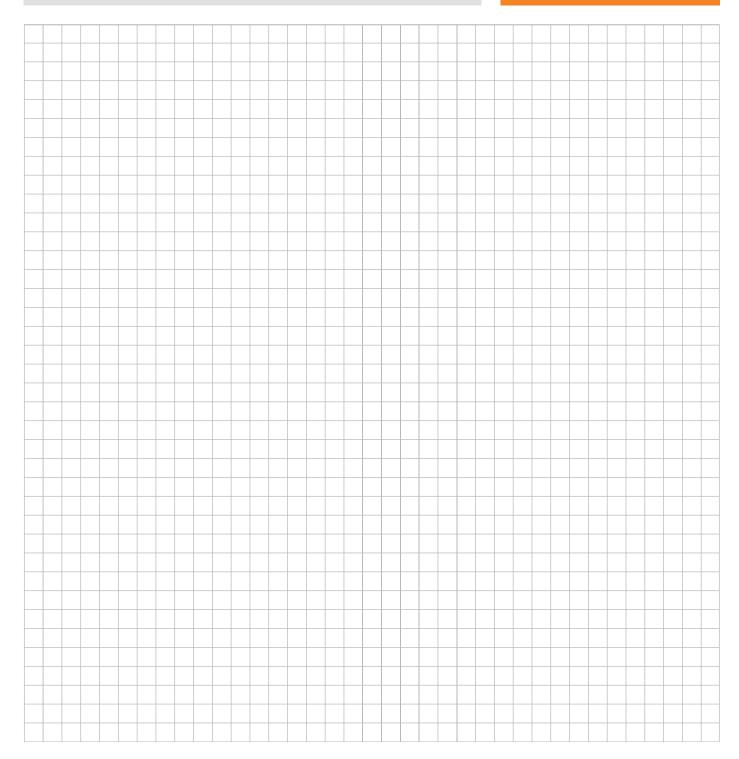




20 - 24 mm

612.2420





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