

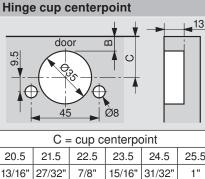
Concealed Hinges

Premium Hinge Systems for Cabinet Doors



blum.com

Quick reference



4

Hinges per door

100'

80"

60"

40"

20"

<15 lb

Cabinet height

Hinges 2

3

					cilar
		_	-	mm	in
) (1	1/ ₃₂
- i 1	Ø8			1.5	¹ /16
	enterpo			2	³ / ₃₂
.5	23.5	24.5	25.5	3	1/ ₈
3"	15/16"	31/32"	1"	4	⁵ / ₃₂
ring	6 g distar	7 nce	8	5	³ / ₁₆
r	-			5.5	7/ ₃₂
es r	equired	per doc	or	6	1/4
3			5	7	⁹ / ₃₂
			0	8	⁵ / ₁₆
			o 5-60	9	11/32
	.30 30		lb o	9.5	3/8
I			0	10	¹³ / ₃₂

Conversion

chart

7/16

15/32

 $^{1}/_{2}$

17/32

11

12

13

13.5

0

inch

.031

.063

.094

.125

.156

.188

.219

.25

.281

.313

.344

.375

.406

.438

.469

.5

.531

.563

.594

.625

.656

.688

.719

.75

.781

.813

.844

.875

.906

.938

.969

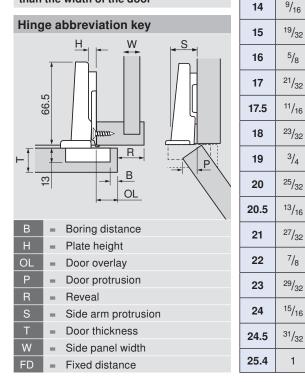
1

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.

I 0

0

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



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)

Fixed distance (FD)

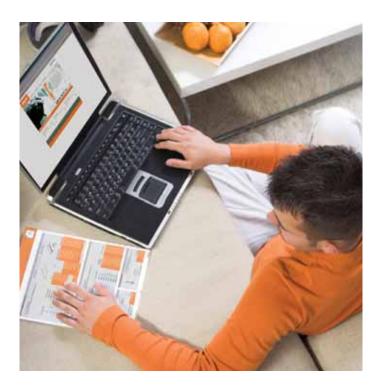
Simple planning and ordering

Blum offers many online 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, or other Blum products, please refer to our website at www.blum.com.

Or simply scan the quick reference code below







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Concealed Hinges

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Product Overview

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Soft close BLUMOTION is integrated into the hinge 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.

CLIP

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 frameless constructed 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.

BLUMOTION for doors

Soft close 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 frameless 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 are valued both in workshops and directly on-site with the customer.

Machines and accessories

The wide range of drilling and insertion machines available from Blum ensures just the right solution no matter what the assembly requirement. Quick setup and easy operation ensure efficient assembly and a highquality 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 Grade 2 requirements. All concealed hinges are designed for indoor use.

ISO 9001

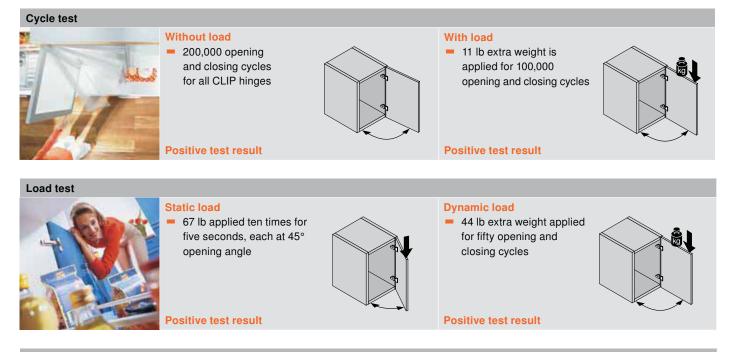
Blum, Inc. is ISO 9001 certified which means that you are assured of consistent quality in every Blum product.

ANSI/BHMA All Blum runners meet or exceed ANSI/BHMA A156.9 Grade 1 requirements. Contact your local

Blum representative for more details.



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

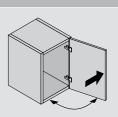


Over push test



Without load

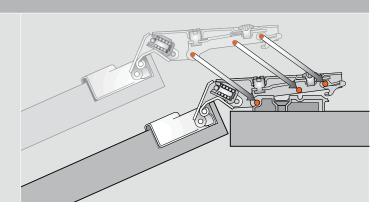
CLIP hinges - Increasing forces up to 11 lb applied for a total of five times for a total of five seconds each





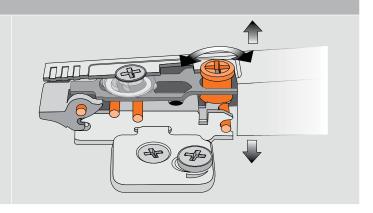
Blum three-point contact

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.



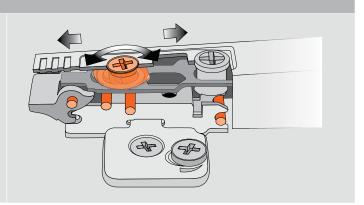
Side adjustment

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.



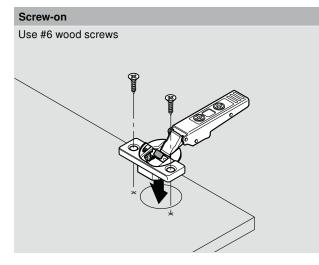
Wide variety of mounting plates

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.



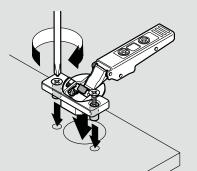


Hinge-to-Door Attachment



EXPANDO

Pre-attached expanding Ø8 mm dowels



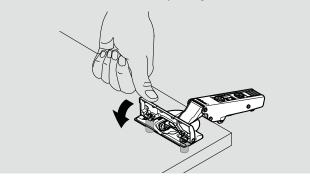
Press-in

Pre-attached $\varnothing 8$ dowels installed with Blum knock-in tool or MINIPRESS with an insertion ram

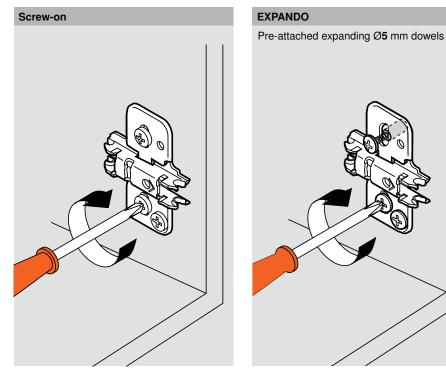


INSERTA

Tool-free attachment with INSERTA expanding $\ensuremath{\textit{\oslash}8}$ mm dowels

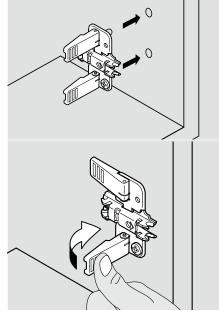


Mounting Plate-to-Cabinet



INSERTA

Tool-free attachment with INSERTA expanding Ø5 mm dowels



Adjustments

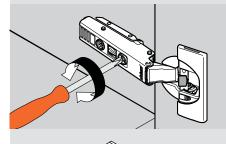
Hinges



Three-Dimensional Adjustment

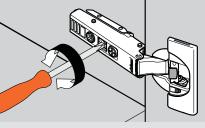
Side adjustment

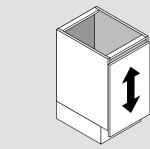
Rotate front screw to increase or decrease door overlay ($\pm 2 \text{ mm}$)



Height adjustment

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

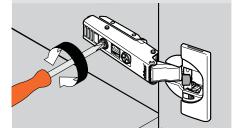


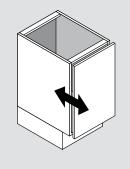


NOTE: On non-cam mounting plates, loosen screws, adjust door and retighten screws

Depth adjustment

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

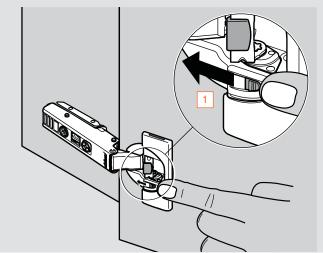




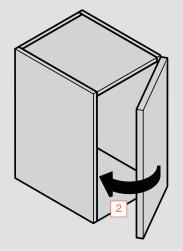
BLUMOTION Deactivation

Deactivation switch on hinge cup

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



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



i Temperature information

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

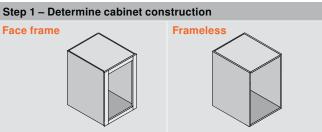
Using the Brochure

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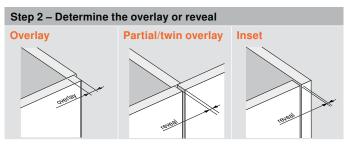
Blum's Concealed hinges brochure makes it easy to use our Euro hinges. Each page shows information for both face frame and frameless applications. The top row shows the hinge in a face frame cabinet and the center row shows it in a frameless cabinet. The bottom holds the overlay/reveal tables and hinge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

CLIP top BLUMOTION 110° Hinges blum 110 Minimum reveal BLUMOTION integrated into the hinge Deactivation switch for small/light doors 0.5 1.0 1.8 2.7 4.3 To determine the minimum reveal, use the table in the upper right 1.7 1.7 2.5 2.4 Deactivation switch for small/light doors For door thicknesses up to 26 (1*) Overload safety feature 86* angle restriction clip available (7013 Compatible with existing CLIP mountin 0.5 0.5 1.0 0.9 3.8 3.4 hand corner of each page. 2.3 0.5 0.9 1.6 3.2 0.5 0.9 16 22 3.0 and hinge arm cover caps 16 19 22 24 26 T = door thick **Face frame construction** To use Euro hinges in a face frame cabinet, use the top row. Partial/twin overlay **Frameless construction** To use Euro hinges in a frameless cabinet, use the center row. **Overlay and reveal tables** To determine the overlay and reveals, use the tables at the bottom of each column. Overlay 4.5 5.5 6.5 7.5 8.5 21.5 31 3 4 5 6 7 Fixed distance = 1.5 H P S PS н н 14 15 16 17 18 12 21.5 11 12 13 14 15 15 24.5 4 3 2 1 30 39.5 4.5 3.5 2.5 1.5 0.5 30.5 40 3 4 5 2 1 30 39.5 3.5 2.5 1.5 U.S 4 5 6 7 Fixed distance 0 = -7 9 = 1.5 10.5 11.5 12.5 13.5 16.5 26 9 10 11 12 18 27.5 6 7 8 9 21 30.5 4 5 6 7 Fixed 4.5 9.5 3 W P S D 14 Select hinge 5 3 1 16 8 6 4 2 19 21.5 31 11 9 7 5 22 24 4 5 6 7 5 24 Fixed distanc = 11 Plate height Select the appropriate hinge from the bottom of each column. Screw-on, B = boring distance E: 4.5 plate is only for use in fr nets, 9 plate is only for panel c press-in, EXPANDO and INSERTA are available for most hinges. B = bori Side panel width Straight-arm Self close Half-cranked Press-in 🛱 INSERTA Press-in 🛱 Press-in EXPANDO

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

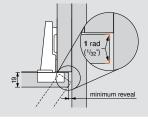


Step 3 – Find boring distance and mounting plate height									
							S		
table to determine the mounting plate height and boring distance needed.		14	15	16	(1	7)	10	21	
		11	12	13	1	4	13	24	
	4.5	9.5	10.5	11.5	12	.5	14.5	25.5	
	6	8	9	10	1	1	16	27	
	9	5	6	7	F	,	19	30	
4		3	4	5	6	5)	fixe		
		B = k	ooring	g dist	and	ce	distance = 11		
B = 6	NOTE: 4.5 plate is only for use								
in face frame cabinets is only for panel cabin					•	е			



Step 4 – Check minimum reveal table

All minimum reveal tables are based on square edge door with a 1 mm radius. A larger radius or profile door will change the minimum reveal required.



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					

Hinge Program Overview

Hinges

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CLIP top BLUMOTION

CLIP top BLUMOTION	Page
110°	12
110°+	13
95° thick door	14
155° zero protrusion	15
155° special applications	16
125° zero protrusion	18
125° special applications	19
110° diagonal 45°	20
95° inset blind corner	21
95° overlay blind corner	22
95° narrow aluminum	23

Onyx Black	Page
110°	24
110°+	24
95° thick door	24
155° zero protrusion	25
Special applications	25
Mounting plates	26
Accessories	26

CLIP top	Page
107°	27
110°	28
110°+	29
120°	30
120°+	31
95° thick door	32
170°	33
170° special applications	34
155° zero protrusion	35
60° bi-fold	36
95° inset blind corner	37
95° overlay blind corner	38
120° aluminum	39
110° diagonal 45°	40
95° mini	41
95° glass door	42

CLIP	Page
100°	43

Angled	Page
CLIP top BLUMOTION and CLIP top	44

CLIP accessories	Page
Cover caps	56
Angle restriction clips	57
Mounting plates	58
BLUMOTION for doors	64
TIP-ON for doors	72

COMPACT BLUMOTION	Page
38N for partial overlay	81
39C for full overlay	82
38C for full overlay	83
38B for face mount	84
Accessories	85

COMPACT	Page
38N for partial overlay	87
39C for full overlay	88
38C for full overlay	89
BLUMOTION for COMPACT	92
Accessories	93

Machines and assembly aids	Page
Machines	94
Machine accessories	95
Assembly aids	98

Part number index	Page	
Part numbers	102	

CLIP top BLUMOTION 110°





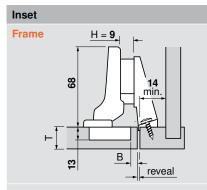
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Features

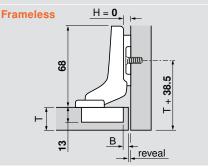
- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to **26** (1")
- Overload safety feature
- 86° angle restriction clip available (70T3553)
- Compatible with existing CLIP mounting plates and hinge arm cover caps

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	.8 2.7 4.3 .7 2.5 3.8 .7 2.4 3.4 .6 2.3 3.2 .6 2.2 3.0 .22 24 26			
boring distance	T = door thickness						

Thickness greater than 26 trial recommended

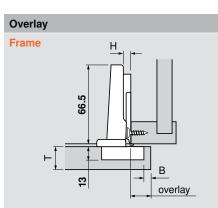


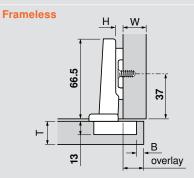
NOTE: Application requires a half-cranked hinge and mounting plate 175H5030.21

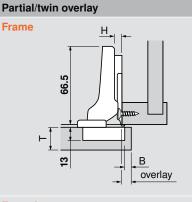


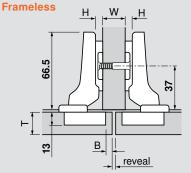
Н		F	Р	S						
0	4	3	2	1	-	30 39.5				
9	4.5	3.5	2.5	1.5	0.5	30.5	40			
	3	4	5	6	7	Fixed d	istance:			
	В	= boi	ring d	istand	ce	0 = 9 =	-			
Abbi	reviat	ions								
Н	=	= Plate height								
Р	=	 Door protrusion 								
S	= Side arm protrusion									
W	= Side panel width									

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









NOTE: See page 57 for angle restriction clip instructions and details

				0			
Н		C	Overla	y		Р	S
0	14	15	16	17	18	12	21.5
3	11	12	13	14	15	15	24.5
4.5	9.5	9.5 10.5 11.5 12.5 13.					26
6	8	9	10	11	12	18	27.5
9	5	6	21	30.5			
	3	4		ked			
	B = boring distance = 11						

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

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

Н			Р	S				
0	4.5	5.5	6.5	5 7.	.5	8.5	21.5	31
	3	4	5	(6	7	Fix dista	
	E	3 = bo	oring	dista	inc	e	= 1	
Н		R	evea	l		↓ w	P	S
	7	5	3	1	-	16	5	
0	10 8 6 4 2 19							31
	13 11 9 7 5 22							
	3 4 5 6 7							
	B = boring distance							

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



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Features

- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to 26 (1")
- Overload safety feature

Partial/twin overlay

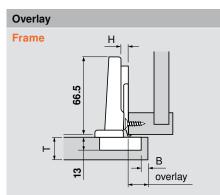
Frameless

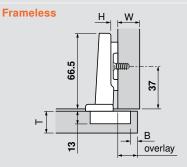
- For door overlays up to 22 mm
- 86° angle restriction clip available (70T3553)Compatible with existing CLIP mounting

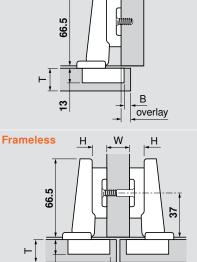
W

н

plates and hinge arm cover caps







NOTE: See page 57 for angle restriction clip instructions and details

Н	Overlay P S							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	15.5	14.5	24.5		
6	10	11	11.5	16	26			
9	7	8	8.5 9 10 11 19					
	3 4 4.5 5 6 7 Fixed							
	B = boring distance = 13							
NOTE: 4.5 plate is only for use in frame								
cabinets, 9 plate is only for frameless								
cab	inets							

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

Н		Overlay							S	
9	7	8	8.5	5 9	1	0	11	19	29	
	3 4 4.5 5 6 7							Fix		
		B = boring distance = 13								
Н			Rev	veal			W	P	S	
	2	-	-	-	-	-	16	;		
9	5	3	2	-	_	_	19	19	29	
	8	6	5	4	-	-	22	2		
	3	4	4.5	5	6	7				
	B = boring distance									

В

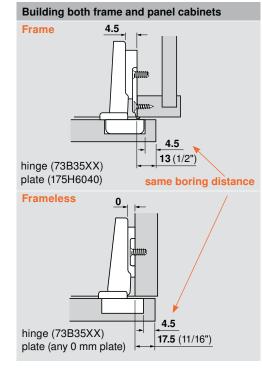
reveal

<u>е</u>

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

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									

Thickness greater than 26 trial recommended



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 BLUMOTION 95° Thick Door





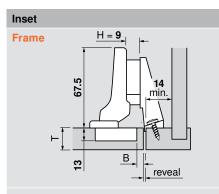
Ablum

Features

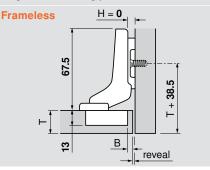
- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to 30 (1-3/16")
- Overload safety feature
- Compatible with existing CLIP mounting plates and hinge arm cover caps

Minimum reveal table										
3	0.4	0.8	1.0	1.5	1.9	2.8	3.6			
4	0.4	0.7	1.0	1.4	1.8	2.5	3.1			
5	0.4	0.7	1.0	1.4	1.8	2.3	2.7			
6	0.4	0.7	1.0	1.4	1.8	2.2	2.5			
7	0.4	0.7	0.9	1.4	1.7	2.1	2.4			
В =	19	22	24	26	28	29	30			
boring distance		Т	= do	or thi	cknes	ss				

Thickness greater than 30 trial recommended



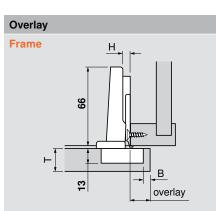
NOTE: Application requires a half-cranked hinge and mounting plate 175H5030.21

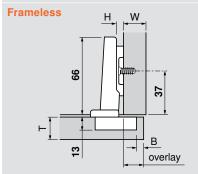


Н		F	Р	S				
0	4	3	2	1	-	32.5	40	
9	4.5	3.5	2.5	1.5	0.5	33	40.5	
	3	4	5	6	7	Fixed distance:		
	В	= boi	ce	0 = 9 =	-7 1.5			

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

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

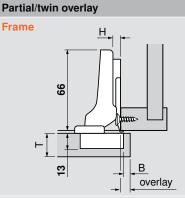


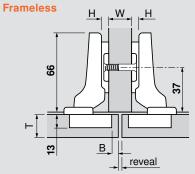


Н		C	Р	S			
0	14	15	16	17	18	14.5	22
3	11	12	13	14	15	17.5	25
4.5	9.5	10.5	11.5	12.5	13.5	19	26.5
6	8	9	10	11	12	20.5	28
9	5	6	7	8	9	23.5	31
	3 4 5 6 7 Fixe						
	E	8 = bo	е	dista = 1			

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

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





н		C	Р	S					
0	4.5	5.5	6.5	7.5	8.5	24	31		
	3	4	5	6	7	Fixed distance			
	B	8 = bo	е	uista = 1					

Н		F	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	Soft close
Screw-on	71B9650
Press-in	71B9680
INSERTA	71B9690
INGENTA	1103030



CLIP top BLUMOTION 155° Zero Protrusion

Hinges

blum

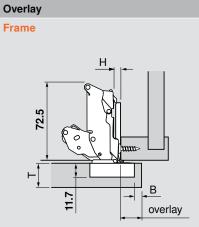


Features

- 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

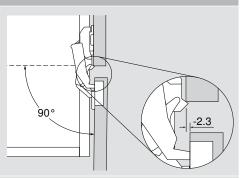
Minimum reveal table									
3	0	0	0	0	0	0			
4	0	0	0	0	0	0			
5	0	0	0	0	0	0			
6	0	0	0	0	0	0			
7	0	0	0	0	0	0			
8	0	0	0	0	0	0			
B =	16	18	19	20	22	24			
boring distance		T =	door	thickn	ess				

Thickness greater than 24 please see next page



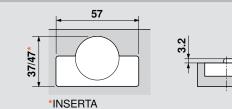
Door protrusion

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

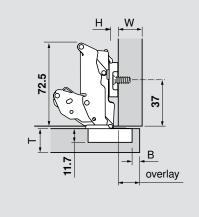
Hinge cup dimensions





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

Frameless



Н		Р	S							
0	14	15	16	17	18	19	-2.3	61		
3	11	12	13	14	15	16	0.7	64		
	3	3 4 5 6 7 8								
		B = k		ance 11						

Straight-arm	Soft close
Screw-on	71B7550
Press-in	71B7580
INSERTA	71B7590

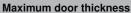


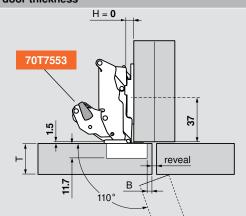
NOTE: See page 57 for instructions and details.

CLIP top BLUMOTION 155° Straight-Arm Special Applications









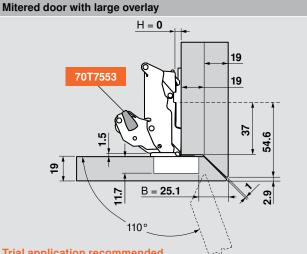
Trial application recommended

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

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	2	7	26	2	25		
	3	4	5	6	7	*8		
	B = boring distance							

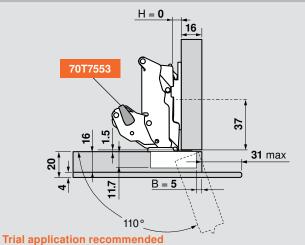
*Minimum reveal is 1 mm on a 25 mm thick door when bored at 8 mm



Trial application recommended

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

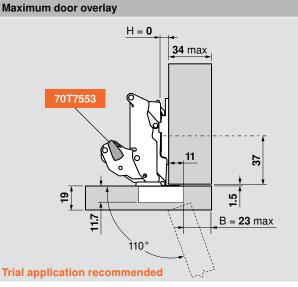
Thin facing added to door



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 62-63)

Straight-arm	Soft close
Screw-on	71B7550
Press-in	71B7580
INSERTA	71B7590

I I	use of the new CLIP wing plates (pages 62-63)							
	Abbreviations							
	н	= Plate height						
	Р	= Door protrusion						
	S	= Side arm protrusion						
	W	= Side panel width						

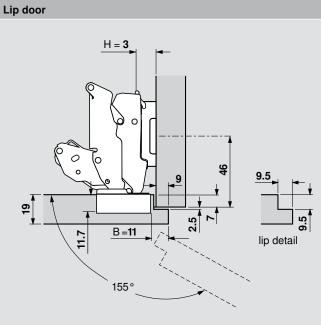


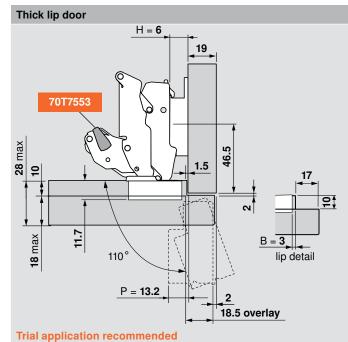


CLIP top BLUMOTION 155° Half-Cranked Special Applications

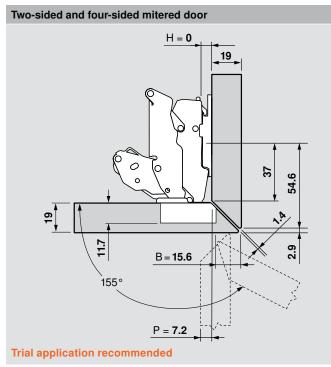
Hinges

A**blum**





Trial application 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 62-63)

Half-cranked	Soft close
Screw-on	71B7650
INSERTA	71B7690

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

CLIP top BLUMOTION 125° Zero Protrusion for Thicker Doors





н

В

overlay

Ablum

Features

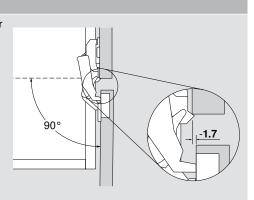
- Zero protrusion hinge for thicker doors
- For use in cabinets with interior roll-outs
- Three-dimensional adjustment
- For door thicknesses up to 30 (1-3/16") 92° angle restriction clip available
- (70T7553) All metal hinge, nickel-plated

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	19	20	22	24	26	28	30		
distance		Т	= doo	or thi	cknes	ss			

Thickness greater than 30 mm, see next page



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.

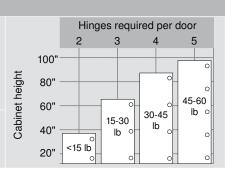


NOTE: Use of 0 mm or 3 mm is recommended for zero protrusion

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





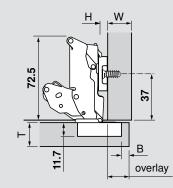
Abbr	Abbreviations					
Н	= Plate height					
Р	= Door protrusion					
S	= Side arm protrusion					
Т	= Door thickness					
W	= Side panel width					



Overlay

Frame

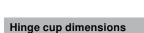
72.5

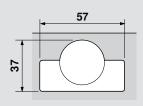


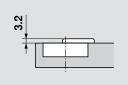
Н		Overlay						S
0	14	15	16	17	18	19	-1.7	63
3	11	12	13	14	15	16	1.3	66
	3 4 5 6 7 8						Fix	ed ance
		B = boring distance =						

Straight-arm	Soft close
Screw-on	71B7550D
Press-in	71B7580D

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11.7



Maximum door thickness

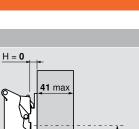
CLIP top BLUMOTION 125° Special Applications

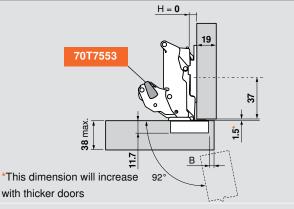
Maximum door overlay

70T7553

Hinges

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NOTE: Thickness of 30 mm or greater, angle restriction clip required

Н	H Overlay							
0	14	15	16	17	18	19	0	
	3	4	5	6	7	8		

NOTE: Must use angle restriction clip to achieve application

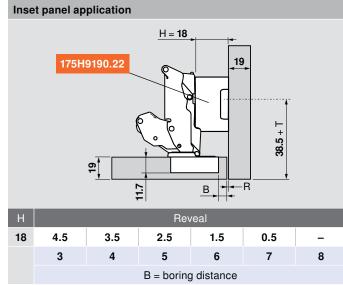
 Overlay

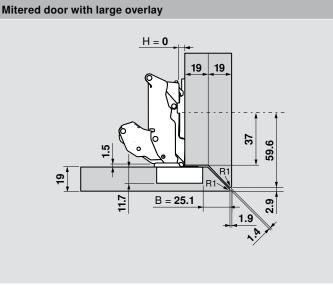
 36
 38
 39
 41

 25
 27
 28
 30

 B = boring distance
 B
 B
 B
 B

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 62-63)



Overlay application

45° mitered panel

CLIP top BLUMOTION 110° Diagonal 45°



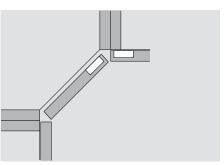


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over

Features

- 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

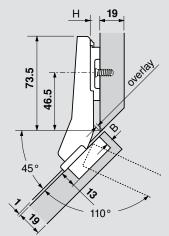
Calculating door width

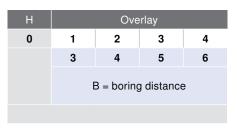
Step 1. Using the boring distance (B) determined in the reveal table, cross-reference to find the side gap distance (Y) in the table below.

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

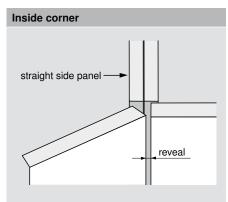
Example: interior width = 400 mm, side gap (Y) = **4.5** mm.

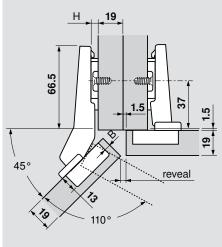
391 = 400 minus (4.5 x 2)





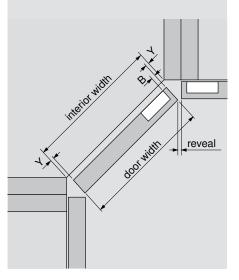
Diagonal 45° hinge	Soft close
INSERTA	79B3598





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			

Diagonal 45° hinge	Soft close
INSERTA	79B3598



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							

Abbreviations				
Н	= Plate height			
Y	= Side gap			



CLIP top BLUMOTION 95° Inset Blind Corner

Hinges

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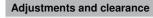


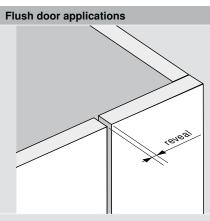
Features

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

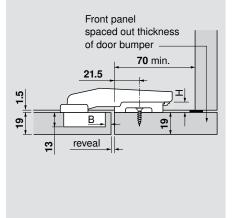
	Minimum reveal table						
3	0.1	0.3	0.4	0.5	0.9	1.3	
4	0.1	0.3	0.4	0.5	0.9	1.3	
5	0.1	0.3	0.4	0.5	0.9	1.3	
6	0.1	0.3	0.4	0.5	0.9	1.2	
7	0.1	0.3	0.4	0.5	0.9	1.2	
B =	16	18	19	20	22	24	
boring distance T = door thickness							

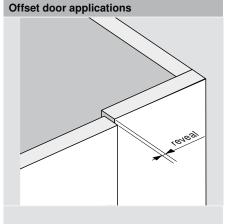
Thickness greater than 24 trial recommended

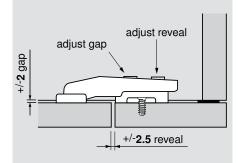


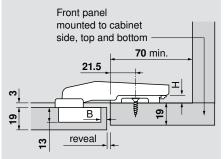


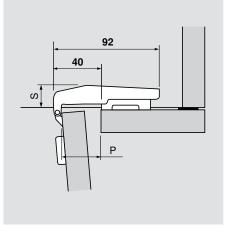
Back of door is flush with front panel











Н	Reveal					Р	S
3	5	4	3	2	1	33.5	21
	3	4					
	В	= boi					

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

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

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

Abbre	Abbreviations						
Н	=	Plate height					
Р	=	Door protrusion					

= Side arm protrusion

CLIP top BLUMOTION 95° Overlay Blind Corner





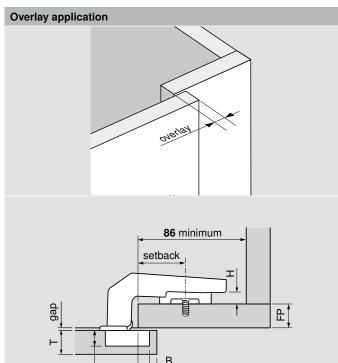
Ablum

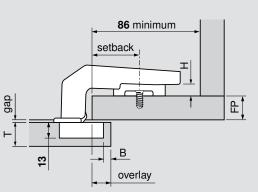
Features

- 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

	Mini	mum	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





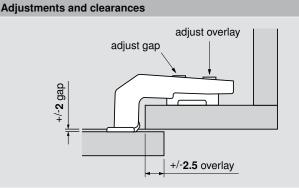
Setback		Overlay					D
27	2	3	4	5	6	27	32
32	7	8	9	10	11	22	27
37	12	13	14	15	16	17	22
	3	4	Fix dista	ked			
	В	= bor					

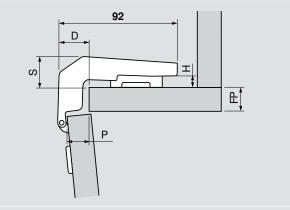
NOTE: Door overlay varies depending on the setback position of the mounting plate. Use the table to select the desired overlay and cross-reference to the plate setback and boring distance.

Overlay blind corner	Soft close
Press-in	79B9980

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

NOTE: Door gap varies depending on the thickness of the front 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.





NOTE: Door gap can be adjusted ± 2 mm

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



CLIP top BLUMOTION 95° Narrow Aluminum Door

Hinges

Ablum



Features

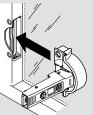
- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to **22** (7/8")
- Possible frame width 18 mm 22 mm
- Overload safety feature
- Compatible with existing CLIP mounting plates and hinge arm cover caps

	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 = d	oor thicl	kness			

Thickness greater than 22 trial recommended

Installation

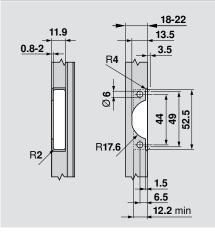
Attach cup adapter to the hinge and insert into machined openings



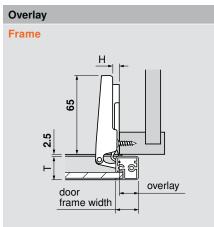
Attach using aluminum screws provided with hinges (699.110)



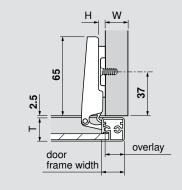
Aluminum door preparation



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



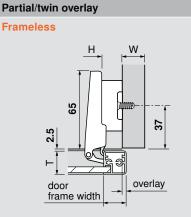
Frameless



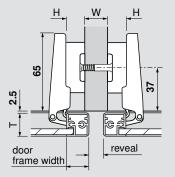
Н	Overlay	Р	S
0	16	13.5	22
3	13	16.5	25
4.5	11.5	18	26.5
6	10	19.5	28
9	7	22.5	31
	B = fixed		

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

Straight-arm	Soft close
Screw-on	71B950A



Frameless



Н	Overlay	Р	S
9	7	23	31
	B = fixed		

9 2 16 5 19 23 31	Н	Reveal	W	Р	S
	0	2	16	22	21
	9	5	19	23	31
B = fixed		B = fixed			

Straight-arm	Soft close
Screw-on	71B950A



CLIP top BLUMOTION Onyx Black



CLIP top BLUMOTION 110° hinges



NOTE: Please refer to page 12 for installation specifications

Straight-arm	Soft close	Half-cranked	Soft close	Full-cranked	Soft close
Screw-on	71B3550	Screw-on	71B3650	Screw-on	71B3750
Press-in	71B3580	INSERTA	71B3690	INSERTA	71B3790
INSERTA	71B3590				

CLIP top BLUMOTION 110°+ hinges



NOTE: Please refer to page 13 for installation specifications

Straight-arm	Soft close
Screw-on	73B3550
INSERTA	73B3590



NOTE: Please refer to page 14 for installation specifications

Straight-arm	Soft close	Half-cranked	Soft close	Full-cranked	Soft close
Screw-on	71B9550	Screw-on	71B9650	Screw-on	71B9750
Press-in	71B9580	INSERTA	71B9690	INSERTA	71B9790
INSERTA	71B9590				

CLIP top BLUMOTION Onyx Black

Hinges

A**blum**

CLIP top BLUMOTION 155° zero protrusion hinges





Soft close

71B7690

NOTE: Please refer to page 15 for installation specifications

Straight-arm	Soft close	Half-cranked
Screw-on	71B7550	Screw-on
Press-in	71B7580	Press-in
INSERTA	71B7590	INSERTA

CLIP top BLUMOTION specialty hinges



NOTE: Please refer to page 16 for installation specifications

95°Inset blind corner	Soft close	95°,+45° l Angled	Soft close	110°,+45° II Angled	Soft close
Screw-on	79B9550	INSERTA	79B9698	INSERTA	79B3598
Press-in 🗔	79B9580				
INSERTA	79B9590				

Hinges	CLIP Mouting Plates -	Onyx Black	
A blum			
CLIP wing plate			
EXPANDO		 Steel, nickel-plated Attached with pre-mounted screws with EXPAN dowels Cam height adjustment ±2 mm 	Part no.
*Add additional wood screw if used with wide a	ingle hinges	0 plate height (H) 17	4H7100E
CLIP in-line plate			
Screw-on		 Steel, nickel-plated Attached with #6 x 5/8" wood screws Cam height adjustment ±2 mm Use of mounting plate template recommended 	
		0 plate height (H) 1	Part no. 75H3100
CLIP accessories			
70.1503	70.1553	70.1663	
70.4503	70T3504	70T7504	
		S	elf close
Blank arm cover cap for straight-arm hinges Blank arm cover cap for angled, MINI & glass c	loor hinges with straight or granker	d-arms	70.1503 70.1553
Blank arm cover cap for cranked-arm hinges	and minges with straight of craffker		70.1663
Blank arm cover cap for 155° and 125° hinges			70.4503
Blank cup cover cap for CLIP top BLUMOTION			70T3504
Blank cup cover cap for 155° and 125° hinges			70T7504
NOTE: Please refer to page 56 for specification	าร		



CLIP top 107°

Hinges

A**blum**®



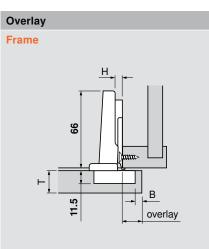
Features

- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to **19** (3/4")
- 86° angle restriction clip available (74.1103)
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

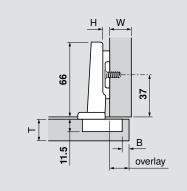
Minimum reveal table						
3	0.6	1.0	1.3			
4	0.6	1.0	1.3			
5	0.6	1.0	1.2			
6	0.6	1.0	1.2			
	16	18	19			
B = boring distance						

T = door thickness

Thickness greater than **19** trial recommended



Frameless



Н	Overlay				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	Fix			
	B =	= boring	ice	dista =		

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

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

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

CLIP top 110°





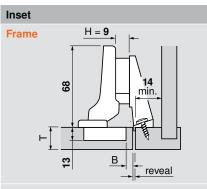
Ablum

Features

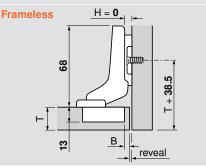
- Three-dimensional adjustment
- Available with INSERTA attachment
- INSERTA lever expands in Ø8 mm holes
- For door thicknesses up to **26** (1")
- 86° angle restriction clip available (70T3553)
- All metal hinge, nickel plated
- Add-on BLUMOTION soft close available

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

Thickness greater than 26 trial recommended

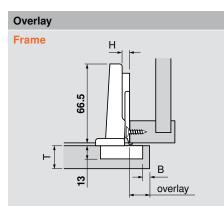


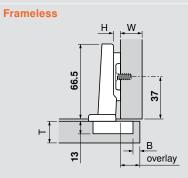
NOTE: Application requires a half-cranked hinge and mounting plate 175H5030.21



Н		F	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	= boi	ring d	istand	ce	0 = 9 =	-				
Abb	reviat	ions									
Н	=	Plate	heigl	ht							
Р	=	Door	protr	usion							
S	=	= Side arm protrusion									
W	=	Side	pane	l widt	h						

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

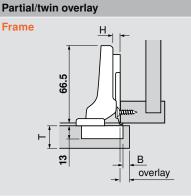


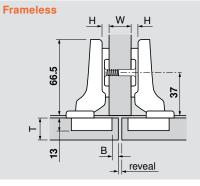


Н		C	Р	S						
0	14	15	16	17	18	12	21.5			
3	11	12	13	14	15	15	24.5			
4.5	9.5	10.5	11.5	12.5	13.5	16.5	26			
6	8	9	10	11	12	18	27.5			
9	5	6	7	8	9	21	30.5			
	3	4	5	5 6 7 Fixed distance						
	E	8 = bo	е							

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

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





Н				Р	S				
0	4.5	5.5	6.	5 7	.5	8.5	;	21.5	31
	3	4	5	5	6	7	Fixed distance		
	ł	3 = b	oring	dist	anc	е		= 1	
Н		F	levea	ıl		\	N	P	S
	7	5	3	1	-	1	6		
0	10	8	6	4	2	1	9	21.5	31
	13 11 9 7 5						2		
	3	4	5						
	B = boring distance								

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



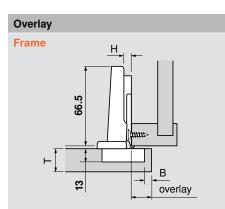
2100

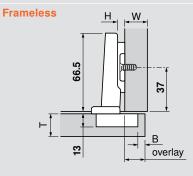
CLIP top 110°+

Hinges

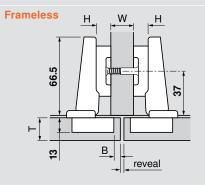
Features

- 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





Partial/twin overlay							
Frameless ⊢	S S S S S S S S S S S S S S S S S S S						
	→ →						



Н		Р	S							
	10	47	00	10						
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	Fixed distance						
	B = boring distance =									

NOTE: 4.5 plate is only for use in frame cabinets, 9 plate is only for frameless 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								S	
9	7	8	8.	5 9	9	10	11	19	29	
	3	4	4.	5 5	5	6	7	Fixed distance		
		B =	bori	ng d	istaı	nce		= 1		
Н			Re۱	/eal			W	Р	S	
	2	-	-	-	-	-	16			
9	5	3	2	-	-	-	19	19	29	
	8	6	5	4	-	-	22			
	3	4								
	E	3 = b								

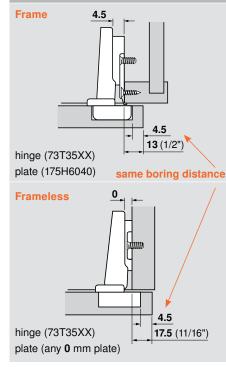
Straight-arm	Self close	Free swing
Screw-on	73T3550	72T3550.TL
Press-in	73T3580	72T3580.TL
INSERTA	73T3590	72T3590.TL
EXPANDO	73T358E	

Ablum

	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					

Thickness greater than 26 trial recommended

Building both frame and panel cabinets



The most common overlays for frame and frameless 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 frameless
- 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°





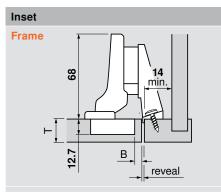
Ablum

Features

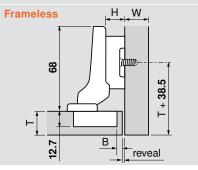
- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to **22** (7/8")
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

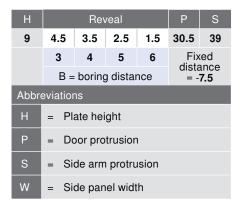
	Minimum reveal table							
3	1.2	1.7	2.0	2.4	3.3			
4	1.2	1.7	2.0	2.3	3.1			
5	1.1	1.6	1.9	2.2	3.0			
6	1.1	1.6	1.9	2.2	2.9			
B =	16	18	19	20	22			
boring distance	T = door thickness							

Thickness greater than 22 trial recommended

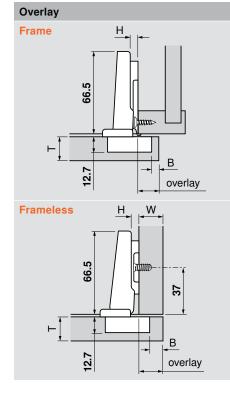


NOTE: Application requires a half-cranked hinge and mounting plate 175H5030.21





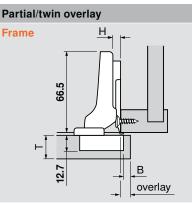
Half-cranked	Self close
Screw-on	71T5650
Press-in	71T5680
INSERTA	71T5690B

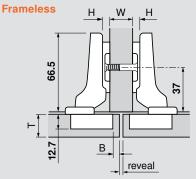


Н		Ove	Р	S		
0	14	15	16	17	11.5	20.5
3	11	12	13	14	14.5	23.5
4.5	9.5	10.5	11.5	12.5	16	25
6	8	9	10	11	17.5	26.5
9	5	6	7	8	20.5	29.5
	3	4		ed		
	B = boring distance = 11					

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

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





Н		Overlay					S	
0	4.5	5.5	5 6	.5	7.5	21.5	30	
	3	4	Ę	5	6	Fix dista		
	В	= bor	ing di	stan	се	uista = 1		
Н		Rev	veal		W	P	S	
	7	5	3	1	16			
0	10	8	6	4	19	19 21.5 30		
	13	11	9	7	22	1		
	3	4	5	6				
	B = boring distance							

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



CLIP top 120°+

Hinges

A**blum**



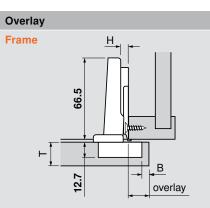
Features

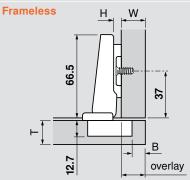
- For larger overlays (21 mm maximum) with use of side adjustment
- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 22 (7/8")
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

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

Thickness greater than 22 trial recommended

Building both frame and panel cabinets

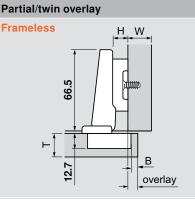


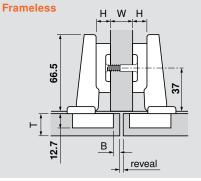


Н		C	Overla	у		Р	S
0	16	17	17.5	18	19	12	21.5
3	13	14	14.5	15	16	15	24.5
4.5	11.5	12.5	13	13.5	14.5	16.5	26
6	10	11	11.5	12	13	18	27.5
9	7	8	8.5	9	10	21	30.5
	3 4 4.5 5 6 Fixed distance						
							ance 13

B = boring distance = 13 NOTE: 4.5 plate is only for use in face frame cabinets, 9 plate is only for frameless cabinets

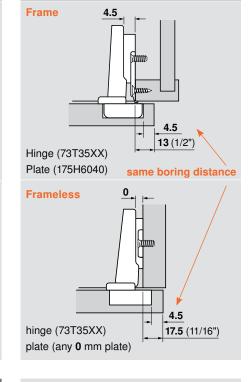
Straight-arm	Self close
Screw-on	73T5550
Press-in	73T5580
INSERTA	73T5590B
EXPANDO	73T558E





Н	Overlay							Ρ	S
9	7	8	8.5	5 9	•	10	1	8.5	28
	3	4	4.5	5 5	5	6		Fix	
	E	3 = bo	oring	dista	nce	Э		dista = ·	
Н		R	levea	ıl		V	I	Р	S
	2	-	-	-	-	1	6		
9	5	3	2	-	-	1	9	18.5	28
	8	6	5	4	-	2	2		
	3	4	4.5	5	6	;			
	B = boring distance								

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



The most common overlays for frame and frameless 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 frameless
- cabinets

Advantages:

- 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 95° Thick Door





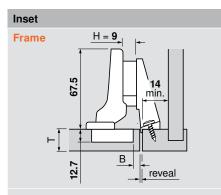
Ablum

Features

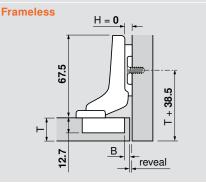
- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to **30** (1-3/16")
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available



Thickness greater than 30 trial recommended

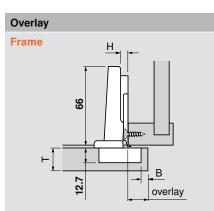


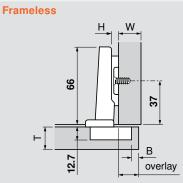
NOTE: Application requires a half-cranked hinge and mounting plate 175H5030.21



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	5	6	7	Fixed d	istance:	
	В	= boi	ring d	istand	ce	9 =		
Abb	reviat	ions						
Н	=	= Plate height						
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	

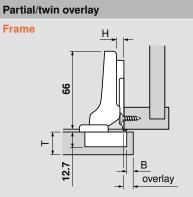


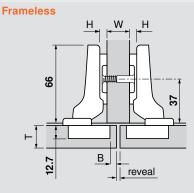


Н		C	Р	S				
0	14	15	16	17	18	14.5	22	
3	11	12	13	14	15	17.5	25	
4.5	9.5	10.5	11.5	12.5	13.5	19	26.5	
6	8	9	10	11	12	20.5	28	
9	5	6	7	8	9	23.5	31	
	3 4 5 6 7 Fixed							
B = boring distance = 11								
NOT	NOTE: 4.5 plate is only for use in frame							

cabinets, **9** plate is only for frameless cabinets

Straight-arm	Self close	Free swing
Screw-on	71T9550	70T9550.TL
Press-in	71T9580	70T9580.TL
INSERTA	71T9590B	





Н	Overlay							Ρ	S
0	4.5	5.5	6.5	5 7	.5	8	.5	24	31
	3	4	5	(6	7	7	Fixed distance	
	E	3 = bo	oring	dista	anc	е		= 1	
Н		R	evea				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	6	7	'			
	B = boring distance								

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



CLIP top 170°

Hinges

A**blum**



Features

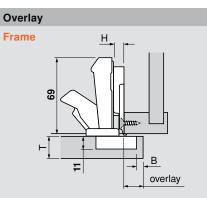
- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 24 (15/16")
- 130° angle restriction clip available (70.6103)
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

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	ance T = door thickness						

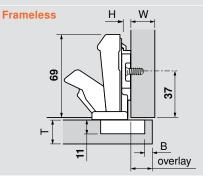
Thickness greater than 24 trial recommended

Inset

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



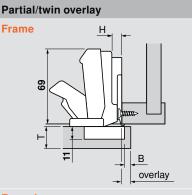
NOTE: 175H6xxx or 175L6600.24 recommended

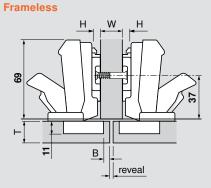


Н	Overlay							S	
0	14	15	16	17	18	19	1.5	65	
3	11	12	13	14	15	16	4.5	68	
4.5	9.5	10.5	11.5	12.5	13.5	14.5	6	69.5	
6	8	9	10	11	12	13	7.5	71	
9	5	6	7	8	9	10	10.5	74	
	3	4	5	6	7	8	Fixed distance		

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

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

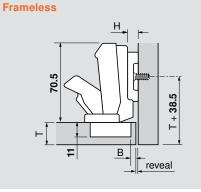




Н		Overlay					Р	S
0	4.5	5.5	6.5	7.5	8.5	9.5	11	75
	3	3 4 5 6 7 8						ked ance
		B = boring distance						1.5

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								
	B = boring distance								

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





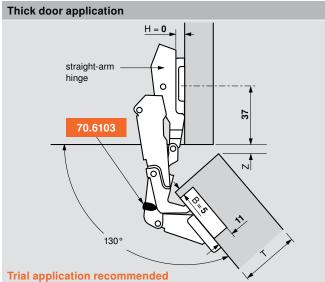
Abbr	Abbreviations						
Н	= Plate height						
Р	= Door protrusion						
S	= Side arm protrusion						
W	= Side panel width						

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

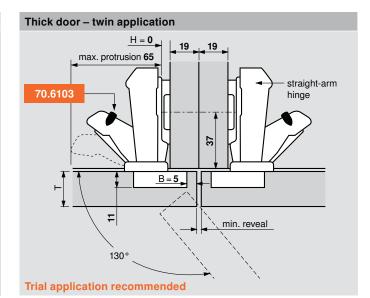
CLIP top 170° **Special Applications**



Straight-Arm Applications



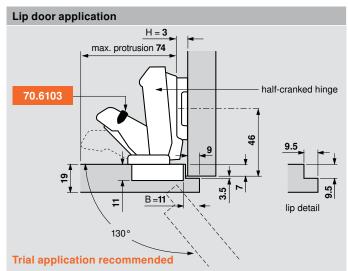
Ablum

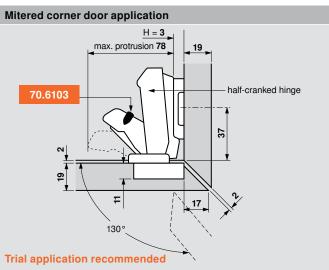


Z = gap					
15.5	13	11	9.5	7.5	
25	29	32	35	38	
T = door thickness					

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

Half-Cranked Applications

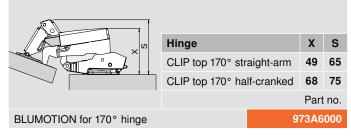




NOTE: Special applications can be achieved in face frame cabinets by blocking out behind the frame or use of the new CLIP wing plates (pages 62-63)



BLUMOTION for 170° hinge







CLIP top 155° Zero Protrusion

Hinges

A**blum**

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 16



H STZ H H B overlay

Door protrusion

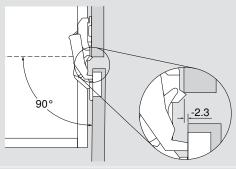
Features

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.

For use in cabinets with interior roll-outs

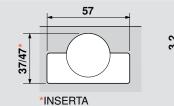
Three-dimensional adjustment

Available with INSERTA attachment For door thicknesses up to **24** (15/16") Angle restriction clips available All metal hinge, nickel-plated



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

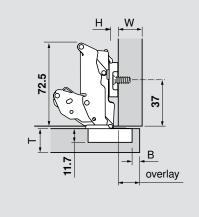
Hinge cup dimensions





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

Frameless



Н		Overlay					Р	S
0	14	15	16	17	18	19	-2.3	61
3	11	12	13	14	15	16	0.7	64
	3	3 4 5 6 7 8						ed
								ance 11

Straight-arm	Self close
Screw-on	71T7550
INSERTA	71T7590



NOTE: See page **57** for instructions and details.

CLIP top 60° Bi-Fold

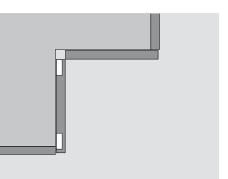


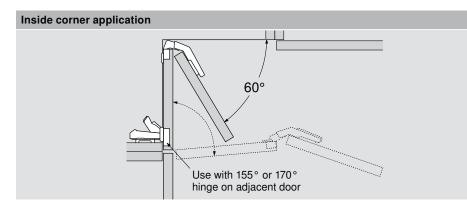


Ablum

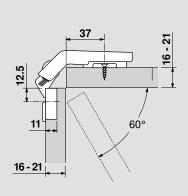
Features

- Spiral tech side adjustment for door gap
- Spiral tech depth adjustment for in/out
- Four-dimensional adjustment
- All metal hinge, nickel-plated
- For door thicknesses of 16-21



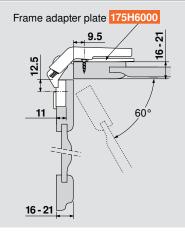


With flat panel doors



Adjustment				
The spiral tech cam adjustment of the CLIP top bi-fold hinge allows +4/-7 mm adjustment				
Bi-fold hinges		S	Self c	lose
Screw-on		79	T850	0.10
Press-in		79	T853	30.10

With profile doors

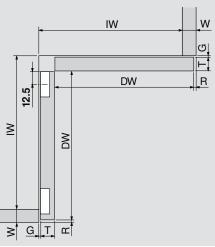


Calculating door sizes

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 (IW) 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 -1 DW = 496 mm



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



CLIP top 95° **Inset Blind Corner**

Hinges

blum



Features

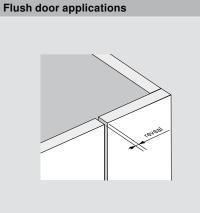
- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 24 (15/16")
- All metal hinge, nickel-plated

Offset door applications

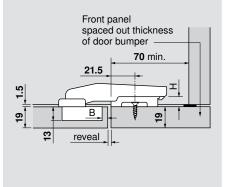
Minimum reveal table									
3	0.1	0.3	0.4	0.5	0.9	1.3			
4	0.1	0.3	0.4	0.5	0.9	1.3			
5	0.1	0.3	0.4	0.5	0.9	1.3			
6	0.1	0.3	0.4	0.5	0.9	1.2			
7	0.1	0.3	0.4	0.5	0.9	1.2			
B =	16	18	19	20	22	24			
boring distance	T = door thickness								

Thickness greater than 24 trial recommended

Adjustments and clearances



Back of door is flush with front panel





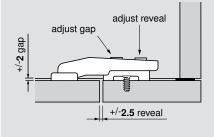
Press-in

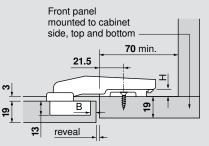
INSERTA

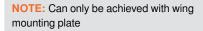
Inset blind corner	Self close
Screw-on	79T9550

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

reveal (





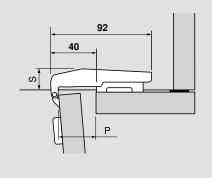


Н		F	Р	S			
0	5	33.5	18				
	3	4					
	В	= boi					

Self close 79T9550

79T9580

79T9590B



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

CLIP top 95° Overlay Blind Corner





Ablum

Features

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

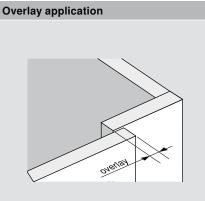
Adjustments and clearances

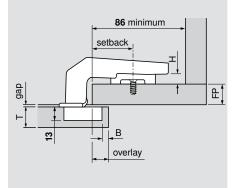
adjust gap

adjust overlay

Minimum reveal table										
3	0.1 0.3 0.4 0.5 0.9									
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	6 0.1		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





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

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.

]
↑ +/-2.5 overla	<u>ıy</u>
	<u></u>

NOTE: Door gap can be adjusted ± 2 mm

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

NOTE: The door gap varies depending on the stationary panel thickness and the mounting plate height. Use the table to cross-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° Narrow Aluminum Door

Hinges

A**blum**

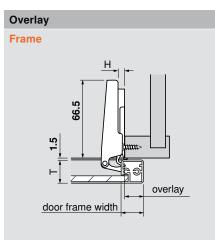


Features

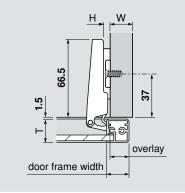
- Not for use with BLUMOTION 973A
- Three-dimensional adjustment
- For door thicknesses up to 22 (7/8")
- Door width 18-22
- All metal hinge, nickel-plated

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 = do	oor thic	kness	

Thickness greater than 22 trial recommended



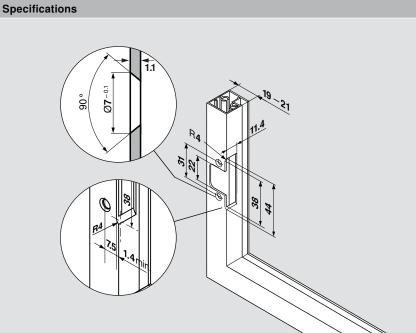
Frameless



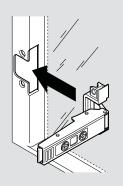
Н	Overlay	Р	S
0	15	8	19.5
3	12	11	22.5
4.5	10.5	12.5	24
6	9	14	25.5
9	6	17	28.5
	Fixed boring distance		

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

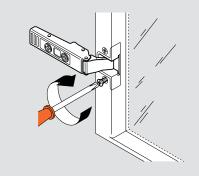
Straight-arm	Self close	Free swing
Screw-on	73T550A	72T550A.TL



Insert hinges into machined openings



Attach with special screws provided with hinges (699.110)



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

CLIP top 110° Diagonal 45°

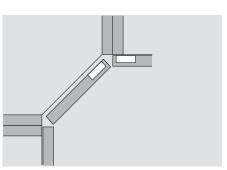




Ablum

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

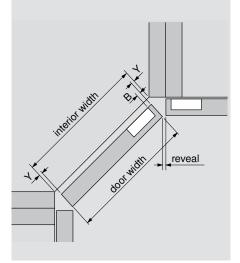
Calculating door width

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).

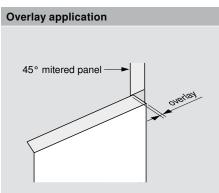
Example: Interior width = 400 mm, side gap (Y) = 4.5 mm.

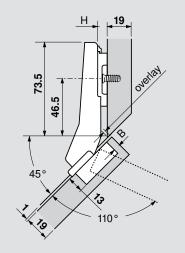
391 = **400** minus (4.5 x 2)



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

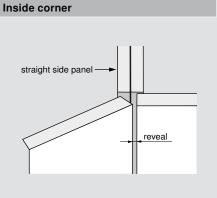
Abbr	eviations
Н	= Plate height
Y	= Side gap

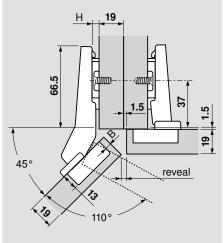




Н	Overlay					
0	1	2	3	4		
	3 4 5 6					
	B = boring distance					

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

 Diagonal 45° hinges
 Self close

 Screw-on
 79T5550

 Press-in ____
 79T5580

 INSERTA
 79T5590B



CLIP top 95° Mini

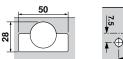
Hinges

A**blum**

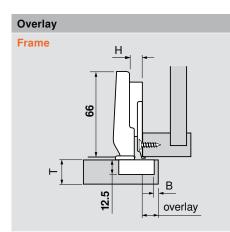


Features

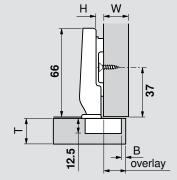
- For doors with small frames/stiles
- Side adjustment of +0.5 mm to -3.5 mm
- **26** mm drill bit required (1" cannot be used)
- Three-dimensional adjustment
- For door thicknesses up to 26 (1")
- All metal hinge, nickel-plated







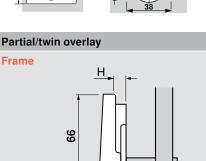
Frameless

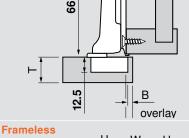


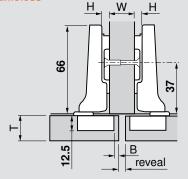
Н	Overlay			Р	S
0	13	14	15	6	19
3	10	11	12	9	22
4.5	8.5	9.5	10.5	11	23.5
6	7	8	9	12	25
9	4	5	6	15	28
	3 4 5 Fixed				
	B = boring distance distance = 10				

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

Straight-arm	Self close
Screw-on	71T0550







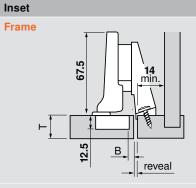
Н	Overlay			Р	S
0	3.5	4.5	5.5	15.5	24
	3 4 5			Fix dista	
	B = boring distance				

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	oring dis				

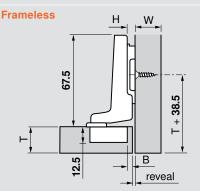
Half-cranked	Self close
Screw-on	71T0650

	Minimum reveal table						
3	1.1	2.2	3.0	3.8	5.5	7.3	9.1
4	1.1	2.0	2.7	3.5	5.0	6.8	8.6
5	1.1	1.8	2.4	3.0	4.6	6.3	8.0
B =	16	18	19	20	22	24	26
boring distance T = door thickness							

Thickness greater than 26 trial recommended



NOTE: This application uses a half-cranked hinge and mounting plate 175H5030.21



Н	Reveal			Р	S	
0	5	4	3	24	32	
	3	4	5	Fixed distance		
	B = boring distance					

Abbr	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**



21 1 20 6.

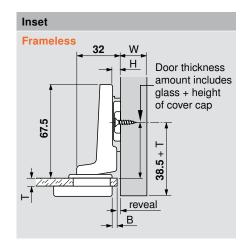
Ablum

Features

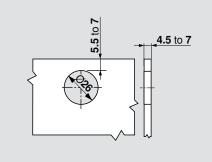
- For glass thickness of 4.5 mm to 7 mm
- Side adjustment of +0.5 mm to -3.5 mm
- Three-dimensional adjustment
- Fixing screws included (605.1100)
- 26 mm drill bit required (1" cannot be used)

	Minimu	um 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 =	4.5	5	6	7				
boring distance	T = door thickness							

Thickness greater than 7 trial recommended

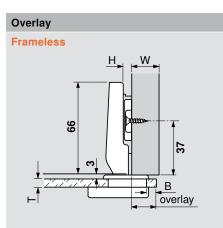


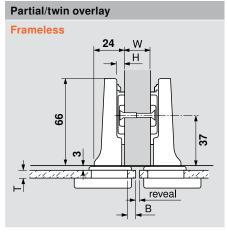
Boring pattern



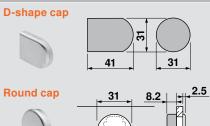
Н		Rev	Р	S		
0	2.5	2	1.5	1	23.5	32
	5.5	6	6.5	7	Fix dista	
	B =	boring	g distai	nce	=	
Abbre	previations					
Н	= Plate height					
Р	= Door protrusion					
S	= Side arm protrusion					
Т	= Door thickness					
W	= Side panel width					

Full-cranked	Self close
Screw-on	75T4300





Cover caps for door front



			1.12	
1				
		[·	Щ.	
				4.5 to 7

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	6.5	7	Fix	
	B = boring distance = 10					

 Required o 	n door front
--------------------------------	--------------

- D-shape available in polished chrome Round available in black and polished chrome

	Part no.
D-shape cover cap	84.4120
Round cover cap	84.4140

Н	Reveal			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 distance				_		
	B = boring distance				a	= . 5	e

Self close 75T4200

Self close

75T4100

Half-cranked

Screw-on

Straight-arm

Screw-on



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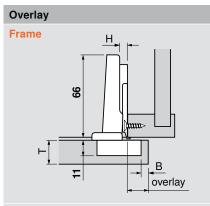


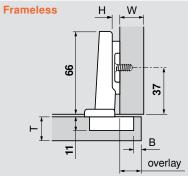
Features

- 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

	Mini	mum	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 thickness					

Thickness greater than 24 trial recommended

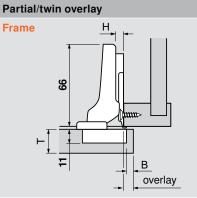


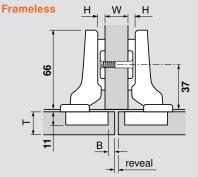


Н		Ove	Р	S		
0	14	15	16	17	9	20
3	11	12	13	14	12	23
4.5	9.5	10.5	11.5	12.5	13.5	24.5
6	8	9	10	11	15	26
9	5	6	7	8	18	29
	3 4 5 6 Fixed					
	B = boring distance = 11					

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

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

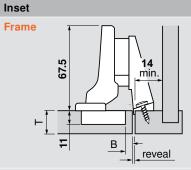




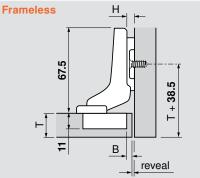
Н	Overlay			Р	S	
0	4.5	5.5	6.5	7.5	18.5	30
	3	4	5	6	Fix dista	
	B =	uista = 1				

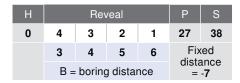
Н	Reveal				W	Р	S
	7	5	3	1	16		
0	10	8	6	4	19	18.5	30
	13	11	9	7	22		
	3	4	5	6			
	B = boring distance						

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



NOTE: This application uses a half-cranked hinge and mounting plate 175H5030.21





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

Hinges

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Positive Angle Hinges

NOTE: CLIP top BLUMOTION CLIP top





*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

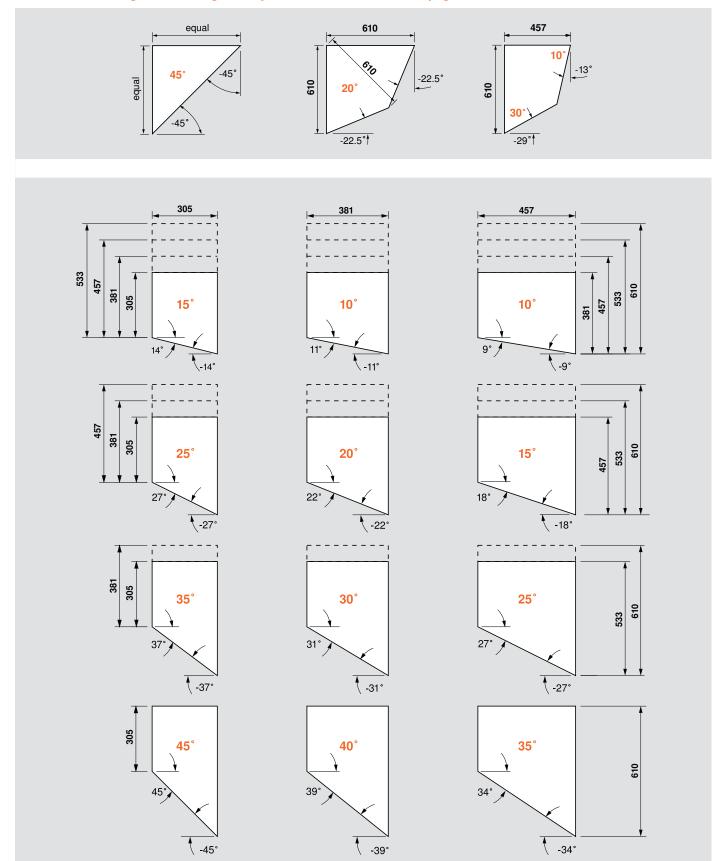


Angled hinges



Match desired configuration to angle-to-style cross-reference chart on page 46

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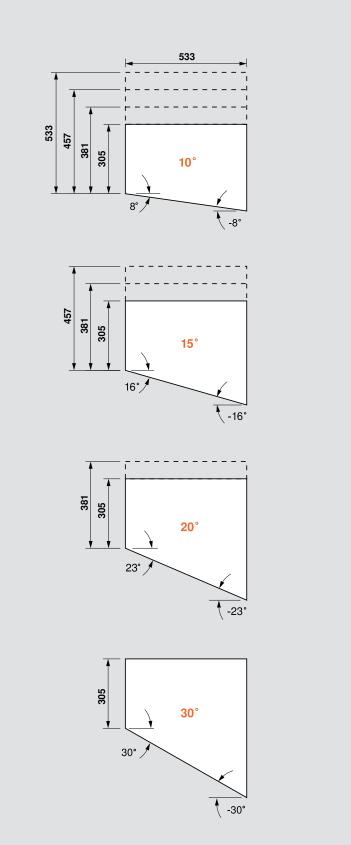


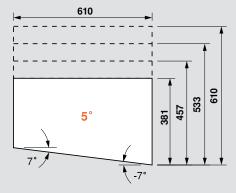
Angled Cabinet Configurations

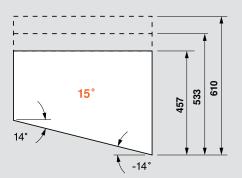
Hinges

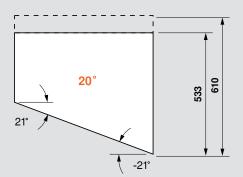
A**blum**

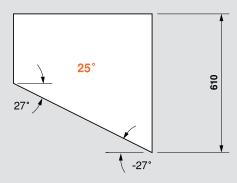
Match desired configuration to angle-to-style cross-reference chart on page 46











Angle-to-Style Cross-Reference

wedge plate hinge -

front angle

181.6130



	Application number
CLIP top BLUMOTION	Part number
CLIP top	Part number
Mounting plate	Part number
May or may not be required	Part number
	CLIP top Mounting plate

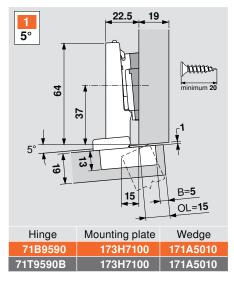
NOTE: All 35 mm and 8 mm holes must be a minimum of 13 mm deep

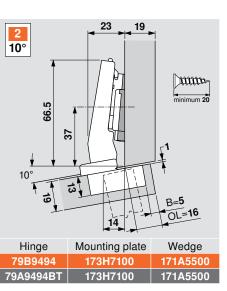
	Positive angles						Negative angles	
							J	
	Maximum overlay	Partial overlay	Corner merge	Inset door	Mitered corner		Maximum overlay	Inset door
	1	10	19	27			42	51
	71B9590	71B9590	71B9690	71B9790			71B9590	71B9690
5°	71T9590B	71T9590B	71T9690B	71T9790B		-5°	71T9590B	71T9690B
	173H7100	173H7100	173H7100	173H7100			173H7100	173H7100
	171A5010	171A5010	171A5070	171A5010			171A5500	171A5500
	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	171A5500	171A5500			171A5010	171A5010
	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	171A5500	171A5500	1		
	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	171A5500
	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	171A5010	171A5500		171A5500		171A5040	171A5070
	6	15	24	32	39		47	
30°	79B9496	79B9596	79B9596	79B9596	79B9596	-30°	79B3491	
	79A9496BT	79A9596BT	79A9596BT	79A9596BT	79A9596BT		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		171A5500			171A5040	=
	9	18	26	35	41	45.0	50	56
150	79B9498	79B3598	79B9698	79B3598	79B9698		79B3490	79B3490
45°	79A9498BT	79T5590B	79A9698BT	79T5590B	79A9698BT	-45°		79A5490BT
	175H9160	173H7100	173H7100	175H9190.22	173H7100		173H7130	175H7190

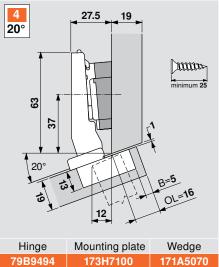


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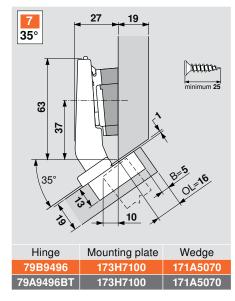
Positive Angle Applications

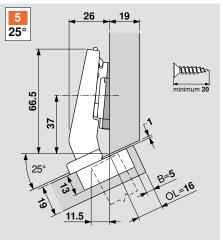




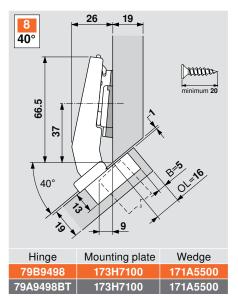


пінуе	mounting plate	weuge
79B9494	173H7100	171A5070
79A9494BT	173H7100	171A5070

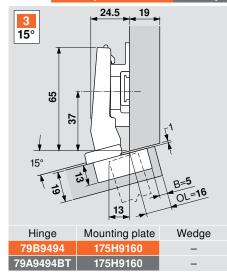


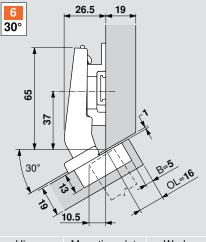


Hinge	Mounting plate	Wedge
79B9496	173H7100	171A5500
79A9496BT	173H7100	171A5500

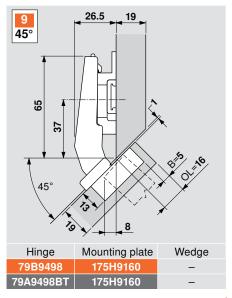


NOTE: CLIP top BLUMOTION CLIP top





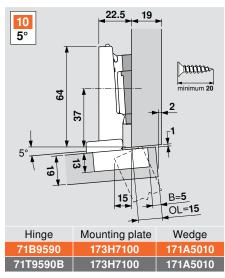
Hinge	Mounting plate	Wedge
79B9496	175H9160	-
79A9496BT	175H9160	-

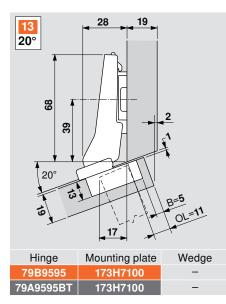


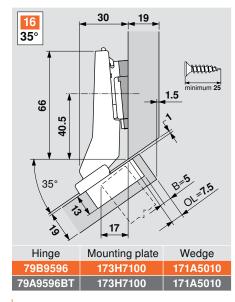
Partial Overlay Specifications

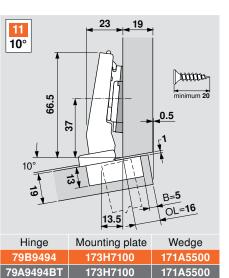


Positive Angle Applications







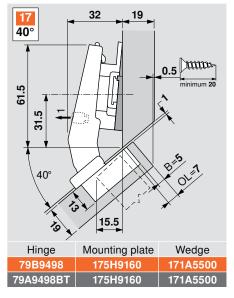


<mark>14</mark> 25°	28 19	
99 99 99 99 99 99 99 99 99 99 99 99 99		1.5 1 1.5 1 0.5 0.5 0
Hindo	Mounting plate	Wodao

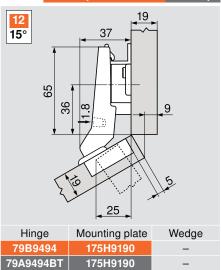
 Hinge
 Mounting plate
 Wedge

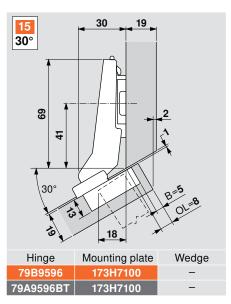
 79B9595
 173H7100
 171A5010

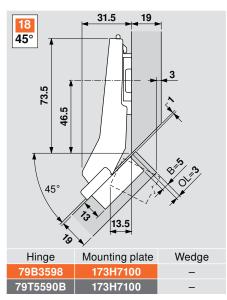
 79A9595BT
 173H7100
 171A5010



NOTE: CLIP top BLUMOTION CLIP top



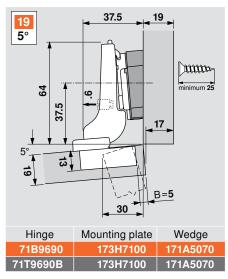


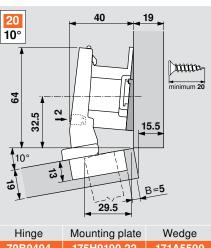




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Positive Angle Applications





3-		
79B9494	175H9190.22	171A5500
9A9494BT	175H9190.22	171A5500

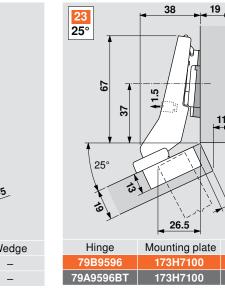
minimum 20

B=5

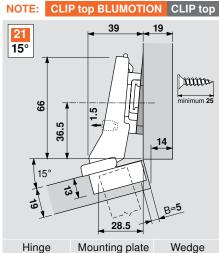
Wedge

171A5500

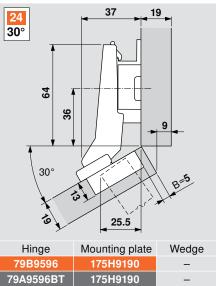
171A5500

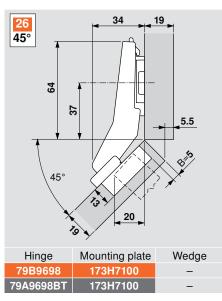


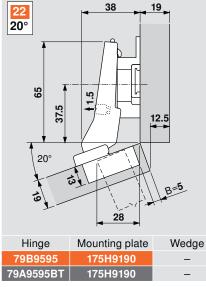
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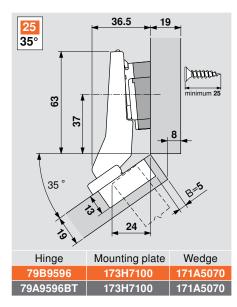


ппуе	mounting plate	wedge
79B9595	173H7130	171A5500
79A9595BT	173H7130	171A5500







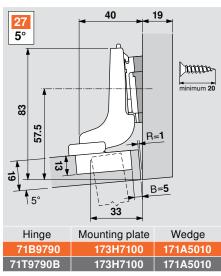


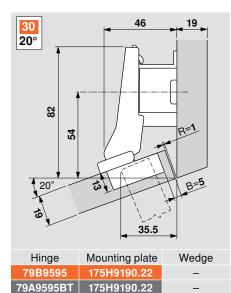
Angled hinges

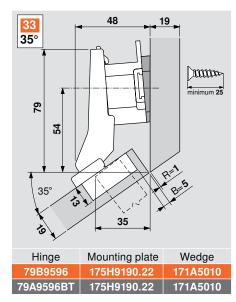
Inset Door Specifications

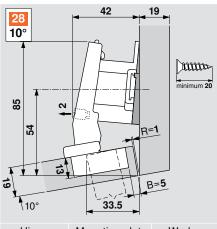


Positive Angle Applications

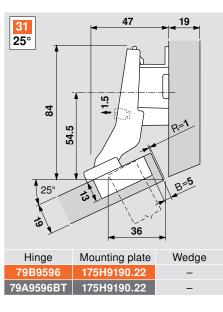


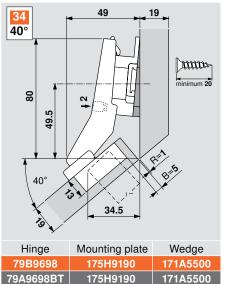




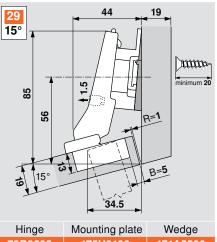


Hinge	Mounting plate	Wedge
79B9494	175H9190.22	171A5500
79A9494BT	175H9190.22	171A5500

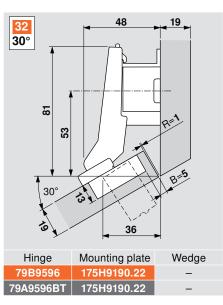


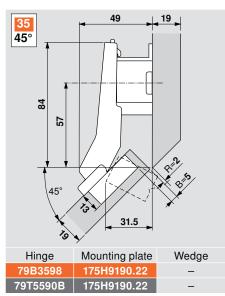


NOTE: CLIP top BLUMOTION CLIP top



	mouning plate	go
79B9595	175H9190	171A5500
79A9595BT	175H9190	171A5500





Mitered Corner Specifications

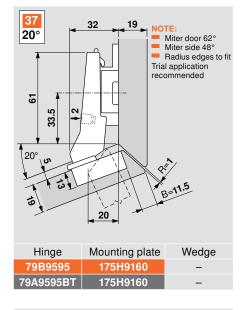


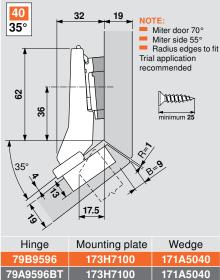
Hinges

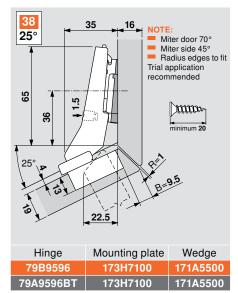


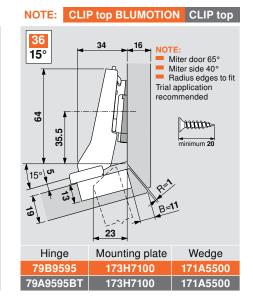
Positive Angle Applications

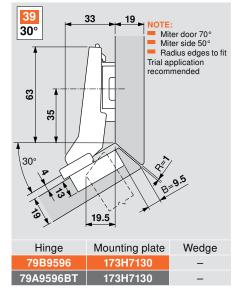


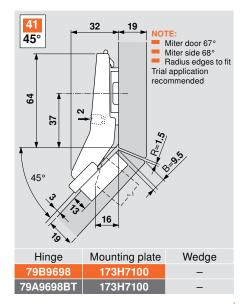








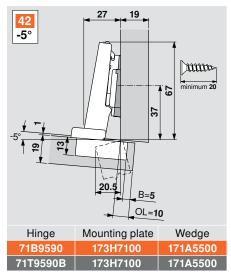


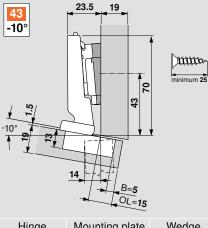




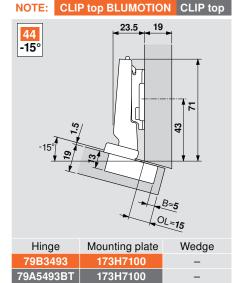
Ablum

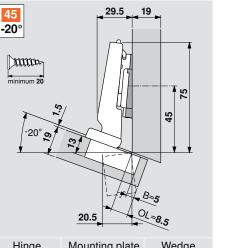
Negative Angle Applications



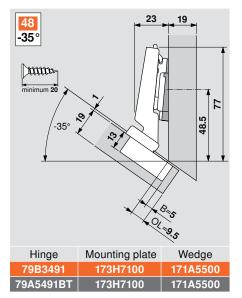


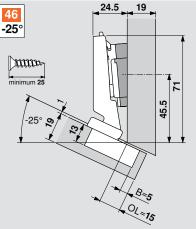
Hinge	Mounting plate	Wedge
79B3493	173H7100	171A5010
79A5493BT	173H7100	171A5010



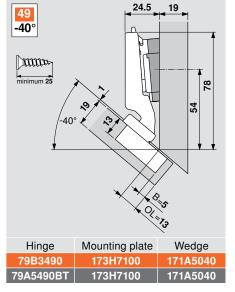


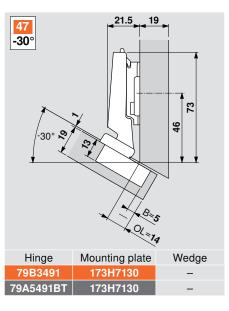
Hinge	Mounting plate	Wedge
79B3493	173H7100	171A5500
79A5493BT	173H7100	171A5500

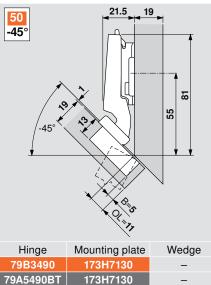




Hinge	Mounting plate	Wedge
79B3491	173H7100	171A5040
79A5491BT	173H7100	171A5040



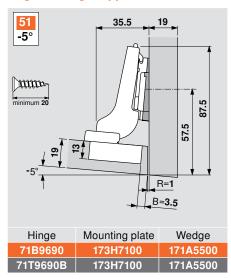


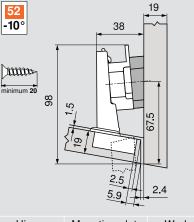




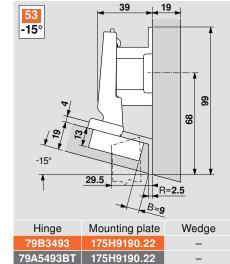


Negative Angle Applications

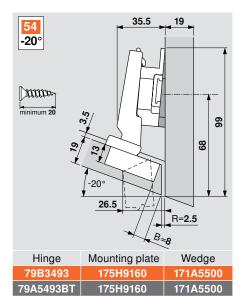


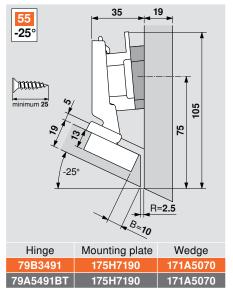


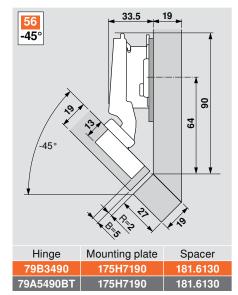
Hinge	Mounting plate	Wedge
79B3493	175H7190	171A5010
79A5493BT	175H7190	171A5010



NOTE: CLIP top BLUMOTION CLIP top

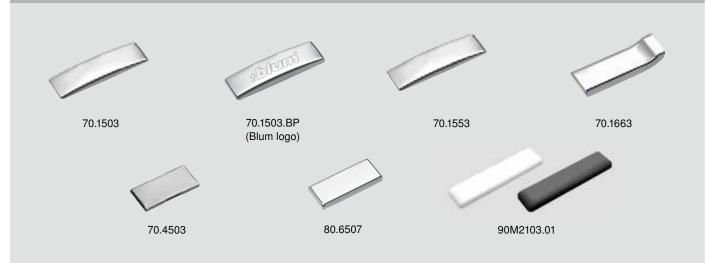








Hinge arm cover caps



		Nylon	Steel
100°, 107°, 110°, 110°+, 120°, 120°+, thick door	Straight-arm	90M2103.01	70.1503
and bi-fold hinges	Embossed Blum logo		70.1503.BP
	Cranked-arm		70.1663
Diagonal 45°, blind corner, narrow aluminum door	hinges	90M2103.01	70.1503
Angled, mini and glass door hinges with straight o	r cranked-arms		70.1553
155°/125° hinges			70.4503
170° hinges			80.6507

NOTE: Custom logo cover caps available (minimums apply)

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
- Not for use with INSERTA hinges



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



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.

70T3504

Part no.

181.6130

3 mm spacer Reduces overlays by 3 mm Mounts under CLIP wing mounting plates

- -Stackable
- Gray nylon

3 mm spacer

-

Part no.

70T1504



Hinge cup cover cap

Angle F	Restriction Clips	Hinges
		Ablum °
Angle restriction clip for 107° hinges		
	 For use with CLIP top Installs quickly, easily Non-removable Black nylon 	Part no.
	86° Angle restriction clip	74.1103
Analo vectulation ally fay 1400 his so		
Angle restriction clip for 110° hinges	For use with CLIP top	le of the CLIP top 110° and 110°+ to 86° 110° and 110°+ hinges only and tool-free either before or after the hinge Part no.
	86° Angle restriction clip	70T3553
Angle restriction clip for 170° hinges		
		le of the CLIP top 170° to 130° pplications of the 170° hinge and tool-free Part no.
	130° Angle restriction clip	
Angle restriction clips for zero protrusion hinges		
	 125° hinges to 92° For use with 155°/125° Installs quickly, easily Gray nylon 	and tool-free Part no.
	110° Angle restriction clip	70T7553
92°	 Reduces opening angl For use with 155° hing Installs quickly, easily Gray nylon 	and tool-free
		Part no.
	92° Angle restriction clip	70T7553.09

NOTE: Angle restriction clip 70T7553 provides the 155° hinges with 110° and the 125° hinges with 92°

CLIP Mounting Plates



Weed corow		— Otaal misleal mistari		
Wood screw		 Steel, nickel-plated Attached with #6 x 5/8" wood screws Height adjustment ±3 mm 		
ĊŎ,	×+ 33	Part no 0 plate height (H) 173L610		
	37	3 plate height (H) 173L613		
System screw		 Steel, nickel-plated Attached with pre-mounted Ø5 mm system screws (668.1450.EH) Height adjustment ±3 mm 		
	₿ ++ -+ -+			
		Part no		
	37	0 plate height (H) 173L810		
	11	3 plate height (H) 173L813		
EXPANDO		 Steel, nickel-plated Attached with pre-mounted screws with EXPANDO dowels Height adjustment ±2 mm 		
	°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°	Part no		
	⊲ 37 →	0 plate height (H) 174E6100.0		
EXPANDO (twin application)		 Steel, nickel-plated Attached with pre-mounted screws with EXPANDO dowels for twin application Height adjustment ±2 mm 		
	8 → ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★	Part no		
	37	0 plate height (H) 174E610		
System screw		 Zinc die-cast, nickel-plated Attached with pre-mounted Ø5 mm system screws (668.1450.EH) Height adjustment ±3 mm 		
		Part no		
	<u>→ >/</u> →	9 plate height (H) 175L819		

*Add additional wood screw if used with wide angled hinges

CLIP Mounting Plates

Hinges

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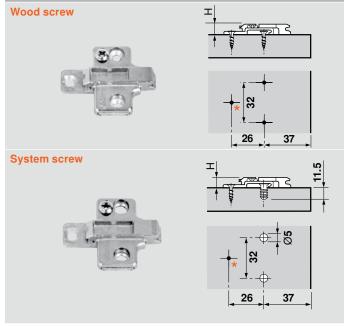
Cam adjustable wing mounting plates		
Wood screw		 Steel, nickel-plated Attached with #6 x 5/8" wood screws Cam height adjustment ±2 mm
		Part no. 0 plate height (H) 173H7100 3 plate height (H) 173H7130
System screw		 Steel, nickel-plated Attached with #7 x 5/8" wood screws or Ø5 x 13 mm system screws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

*Add additional wood screw if used with wide angled hinges

CLIP Mounting Plates



Standard two-piece wing mounting plates



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

Part no.

0 plate height (H)	175H7100
3 plate height (H)	175H7130
9 plate height (H)	175H7190

Zinc die-cast, nickel-plated

Attached with #7 x 5/8" wood screws or \varnothing 5 x 13 mm system screws

Height adjustment ±2 mm

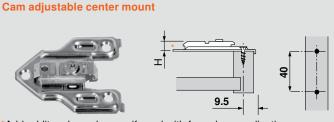
	Part no.
0 plate height (H)	175H9100
3 plate height (H)	175H9130
6 plate height (H)	175H9160
9 plate height (H)	175H9190
18 plate height (H)	175H9190.22

Wood screw = Steel, nickel-plated Attached with #5 x 5/8" wood screws Cam height adjustment ±2 mm Use of mounting plate template recommended Press-in Image: Cam height adjustment ±2 mm Image: Cam height adjust	Cam adjustable in-line mounting p	lates		
Press-in Image: Constrained state stat	Wood screw		 Attached with #6 x 5/8" wood screws Cam height adjustment ±2 mm Use of mounting plate template recommended 	Part no.
 EXPANDO Steel, nickel-plated Attached with pre-mounted screws with EXPANDO dowels Cam height adjustment ±2 mm Use of mounting plate template recommended Part no. 0 plate height (H) 	Press-in		 Steel, nickel-plated Pre-attached with 10 mm dowels Cam height adjustment ±2 mm Use of insertion ram MZM.0053 required 	Part no.
	EXPANDO		 Steel, nickel-plated Attached with pre-mounted screws with EXPAI Cam height adjustment ±2 mm Use of mounting plate template recommended 	Part no.

*Add additional wood screw if used with wide angled hinges

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Face frame adapter plates



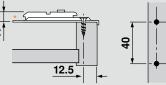
*Add additonal wood screw if used with frameless application

NOTE: CLIP top BLUMOTION and CLIP top 110° INSERTA hinges

can be used with this plate add additional wood screw if used

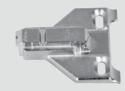
Cam adjustable off-center mount with frameless application

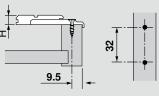




*Add additonal wood screw if used with frameless application

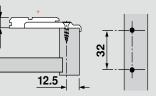
Center mount



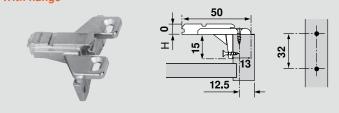


Off-center mount

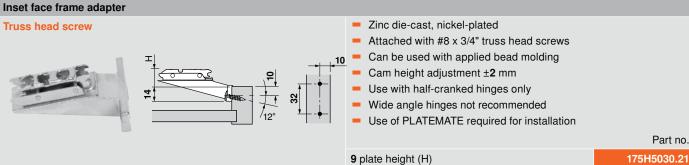




*Add additonal wood screw if used with frameless application With flange



NOTE: Use of PLATEMATE required with all face frame adapter plates. Reference page 99



0 plate height (H)

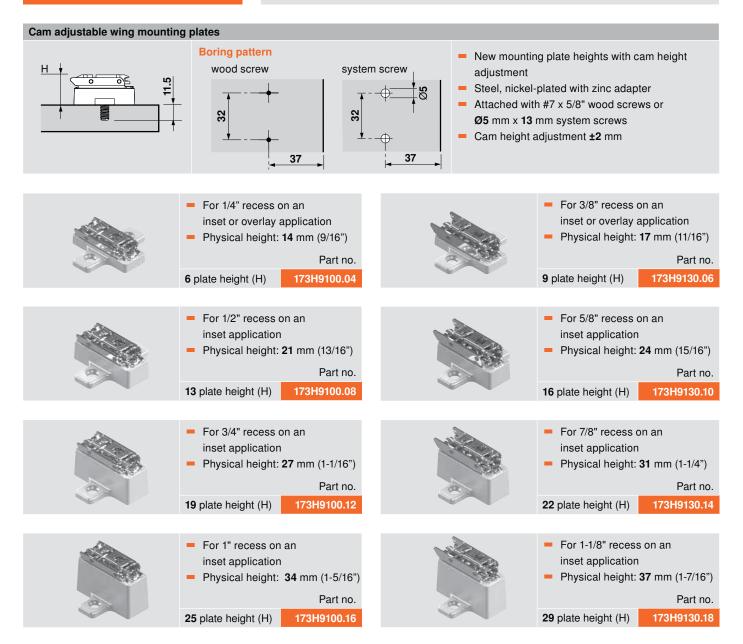
- Steel, zinc die-cast and nickel-plated
- Attached with #7 x 3/4" wood screws
- Center mount 9.5 (3/8")
- Cam height adjustment ±2 mm

 175H6000 not for use with 95°, 107° and 120° I 	NSERTA 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.
3 plate height (H)	175L6030.21
 Zinc die-cast, nickel-plated Attached with #7 x 3/4" wood screws Off-center mount 12.5 (1/2") Height adjustment ±2 mm 	Part no.
0 plate height (H)	175L6600.22
3 plate height (H)	175L6630.22
6 plate height (H)	175L6660.22
 Recommended when using 170° and zero protri frame cabinets Zinc die-cast, nickel-plated Attached with #7 x 3/4" wood screws Off-center mount 12.5 (1/2") Height adjustment ±2 mm 	usion hinges on face

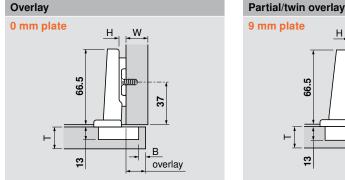
Part no. 175L6600.24

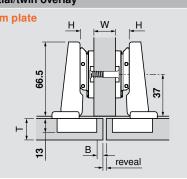
CLIP Wing Mounting Plates

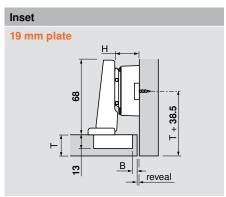




Frameless Applications



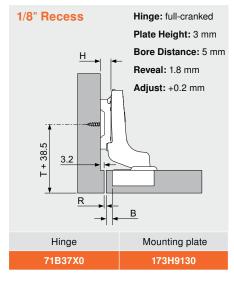


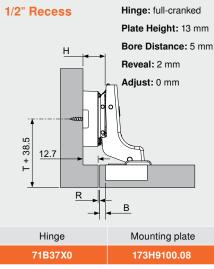


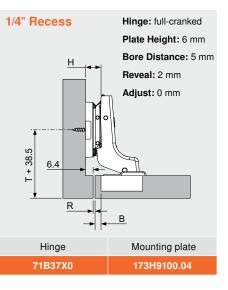
NOTE: With our new CLIP wing mounting plate program, all three of the common frameless applications, (full overlay, half overlay and inset) can be achieved with a straight-arm hinge and cam height adjustment. An alternative inset application, includes the use of a half-cranked hinge and 9 mm cam height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

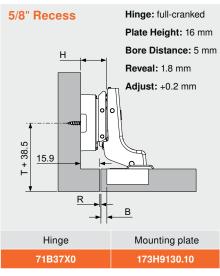
Inset Applications for Face Frame

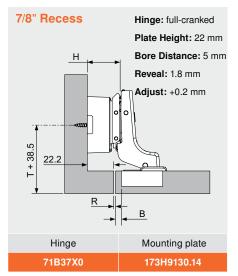
Hinges

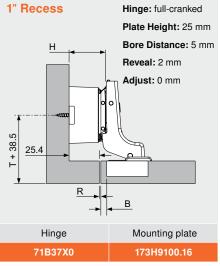




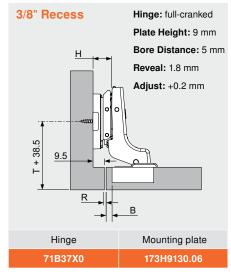




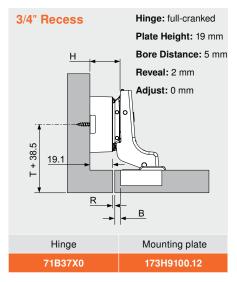


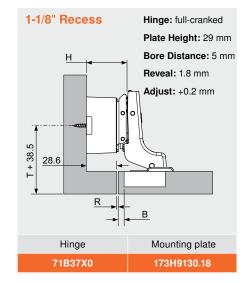


NOTE: B = Bore Distance | H = Plate Height | R = Reveal | T = Door Thickness



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BLUMOTION for Doors Overview for CLIP Hinges

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		107°	110°	110°+	120°	120°+	170°	95°
		Standard hinge	Standard hinge	Standard hinge	Standard hinge	Standard hinge	Standard hinge	Thick door hinge
		Straight-arm hinge, 0 plate						
		973A0500.01	973A0500.01	973A0500.01	973A0500.01	973A0500.01	973A6000	973A0500.01
Overlay	-							
		971Axxxx						
								0000000
		970A1002						
ıy	-	Straight-arm hinge, 9 plate						
/erla		973A0500.01	973A0500.01	973A0500.01	973A0500.01	973A0500.01	973A6000	973A0500.01
Partial/twin overlay	-		Half-cranked hinge, 0 plate		Half-cranked hinge, 0 plate		Half-cranked hinge, 0 plate	Half-cranked hinge, 0 plate
arti			973A0600		973A0600		973A6000	973A0600
		970A1002						
		Straight-arm hinge, 18 plate						
		973A0500.01	973A0500.01	973A0500.01	973A0500.01	973A0500.01	973A6000	973A0500.01
it			Half-cranked hinge, 9 plate		Half-cranked hinge, 9 plate		Half-cranked hinge, 9 plate	Half-cranked hinge, 9 plate
Inset			973A0600		973A0600		973A6000	973A0600
			Full-cranked hinge, 0 plate					Full-cranked hinge, 0 plate
			973A0700					973A0700
	-	970A1002						
		570A1002	570A1002	570A1002	570A1002	570A1002	510A1002	570A1002

		BLUMOTI	ON for Doors Ov for CLIP		Hinges			
						A blum		
Zero protrusion hinges	100°	Aluminum door hinge	95° Glass door hinge	95°	Blind corner hinge – overlay and inset	95°/110° Angled hinges: +30 II, +45 I,+45 II		
Straight-arm hinge, 0 plate	Straight-arm hinge, 0 plate 973A0500.01	Straight-arm hinge, 0 plate 973A0500.01						
971Axxxx	971Axxxx		971Axxxx	971Axxxx				
970A1002	970A1002	970A1002	970A1002	970A1002	970A1002	970A1002		
Straight-arm hinge, 9 plate	Straight-arm hinge, 9 plate	Straight-arm hinge, 9 plate						
	973A0500.01 Half-cranked hinge, 0 plate	973A0500.01						
	973A0600							
970A1002	970A1002	970A1002	970A1002	970A1002	970A1002	970A1002		
Straight-arm hinge, 18 plate	Straight-arm hinge, 18 plate	Straight-arm hinge, 18 plate						
	973A0500.01	973A0500.01						
	Half-cranked hinge, 9 plate							
	973A0600							
	Full-cranked hinge, 0 plate 973A0700							

970A1002

970A1002

970A1002

970A1002

970A1002

970A1002

970A1002

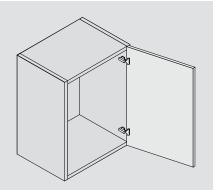
BLUMOTION 973A for CLIP Hinges

Ablum



Features

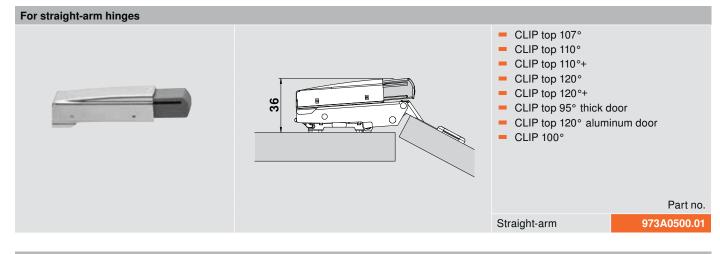
- Soft-closing feature for CLIP top and CLIP hinges
- Offers the same quality of motion as drawer systems with BLUMOTION
- Automatically adjusts to the closing force of the door
- Simple attachment to the hinge arm
 Designed for use with Blum CLIP hinges only
- Nickel-plated steel and gray nylon

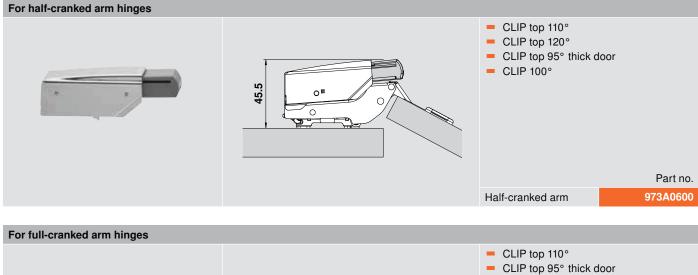


Part no.

973A0700

Full-cranked arm





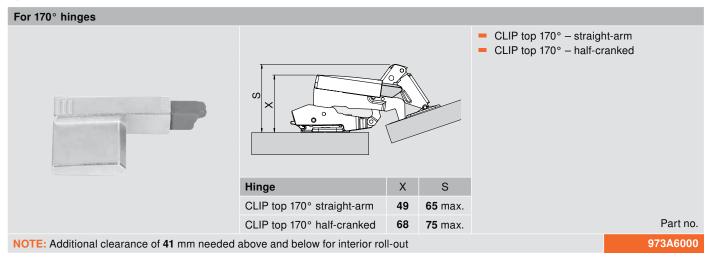
CLIP top 1
 CLIP top 9
 CLIP 100°

BLUMOTION 973A for CLIP Hinges

Hinges

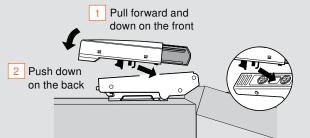


Specifications



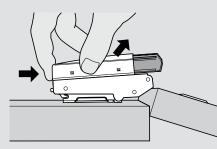
Attachment

Attach to the square hole in the hinge arm



Removal

Pull forward and up simultaneously



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





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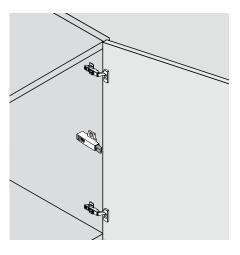


Features

- 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 mm, -7 mm range)
- Installed onto hinge-side panel

BLUMOTION 971A for CLIP Hinges

- For use with straight-arm hinge and either
 0 mm or 3 mm mounting plate only
 Nickel elected steel endowneeder
- Nickel-plated steel and gray nylon



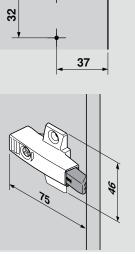
37 mm setback, 32 mm apart

Attach with #6 x 5/8" wood screws
Nickel-plated steel and gray nylon

Wing plate (screw-on)



Face frame adapter plate (screw-on)



	Part no.
0 mm	971A0500
Installation screw	606N or 606P

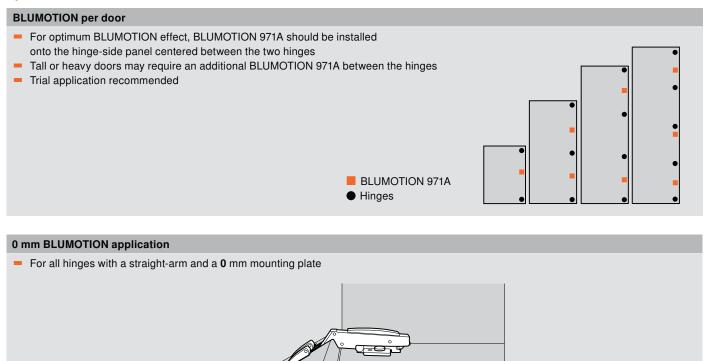
9.5 mm setback, 32 mm apat
Attach with #6 x 5/8" wood screws
Nickel-plated steel and gray nylon

BLUMOTION 971A for CLIP Hinges

Hinges



Specifications

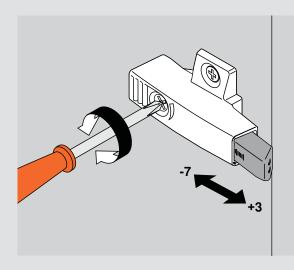


Adjustment

- Use a Phillips or POZI screwdriver to adjust the contact point in or out (+3 mm, -7 mm)

25

- Adjust out for larger, heavier doors or adjust in for smaller, lighter doors



BLUMOTION 970A

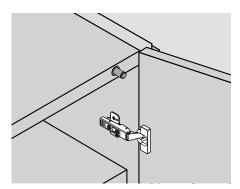
BLUMOTION 970A for CLIP Hinges



Ablum

Features

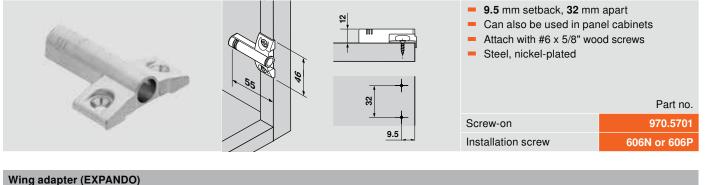
- Soft-closing feature for CLIP top and **CLIP** hinges
- Offers the same quality of motion as drawer systems with BLUMOTION
- Automatically adjusts to the closing force of the door
- Installed into the top and/or bottom panel or with adapter plates on hinge-side
- Gray nylon

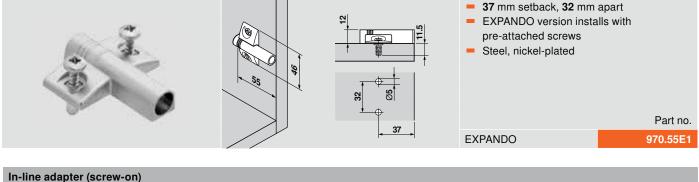


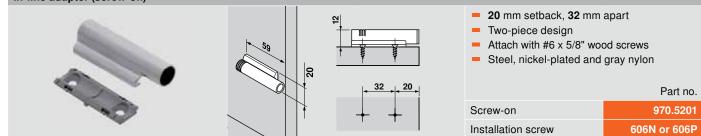
BLUMOTION per door

- 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







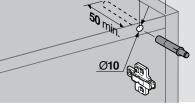


BLUMOTION 970A for CLIP Hinges

Hinges

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BLUMOTION 970A Standard applications For angled applications The charts below provide the boring distance based on the application and mounting boring distance (X) in mm ₽ plate height 3 mm 35 35 48



mounting plate height

boring distance (X) in mm application, refer to pages 45 to 52 ¥ 35 20°

Standard Application

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

Angled Applications (reference angle applications page (49 to 56)

		 overlay ing distance 		artial overlay oring dist.		rner merge ring distance	bor dist			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.

TIP-ON for doors Opening Comfort for Doors Without Handles

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

- Designed for frameless 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

General Specifications

Hinges

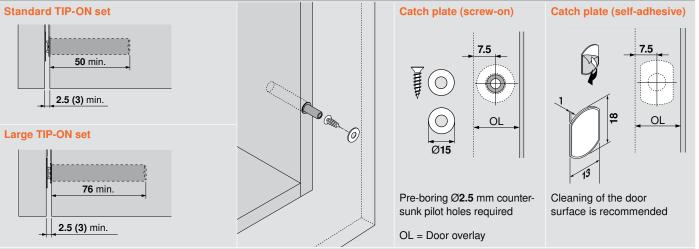
A**blum**®

Tool-Free Door Gap Adjustment

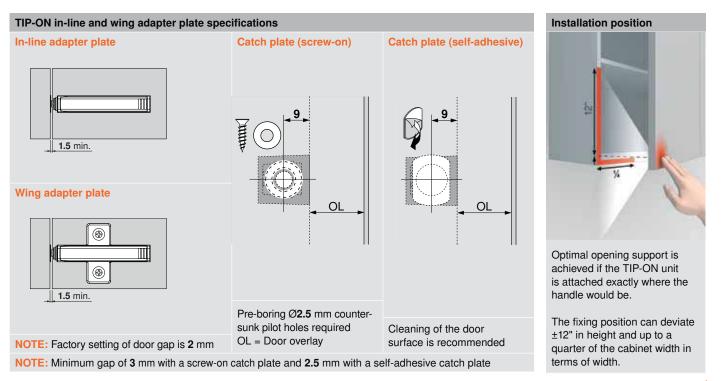
The adjustment feature (+4 mm, -1 mm) has been incorporated into the TIP-ON unit so even when TIP-ON is inserted into the cabinet, it has an integrated gap adjustment. To adjust gap, turn the ejector pin. The click-stop positions allow you to easily find the right setting.



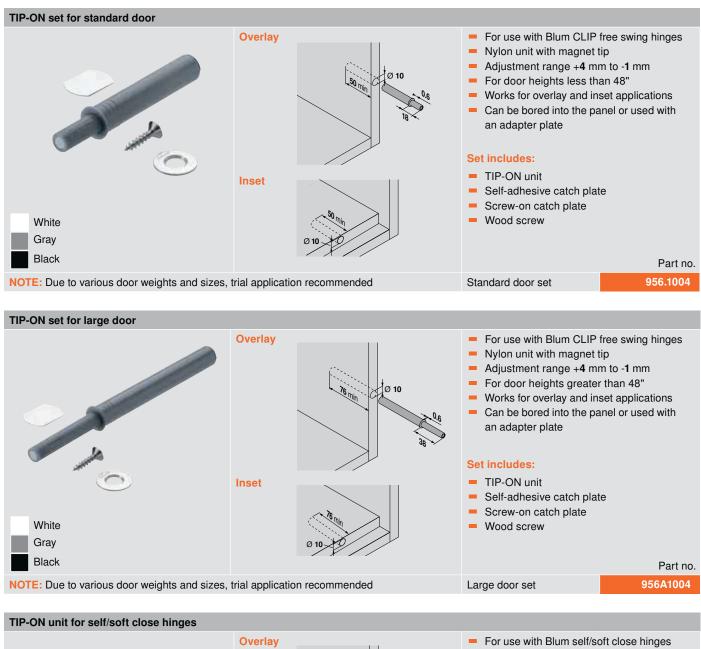
TIP-ON boring specifications

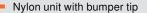


NOTE: Minimum gap of 3 mm with a screw-on catch plate and 2.5 mm with a self-adhesive catch plate

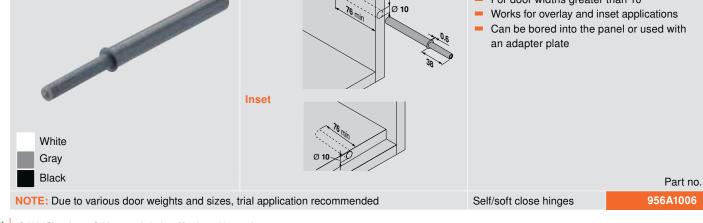


TIP-ON for Doors



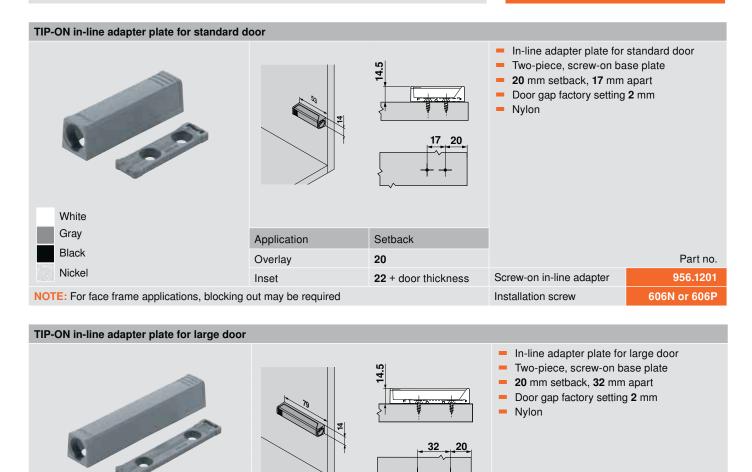


- Adjustment range +4 mm to -1 mm
- For door widths greater than 10"

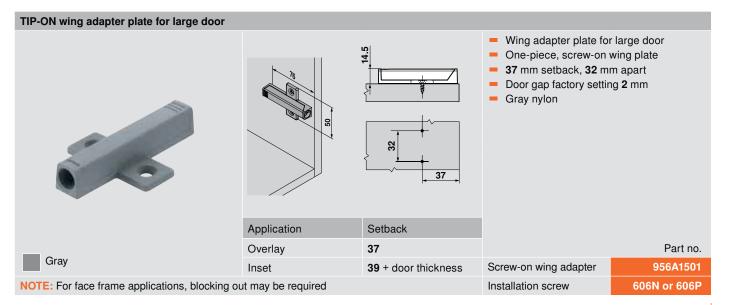


TIP-ON for Doors

Hinges



White					
Gray	Application	Setback			
Black	Overlay	20		Part no.	NO
Nickel	Inset	22 + door thickness	Screw-on in-line adapter	956A1201	Ę
NOTE: For face frame applications, blocking	out may be required		Installation screw	606N or 606P	



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

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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 depth 38C: 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 depth38C: Full overlay hinges with a 107° opening angle and 7/16" 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 Grade 2 requirements. All concealed hinges are designed for indoor use.

ISO 9001

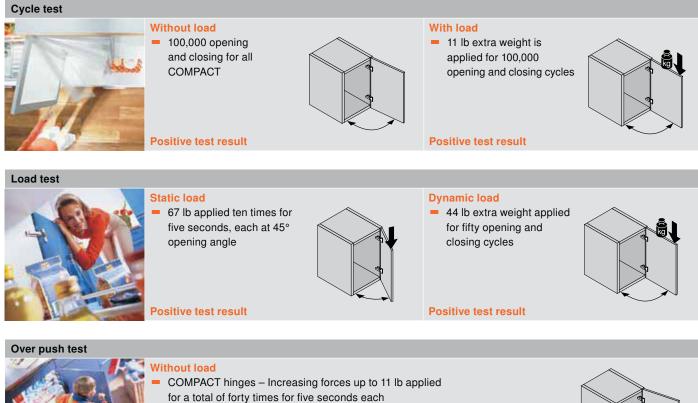
Blum, Inc. is ISO 9001 certified which means that you are assured of consistent quality in every Blum product.

ANSI/BHMA

All Blum runners meet or exceed ANSI/BHMA A156.9 Grade 1 requirements. Contact your local Blum representative for more details.

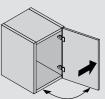


Cycle test	
Specifications	 Door size - 23-5/8" height, 23-5/8" width, 3/4" thickness Door weight -14.3 lb for cycle tests Door weight - 18.5 lb for load and over push tests Boring distance - 3 mm
Distance between hinges	— 16-15/16"
Hinge and mounting plate attachment	 Hinges are mounted to test blocks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





Positive test result



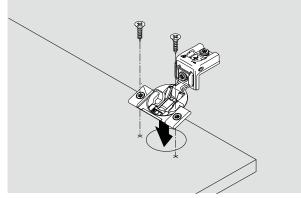
General Specifications

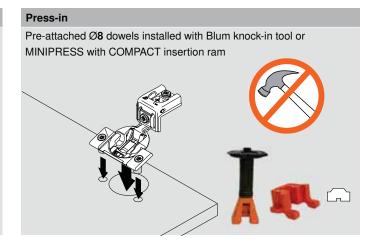
Hinges

A**blum**

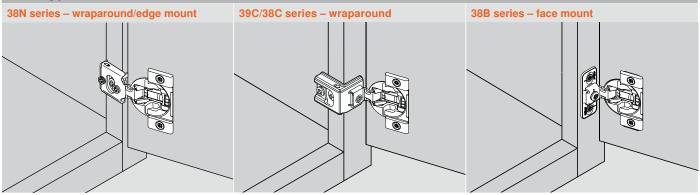
Screw-on

Use #6 wood screws





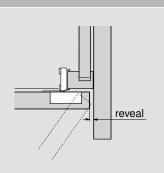
Mounting plate attachment

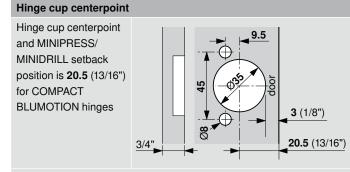


Minimum reveal

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.

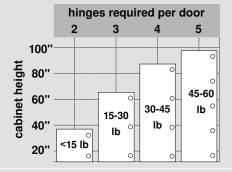




NOTE: Maximum door thickness 3/4"

Hinges per door

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



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





Three-dimensional adjustment

Side adjustment

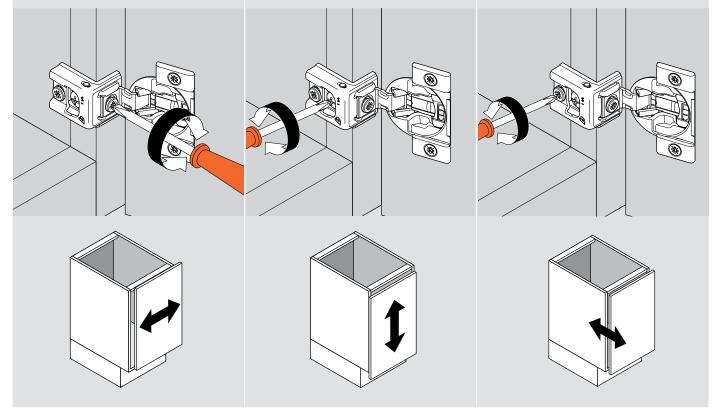
Rotate the front cam screw to increase or decrease door overlay (± 1/16")

Height adjustment

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

Depth adjustment

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

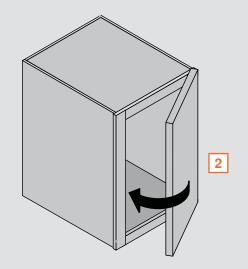


BLUMOTION Deactivation

Deactivation switch on the hinge cup

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

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





COMPACT BLUMOTION 38N for Partial Overlay

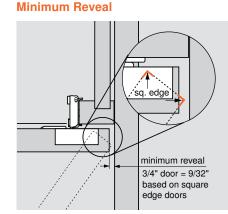
Hinges

A**blum**®

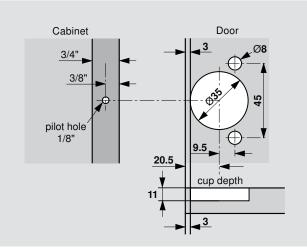


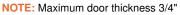
Features

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

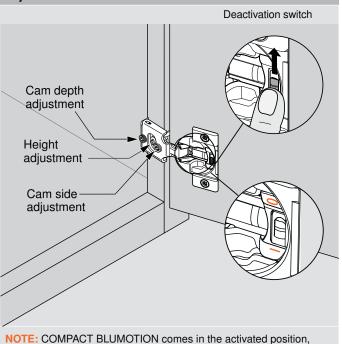


Boring pattern

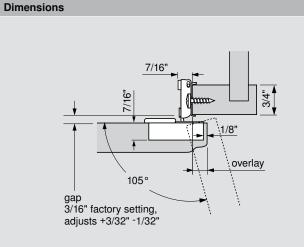


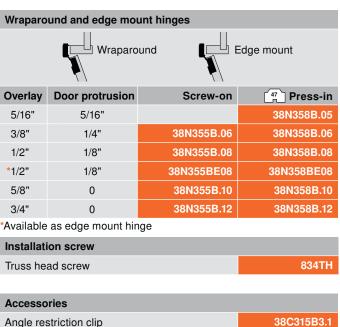


Adjustment



marked with a "I" – the deactivated position is marked with a "0"





*See page **85** for additional cover cap options

COMPACT BLUMOTION 39C for Full Overlay





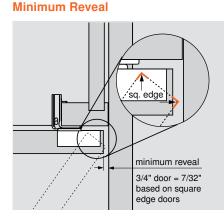
Ablum

Features

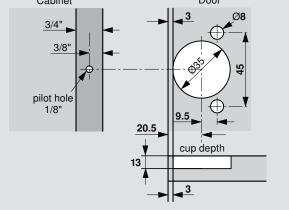
BLUMOTION integrated into the hinge cup

Dimensions

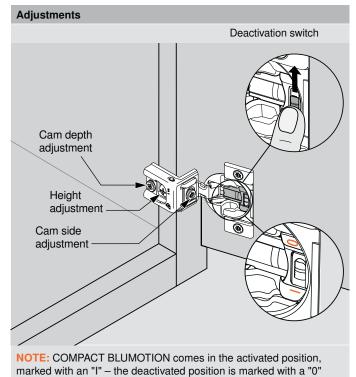
- Deactivation switch for small/light doors
- Overload safety feature
- One-piece wraparound hinge
- 1/2" cup depth
- Less minimum reveal

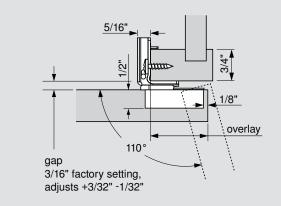






NOTE: Maximum door thickness 3/4"





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			

Installation screw	
Truss head screw	834TH

Accessories	
Angle restriction clip	38C315B3.1
Hinge cup spacer	38C355B9
*Blank cover cap	38C3508
*See page 85 for additional cover cap options	



Boring pattern

COMPACT BLUMOTION 38C for Full Overlay

Hinges

Ablum



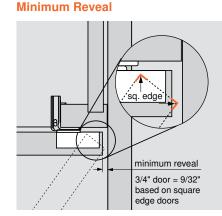
Features

Door

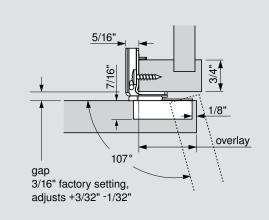
cup depth

3

- 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



Dimensions



NOTE: Maximum door thickness 3/4"

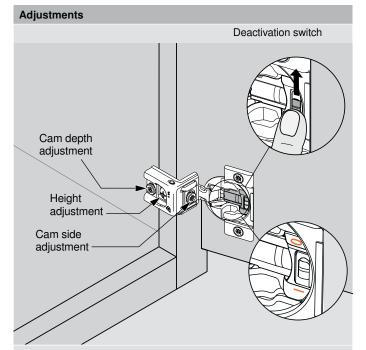
Cabinet

3/4"

pilot hole

1/8"

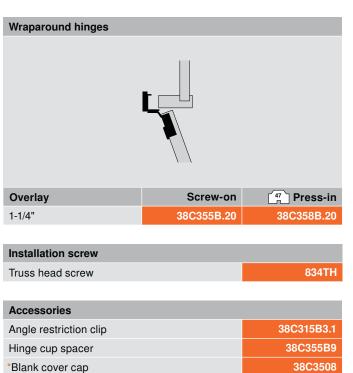
3/8'



20.5

11

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



*See page **85** for additional cover cap options

COMPACT BLUMOTION

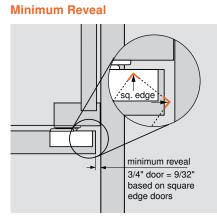
COMPACT BLUMOTION 38B for Face Mount



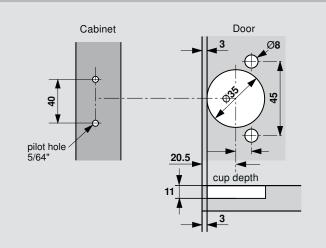


Features

- 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

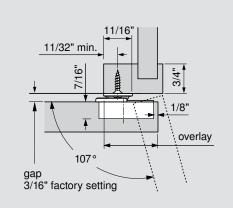


Boring pattern

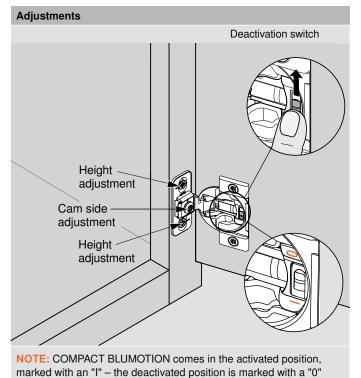


Ablum





NOTE: Maximum door thickness 3/4"

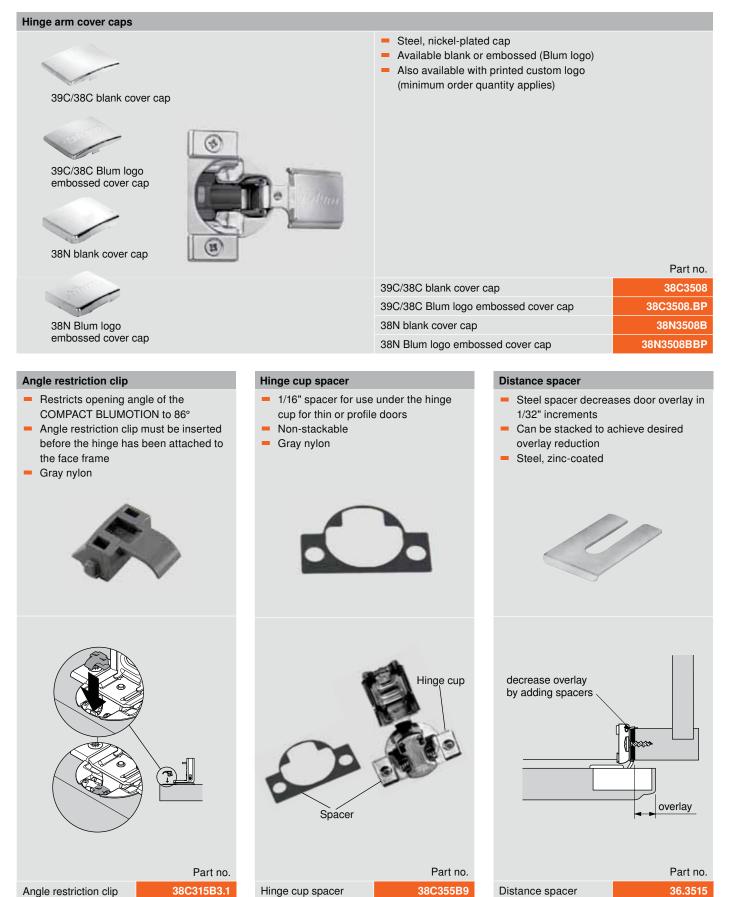


Face mount hinges		
-		
Overlay	Screw-on	Press-in
Overlay 1-3/8" or greater	Screw-on 38B355BF22	Press-in 38B358BF22
1-3/8" or greater		
1-3/8" or greater Installation screw		38B358BF22
1-3/8" or greater Installation screw		38B358BF22
1-3/8" or greater Installation screw Flat head wood screw		38B358BF22
1-3/8" or greater Installation screw Flat head wood screw Accessories		38B358BF22 606N or 606P

COMPACT BLUMOTION Hinge Accessories

Hinges

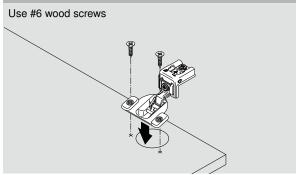




COMPACT General Specifications



Screw-on hinge attachment



Press-in hinge attachment

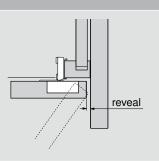
Pre-attached Ø8 dowels installed with Blum knock-in tool or MINIPRESS with COMPACT insertion ram.



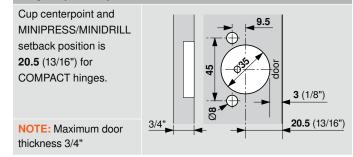
Mounting plate attachment Two-piece assembly One-piece assembly COMPACT 38N COMPACT 38N COMPACT 39C/38C wrap or edge wraparound Image: Compact state of the state of the

Minimum reveal

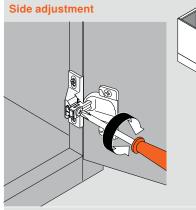
A minimum reveal per door is required to keep the door from binding and varies depending on door thickness (see minimum reveal table for each hinge).



Hinge cup centerpoint



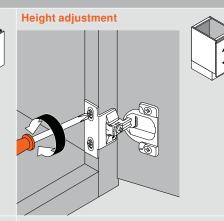
Three-way independent adjustment



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

Hinges

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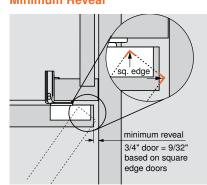
Minimum Reveal



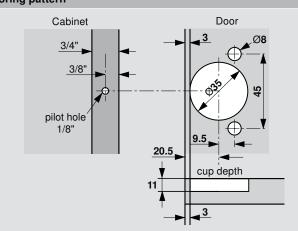
Features

- 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

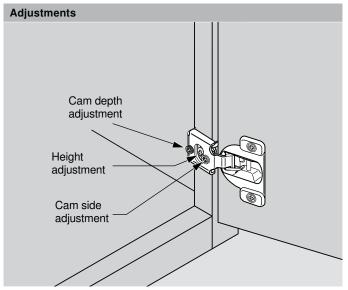
Dimensions



Boring pattern

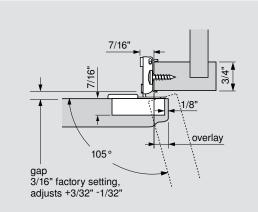


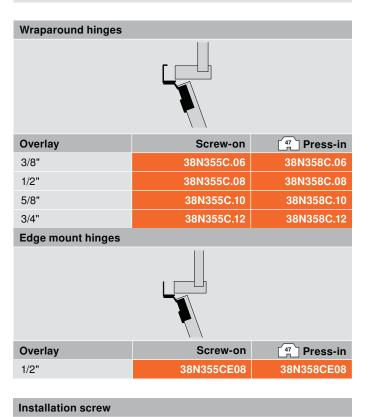
NOTE: Maximum door thickness 3/4"



Calculating door protrusion

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





834TH

Truss head installation screw

COMPACT 39C for Full Overlay



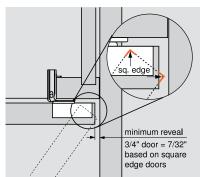


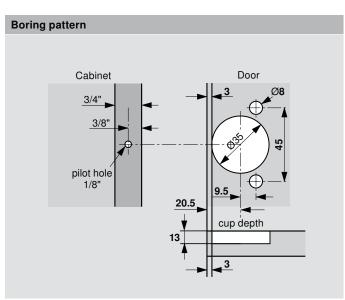
Features

- 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

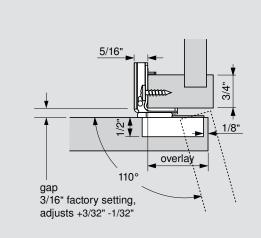
Dimensions

Minimum Reveal

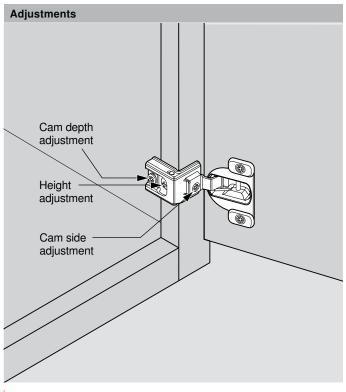


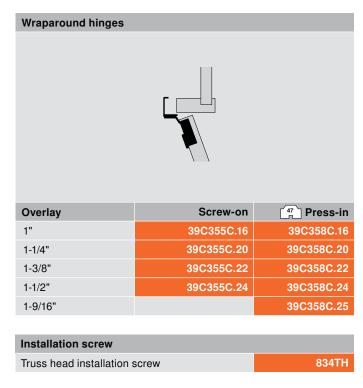


Ablum



NOTE: Maximum door thickness 3/4"







COMPACT 38C for Full Overlay

Hinges



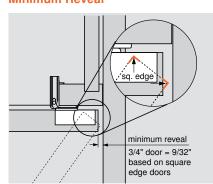
Minimum Reveal



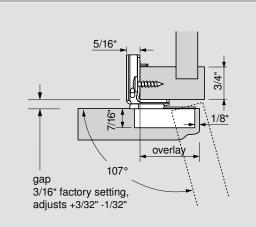
Features

- 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

Dimensions



Boring pattern



NOTE: Maximum door thickness 3/4"

Adjustments Cam depth adjustment Height adjustment Cam side adjustment

Wraparound hinges Image: Screw-on screw screw-on screw screw-on screw-on

BLUMOTION 971A for COMPACT Hinges



BLUMOTION 971A poly-bag set



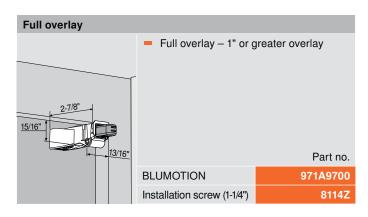
Can be used for all COMPACT hinges Set includes:

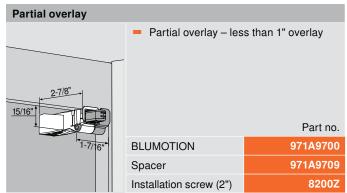
- BLUMOTION mechanism (971A9700)
- Spacer (971A9709)

Poly-bag set

- #8 x 1-1/4" type 17 wood screw
- #8 x 2" type 17 wood screw

Part no. 971A9700.22

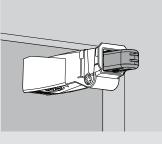




Specifications

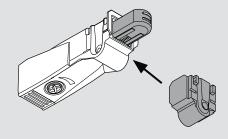
Mounting

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.



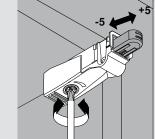
Attachment of partial overlay spacer

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



Adjustment

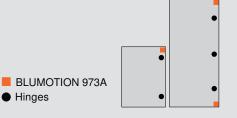
Use a Phillips or POZI screwdriver to adjust the contact point in or out (±5 mm). Adjust out for larger, heavier doors or in for smaller, lighter doors.



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 Hinge Accessories

COMPACT Cover Caps



Zero protrusion Diagonal 45° Blind corner Bi-fold

39C/38C/38B

38N

Distance spacer spacer decrease overlay by adding spacers by adding spacers overlay overlay by overlay by adding spacers by adding spacers

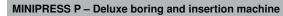
Dowel Cross-Reference Chart

COMPACT

BLUMOTION

and COMPACT

Blum press-in dowels simplify installation Use the charts below to find the proper hinge-to-dowel combination						
Ø8 mm dowels						
NOTE: All dowels for Ø8 a #6 x 1/2" dowel screw (8.6 Ø	8.6		6 12	
Dowels for Ø	ð 8 mm hole	70.0532	70T5582.01	34.3582.01	602.1200	608.1200
Туре	Series	Without flange	Square head with flange	With flange	Installation screw	Installation screw
	100°/107°	\checkmark				\checkmark
	110°/110°+		\checkmark		\checkmark	
	120°/120°+	\checkmark				\checkmark
	170°	\checkmark				\checkmark
CLIP top BLUMOTION,	Thick door	\checkmark				\checkmark
CLIP top and CLIP	Zara protrugion	1				



Ablum

- 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

Single phase - 110V power

-

Accepts new 8 or 9 spindle heads

Part no.

M52.1056*US

EASYSTICK



	Part no.
Computer	MZD.5000
Fence - overall 1700mm*	MZD.2000
Fence extensions - additional 1700**	MZD.2V00
Support for extension ruler	M2V.2E00

 Automatically moves stops for exact drilling locations for all Blum products Built-in cabinet configurator for cabinet design with integrated Blum hardware

Available as an upgrade for MINIPRESS P (models 2007 and newer)

Machine Accessories

Hinges

9 spindle head for use with MINIPRESS/MINIDRILL M53
 Bores nine holes spaced 32 mm apart, parallel to the fence

Once aligned, does not require additional adjustment Bores cabinet side panel for **32** mm system boring for Blum



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.

Requires retrofit set for use with machines produced in 2009 or prior

Quick-disconnect chucks

mounting plates and runners

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

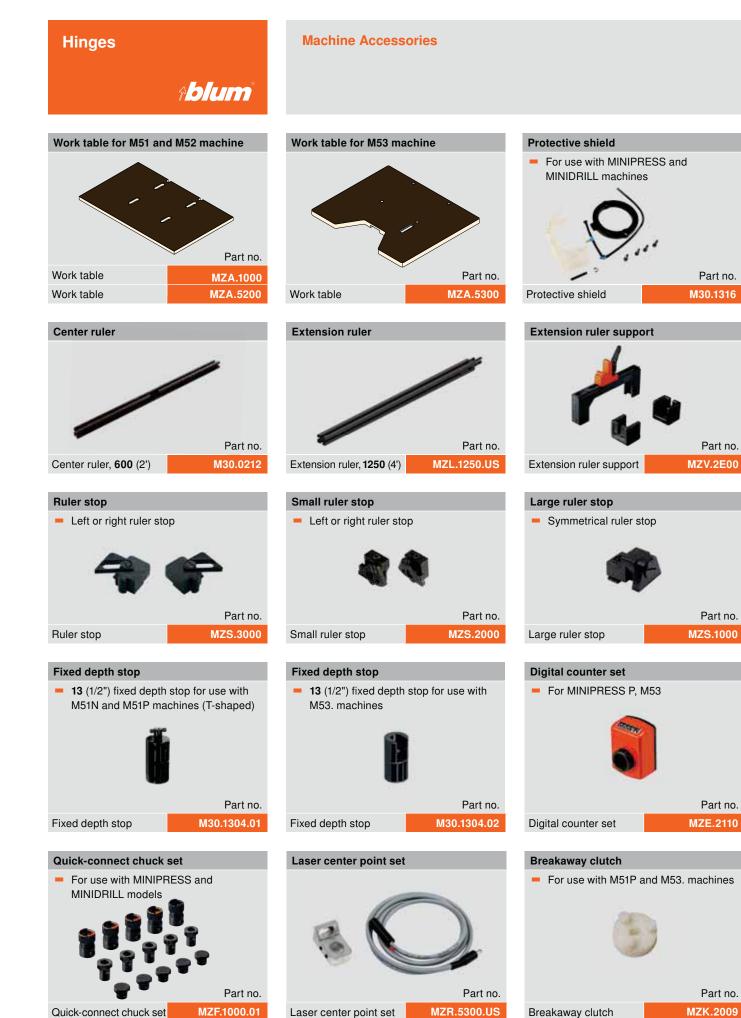


NOTE: Requires 4 each left hand and 4 each right hand drill bits. Recommended drill bit size for quick disconnect chucks: overall length is **57** mm and shank is **10** mm in diameter and **27** mm in length.

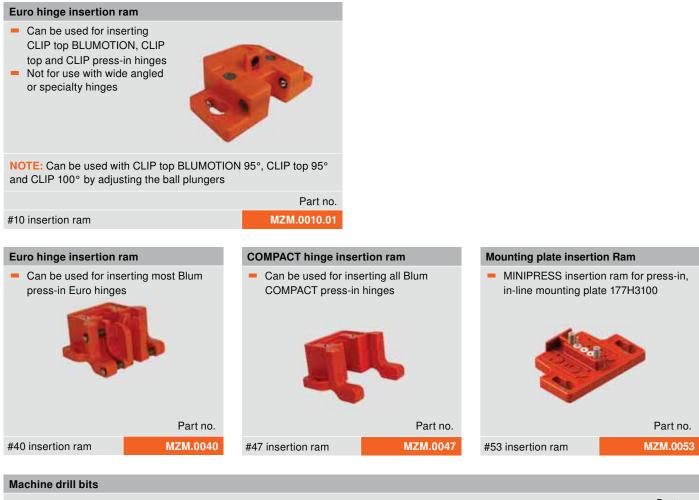
- 8 spindle head for use with MINIPRESS/MINIDRILL M53
- Bores eight holes spaced 32 mm apart, perpendicular to the fence
- Quick-disconnect chucks
- Once aligned, does not require additional adjustment
- Bores all Box systems front fixing brackets/galleries
- Bores cabinet side panels for all Blum runner 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: 1 Adapter ring and shield 2 Ø5 mm allen wrench 2 3 Mounting bolts (qty 4) 4 Alignment pins (qty 2) Alignment template 5 6 13 mm fixed depth stop (qty 2) Part no. M30.1313.UM Spindle head retrofit set



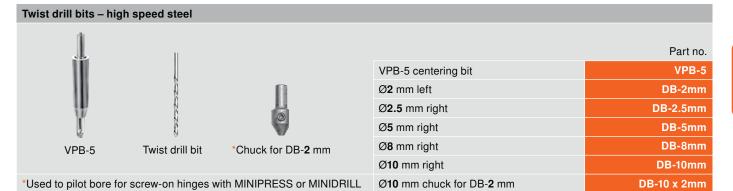






NOTE: Machine drill bits need to be set to 57 mm in length to achieve proper bore depth.

	Part no.
Ø5 mm drill bit (right handed)	M01.ZB05.D2 R
Ø5 mm drill bit (left handed)	M01.ZB05.D3 L
Ø8 mm drill bit (left handed)	M01.ZB08.03 L
Ø10 mm drill bit (right handed)	M01.ZB10.02 R
Ø10 mm drill bit (left handed)	M01.ZB10.03 L
$\varnothing \textbf{10} \text{ mm}$ drill bit for mineral composites/HPL (right handed)	M01.ZB10.T2 R
$\ensuremath{\textit{\varnothing10}}\xspace$ mm drill bit for mineral composites/HPL (left handed)	M01.ZB10.T3 L
Ø20 mm drill bit (right handed)	M01.ZB20.02 R
Ø 35 mm drill bit (right handed)	M01.ZB35.02 R



Hinges	Assembly Aids		
A blum	•		
Knock-in tool			
Ţ		 Can be used to insert all Blum press-in hinge 	s Part no.
~	-	Knock-in tool	ZME.0710
ECODRILL			
	door m u door m u door m u door m u door m u door door m u door m	 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 Includes drill bits (pre-installed) and two Torx to ECODRILL Accessories Replacement Ø35 mm bit Replacement Ø8 mm bit Tool set	mm
ECOJIG			
•	holes are: 32 mm apart, 37 mm setback 32 37	 Used to bore Ø5 mm holes for mounting plate mounted with system screws, EXPANDO dow Also can be used to pre-bore Ø5 mm holes for BLUMOTION adapters Ø5 mm stop collar included 	els or INSERTA
		ECOJIG	65.5070
Universal individual template			
		 For pre-boring mounting plates Also used for marking and pre-boring cabinet BLUMOTION, TIP-ON adapter plates and AVI locating pins Calibrated scale for accurate setting 	
•		Universal individual template	65.1051.02
Mounting plate template			
	32 20	 For pre-boring TIP-ON for doors wing and in- Can also be used to bore for wing (37 mm) ar mounting plates Additional hole location added (37 mm) for instandard doors Simple location of adapter and mounting plate Pilot bore Ø2.5 mm holes for wood screws 	nd in-line (20 mm) line adapter for
· · · · · ·		Mounting plate template	65.5300*
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Assembly Aids

Hinges



QUICKFIX		
	 Drilling sleeve dimensions changed from 2.5 mm for in-line mounting plates Locates/matches positions of hinges and plates or Transfers positions from door-to-cabinet and cabir Adjustable stop for various door overlays For use with wing or in-line mounting plates 	n cabinets and doors
	QUICKFIX	65.7500.03
	Accessories	
	Additional CLIP template	65.7510.03
	2.2 meter rail	65.7590
	Ø5 mm drill bit	DB-5mm
PLATEMATE		
eggine to the space screws	 Boring template for all Blum face frame adapter p Clamps to the frame with cam lever Adjustment knob accommodates frame thicknes Spacer screws permit quick use without measure Includes 2.5 mm pilot bit and drill bit extension 	s of 5/8" to 1"
to to to to to to to to to to to to to t	PLATEMATE	65.5030.01
	FLATEMATE	05.5050.01
Dowelling fixture		
	 Tool designed for attaching and removing dowels Mounts directly to work surface 	s from hinges Part no.
~	Doweling fixture	69.3600
INSERTA boring template		
	 For boring Ø8 mm dowel holes after Ø35 mm ho Boring distance adjusts from 2 mm to 8 mm Also bores Ø5 mm holes for system screw moun Includes drill stop collar to pilot bore Ø2.5 mm for 	ting plates
	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 	
		_
	BLUMOTION and TIP-ON for doors boring template	Part no. 65.5010

Assembly Aids



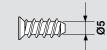
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Deep thread wood screws

For attaching hinges and mounting plates

Deep thread system screws

Pilot bore Ø5 (3/16") hole



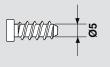
	Part no.	
#6 x 1/2", #2 Phillips	6062N	#7 x 1
#6 x 5/8", #2 Phillips	606N	#7 x 1
#6 x 5/8", #2 POZI	606P	#7 x 1
#6 x 3/4", #2 Phillips	6064N	#7 x 1
#7 x 5/8", #2 Phillips	707N	#7 x 2
#7 x 3/4", #2 Phillips	7074N	#7 x 2

834TH

	Part no.
#7 x 10 mm, #2 POZI	661.1000.HG
#7 x 11.5 mm, #2 POZI	661.1150.HG
#7 x 13 mm, #2 POZI	661.1300.HG
#7 x 14.5 mm, #2 POZI	661.1450.HG
#7 x 20 mm, #2 POZI	661.2000.HG
#7 x 25 mm, #2 POZI	661.2500.HG

Pan head system screw

-Pilot bore Ø5 (3/16") hole



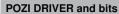
Part no. 668.1450.EH #7 x 14.5 mm, #2 POZI

Truss head screw For attaching COMPACT hinges to face frame





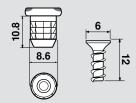




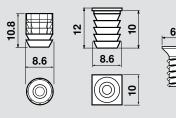


Ø8 mm dowels

 Square head dowel for attaching to hinges



Round dowel for insertion into doors



F	'a	rt	no	-
_	~	~		

12

	Part no.	Ø8 mm round dowel	70.0532
Ø8 mm square dowel	70T5582.01	With flange	34.3582.01
Installation screw	602.1200	Installation screw	608.1200

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Notes



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General Information

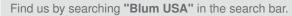
All Blum hardware undergoes strict quality control procedures through all stages of production. Blum hardware is designed for cabinets and cabinet components made from wood, melamine or MDF. Careful attention must be paid to installation and operating instructions when using Blum hardware (see catalogs and instruction sheets for all technical information). The manufacturer must decide on the screws or attachment methods to suit the material being used (i.e. wood, melamine, etc.). The hardware must not be exposed to acidic or corrosive materials (i.e. some household cleaning solutions). To ensure that Blum hardware functions correctly, it must be kept clean and undamaged. For any additional information please contact your Blum representative. Anyone selling Blum hardware must ensure that their customer is aware of any relevant information given in this catalog. Care and cleaning – use a clean damp cloth.

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973A0600 64, 65, 6	
973A0700 64, 65, 6	66
973A6000 34, 64, 6	67
BIT HOLDER 10	00
DB-10 x 2mm	97
DB-10mm	97
DB-2.5mm	97
DB-2mm	97
DB-5mm 97, 9	99
DB-8mm	97
M01.ZB05.D2 R	97
M01.ZB05.D3 L	97
M01.ZB08.03 L	97
M01.ZB10.02 R	97
M01.ZB10.03 L	97
	97
	97
	97
	97
	96
	96
	96
	95
	95
M30.1316	96

M31.1000	g	98
M31.ZB08.02	g	98
M31.ZB35.02	g	98
M52.1056*US	g	94
M53.0720.US	g	96
M53.1004*US	g	94
M53.1053*US	g	94
MZA.1000	g	96
MZA.5200	g	96
MZA.5300	9	96
MZD.2000	9	94
MZD.2V00	9	94
MZD.2E00	9	94
MZD.5000	9	94
MZE.2110	9	96
MZF.1000.01	9	96
MZK.190S	9	95
MZK.2009	g	96
MZK.880S	9	95
MZL.1250.US	9	96
MZM.0010.01	g	97
MZM.0040	g	97
MZM.0047	g	97
MZM.0053	g	97
MZR.5300.US	9	96
MZS.1000	g	96
MZS.2000	9	96
MZS.3000	g	96
MZV.2100	g	96
MZW.1300	g	98
POZI BIT #2x1	10	00
POZI BIT #2x2	10	00
POZI DRIVER	10	00
VPB-5	g	97
ZME.0710	g	98



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