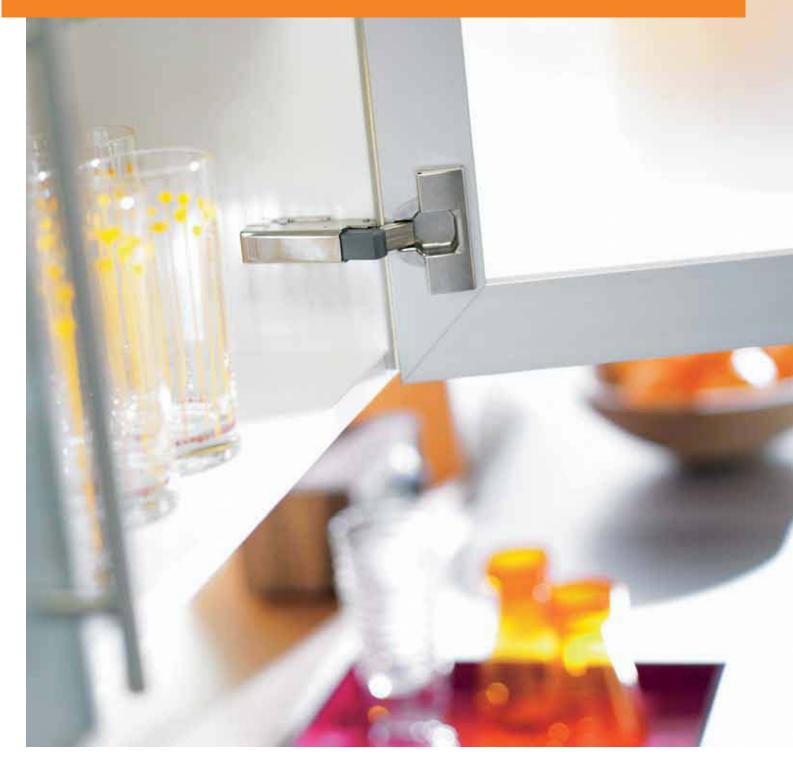


## **BLUMOTION** for doors

Quiet closing for Blum concealed hinges



## BLUMOTION redefines the phrase "quality of motion"





# Innovative solutions for every application

BLUMOTION for doors can be quickly integrated into cabinets. It will work for almost any application and does not require any change to the hinge assembly.

BLUMOTION redefines the phrase "quality of motion". The system is quick and easy to install and once installed, creates a quiet closing motion.



#### Contents

- 8 BLUMOTION 973A for CLIP top and CLIP hinges
- 10 BLUMOTION 973A for angled hinges
- 12 BLUMOTION 971A for Euro hinges
- 14 BLUMOTION 971A for COMPACT hinges
- 16 BLUMOTION 970A for Euro hinges
- 18 Adapter plates for BLUMOTION 970A
- 20 BLUMOTION for doors overview for Euro hinges
- 21 Assembly aids
- 22 Accessories

## An innovation that inspires









BLUMOTION 973A can be installed at any point during the production and sales process. This means that everyone – from manufacturer to dealer and retailer all the way to the end customer – can make the decision at any time whether or not they want to profit from the added value of the new BLUMOTION technology.

Ideally, doors should be equipped with BLUMOTION during the manufacturing process. In one simple work step the mechanism is attached onto the CLIP top or CLIP hinge. Hinge and mounting plate boring depths and positions remain unchanged, therefore there are no additional set-up costs.



BLUMOTION, combined with Blum's well established quality, gives the consumer new benefits and peace of mind. Each time a door is closed they will be reminded of the exceptional quality of their cabinets.

## Adapting to change

## Quiet closing – every time

#### A look behind the scenes at the BLUMOTION adaptive system.

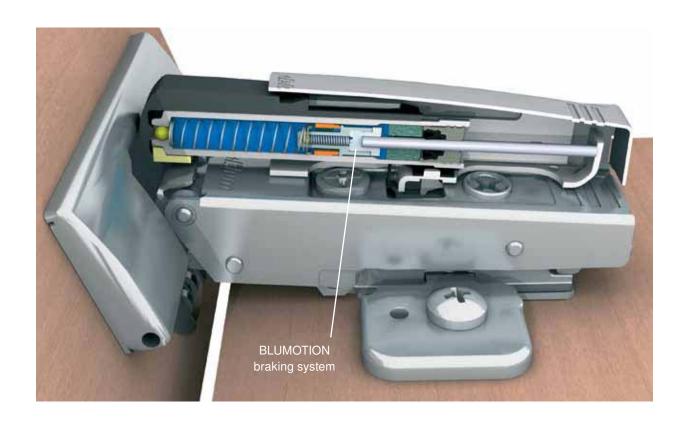
The braking system expands according to the force, regulating the travel speed of the mechanism. This technology enables BLUMOTION to adjust itself automatically to each door size, weight and closing speed.

- Quiet closing motion every time due to adaptability
- The integrated overload safety feature protects the BLUMOTION system from damage through abuse
- BLUMOTION lasts the lifetime of the cabinet ensuring that your customers remain satisfied



## How the adaptive system works

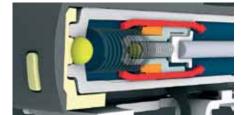




#### Slow closing speed

The braking system expands slightly, generating only modest resistance to the flow. The BLUMOTION effect is controlled via the flow speed and in this case remains low.

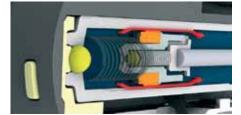




#### Fast closing speed

The braking system expands, which constricts the flow channel, to create greater resistance. This results in a strong BLUMOTION effect.

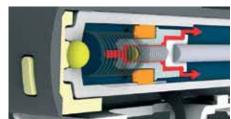




#### Closing speed that is too fast

The overload safety feature kicks in. The excessive force is diverted using an additional flow channel and both BLUMOTION and the hinge are protected from damage.







## BLUMOTION 973A for CLIP top and CLIP hinges

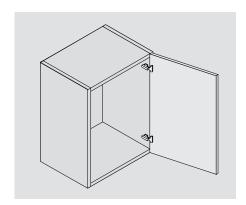
#### **Product**



#### Description

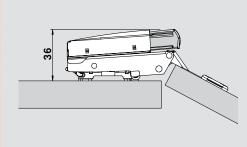
- Quiet closing feature for CLIP top and CLIP hinges
- Offers the same quality of motion as drawer systems with BLUMOTION
- Automatically adjusts to the closing force of the door
- Simple attachment to the hinge arm
- Nickel plated steel and gray nylon
- Designed for use with Blum Euro hinges only

#### **Application**



## For hinges with a straight-arm





- CLIP top 107°
- CLIP top 120°
- CLIP top 120°+
- CLIP top 95° thick door
- CLIP top 110° special application
- CLIP top 120° aluminum door
- CLIP 100°
- CLIP 107°

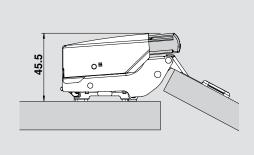
Part no.

Straight-arm

973A0500.01

#### For hinges with a half-cranked arm





- CLIP top 107°
- CLIP top 120°
- CLIP top 95° thick door
- CLIP top 120° aluminum door
- CLIP 100°
- CLIP 107°

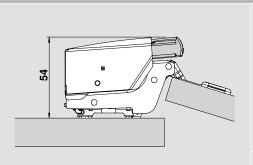
Part no.

Half-cranked arm

973A0600

#### For hinges with a full-cranked arm





- CLIP top 107°
- CLIP top 95° thick door
- CLIP 100°

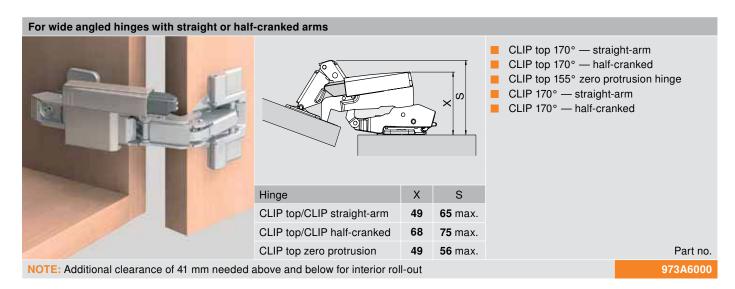
Part no.

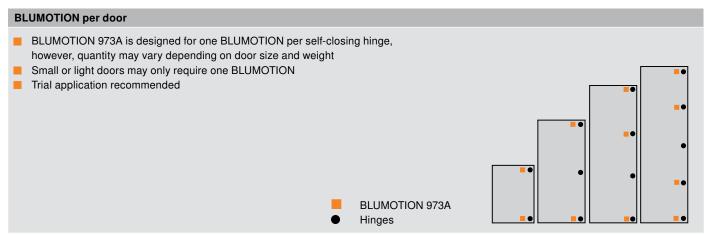
Full-cranked arm

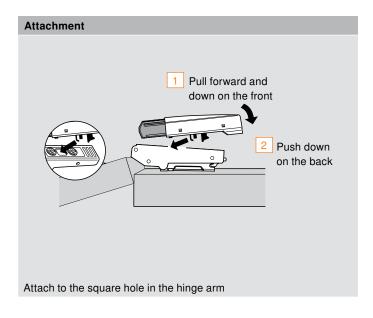
973A0700

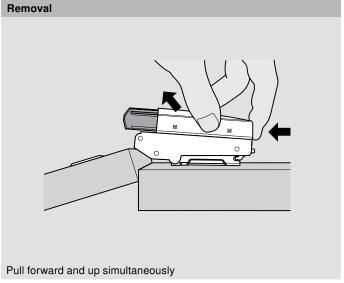


#### Specifications











## BLUMOTION 973A for angled hinges

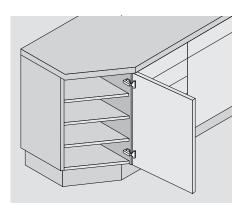
#### **Product**

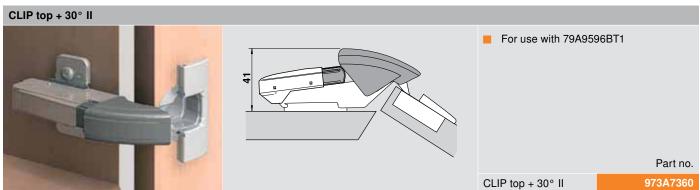


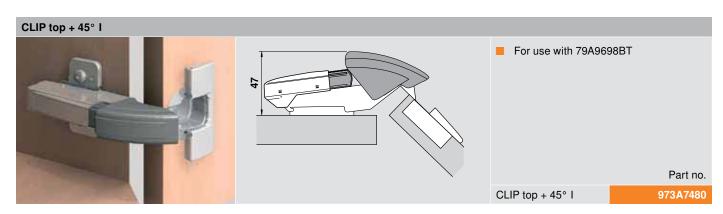
#### Description

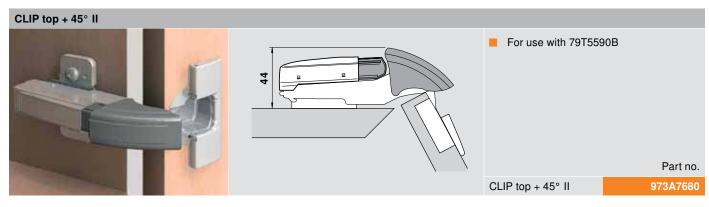
- Quiet closing feature for CLIP top + 30° II, + 45° I and + 45° II angled hinges
- Offers the same quality of motion as drawer systems with BLUMOTION
- Automatically adjusts to the closing force of the door
- Simple attachment to Blum hinges
- Nickel plated steel and gray nylon components

#### **Application**





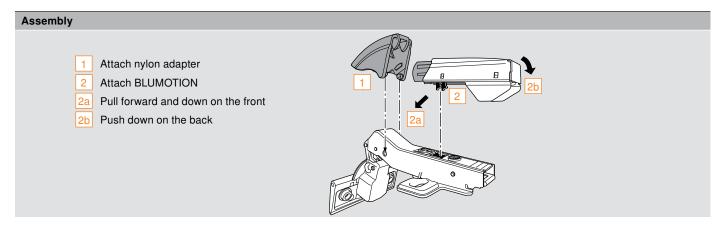


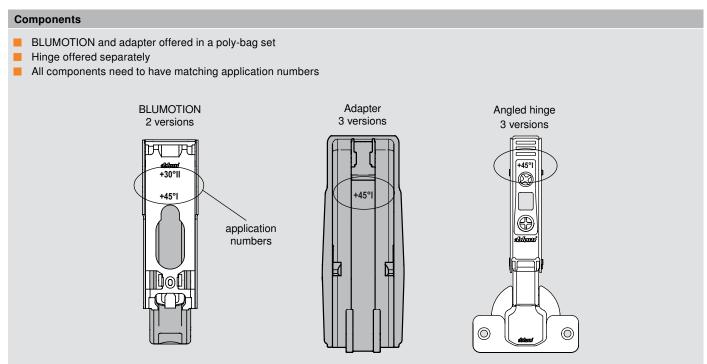




#### Specifications

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





## **BLUMOTION 971A for Euro hinges**

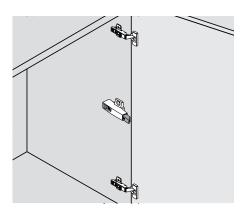
#### **Product**

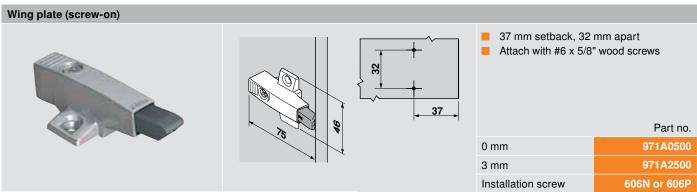


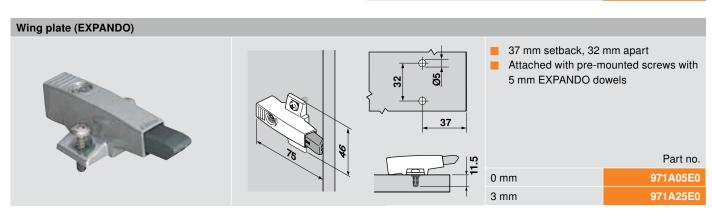
#### Description

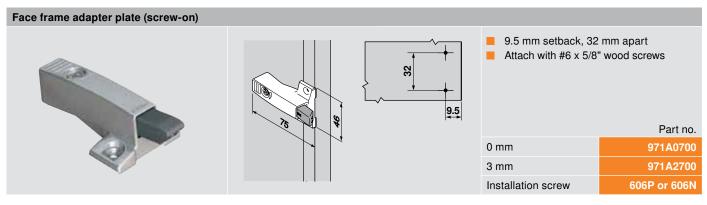
- Quiet closing feature for CLIP top and CLIP straight-arm hinges
- Offers the same quality of motion as drawer systems with BLUMOTION
- Adjustable to various door sizes and weights (+3/-7 mm range)
- Installed onto hinge-side panel
- Nickel plated steel and gray nylon
- For use with straight-arm hinge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

#### **Application**

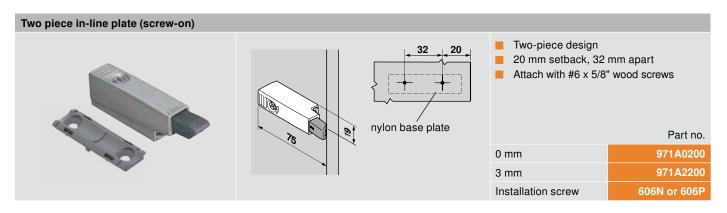


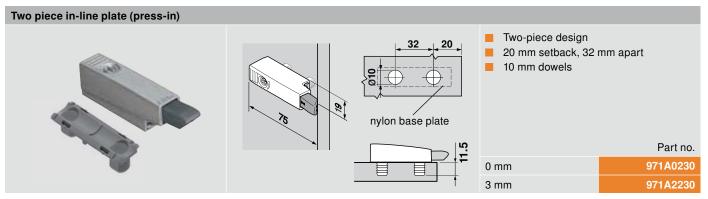




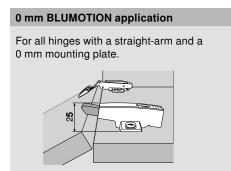






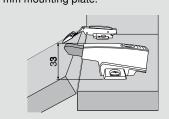


#### Specifications



#### 3 mm BLUMOTION application

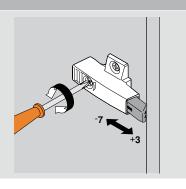
For all hinges with a straight-arm and a 3 mm mounting plate.



NOTE: 95° thick door straight-arm hinge requires 3 mm BLUMOTION

#### Adjustment

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



#### **BLUMOTION** per door

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



## **BLUMOTION 971A for COMPACT hinges**

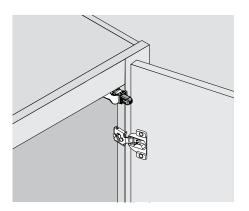
#### **Product**

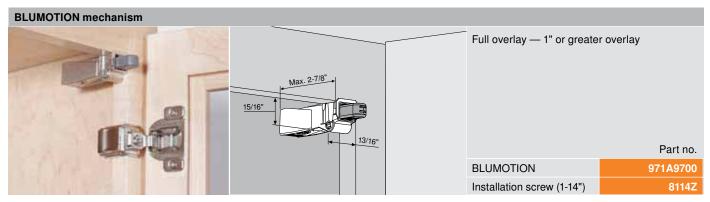


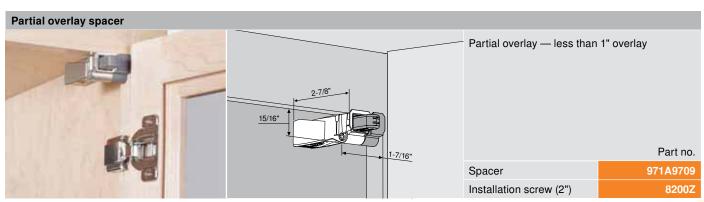
#### Description

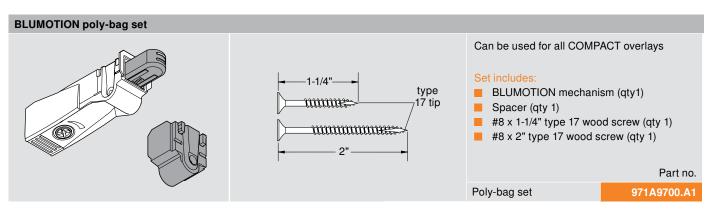
- Quiet closing feature for COMPACT hinges
- Offers the same quality of motion as drawer systems with BLUMOTION
- Adjustable to various door sizes and weights (+5/-5 mm range)
- Installed anywhere onto the hinge-side stile of the cabinet
- Nickel plated steel and gray nylon
- Designed for use with Blum COMPACT hinges only

#### **Application**







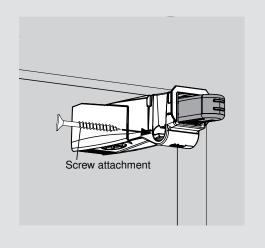




#### Specifications

#### Mounting

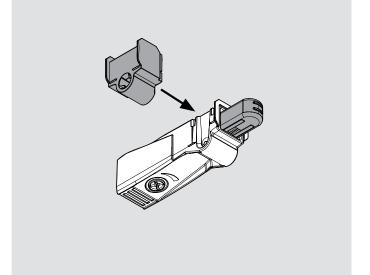
BLUMOTION for doors mounts anywhere on the hinge-side stile of the cabinet using a 1-1/4" screw or 2" screw when using spacer.



NOTE: BLUMOTION should not contact the hinge cup

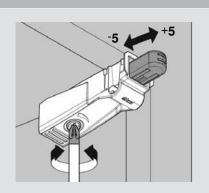
#### Attachment of partial overlay spacer

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



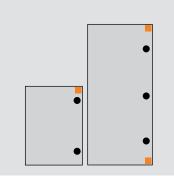
#### Adjustment

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



#### **BLUMOTION** per door

- For optimum BLUMOTION effect, one BLUMOTION 971A should be installed for most applications
- Tall or heavy doors may require an additional BLUMOTION 971A
- Trial application recommended



**BLUMOTION 971A** 

## **BLUMOTION 970A for Euro hinges**

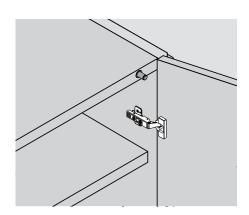
#### **Product**



#### Description

- Quiet 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

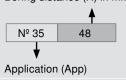
#### **Application**



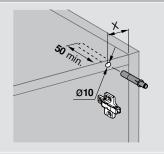
#### **BLUMOTION 970A requirements**

The table on page 17 provides the corresponding boring distance for each application.

Boring distance (X) in mm



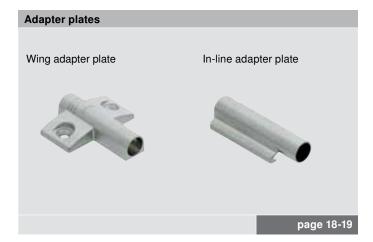
\* Refer to the special application section of the concealed hinge catalog



BLUMOTION



970A1002



#### **BLUMOTION** per door

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

BLUMOTION 970A

Hinges



#### BLUMOTION adapter plates 970.xxxx are required for the following applications

Inset application



Inset angled application



Mitered angled application



## **Applications**



#### Standard application

		e <b>rlay</b> ng distance	Twing bori	<b>n</b> ng distance	Inse bori	et ng distance	15	et with straight-arm ng distance
Mounting plate height	0 mm	32	0 mm	41	0 mm	50	18 mm	50
	3 mm	35	3 mm	44	3 mm	53		
	6 mm	38	6 mm	47				
	9 mm	41	9 mm	50				

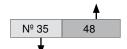
#### Blind corner applications

	Inso bori	et blind corner ing distance	Ov bo	erlay blind corner ing distance
			0 mm	32
Mounting plate height	3 mm	51	3 mm	35
plate fleight			6 mm	38

#### Angled applications

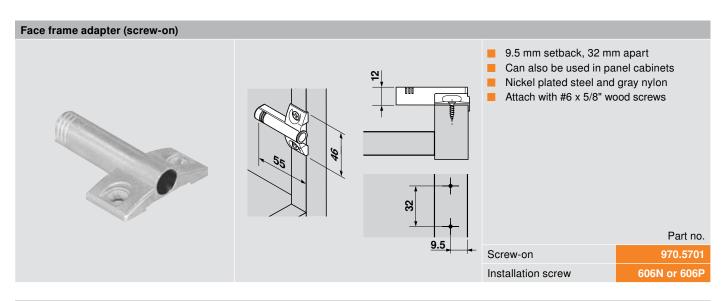
	Inse	e <b>t</b> ng dist.		rner merge ing dist.		tial overlay mm		c. overlay	J / / / / / / / / / / / / / / / / / / /	ered corner mm
5°	Nº 27	48	Nº 19	48	Nº 10	33	Nº 1	33	Nº 36	45
10°	Nº 28	48	Nº 20	48	Nº 11	33	№ 2	33	Nº 37	45
15°	Nº 29	48	Nº 21	48	Nº 12	33	№ 3	33	Nº 38	45
20°	Nº 30	48	Nº 22	48	Nº 13	37	Nº 4	33	Nº 39	45
25°	Nº 31	48	Nº 23	48	Nº 14	37	№ 5	33	Nº 40	45
30°	Nº 32	48	Nº 24	48	Nº 15	41	Nº 6	33	Nº 41	45
35°	Nº 33	48	Nº 25	48	Nº 16	41	№ 7	33		
40°	Nº 34	48			Nº 17	41	№ 8	33		
45°	Nº 35	48	Nº 26	48	Nº 18	41	№ 9	33		
-5°	Nº 51	48					Nº 42	37		
-10°	Nº 52	54					Nº 43	33		
-15°	Nº 53	54					Nº 44	33		
-20°	Nº 54	54					Nº 45	37		
-25°	Nº 55	54					Nº 46	33		
-30°							Nº 47	33		
-35°							Nº 48	37		
-40°							Nº 49	37		
-45°							№ 50	37		

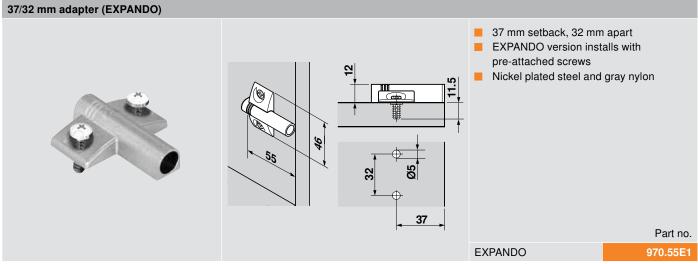
Boring distance (X) in mm



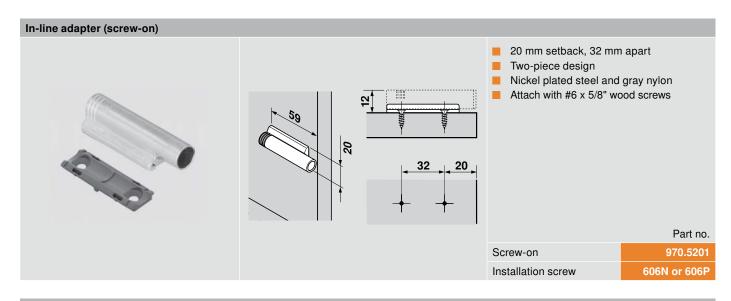
Application (App)

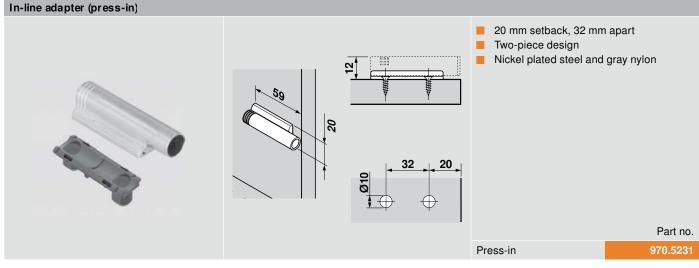
## Adapter plates for BLUMOTION 970A







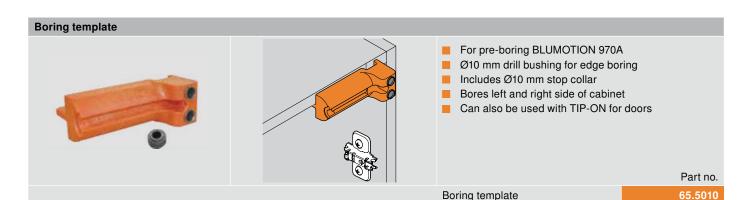


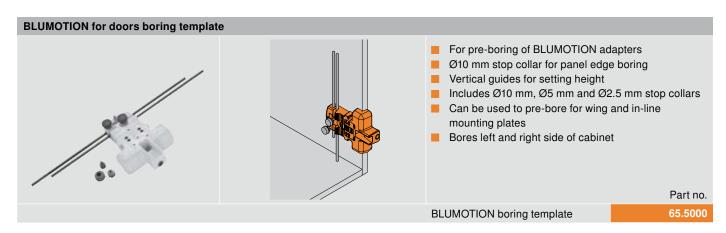


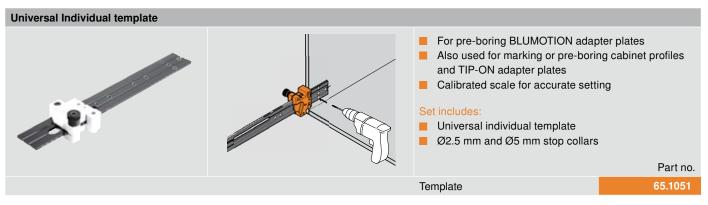
BLUMOTION for doors overview for Euro hinges		100°	107°	120°	120°+	170°	110°
		Standard hinge	Standard hinge	Standard hinge	Standard hinge	Standard hinge	Special hinge
Overlay		Straight-arm hinge, 0 plate	Straight-arm hinge, 0 plate	Straight-arm hinge, 0 plate	Straight-arm hinge, 0 plate	Straight-arm hinge, 0 plate	Straight-arm hinge, 0 plate
		973A0500.01	973A0500.01	973A0500.01	973A0500.01	973A6000	973A0500.01
	-						
		971Axxxx	971Axxxx	971Axxxx	971Axxxx	971Axxxx	971Axxxx
	-						
		970A1002	970A1002	970A1002	970A1002	970A1002	970A1002
Twin		Straight-arm hinge, 9 plate					
		973A0500.01	973A0500.01	973A0500.01	973A0500.01	973A6000	973A0500.01
		Half-cranked hinge, 0 plate	Half-cranked hinge, 0 plate	Half-cranked hinge, 0 plate		Half-cranked hinge, 0 plate	
		973A0600	973A0600	973A0600	_	973A6000	_
	1						
		970A1002	970A1002	970A1002	970A1002	970A1002	970A1002
Inset		Straight-arm hinge, 18 plate					
		973A0500.01	973A0500.01	973A0500.01	973A0500.01	973A6000	973A0500.01
		Half-cranked hinge, 9 plate	Half-cranked hinge, 9 plate	Half-cranked hinge, 9 plate		Half-cranked hinge, 9 plate	
		973A0600	973A0600	973A0600	_	973A6000	_
		Full-cranked hinge, 0 plate	Full-cranked hinge, 0 plate				
		973A0700	973A0700	_	_	_	
	-						
		970A1002	970A1002	970A1002	970A1002	970A1002	970A1002
rec	commended	possible					

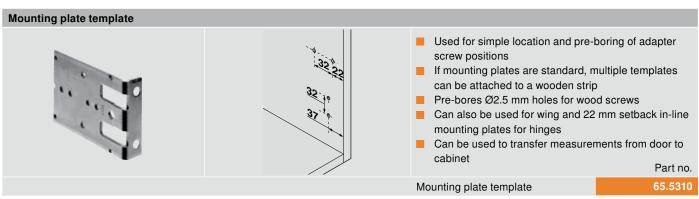
155°	95°	120°	94°	94°	95°	110°	95°
Zero protrusion hinge	Thick door hinge	Aluminum door hinge	Glass door hinge	Mini hinge	Blind corner hinge - overlay and inset	Angled hinges: +30 II, +45 I, +45 II	Angled hinges: remaining types
Straight-arm hinge, 0 plate	Straight-arm hinge, 0 plate	Straight-arm hinge, 0 plate					
973A6000	973A0500.01	973A0500.01	-	-	-	973Axxxx	-
971Axxxx	971A2xx0	-	971Axxxx	971Axxxx	-	-	-
970A1002	970A1002	970A1002	970A1002	970A1002	970A1002	970A1002	970A1002
Straight-arm hinge, 9 plate	Straight-arm hinge, 9 plate						
973A6000	973A0500.01 Half-cranked hinge, 0 plate	-	_	-	-	-	_
-	973A0600	-	-	-	-	-	-
970A1002	970A1002	970A1002	970A1002	970A1002	970A1002	970A1002	970A1002
Straight-arm hinge, 18 plate	Straight-arm hinge, 18 plate	Straight-arm hinge, 18 plate	STORIGOE	STORTOOL	STORTOOL	STORTOOL	37041332
973A6000	973A0500.01 Half-cranked hinge, 9 plate	973A0500.01 Half-cranked hinge, 9 plate	_	_	_	-	_
_	973A0600	973A0600	-	-	-	-	_
	Full-cranked hinge, 0 plate						
-	973A0700	-	-	-	-	-	-
970A1002	970A1002	970A1002	970A1002	970A1002	970A1002	970A1002	970A1002

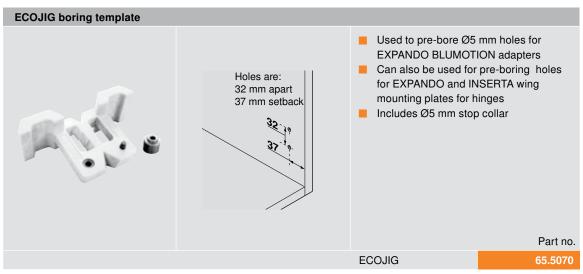
### Accessories

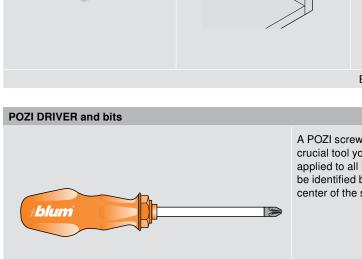












**Phillips** 

Tick marks

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

	Part no.
#2 POZI DRIVER	POZI DRIVER
1/4" bit holder	BIT HOLDER
#2 x 1" POZI bit insert	POZI BIT #2x1
#2 x 2" POZI bit insert	POZI BIT #2x2

Drill bits	
RH twist drill bit	Z9-Z)
	Part no.
Ø2.5 mm	DB-2.5mm
Ø5 mm	DB-5mm
Ø10 mm	DB-10mm

Deep thread wood screws							
	Part no.						
#6 x 5/8", #2 Phillips	Part no.						
#6 x 5/8", #2 Phillips #6 x 5/8", #2 POZI							
	606N						
#6 x 5/8", #2 POZI	606N 606P						

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

**POZI** 

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