



It's what's inside that counts!

Three new hinges from Blum

www.blum.com

 **blum**[®]

If it's required, we develop it.

The needs of our customers are our greatest motivation in refining our fittings – and the reason why our range is constantly growing. Right now, for example, we are adding three new CLIP top BLUMOTION hinges to the range, containing our engineers' wealth of technical expertise. The resulting products also embody the inventive spirit that has led to Blum's unique range of functions.



reddot award 2018
winner



➤ Detailed information
on the awards:
www.blum.com/award



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**CLIP top BLUMOTION 155°:
the new 0-protrusion hinge
with integrated dampening**

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155°

BLUMOTION



Crammed full of functionality – within the smallest space

The benefits of CLIP top BLUMOTION are now also included in our new wide angle hinge with 0-protrusion. In addition to the high quality of motion, CLIP top BLUMOTION 155° has a built-in dampening function – without any increases to the installation size.





Dampening on demand

The integrated BLUMOTION feature can be deactivated for individual hinges via a simple switch to ensure that even smaller or lighter doors boast high quality of motion.

Use of the existing storage space in the wardrobe is optimised, while the large opening angle makes access particularly convenient. With its INSERTA boss fixing, CLIP top BLUMOTION 155° also guarantees straightforward tool-free assembly.



**Versatile:
CLIP top BLUMOTION
with 0-protrusion**

 **blum**



The new CLIP top BLUMOTION 155° hinge in colour variant onyx black blends stylishly with dark furniture, especially with its low installation size.



CLIP top BLUMOTION 125° is an ideal solution for thick doors. The BLUMOTION function is now integrated directly into the hinge arm.

The usual convenience: CLIP top BLUMOTION 155° assembly

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The INSERTA mechanism with self-closing makes it possible to fix the boss in place without tools – and ensures flush fitting. The drilling pattern for the new CLIP top BLUMOTION hinge remains unchanged from previous versions.



Tried-and-tested CLIP assembly

The CLIP mechanism has proven itself a million times over in the past; it ensures that the wide angle hinge can be installed in cabinets quickly, with ease, and without tools.



Three-dimensional adjustment

The new 155°-hinge features a simple side and height adjustment, as well as infinitely variable depth adjustment, so it matches the high standard of the existing CLIP top BLUMOTION hinges with which people are familiar.



Suitable boss cover caps

Suitable boss cover caps are now available for CLIP top BLUMOTION 155° – and are also available in dark colour variant onyx black.

**CLIP top BLUMOTION CRISTALLO:
the new glass door hinge with
integrated dampening**

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3-8 mm

BLUMOTION



Makes a strong impression – every time

CLIP top BLUMOTION CRISTALLO is a combination of elegant design, innovative technology and high quality of motion. The BLUMOTION function comes built into this new hinge for glass and mirror doors. The hinge achieves a unique level of stability, ensuring it meets the toughest of requirements.



Dampening on demand

The integrated BLUMOTION feature can be deactivated for individual hinges via a simple switch to ensure that even smaller or lighter doors boast high quality of motion.



BLUMOTION for a silent and effortless closing action – for glass and mirror doors – is installed in the hinge arm with CLIP top BLUMOTION CRISTALLO. Its linear design ensures the new hinge blends discreetly into furniture such as glass display cabinets.



Versatile: CLIP top BLUMOTION CRISTALLO



CLIP top BLUMOTION CRISTALLO
in colour variant onyx black offers
even more design possibilities for
elegant-looking furniture.



With CLIP top BLUMOTION
CRISTALLO, front overlays of up
to 19 mm are possible.

The usual convenience: CLIP top BLUMOTION CRISTALLO assembly

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Standard fixing positions are used to fix the mounting plate in place in the cabinet, which enables the use of standard cabinets and also makes the production process more straightforward.



Simplified positioning

CLIP top BLUMOTION CRISTALLO can be used in a very wide range of glass display cabinets – without glass drilling. The adhesion template helps ensure that the adhesion plate is fixed in the correct position.



Tool-free assembly

Thanks to the CLIP interface, it is easy to mount the hinge on the adhesion plate.



Simple removal

If necessary, the hinge can also be removed from the adhesion plate – simply unclip and you're done.

**CLIP top BLUMOTION
for thin doors:
The special new hinge with
integrated dampening**

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8-14 mm

BLUMOTION



Doors of 8 mm thickness & above made possible

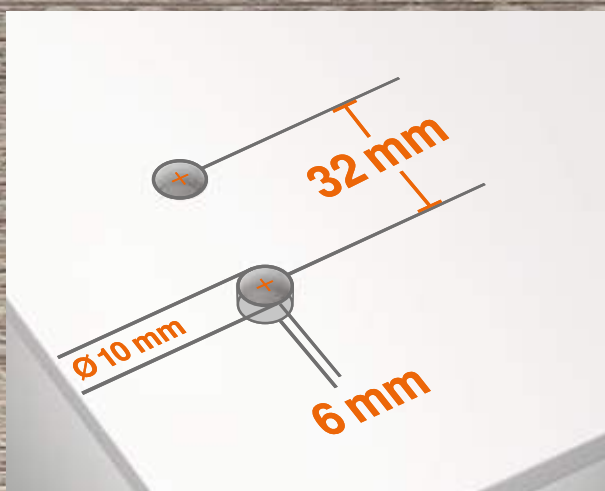
CLIP top BLUMOTION for thin doors gives you a large amount of creative leeway when designing furniture. Bring your ideas to life using a wide range of materials. Technically, the new hinge is an impressive blend of tried-and-tested Blum functionality and integrated dampening.



Dampening on demand

The integrated BLUMOTION feature can be deactivated for individual hinges via a simple switch to ensure that even smaller or lighter doors boast high quality of motion.





Assembly without boss drilling

EXPANDO T is fastened in a drilling with a diameter of 10 mm and a drilling depth of just 6 mm. There is no need for any boss drilling – which is a major plus when using hard materials.

Simple to fasten: EXPANDO T for a variety of materials

What sets CLIP top BLUMOTION for thin doors apart is the EXPANDO T split dowel, which was developed specifically for this purpose. Steel pull-in anchors ensure a firm hold in hard materials, while plastic jaws ensure the same firm hold in softer materials such as MDF and chipboard.

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6 mm

Versatile: CLIP top BLUMOTION for thin doors

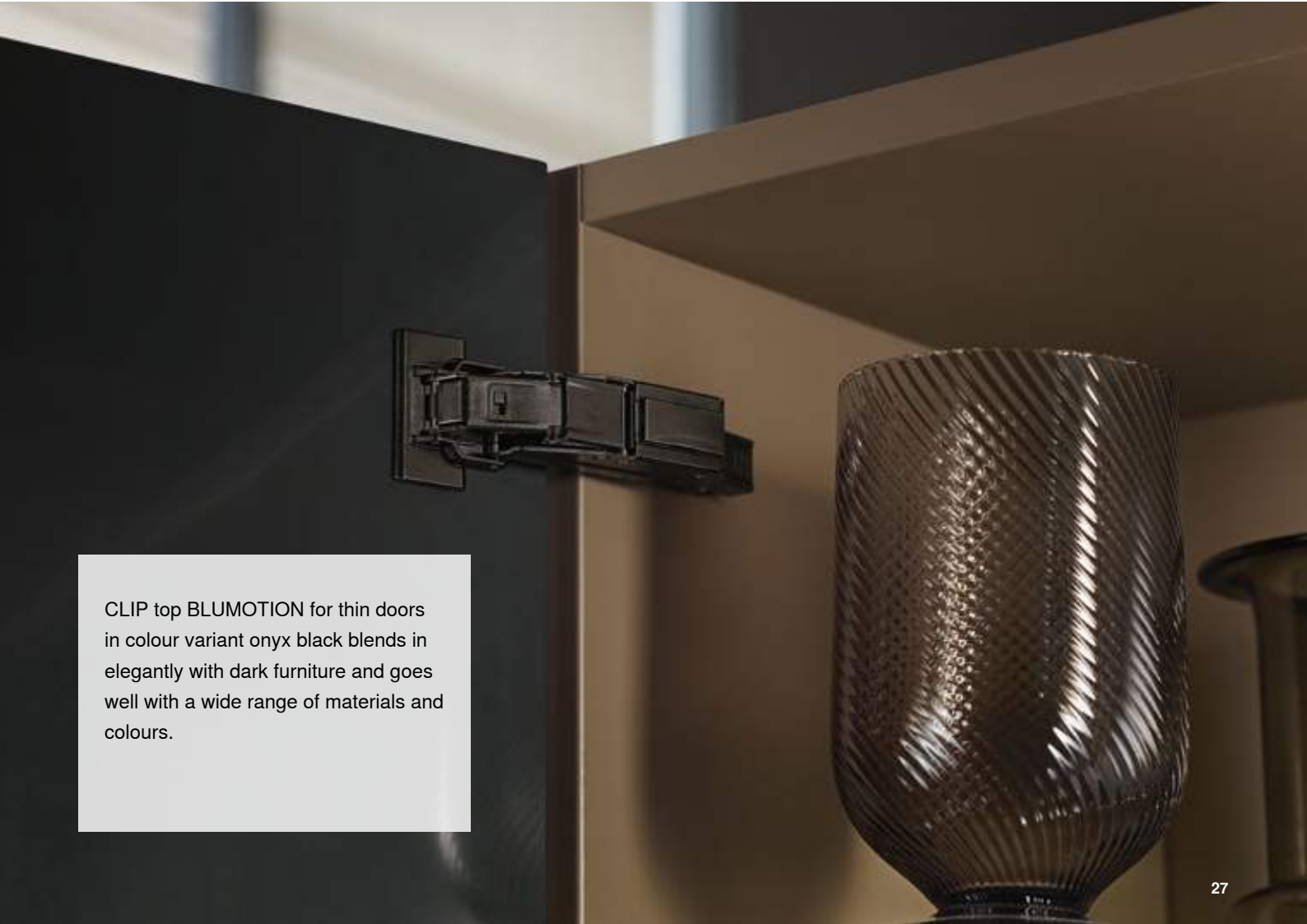
 **blum**



Thanks to the 0-protrusion, the CLIP top BLUMOTION hinge developed for thin doors is also suitable for cabinets with inner pull-outs, as well as for standard applications.



CLIP top BLUMOTION for thin doors promises the usual high level of Blum quality in furniture with a pared-down design: innovative technology, high-quality materials and a large amount of stability – for the life of the furniture.



CLIP top BLUMOTION for thin doors in colour variant onyx black blends in elegantly with dark furniture and goes well with a wide range of materials and colours.

The usual convenience:
CLIP top BLUMOTION
for thin doors assembly

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Simple hinge fixing

Place the dowels in the drill holes, tighten the screws, then you're done! The new type of fixing with EXPANDO T makes furniture with thin doors easy to process.



Standard fixing position

Standard fixing positions are used to fix the mounting plate in place in the cabinet, which enables the use of standard cabinets and also makes the production process more straightforward.



Tried-and-tested adjustment options

Tool-free front assembly using the CLIP mechanism, you also benefit from tried-and-tested infinitely variable adjustment of the height, side and depth.

CLIP top BLUMOTION CLIP top 155°



Order specification

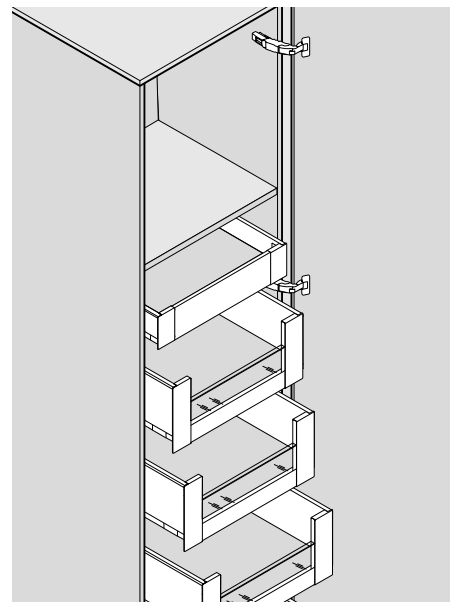
Product



Description

- **0-protrusion** for overlay application (for inner pull-outs or pull-out surrounds)
- **CLIP top BLUMOTION** with integrated BLUMOTION (and deactivation option)
- **CLIP top** with or without closing mechanism (spring)
- Tool-free fixing to mounting plate
- Three-dimensional adjustment
- With **INSERTA** tool-free hinge to door assembly

Application



Order specification

Overlay application

Boss	INSERTA		
	Hinge	Spring	Colour
	CLIP top BLUMOTION	●	NI ONS
	CLIP top	●	NI
	CLIP top	○	NI ONS

Boss	Screw-on		
	Hinge	Spring	Colour
	CLIP top BLUMOTION	●	NI ONS
	CLIP top	●	NI
	CLIP top	○	NI ONS

Boss	Knock-in		
	Hinge	Spring	Colour
	CLIP top BLUMOTION	●	NI ONS
	CLIP top	●	NI

Dual application

Boss	INSERTA		
	Hinge	Spring	Colour
	CLIP top BLUMOTION	●	NI ONS
	CLIP top	○	NI

Boss	Screw-on		
	Hinge	Spring	Colour
	CLIP top BLUMOTION	●	NI
	CLIP top	●	NI
	CLIP top	○	NI

Legend			
●	With spring	ONS	Onyx black
○	Unsprung	NI	Nickel plated

Inset application

For inset application use hinges for dual application and a 9 mm spaced mounting plate

Note

A trial application is recommended when combining CLIP top BLUMOTION and CLIP top hinges with springs on small light fronts up to approx. 300 mm wide. Combining these is not recommended for wider fronts.

Accessories – general

Hinge boss cover cap		
Hinge	Colour	Part no
CLIP top BLUMOTION	NI ONS	70T7504
CLIP top	NI ONS	70T7504

Hinge arm cover cap			
Print/stamp	Type	Colour	Part no
Plain	–	NI ONS	70.4503
Stamped	Blum	NI	70.4503.BP

Opening angle stop		
Opening angle	Colour	Part no
92°	Dark grey	70T7553.09
110°	RAL 7037 dust grey	70T7553

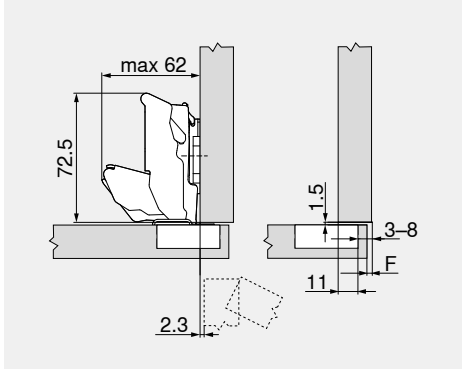
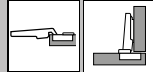
Insertion ram		
Material	Colour	Part no
Plastic	Orange	MZM.0040

Chipboard screw		
Ø (mm)	Length (mm)	Part no
3.5	15	609.1500
3.5	17	609.1700

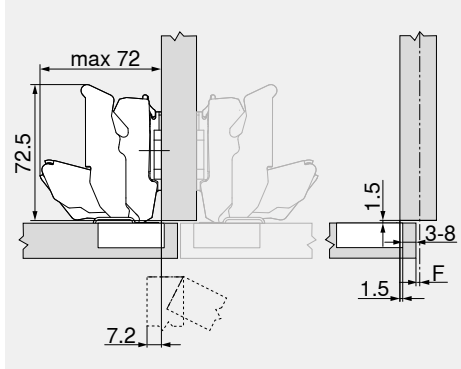
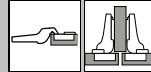
Hinge dimensions and gap calculation based on factory setting (mounting plate spacing = 0 or 9 mm)

Front protrusion at 90° opening angle

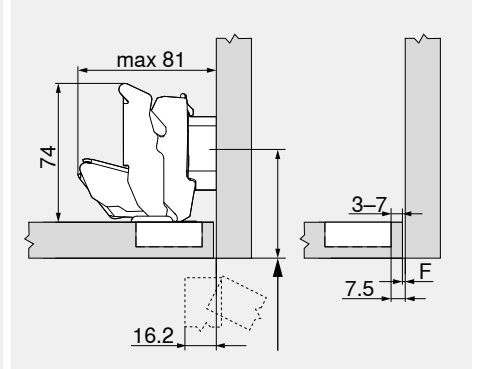
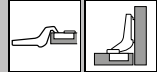
Overlay application 0-protrusion hinge



Dual application



Inset application



F Gap

Set mounting plate fixing position back by door thickness + 1.5 mm

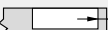
Drilling distance

Front overlay																		
	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19			
0											3	4	5	6	7	8		
3							3	4	5	6	7	8						
6				3	4	5	6	7	8									
9	3	4	5	6	7	8												
Mounting plate																		

Front overlay																		
	-4.5	-3.5	-2.5	-1.5	-0.5	0.5	1.5	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5			
0											3	4	5	6	7	8		
3								3	4	5	6	7	8					
6				3	4	5	6	7	8									
9	3	4	5	6	7	8												
Mounting plate																		

Front overlay																		
	-4.5	-3.5	-2.5	-1.5	-0.5													
0																		
3																		
6																		
9	3	4	5	6	7													
Mounting plate																		

Minimum gap (F) for fronts with a front radius (R = 1 mm) based on the factory setting

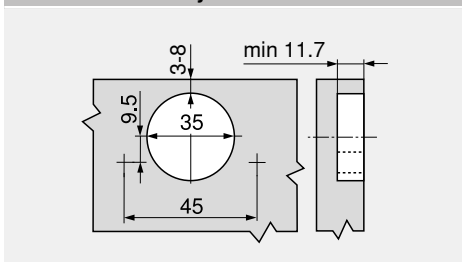
		Front thickness FD (mm)												
		20	21	22	23	24	25	26	27	28	29	30	31	
 TB	Drilling distance TB	3	0	0	0	0	0	0.5	0.5	1.0	2.0	2.0	3.0	4.5
		4	0	0	0	0	0	0.5	1.0	2.0	2.0	2.5	4.0	-
		5	0	0	0	0	0	0.5	1.0	2.0	2.0	3.5	-	-
		6	0	0	0	0	0	1.0	1.5	2.0	3.0	-	-	-
		7	0	0	0	0	0	1.0	1.5	2.5	-	-	-	-
		8	0	0	0	0	0	1.0	1.5	-	-	-	-	-
		110°	Opening angle stop											
		92°	Opening angle stop											

We recommend a trial application for an overlay application on the wall.

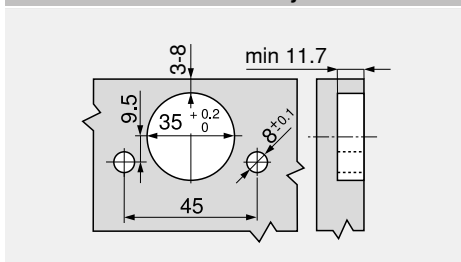
Adjustment

max. ± 3.0 mm	± 2.0 mm	+ 3.0 mm
See mounting plates		- 2.0 mm

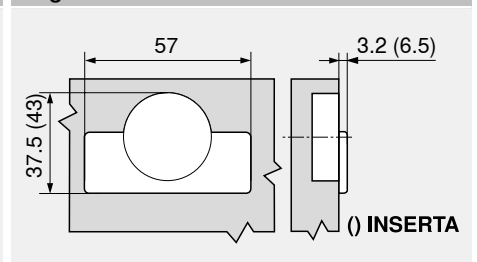
Screw-on assembly



INSERTA/knock-in assembly



Hinge boss dimensions



CLIP top BLUMOTION CLIP top 155°

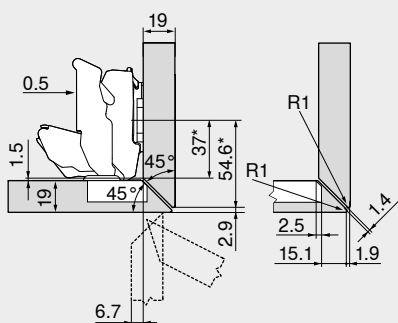


Planning Special application

Mitred application – all four edges



19 mm

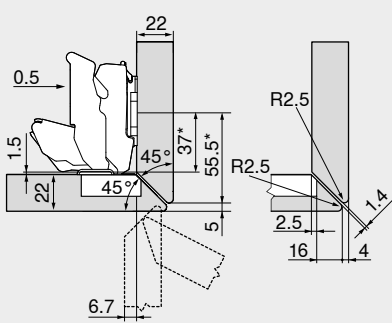


Hinge for dual applications

Standard mounting plates with 0 mm spacing

* Dimension for mounting plate with dimension A = 37 mm

22 mm

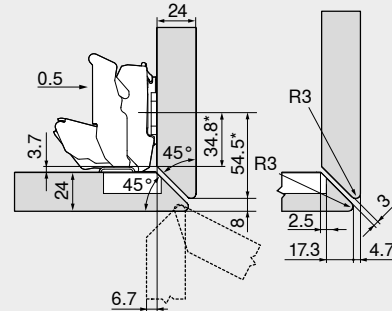


Hinge for dual applications

Standard mounting plates with 0 mm spacing

* Dimension for mounting plate with dimension A = 37 mm

24 mm



Hinge for dual applications

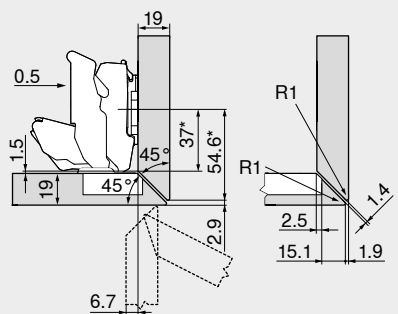
Standard mounting plates with 0 mm spacing

* Dimension for mounting plate with dimension A = 37 mm

Mitred application – side



19 mm

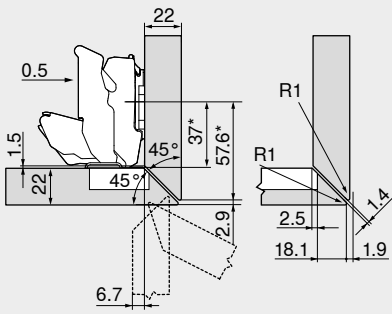


Hinge for dual applications

Standard mounting plates with 0 mm spacing

* Dimension for mounting plate with dimension A = 37 mm

22 mm

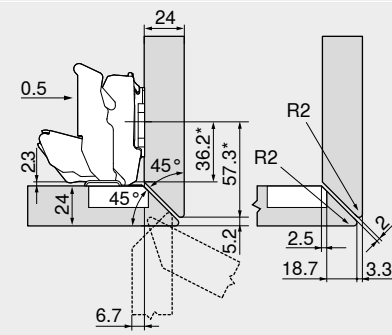


Hinge for dual applications

Standard mounting plates with 0 mm spacing

* Dimension for mounting plate with dimension A = 37 mm

24 mm



Hinge for dual applications

Standard mounting plates with 0 mm spacing

* Dimension for mounting plate with dimension A = 37 mm

Planning Special application

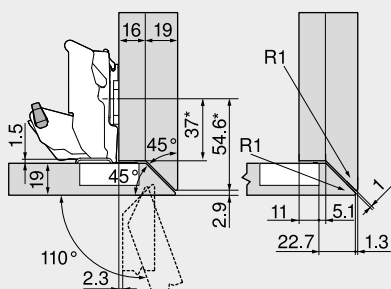
CLIP top BLUMOTION CLIP top 155°



Mitred application – side, with large overlay



16/19 mm



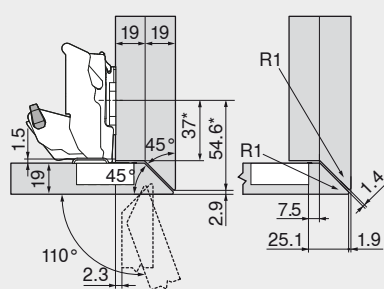
Hinge for overlay applications

Standard mounting plates with 0 mm spacing

* Dimension for mounting plate with dimension A = 37 mm

Description	Angled	Part no
110° opening angle stop		70T7553

19/19 mm



Hinge for overlay applications

Standard mounting plates with 0 mm spacing

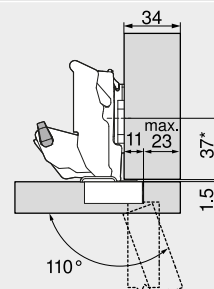
* Dimension for mounting plate with dimension A = 37 mm

Description	Angled	Part no
110° opening angle stop		70T7553

Front overlay max.



34 mm



Hinge for overlay applications

Standard mounting plates with 0 mm spacing

* Dimension for mounting plate with dimension A = 37 mm

Description	Angled	Part no
110° opening angle stop		70T7553

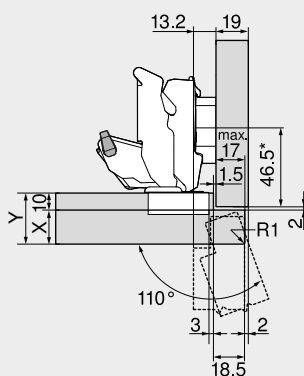
You can select any front thickness for a free-standing cabinet.

We recommend a trial application for a neighbouring front or an overlay application on the wall.

Rebated applications



10 mm

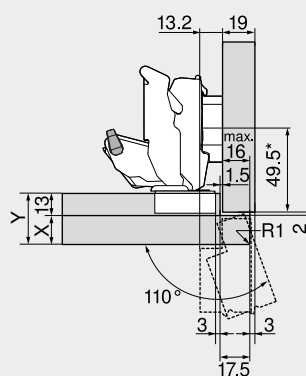


Hinge for dual applications

Description	Space (mm)	Part no
Mounting plate	6	175H9160
Description	Angled	Part no
Opening angle stop	110°	70T7553

Cabinet situation	X max. (mm)	Y max. (mm)
	18	28
	20	30
	25	35

13 mm

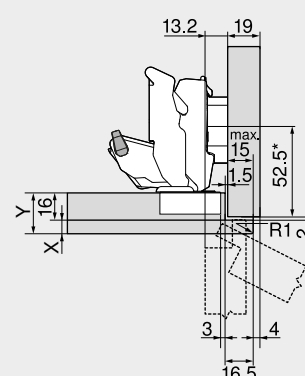


Hinge for dual applications

Description	Space (mm)	Part no
Mounting plate	6	175H9160
Description	Angled	Part no
Opening angle stop	110°	70T7553

Cabinet situation	X max. (mm)	Y max. (mm)
	16	29
	17	30
	17	30

16 mm



Hinge for dual applications

Description	Space (mm)	Part no
Mounting plate	6	175H9160
Description	Angled	Part no
Opening angle stop	110°	70T7553

Cabinet situation	X max. (mm)	Y max. (mm)
	8	24
	8	24
	8	24

CLIP top BLUMOTION CLIP top 125°



Order specification

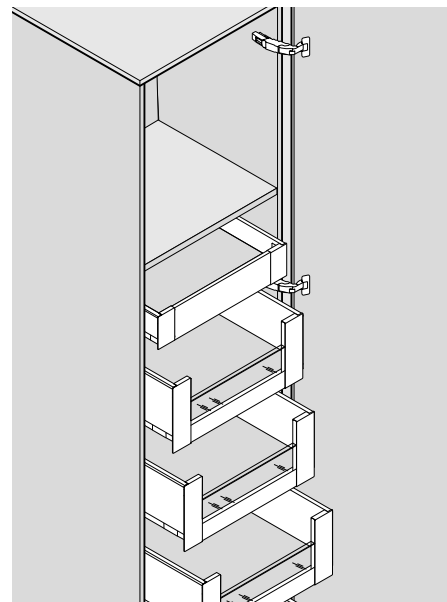
Product



Description

- **0-protrusion** (for inner pull-outs or pull-out surrounds)
- Hinge for thick fronts and profile/thick doors
- **CLIP top BLUMOTION** with integrated BLUMOTION (and deactivation option)
- **CLIP top** with or without closing mechanism (spring)
- Tool-free fixing to mounting plate
- Three-dimensional adjustment

Application



Order specification

Overlay application 0-protrusion hinge

	Boss	☐	Screw-on	
	Hinge	Spring	Colour	Part no
	CLIP top BLUMOTION	●	NI	71B7550D

	Boss	☐	Knock-in	
	Hinge	Spring	Colour	Part no
	CLIP top BLUMOTION	●	NI	71B7580D

Accessories – general

	☐	Hinge boss cover cap	
Hinge	Colour	Part no	
CLIP top BLUMOTION	NI	70T7504	

	☐	Hinge arm cover cap	
Print/stamp	Type	Colour	Part no
Plain	–	NI	70.4503
Stamped	Blum	NI	70.4503.BP

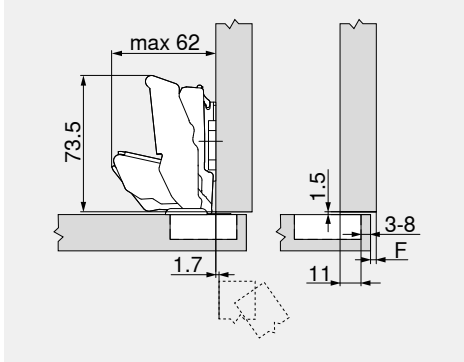
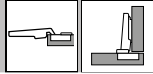
	☐	Opening angle stop	
Opening angle	Colour	Part no	
92°	R7037	70T7553	

	☐	Chipboard screw	
Ø (mm)	Length (mm)	Part no	
3.5	15	609.1500	
3.5	17	609.1700	

Hinge dimensions and gap calculation based on factory setting (mounting plate spacing = 0 mm)

Front protrusion at 90° opening angle

Overlay application 0-protrusion hinge

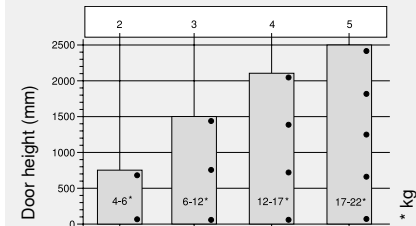


F Gap

Drilling distance

		Front overlay																	
		5	6	7	8	9	10	11	12	13	14	15	16	17	18	19			
0											3	4	5	6	7	8			
3							3	4	5	6	7	8							
6					3	4	5	6	7	8									
9	3	4	5	6	7	8													
		Mounting plate																	

Number of Hinges



The number of hinges depends on the door height and weight.

To achieve good stability, the hinge spacing distance should be as large as possible.

Indications on load and height apply to a standard door width of 600 mm.

Minimum gap (F) for fronts with a front radius (R = 1 mm) based on the factory setting

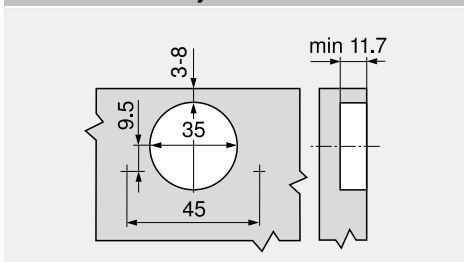
		Front thickness FD (mm)													
		28	29	30	31	32	33	34	35	36	37	38	39	40	
	Drilling distance TB	3	0	0	0	0	0.1	0.3	0.7	1.2	2	2.8	4.1	5.7	-
		4	0	0	0	0	0.1	0.4	0.8	1.5	2.3	3.4	4.9	-	-
		5	0	0	0	0	0.1	0.4	1	1.7	2.8	4.2	-	-	-
		6	0	0	0	0	0.1	0.6	1.2	2.1	3.5	-	-	-	-
		7	0	0	0	0	0.2	0.7	1.6	2.8	-	-	-	-	-
		8	0	0	0	0	0.3	1	2	-	-	-	-	-	-
		92°	Opening angle stop												

We recommend a trial application for an overlay application on the wall.

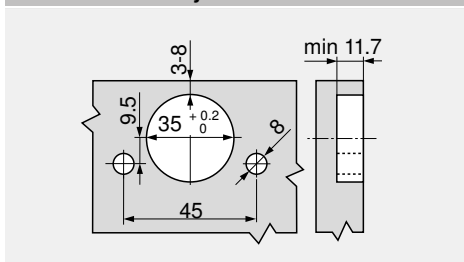
Adjustment

max. ± 3.0 mm	± 2.0 mm	+ 3.0 mm
See mounting plates		- 2.0 mm

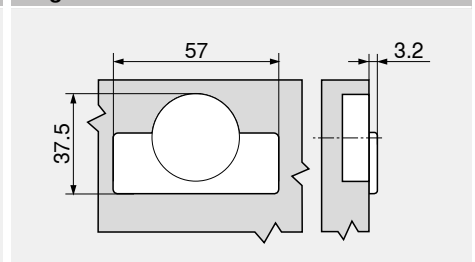
Screw-on assembly



Knock-in assembly



Hinge boss dimensions



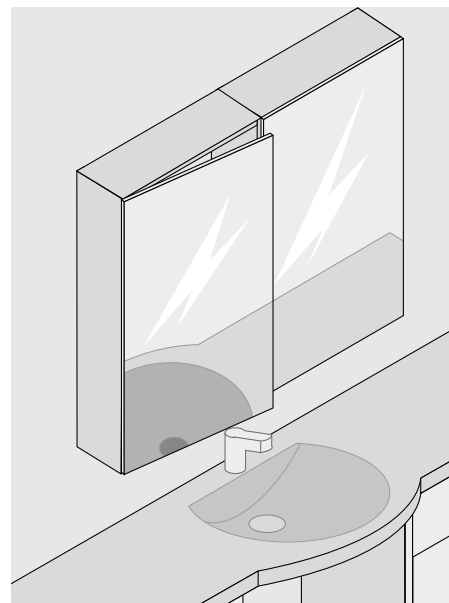
CLIP top BLUMOTION CRISTALLO 110°



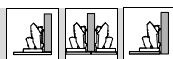
Order specification



- Hinge for glass and mirror doors
- Adhesion plate is glued on to the front, without glass drilling
- CLIP top BLUMOTION with integrated BLUMOTION (and deactivation option)
- CLIP top with or without closing mechanism (spring)
- 0-protrusion
- Tool-free fixing to boss and mounting plate
- Three-dimensional front adjustment



Overlay application, dual application, inset application



		CRISTALLO	
Hinge	Spring	Colour	Part no
CLIP top BLUMOTION	●	NI ONS	71B4500C
CLIP top	●	NI	71T4500C
CLIP top	○	NI	70T4500CTL

		CRISTALLO adhesion plate	
Front material	Colour		Part no
Glass/mirror	Matt-nickel plated		70T4568C
Mirror	Special nickel plated		70T4568C

		Hinge arm cover cap	
Print/stamp	Logo	Colour	Part no
Plain	—	NI ONS	70.4503
Stamped	Blum	NI	70.4503.BP

		Opening angle stop	
Opening angle	Colour		Part no
85°	Dark grey		70T4503
92°	RAL 7037 dust grey		70T4503.09

Legend			
●	With spring	ONS	Onyx black
○	Unsprung	NI	Nickel plated

The different overlay applications can be achieved with the appropriate adhesion positions.

Disclaimer of liability

If the Blum fittings are installed according to instructions and on suitable glass and mirror fronts, they will meet the requirements concerning the stability of the connection.

This is monitored through internal and external testing.

As the adhesive and/or the adhesive process are beyond our control, Blum cannot accept liability for claims arising from the failure or malfunction of this/ these process/es.

It is recommended that the adhesive be applied by an experienced glass manufacturer.

Hinge dimensions and gap calculation based on factory setting (mounting plate spacing = 0 mm)

Front protrusion at 90° opening angle

Overlay application		Dual application		Inset application	
A Cabinet front edge to centre of mounting plate drilling		A Cabinet front edge to centre of mounting plate drilling		A Cabinet front edge to centre of mounting plate drilling	
20 mm with mounting plate A20		20 mm with mounting plate A20		21.5 mm + front thckn. FD w. mounting plate A20	
37 mm with mounting plate A37		37 mm with mounting plate A37		38.5 mm + front thckn. FD w. mounting plate A37	
FA Front overlay		FA Front overlay			

Distance

MD	Front overlay FA (mm)																	
	-3.5	-3	-2.5	-2	-1.5	-1	2.5	4	5.5	7	8.5	10	11.5	13	14.5	16	17.5	19
0	0	0.5	1	1.5	2	2.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	22.5
3	3	3.5	4	4.5	5	5.5	9	10.5	12	13.5	15	16.5	18	19.5	21	22.5		
6	6	6.5	7	7.5	8	8.5	12	13.5	15	16.5	18	19.5	21	22.5				
9	9	9.5	10	10.5	11	11.5	15	16.5	18	19.5	21	22.5						
MD	Mounting plate spacing (mm)																	

Due to the risk of breakage to glass and mirror doors, sufficient surrounding gaps are required (recommendation: min. 2 mm).

Adhesion plate distance		Adjustment		
FA	Front overlay	max. ± 3.0 mm		
KT	Adhesion plate distance	See mounting plates		
KT = FA + 3.5 mm + MD		± 2.0 mm		
MD Mounting plate spacing (mm)		+ 3.0 mm / - 2.0 mm		

Note

Please contact your glass or front suppliers concerning the right adhesive and its use in fixing the mounting/adhesive plate on to glass and mirror doors.

Assembly			Removal		

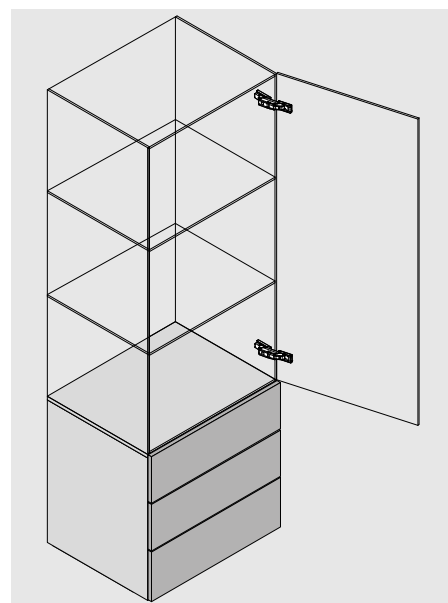
CLIP top BLUMOTION CRISTALLO 110°



Order specification glass display cabinets



- Hinge for glass display cabinets
- Mounting/adhesion plate is glued on to glass, no glass drilling necessary
- CLIP top BLUMOTION with integrated BLUMOTION (and deactivation option)
- CLIP top with or without closing mechanism (spring)
- Tool-free fixing to mounting and adhesion plate
- Three-dimensional front adjustment



Inset application

Hinge		CRISTALLO		
	Spring	Colour	Part no	
CLIP top BLUMOTION	●	NI	71B4500C	
CLIP top	●	NI	71T4500C	
CLIP top	○	NI	70T4500CTL	

Front material		CRISTALLO adhesion plate		
	Colour		Part no	
Glass/mirror	Matt-nickel plated		70T4568C	
Mirror	Special nickel plated		70T4568C	

Front material		CRISTALLO mounting plate		
	Colour		Part no	
Glass/mirror	Matt-nickel plated		175M4C20N	

Print/stamp		Hinge arm cover cap		
	Logo	Colour	Part no	
Plain	—	NI	70.4503	
Stamped	Blum	NI	70.4503.BP	

Opening angle		Opening angle stop		
	Colour		Part no	
85°	Dark grey		70T4503	
92°	RAL 7037 dust grey		70T4503.09	

Legend

●	With spring	ONS	Onyx black
○	Unsprung	NI	Nickel plated

Disclaimer of liability

If the Blum fittings are installed according to instructions and on suitable glass and mirror fronts, they will meet the requirements concerning the stability of the connection.

This is monitored through internal and external testing.

As the adhesive and/or the adhesive process are beyond our control, Blum cannot accept liability for claims arising from the failure or malfunction of this/these process/es.

It is recommended that the adhesive be applied by an experienced glass manufacturer.

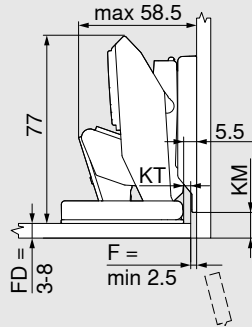
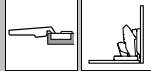
Planning glass display cabinets

CLIP top BLUMOTION CRISTALLO 110°



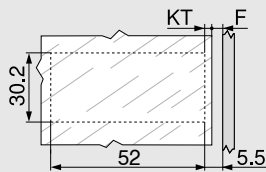
Hinge dimensions and gap calculation based on factory setting (mounting plate spacing = 0 mm)

Inset application



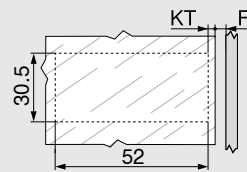
FD	Front thickness
F	Gap
KM	Mounting plate distance
KT	Adhesion plate distance

Adhesion plate distance



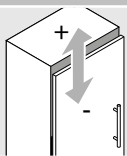
F	Gap
KT	Adhesion plate distance
$KT = 5.5 \text{ mm} - F$	

Mounting plate distance

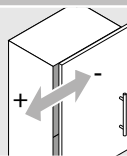


FD	Front thickness
KM	Mounting plate distance
$KM = FD + 4.5 \text{ mm}$	

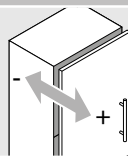
Adjustment



Max. $\pm 2.0 \text{ mm}$



$\pm 2.0 \text{ mm}$

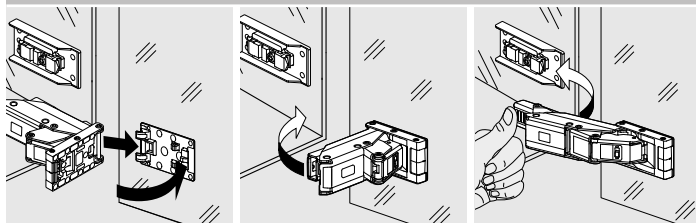


+3.0 mm
-2.0 mm

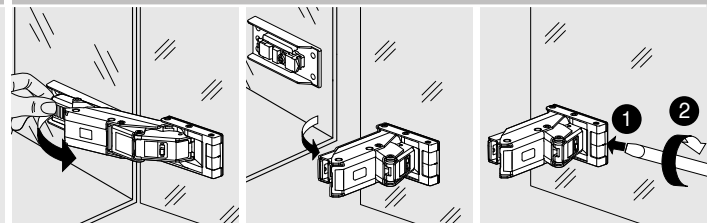
Note

Please contact your glass or front suppliers concerning the right adhesive and its use in fixing the mounting/adhesive plate on to glass and mirror doors.

Assembly



Removal



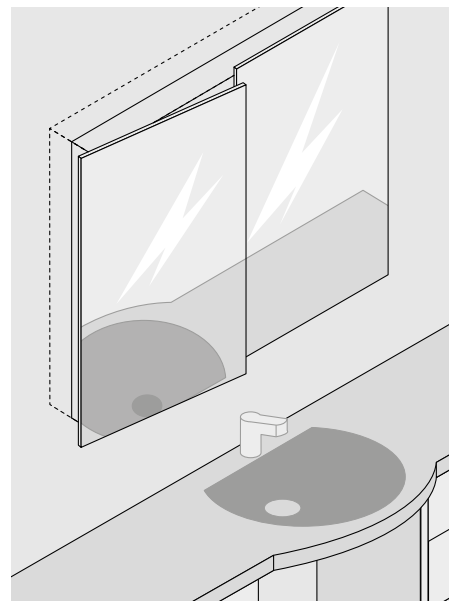
CLIP top BLUMOTION CRISTALLO 95°



Order specification Bathroom mirror cabinets with fronts that protrude all the way around



- Mounting plate is glued on to the front
- Boss drilling on the cabinet
- CLIP top BLUMOTION with integrated BLUMOTION (and deactivation option)
- CLIP top without closing mechanism (spring)
- Tool-free fixing to mounting plate
- Three-dimensional front adjustment
- With INSERTA tool-free hinge to door assembly



Hinge with double cranked hinge arm



Boss Hinge	Spring	INSERTA Colour	Part no
CLIP top BLUMOTION	●	NI	71B9790

Boss Hinge	Spring	Screw-on Colour	Part no
CLIP top BLUMOTION	●	NI	71B9750
CLIP top	○	NI	70T9750.TL

Front material	Colour	CRISTALLO mounting plate	Part no
Glass/mirror	Matt-nickel plated		175M4C20N

Print/stamp	Logo	Hinge arm cover cap Colour	Part no
Plain	—	NI	70.1663
Stamped	Blum	NI	70.1663.BP

Hinge	Hinge boss cover cap	Part no
CLIP top BLUMOTION		70T3504
CLIP top		70T1504

Ø (mm)	Length (mm)	Chipboard screw	Part no
3.5	15		609.1500
3.5	17		609.1700

Legend			
●	With spring	ONS	Onyx black
○	Unsprung	NI	Nickel plated

Disclaimer of liability

If the Blum fittings are installed according to instructions and on suitable glass and mirror fronts, they will meet the requirements concerning the stability of the connection.

This is monitored through internal and external testing.

As the adhesive and/or the adhesive process are beyond our control, Blum cannot accept liability for claims arising from the failure or malfunction of this/these process/es.

It is recommended that the adhesive be applied by an experienced glass manufacturer.

Note

Only recommended for wall cabinets due to lower load bearing limits!

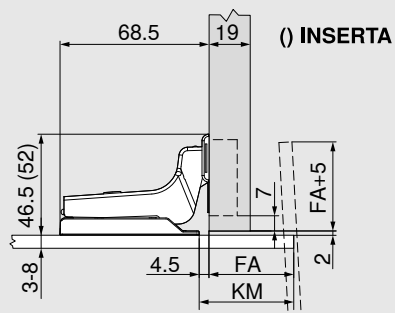
Planning Bathroom mirror cabinets with fronts that protrude all the way around

CLIP top BLUMOTION
CRISTALLO 95°



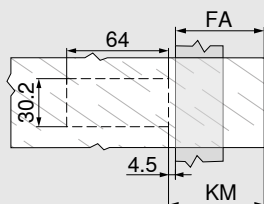
Hinge dimensions and gap calculation based on factory setting (mounting plate spacing = 0 mm)

Hinge with double cranked hinge arm



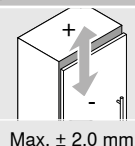
FA	Front overlay
KM	Mounting plate distance

Mounting plate distance

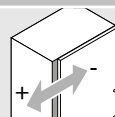


FA	Front overlay
	FA = max. 70 mm
KM	Mounting plate distance
	KM = FA + 4.5 mm

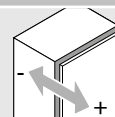
Adjustment



Max. ± 2.0 mm



+2.0 mm
-3.0 mm

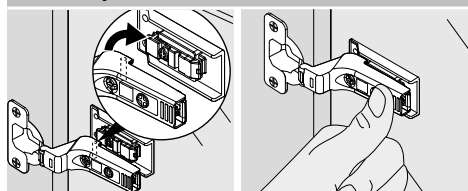


± 2.0 mm

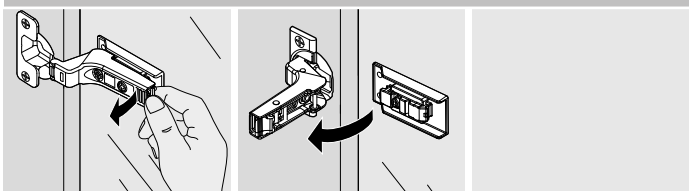
Note

Please contact your glass or front suppliers concerning the right adhesive and its use in fixing the mounting/adhesive plate on to glass and mirror doors.

Assembly



Removal



CLIP top BLUMOTION CRISTALLO 110°



Order specification angled application



- Hinge for glass and mirror doors
- Adhesion plate is glued on to the front, without glass drilling
- **CLIP top BLUMOTION** with integrated BLUMOTION (and deactivation option)
- **CLIP top** with or without closing mechanism (spring)
- Tool-free fixing to boss and mounting plate
- Three-dimensional front adjustment

WA	Angled -5°	WA	5°	Angled 10°	15°
	N° 106		N° 103	N° 104	N° 105
	N° 107		N° 100	N° 101	N° 102

WA angled application

Hinge	Spring	Colour	Part no
CLIP top BLUMOTION	●	NI	71B4500C
CLIP top	●	NI	71T4500C
CLIP top	○	NI	70T4500CTL

Front material	Colour	Part no
Glass/mirror	Matt-nickel plated	70T4568C
Mirror	Special nickel plated	70T4568C

Print/stamp	Logo	Colour	Part no
Plain	—	NI	70.4503
Stamped	Blum	NI	70.4503.BP

Disclaimer of liability

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This is monitored through internal and external testing.

As the adhesive and/or the adhesive process are beyond our control, Blum cannot accept liability for claims arising from the failure or malfunction of this/these process/es.

It is recommended that the adhesive be applied by an experienced glass manufacturer.

Legend

● With spring	ONS Onyx black
○ Unsprung	NI Nickel plated

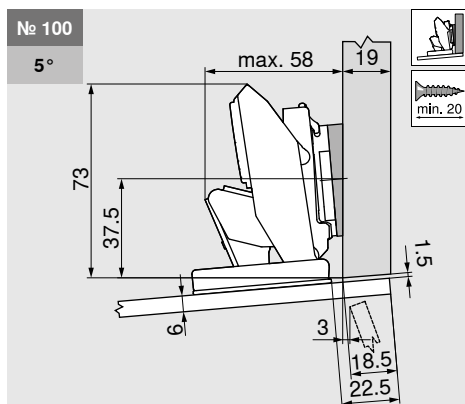
Note

These dimensions are based on a 19 mm thick cabinet. The application changes in cases of deviation. In these cases a trial is recommended. Some applications require the mounting plate to be moved from the standard fixing positions.

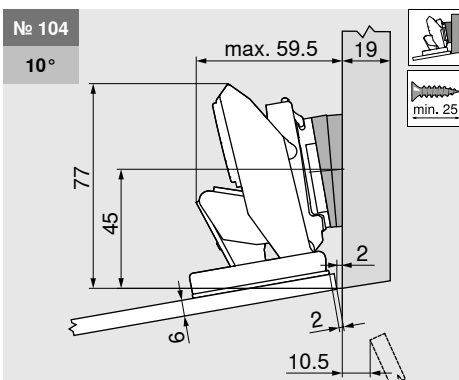
N° 106 			N° 107 			N° 103 		
Description Mounting plate Angled spacer Space (mm) 0 -5° Part no 173H7100 171A5500			Description Mounting plate Angled spacer Space (mm) 0 -5° Part no 173H7100 171A5500			Description Mounting plate Angled spacer Space (mm) 0 +5° Part no 173H7100 171A5010		

Planning angled application

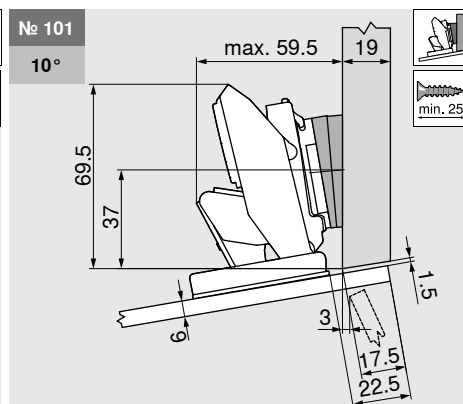
CLIP top BLUMOTION CRISTALLO 110°



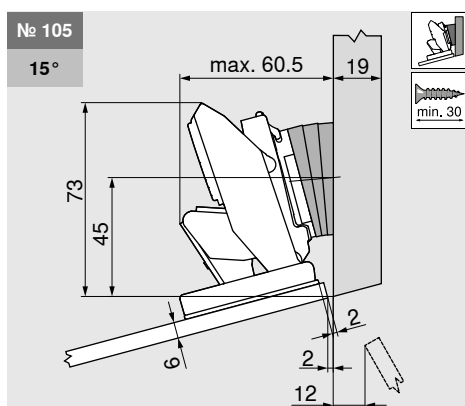
Description	Space (mm)	Part no
Mounting plate	0	173H7100
Angled spacer	+5°	171A5010



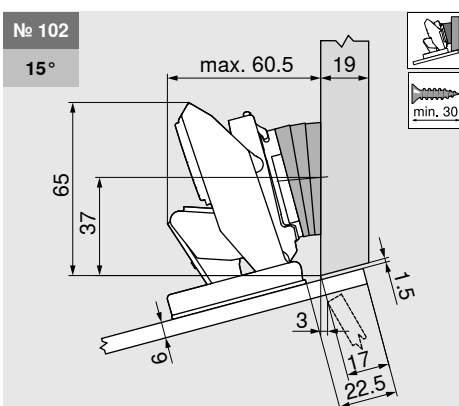
Description	Space (mm)	Part no
Mounting plate	0	173H7100
Angled spacer	+5° x 2	171A5010



Description	Space (mm)	Part no
Mounting plate	0	173H7100
Angled spacer	+5° x 2	171A5010



Description	Space (mm)	Part no
Mounting plate	0	173H7100
Angled spacer	+5° x 3	171A5010

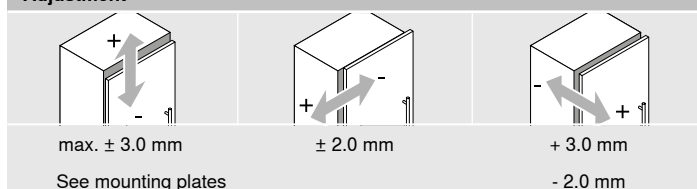


Description	Space (mm)	Part no
Mounting plate	0	173H7100
Angled spacer	+5° x 3	171A5010

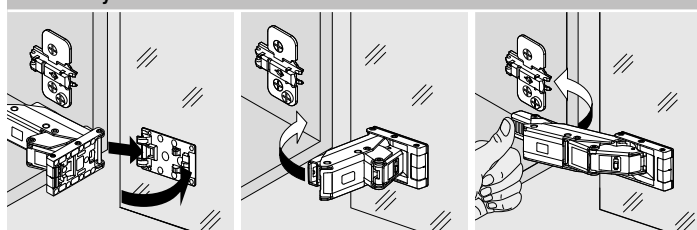
Note

Please contact your glass or front suppliers concerning the right adhesive and its use in fixing the mounting/adhesive plate on to glass and mirror doors.

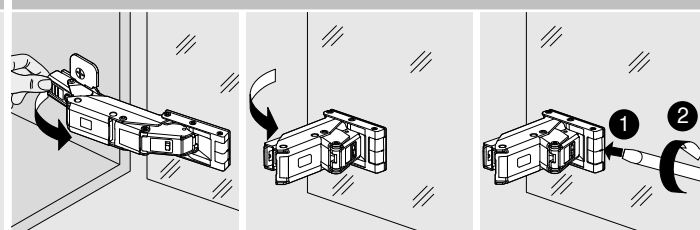
Adjustment



Assembly



Removal



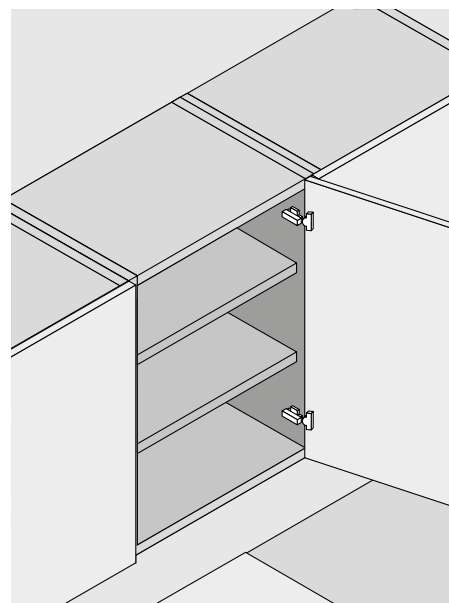
CLIP top BLUMOTION for thin doors 110°



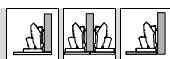
Order specification



- Hinge for doors of 8–14 mm
- EXPANDO T fixing system for a variety of front materials
- CLIP top BLUMOTION with integrated BLUMOTION (and deactivation option)
- CLIP top with or without closing mechanism (spring)
- 0-protrusion (for inner pull-outs or pull-out surrounds)
- Tool-free fixing to mounting plate
- Three-dimensional front adjustment



Overlay application, dual application, inset application



Boss		EXPANDO T	
Hinge	Spring	Colour	Part no
CLIP top BLUMOTION	●	NI ONS	71B453T
CLIP top	●	NI	71T453T
CLIP top	○	NI	70T453T.TL

The different overlay applications can be achieved with the appropriate fixing position.

Legend

●	With spring	ONS	Onyx black
○	Unsprung	NI	Nickel plated

EXPANDO T area of application

EXPANDO T is suitable for fixing Blum fittings to thin front materials in furniture manufacturing. With sufficient stability and strength, front materials of 8 mm thickness and above may be used.

Area of application and assembly recommendation

Materials tested by Blum	Min. tightening torque (Nm)
Chipboard (transverse tensile strength > 0.4 N/mm ²)	1.5
MDF (transverse tensile strength > 0.6 N/mm ²)	1.5
HDF	2
HPL	2
Mineral composites	2
Nero Assoluto natural granite stone	3
Artificial stone – quartz composite	3
Ceramic plates	3

Accessories

Print/stamp	Logo	Hinge arm cover cap	Part no
Plain	–	NI ONS	70.4503
Stamped	Blum	NI	70.4503.BP

	Colour	Hinge boss cover cap	Part no
CLIP top BLUMOTION	NI ONS		70T4504
CLIP top	NI		70T4504

	Opening angle	Colour	Part no
85°		Dark grey	70T4503
92°		RAL 7037 dust grey	70T4503.09

Disclaimer of liability

Blum accepts no liability for the use of EXPANDO T in combination with materials not listed or fittings from other manufacturers. It is recommended that the assembly be carried out by an experienced furniture manufacturer.

Further information

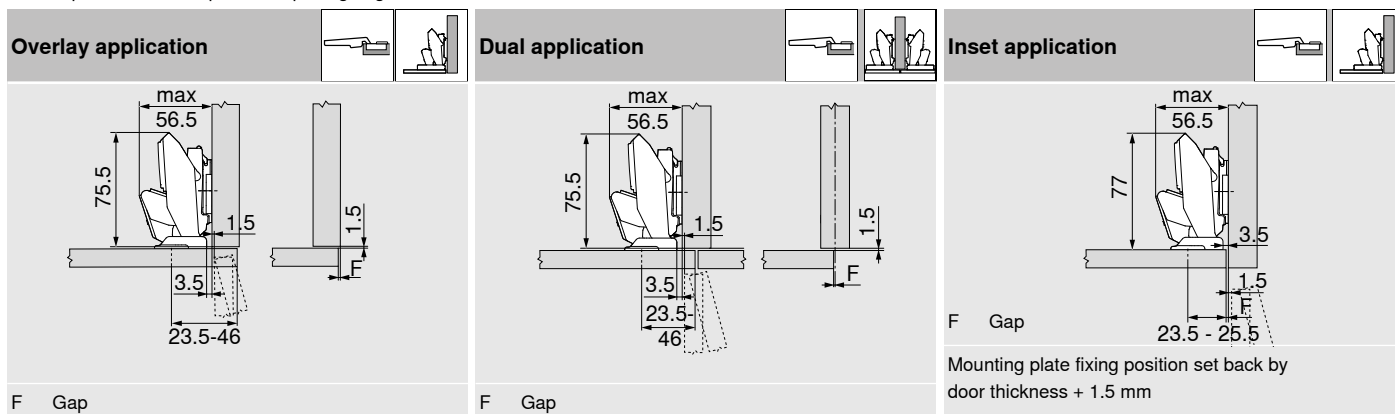
Find out more about our new EXPANDO T fixing system for doors, lift systems and pull-outs



> www.blum.com/EXPANDO_T_2

Hinge dimensions and gap calculation based on factory setting (mounting plate spacing = 0 mm)

Front protrusion with up to 90° opening angle



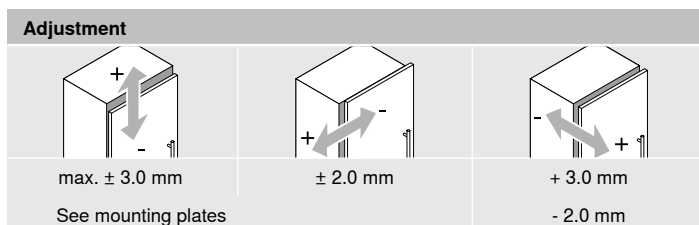
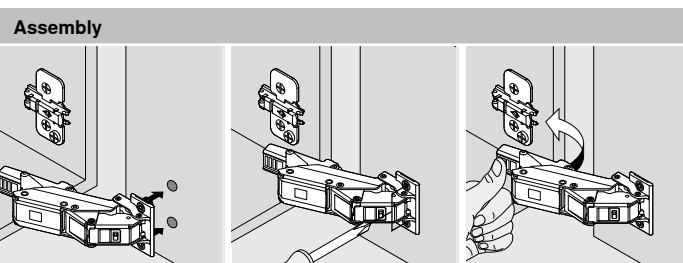
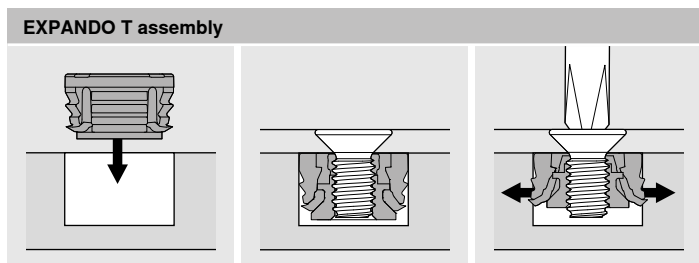
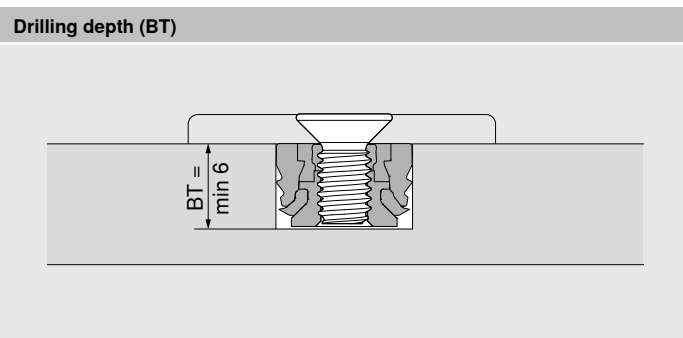
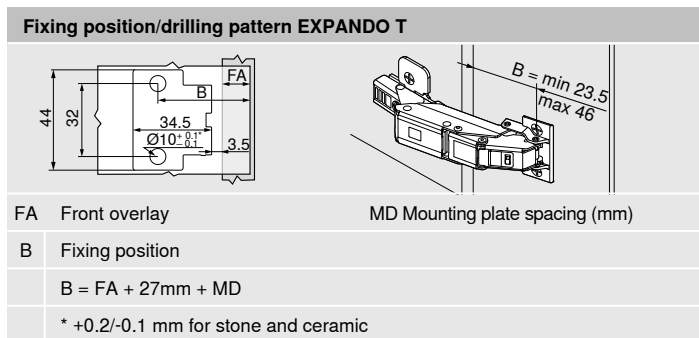
Fixing position																		
MD	Front overlay FA (mm)																	
	-3.5	-3	-2.5	-2	-1.5	-1	2.5	4	5.5	7	8.5	10	11.5	13	14.5	16	17.5	19
0	23.5	24	24.5	25	25.5	26	29.5	31	32.5	34	35.5	37	38.5	40	41.5	43	44.5	46
3	26.5	27	27.5	28	28.5	29	32.5	34	35.5	37	38.5	40	41.5	43	44.5	46		
6	29.5	30	30.5	31	31.5	32	35.5	37	38.5	40	41.5	43	44.5	46				
9	32.5	33	33.5	34	34.5	35	38.5	40	41.5	43	44.5	46						
MD		Mounting plate spacing (mm)																
The minimum gap is always 0 mm.																		

Mounting plate distance for cabinet/door thickness								
Cabinet side panel thickness (mm)	Door thickness (mm)							
		8	9	10	11	12	13	14
	15							
	16							
	17							
	18							
	19							
	20							

MD 0 mm possible

MD 3 mm required

MD 6 mm required



CLIP top BLUMOTION for thin doors 110°



Order specification angled application

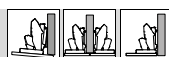


- Hinge for doors of 8–14 mm
- EXPANDO T fixing system for a variety of front materials
- CLIP top BLUMOTION with integrated BLUMOTION (and deactivation option)
- CLIP top with or without closing mechanism (spring)
- Tool-free fixing to mounting plate
- Three-dimensional front adjustment

WA	Angled -5°	WA	5°	Angled 10°	15°
	№ 114		№ 115	№ 116	№ 117
	№ 110		№ 111	№ 112	№ 113

WA angled application

Overlay application, dual application, inset application



Boss	Spring	EXPANDO T	Part no
Hinge		Colour	
CLIP top BLUMOTION	●	NI	71B453T
CLIP top	●	NI	71T453T
CLIP top	○	NI	70T453T.TL

The different overlay applications can be achieved with the appropriate fixing position.

Legend

●	With spring	ONS	Onyx black
○	Unsprung	NI	Nickel plated

Note

These dimensions are based on a 19 mm thick cabinet. The application changes in cases of deviation. In these cases a trial is recommended. Some applications require the mounting plate to be moved from the standard fixing positions.

Accessories

Print/stamp	Logo	Hinge arm cover cap	Part no
Plain	–	NI	70.4503
Stamped	Blum	NI	70.4503.BP

	Colour	Hinge boss cover cap	Part no
CLIP top BLUMOTION	NI		70T4504
CLIP top	NI		70T4504

Disclaimer of liability

Blum accepts no liability for the use of EXPANDO T in combination with materials not listed or fittings from other manufacturers. It is recommended that the assembly be carried out by an experienced furniture manufacturer.

Further information

Find out more about our new EXPANDO T fixing system for doors, lift systems and pull-outs



> www.blum.com/EXPANDO_T_2

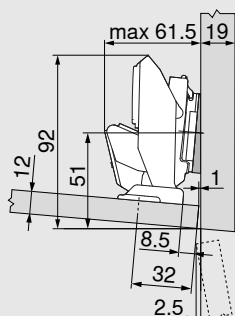
Planning angled application

CLIP top BLUMOTION for thin doors 110°



№ 112

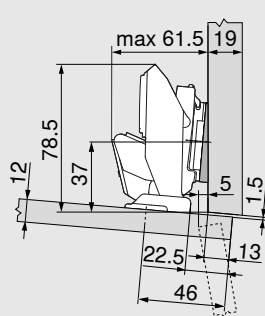
-5°



Description	Space (mm)	Part no
Mounting plate	0	173H7100
Angled spacer	-5°	171A5500

№ 108

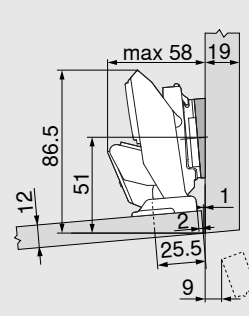
-5°



Description	Space (mm)	Part no
Mounting plate	0	173H7100
Angled spacer	-5°	171A5500

№ 113

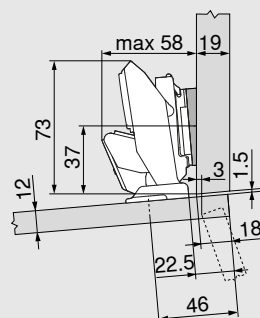
5°



Description	Space (mm)	Part no
Mounting plate	0	173H7100
Angled spacer	+5°	171A5010

№ 109

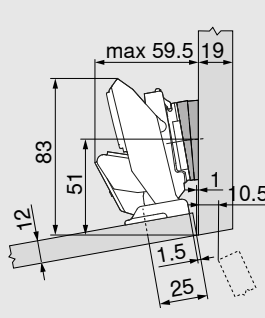
5°



Description	Space (mm)	Part no
Mounting plate	0	173H7100
Angled spacer	+5°	171A5010

№ 114

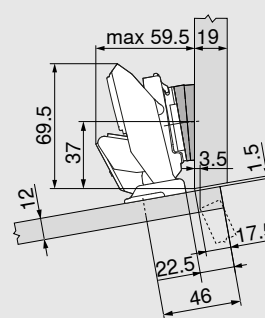
10°



Description	Space (mm)	Part no
Mounting plate	0	173H7100
Angled spacer	+5° x 2	171A5010

№ 110

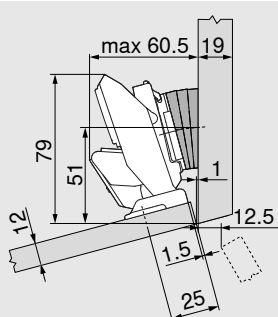
10°



Description	Space (mm)	Part no
Mounting plate	0	173H7100
Angled spacer	+5° x 2	171A5010

№ 115

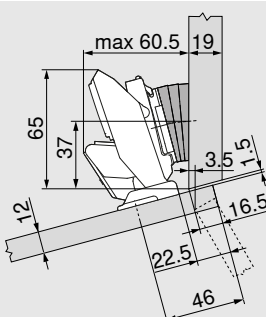
15°



Description	Space (mm)	Part no
Mounting plate	0	173H7100
Angled spacer	+5° x 3	171A5010

№ 111

15°

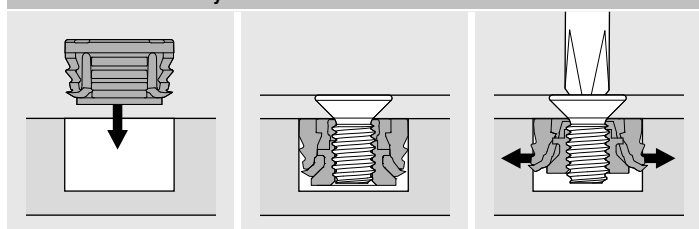


Description	Space (mm)	Part no
Mounting plate	0	173H7100
Angled spacer	+5° x 3	171A5010

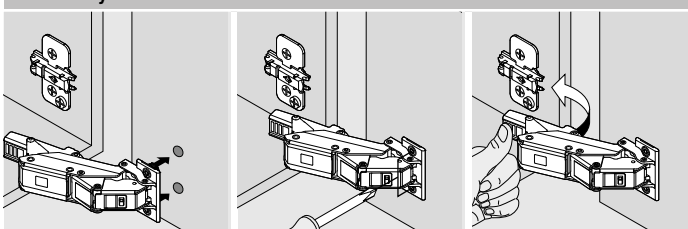
Adjustment

max. ± 3.0 mm	± 2.0 mm	+ 3.0 mm - 2.0 mm
See mounting plates		

EXPANDO T assembly



Assembly



Digital and personal services for your everyday work practices

To provide you with the best possible support for your day-to-day tasks, we think beyond just our fitting solutions and develop the right kind of services to go with these too. Many of the services are available to you around the clock online. We would also be happy to give you personalised advice on how to bring individual furniture ideas to life using the various options.





Product configurator

Make use of the complete parts lists and comprehensive planning information to help you select the right Blum fittings.

www.blum.com/productconfigurator

EASY ASSEMBLY app

Make sure you have all the important information you need for precise assembly and adjustment of Blum fittings immediately to hand, using our app for smartphones and tablets.

www.blum.com/eaapp

Personal consultation

Have questions about our products and services? We would be happy to help you here – including on a one-to-one basis.

Go to **www.blum.com/contact** to find your personal BLUM contact partner.

The company Blum

Founded over 60 years ago by Julius Blum, Blum is a family-owned company that operates on an international scale. Its strategic business segments include lift, hinge and pull-out systems. All our product developments focus on perfecting motion.

www.blum.com

 **blum**





Blum in Austria and around the world

The company has eight plants in Vorarlberg, Austria, additional production sites in Poland, the USA and Brazil and 31 subsidiaries/representative offices. Blum supplies more than 120 markets. The Blum Group employs 8,000 people in total, 6,000 of whom work in Vorarlberg.



Global customer benefits

“Whether manufacturer, distributor, fitter or kitchen user – everybody should personally enjoy the benefits of Blum products” – that is Blum’s philosophy on global customer benefits.



Innovations

To support customers with innovative fittings solutions and secure long-term success for the company, we need to consistently invest in research and development, in plants and facilities and in employee training. With more than 2,100 granted patents worldwide, Blum is one of Austria’s most innovative companies.



Quality

Blum’s comprehensive concept of quality does not only apply to products. Services and collaboration with customers and partners should also meet the same quality requirements.



Environment

At Blum, we believe that responsible ecological behaviour has long-term economic benefits. The longevity of products is just one of many important aspects. Other important measures include the use of environmentally-friendly processes, the intelligent use of materials and prudent energy management.



DYNAMIC SPACE

Good workflows, optimum use of storage space and top quality motion are important features of a practical kitchen. Blum’s ideas for practical kitchens are designed to bring function, convenience and ergonomics to furniture interiors.



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