



AVENTOS

An inspiring range
of lift systems

www.blum.com

 **blum**[®]

Freedom of movement – multitude of options

AVENTOS lift systems deliver top quality motion and ease of use to wall cabinets, thus enhancing the quality of living. Even large and heavy fronts glide up and out of the user's way, providing full freedom of movement. We are never satisfied with the status quo and that is why we are continually optimising AVENTOS for you and your customers.

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Minimalist cover cap
Impresses with a sleek look

Silk white, light grey, dark grey
Select the right colour cover cap to blend
stylishly with the furniture

Branding element
Can be customised

Award-winning design – mesmerising elegance

The AVENTOS range not only excels in terms of functionality. It also boasts a sleek and elegant design. Numerous international prizes bear testimony to its award-winning design.



Detailed information on awards at:
www.blum.com/award

Since **2005**

Ongoing continuous development: AVENTOS is continually being improved to bring more quality to furniture.



How can you make tall units and wall cabinets even more ergonomic?

With lift systems for easy access to contents. Especially in the kitchen. This is how you can design fine furniture with enhanced convenience for your customers and increase the quality of living at the same time. We carry out kitchen surveys worldwide and are continuously expanding our fittings range and improving user convenience to meet customers' needs.



Freedom of movement

The front lifts up and out of the way. It holds in any position so it can be left open while the kitchen is in use. This makes it easy to access contents at all times.



Ample storage space

Tall units and wall cabinets with lift systems come in all heights and widths to suit storage space requirements. This also enables customers to align wall cabinet gaps with those of base units.



Enhanced ease of use

Fronts open with a feather-light glide and can be equipped with a mechanical or electrical opening support system to suit customers' wishes. They close softly and effortlessly with BLUMOTION and SERVO-DRIVE with integrated soft close.



Find out more about the four motion technologies by Blum at: www.blum.com/4formore



Delivering enhanced convenience to tall and wall cabinets

Enhance functionality by equipping wall cabinets with motion technologies. Whether with or without handles, the right motion technology will make it even easier for your customers to open and close tall units and overhead cupboards.



SERVO-DRIVE
by Blum

Electrical opening and soft close

Thanks to SERVO-DRIVE, fronts open at a single touch and they close automatically at the press of a switch with BLUMOTION soft-close.



BLUMOTION
by Blum

Soft close

BLUMOTION always provides soft and effortless closing for wall cabinet fronts regardless of the weight or closing speed.



TIP-ON
by Blum

Mechanical opening

Wall cabinets open at a single touch, giving users easy access to the opening edge of fronts. To close, simply press shut.

Easy assembly in just a few steps

Virtually tool-free

AVENTOS boasts easy, virtually tool-free assembly thanks to tried and tested CLIP technology. The only tool required is a cordless screwdriver for adjusting the lift mechanism precisely to the front weight. 3-dimensional front adjustment guarantees perfect gap alignment.

SERVO-DRIVE

Easy start-up: SERVO-DRIVE for AVENTOS has few components that can be assembled with ease and adjusted with precision. The SERVO-DRIVE drive unit can be clipped onto the lift mechanism and cabled, the wireless switch installed and the system put into operation in next to no time.



Find out more about SERVO-DRIVE
for AVENTOS assembly:
www.blum.com/sdaventosassembly

80,000 x



Precision testing

Each fitting is tested extensively according to strict criteria. Testing is carried out at our own test labs as well as in conjunction with international testing organisations. An AVENTOS lift system is subjected to 80,000 opening and closing cycles in Blum's in-house laboratories – only then are we satisfied with the quality.



Long warranty

Everyone who uses Blum products and services should benefit from them. From furniture manufacturers to end users who enjoy Blum fittings year in, year out. We are fully committed to this philosophy and offer a full 5-year warranty on all electrical components used in combination with Blum products.

Reliable quality

For us, product quality is not just about design and function. Our fittings suit a wide range of applications and can be assembled and installed with utmost precision, so that you exceed your customers' expectations.

Lift systems for more freedom of movement

AVENTOS lift systems deliver top quality motion and enhanced convenience to any wall cabinet. Whether wall cabinets in kitchens or living areas, with large or small fronts, all AVENTOS lift systems open with utmost ease and close again softly and effortlessly with integrated BLUMOTION. Fronts glide up and out of the way, providing full freedom of movement.



BLUMOTION by Blum SERVO-DRIVE by Blum

AVENTOS HF –
For bi-fold lift systems

The solution for high wall cabinets with bi-fold fronts and little space needed above the cabinet.



BLUMOTION by Blum SERVO-DRIVE by Blum

AVENTOS HS –
For up & over lift systems

The ideal fitting for large, one-part fronts. There is enough space above the cabinet for cornice or crown mouldings.



BLUMOTION by Blum SERVO-DRIVE by Blum

AVENTOS HL –
For lift ups
Suitable for tall units or wall cabinets with cabinets positioned above them. AVENTOS HL can also solve tricky installation situations, e.g. integration of electrical appliances.



BLUMOTION by Blum SERVO-DRIVE by Blum TIP-ON by Blum

AVENTOS HK top –
For stay lifts

Compact, minimalist and highly functional. Small but strong, it is suitable for both small and large wall cabinets. Opening angle stop and safety mechanism are integrated.



BLUMOTION by Blum TIP-ON by Blum

AVENTOS HK-S –
For small stay lifts

The right solution for small wall cabinets with one-part fronts, e.g. above larder units or refrigerators. The compact lift system fits snugly into small cabinets.



BLUMOTION by Blum TIP-ON by Blum

AVENTOS HK-XS –
For small stay lifts
Suitable for many applications (for both tall units and wall cabinets) and needs very little space. The lift system can even be used for cabinets with a shallow internal depth.



More information
on AVENTOS HF
can be found at
www.blum.com/aventoshf



AVENTOS HF

The AVENTOS HF bi-fold lift system is the ideal solution for high and mid height wall cabinets. Even large wall cabinets can be implemented thanks to the bi-fold front. AVENTOS HF offers a vast variety of planning and design options. Be it wooden fronts, narrow or wide aluminium frames, combinations of different materials or even fronts of different heights, you will always be able to meet your customers' individual requirements.

BLUMOTION

by Blum

SERVO-DRIVE

by Blum



More design freedom.
AVENTOS HF allows you to use a combination
of materials for wall cabinet fronts.



Innovative technology with integrated safety features
such as the CLIP top centre hinge prevents fingers
getting caught.



At the heart of this fittings solution is the lift mechanism
with BLUMOTION and a durable spring package.



More information
on AVENTOS HS
can be found at
www.blum.com/aventoshs



AVENTOS HS

Even large, one-part fronts swing up and over with gravity-defying ease with AVENTOS HS. There is still enough space above the cabinet for a host of design possibilities such as beautiful cornice or crown mouldings. Like all other AVENTOS systems, the assembly of the up and over system is easy and virtually tool-free.

BLUMOTION

by Blum

SERVO-DRIVE

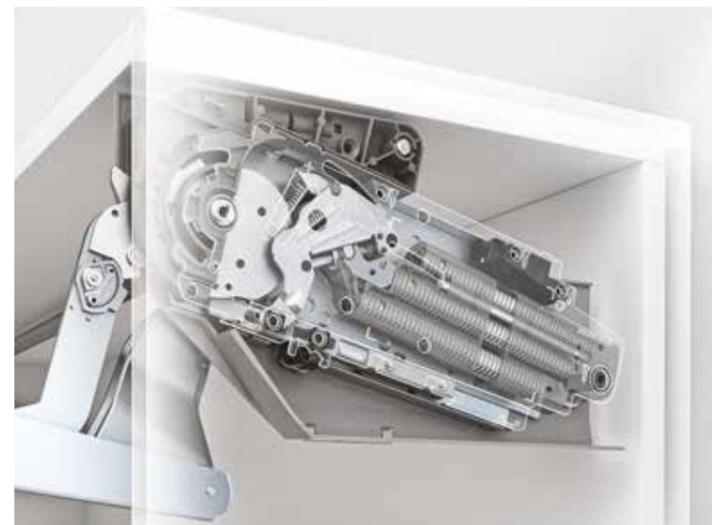
by Blum



The up & over lift system can also be implemented with EXPANDO T, the fixing system for thin fronts, and no changes need be made to the fixing position.



Tailored to your taste
AVENTOS HS also allows wall cabinets to be decorated with cornice or crown mouldings.



At the heart of this fittings solution is the lift mechanism with BLUMOTION and a durable spring package.



More information
on AVENTOS HL
can be found at
www.blum.com/aventoshl



AVENTOS HL

The perfect marriage of design and function: Wall cabinet fronts equipped with AVENTOS HL lift right up so that items are always within easy reach. The lift up system is also ideal for special installation situations such as integrating electrical appliances into tall cabinets.

BLUMOTION
by Blum

SERVO-DRIVE
by Blum



Even large fronts can be opened and closed with ease with the SERVO-DRIVE electrical motion support system.



Simply beautiful.
AVENTOS HL allows you to conceal electrical appliances behind continuous cabinet fronts.



At the heart of this fittings solution is the lift mechanism with BLUMOTION and a durable spring package.



More information on AVENTOS HK top can be found at www.blum.com/aventoshktop



AVENTOS HK top

The convenient stay lift needs little space above the cabinet. AVENTOS HK top boasts a sleek design and has a host of integrated features which make assembly and installation quick, safe and error-free. Handle-less fronts can be opened using SERVO-DRIVE or TIP-ON technology.

- BLUMOTION
- by Blum
- SERVO-DRIVE
- by Blum
- TIP-ON
- by Blum



Lift mechanism with positioning system or pre-mounted system screws? Choose between two types of assembly. The front drillings are the same regardless of application and cabinet height.



Colour signals assist you with the SERVO-DRIVE start-up.



The lift system has an integrated opening angle stop. The opening angle is infinitely variable and can be set exactly as required.



At the heart of this fittings solution is the lift mechanism with BLUMOTION and a durable spring package.



More information
on AVENTOS HK-S
can be found at
www.blum.com/aventoshks

AVENTOS HK-S

AVENTOS HK-S is the right choice for small lift systems in tall cabinets, e.g. above refrigerators. Thanks to its balanced and compact design, the fitting fits perfectly into small pieces of furniture. It allows you to make full use of the storage space available.

*Grey cover cap for HK-S not available for the Australian market.

BLUMOTION

by Blum

TIP-ON

by Blum

AVENTOS HK-S



Adjust the lift mechanism precisely to the front weight and the small stay lift will stay exactly where you want it to.



Handle-less fronts open with a single touch using TIP-ON for AVENTOS HK-S. To close, simply press shut.



At the heart of this fittings solution is the lift mechanism with BLUMOTION and a durable spring package.



More information
on AVENTOS HK-XS
can be found at
www.blum.com/aventoshkxs



AVENTOS HK-XS

AVENTOS HK-XS is the compact fitting for small stay lifts in tall units and wall cabinets. AVENTOS HK-XS provides enormous scope for design thanks to its slim construction. Cabinets close softly and effortlessly in combination with CLIP top BLUMOTION hinges.

BLUMOTION

by Blum

TIP-ON

by Blum



Be it thick wooden fronts, fronts with wide alu frames, the fixing positions remain the same. This makes it easy to use different materials and front thicknesses.

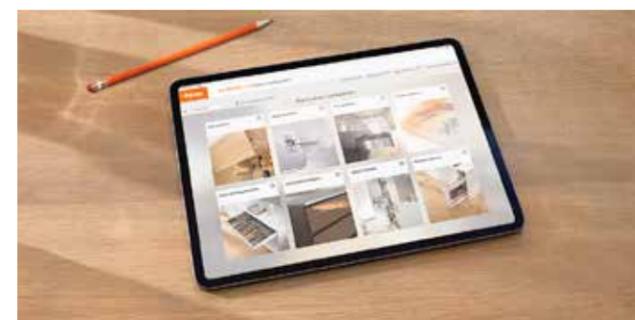


Thanks to the variable stop, fronts hold in any desired position and are always within easy reach for closing.



The lift mechanism with a durable spring package is the core element of the compact fitting. AVENTOS HK-XS excels in terms of high stability and long service life. Quality for the lifetime of the furniture.

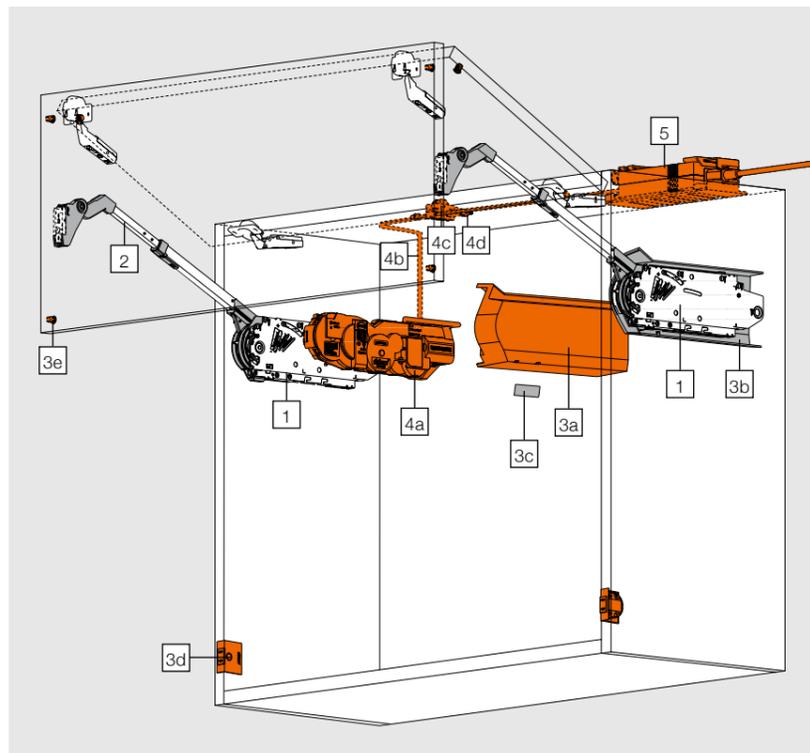
The right lift system for any application



* You use the front weight and cabinet height to calculate the power factor of the lift mechanism. We would be happy to assist you with your product selection at www.blum.com/configurator

	Motion	Typical applications	Front weight*	Possible fronts	Possible cabinet dimensions in mm	Internal minimum depth in mm	Complete fitting or with hinges	Special installation or assembly	Available motion technology	Cover cap
HF		Wall cabinet, high, bi-fold fronts		Wooden, wide/narrow alu frame fronts, wood-glass combinations, asymmetrical fronts, mitred and rebated applications	Height 480-1040 Width up to 1800	278	Hinges on cabinet top panel required + connection of fronts	CLIP assembly Cabinet top panel assembly 3 lift mechanism types (symmetrical) 4 telescopic arms (symmetrical)	 	<input type="radio"/> Silk white <input type="radio"/> Light grey <input checked="" type="radio"/> Dark grey
HS		Wall cabinet (if space), large, one-part fronts, with cornice and crown mouldings		Thin fronts, wooden, wide/narrow alu frame fronts, mitred and rebated applications	Height 350-800 Width up to 1800	276	No hinges required	CLIP assembly Cross stabilisation 9 lift mechanism types (symmetrical) 1 lever arm set	 	<input type="radio"/> Silk white <input type="radio"/> Light grey <input checked="" type="radio"/> Dark grey
HL		Wall cabinet, tall cabinet (if space) within reaching height, used to conceal appliances, cabinets can be positioned above		Thin fronts, wooden, wide/narrow alu frame fronts, mitred and rebated applications	Height 300-580 Width up to 1800	278	No hinges required	CLIP assembly Cross stabilisation 5 lift mechanism types (symmetrical) 4 lever arm sets	 	<input type="radio"/> Silk white <input type="radio"/> Light grey <input checked="" type="radio"/> Dark grey
HK top		Wall cabinet, tall cabinet, above fridge, larder unit, oven		Thin fronts, wooden, wide/narrow alu frame fronts, mitred and rebated applications	Height 205-600 Width up to 1800	187	No hinges required	CLIP assembly 4 lift mechanism types (symmetrical) Lift mechanism adjustment from the front Integrated safety mechanism and opening angle stop	 	<input type="radio"/> Silk white <input type="radio"/> Light grey <input checked="" type="radio"/> Dark grey
HK-S		Wall cabinet, tall cabinet, above fridge, larder unit, oven		Wooden, wide alu frame fronts	Height 180-600 Width up to 1800	163	No hinges required	CLIP assembly 3 lift mechanism types (symmetrical)	 	<input type="radio"/> Silk white
HK-XS		Wall cabinet, tall cabinet, above fridge, larder unit, oven, extractor, bath	 On both sides	Wooden, wide alu frame fronts	Height 240-600 Width up to 1800	125 (Special solution with 100 mm possible)	Hinges on cabinet top panel required	CLIP assembly Cabinet top panel assembly 3 lift mechanism types (symmetrical)	 	

Wooden fronts and wide alu frames symmetrical



- Ideal for high wall cabinets with two-part fronts
- Cabinet height 480–1040 mm
- Cabinet width up to 1800 mm
- Soft and effortless closing thanks to BLUMOTION
- Light operating forces
- Variable stop
- Tool-free assembly
- 3-dimensional adjustment of both fronts
- Simple, infinitely variable lift mechanism adjustment
- Centre hinge with finger safety feature

The larger front must be at the top for asymmetrical fronts.

- Standard
- SERVO-DRIVE

i Power factor (LF) = cabinet height (KH) [mm] x front weight bottom and top incl. handle [kg]

We recommend the more powerful lift mechanism for applications in overlapping ranges.

Ordering information

1	<input type="checkbox"/>	Lift mechanism set
		Power factor LF
		2600–5500 (1 pc LF 960-2650) 20F2200.05
		5350–10150 20F2500.05
		9000–17250 (3 pcs LF 13500-25900) 20F2800.05
Consisting of:		
1	2 x	Symmetrical lift mechanism
-	8 x	Chipboard screws Ø 4 x 35 mm

2	<input type="checkbox"/>	Telescopic arm set
		Cabinet height KH (mm)¹
		480–570 20F3200.01
		560–710 20F3500.01
		700–900 20F3800.01
		760–1040 20F3900.01
Consisting of:		
2	2 x	Symmetrical telescopic arm
¹ For asymmetrical fronts, theoretical cabinet height TKH = front height top FHo (mm) x 2 + gaps		

3	<input type="checkbox"/>	Cover cap set
		Colour
		HGR, SW, TGR
		Material
		Nylon
		20F8020
Consisting of:		
-	1 x	Cover cap left
3b	1 x	Cover cap right
3c	2 x	Branding element, embossed with Blum logo
		IN-G

3	<input checked="" type="checkbox"/>	Cover cap set for SERVO-DRIVE
		Colour
		HGR, SW, TGR
		Material
		Nylon
		21F8020
Consisting of:		
3a	1 x	SERVO-DRIVE cover cap left
3b	1 x	Cover cap right
3c	2 x	Branding element, embossed with Blum logo
		IN-G
3d	2 x	SERVO-DRIVE switch
3e	6 x	Blum distance bumper Ø 5 mm

Wooden fronts and wide alu frames symmetrical

Ordering information

4	<input checked="" type="checkbox"/>	SERVO-DRIVE set
		Colour
		R7037
		Material
		Nylon
		21FA000
Consisting of:		
4a	1 x	Drive unit
4b	1 x	Distribution cable, 1500 mm
4c	1 x	Connecting node
4d	2 x	Cable end protector
We recommend using two synchronised drive units for three lift mechanisms or more		
5	<input checked="" type="checkbox"/>	Blum transformer and accessories
		See page 70

Accessories

-	<input type="checkbox"/>	Opening angle stop
		Opening angle
		104°
		Colour
		TGR
		20F7051
		83°
		R7037
		20F7011

Colour

HGR	Light grey
SW	Silk white
TGR	Dark grey
R7037	RAL 7037 dust grey
IN-G	In-mould brushed stainless steel

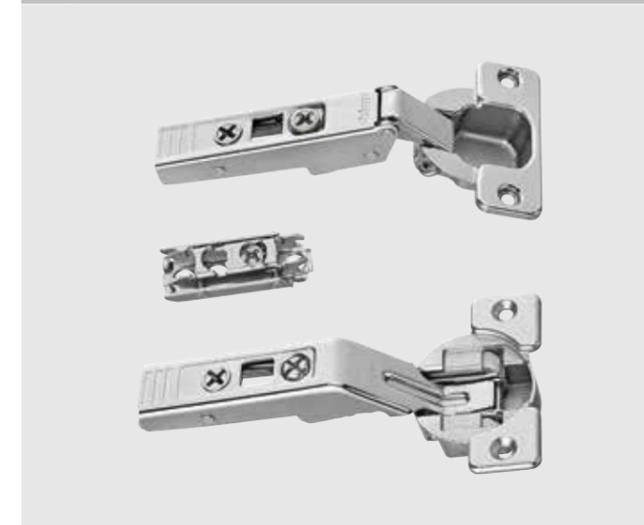
Hinge set – wooden fronts



Ordering information

Fixing method		
INSERTA Knock-in EXPANDO 78Z5530T11		
Consisting of:		
2x		CLIP top 120° hinge unsprung
		70T5590BTL
2 x		CLIP top centre hinge unsprung
		78Z5530T
6 x		Horizontal cam mounting plate
		177H3100

Hinge set – wooden fronts and wide alu frames



Ordering information

Fixing method		
Screw-on ¹ 78Z5500T12		
Consisting of:		
2x		CLIP top 120° hinge unsprung
		70T5550.TL
2 x		CLIP top centre hinge unsprung
		78Z5500T
6 x		Horizontal cam mounting plate
		175H3100

¹ Use chipboard screws (609.1x00) for wooden fronts. Use counter sunk self tapping screws (660.0950) for wide alu frames.

For wide alu frames, an additional cruciform mounting plate is required for the CLIP top centre hinge

Wooden fronts and wide alu frames symmetrical

Planning

Drilling position

SERVO-DRIVE

Cabinet height KH (mm)	H (mm)
480-549	KH x 0.3 - 28
550-1040	KH x 0.3 - 57

4 x chipboard screws Ø 4 x 35 mm

Drilling for SERVO-DRIVE distribution cable, left only

* Drilling depth 5 mm

**Alternative drilling

Space requirement

SERVO-DRIVE

Opening angle stop	Y (mm)
Unsprung	FHo x 0.44 + 38
104°	FHo x 0.24 + 34
83°	0

FHo Front height top

Front assembly

Cabinet height KH (mm)	X (mm)	
480-549	177H3100 177H3100E 177H3100E10 177H5100 175H3100 175H4100	175H5400 177H5400E
550-1040	70	68
	47	45

SFA Side front overlay

Wooden fronts and wide alu frames symmetrical

Planning

CLIP top 120° hinge

F Gap

() CLIP top 120° special hinge

Drilling distance TB

MD	Front overlay FA (mm)													
	5	6	7	8	9	10	11	12	13	14	15	16	17	
0										3	4	5	6	
3							3	4	5	6				
6				3	4	5	6							
9	3	4	5	6										

MD Mounting plate spacing (mm)

The front overlay must always be 2 mm bigger for the CLIP top 120° special hinge.

CLIP top centre hinge

F Min. gap 1.5 mm

* 37 mm for cruciform mounting plates (37/32)

Drilling distance TB

MD	Horizontal gap F between fronts (mm)							
					3	4	5	6
0					6	5	4	3
3								
6								
9								

MD Mounting plate spacing (mm)

Screw-on assembly

INSERTA | EXPANDO assembly

Wooden fronts and wide alu frames asymmetrical

Planning

Drilling position

Theoretical cabinet height TKH (mm)

TKH (mm)	H (mm)
480-549	TKH x 0.3 - 28
550-1040	TKH x 0.3 - 57

4 x chipboard screws Ø 4 x 35 mm

Drilling for SERVO-DRIVE distribution cable, left only

* Drilling depth 5 mm

**Alternative drilling

Space requirement

Opening angle stop

Opening angle stop	Y (mm)
Unsprung	FHo x 0.44 + 38
104°	FHo x 0.24 + 34
83°	0

FHo Front height top

The larger front must be at the top for asymmetrical fronts.

Front assembly

Theoretical cabinet height TKH (mm)

TKH (mm)	X (mm)	
	177H3100 177H3100E 177H3100E10 177H5100 175H3100 175H4100	175H5400 177H5400E
480-549	FHo / 2 + 70	FHo / 2 + 68
550-1040	FHo / 2 + 47	FHo / 2 + 45

FHo Front height top
FHu Front height bottom
FAu Bottom front overlay
SFA Side front overlay

Wooden fronts and wide alu frames asymmetrical

Planning

CLIP top 120° hinge

F Gap

() CLIP top 120° special hinge

Drilling distance TB

MD	Front overlay FA (mm)													
	5	6	7	8	9	10	11	12	13	14	15	16	17	
0										3	4	5	6	
3							3	4	5	6				
6				3	4	5	6							
9	3	4	5	6										

MD Mounting plate spacing (mm)

The front overlay must always be 2 mm bigger for the CLIP top 120° special hinge.

CLIP top centre hinge

F Min. gap 1.5 mm

* 37 mm for cruciform mounting plates (37/32)

Drilling distance TB

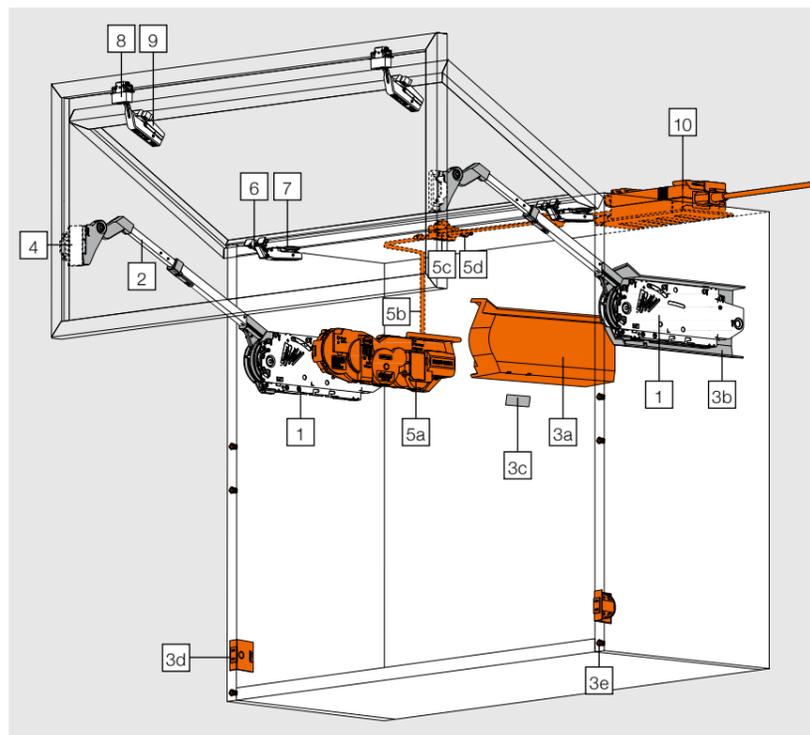
MD	Horizontal gap F between fronts (mm)						
				3	4	5	6
0				6	5	4	3
3							
6							
9							

MD Mounting plate spacing (mm)

Screw-on assembly

INSERTA | EXPANDO assembly

Narrow alu frames



- Ideal for high wall cabinets with two-part fronts
- Cabinet height 480–1040 mm
- Cabinet width up to 1800 mm
- Soft and effortless closing thanks to BLUMOTION
- Light operating forces
- Variable stop
- Tool-free assembly
- 3-dimensional adjustment of both fronts
- Simple, infinitely variable lift mechanism adjustment
- Centre hinge with finger safety feature

The larger front must be at the top for asymmetrical fronts.

- Standard
- SERVO-DRIVE

i Power factor (LF) = cabinet height (KH) [mm] x front weight bottom and top incl. handle [kg]

We recommend the more powerful lift mechanism for applications in overlapping ranges.

Ordering information

1	<input type="checkbox"/>	Lift mechanism set
		Power factor LF
		2600–5500 (1 pc LF 960-2650)
		5350–10150
		9000–17250
		20F2200.05
		20F2500.05
		20F2800.05
Consisting of:		
1	2 x	Symmetrical lift mechanism
-	8 x	Chipboard screws Ø 4 x 35 mm

3	<input type="checkbox"/>	Cover cap set
		Colour
		HGR, SW, TGR
		Material
		Nylon
		20F8020
Consisting of:		
-	1 x	Cover cap left
3b	1 x	Cover cap right
3c	2 x	Branding element, embossed with Blum logo
		IN-G

2	<input type="checkbox"/>	Telescopic arm set
		Cabinet height KH (mm)¹
		480–570
		560–710
		700–900
		760–1040
		20F3200.01
		20F3500.01
		20F3800.01
		20F3900.01
Consisting of:		
2	2 x	Symmetrical telescopic arm

¹ For asymmetrical fronts, **theoretical cabinet height TKH** = front height top FHo (mm) x 2 + gaps

3	<input checked="" type="checkbox"/>	Cover cap set for SERVO-DRIVE
		Colour
		HGR, SW, TGR
		Material
		Nylon
		21F8020
Consisting of:		
3a	1 x	SERVO-DRIVE cover cap left
3b	1 x	Cover cap right
3c	2 x	Branding element, embossed with Blum logo
		IN-G
3d	2 x	SERVO-DRIVE switch
3e	6 x	Blum distance bumper Ø 5 mm

Narrow alu frames

Ordering information

4	<input type="checkbox"/>	CLIP adapter plate set for telescopic arms
		Version
		Left/right
		Spacing (mm)
		0
		175H5B00

5	<input checked="" type="checkbox"/>	SERVO-DRIVE set
		Colour
		R7037
		Material
		Nylon
		21FA000
Consisting of:		
5a	1 x	Drive unit
5b	1 x	Distribution cable, 1500 mm
5c	1 x	Connecting node
5d	2 x	Cable end protector

6	<input type="checkbox"/>	CLIP top 120° aluminium frame door hinge
		Boss
		Screw-on
		Spring
		Unsprung
		72T550A.TL
3 hinges starting at cabinet width KB 1200 mm and/or 12 kg front weight		
4 hinges for cabinet width KB 1800 mm and/or starting at 20 kg front weight		

7	<input type="checkbox"/>	Mounting plate for CLIP top 120° hinge
		Fixing method
		Screw-on
		EXPANDO
		Knock-in
		Spacing (mm)
		0
		175H3100
		177H3100E
		177H3100
Standard mounting plates, spacing depends on the top gap		

8	<input type="checkbox"/>	CLIP top aluminium centre hinge
		Boss
		Screw-on
		Spring
		Unsprung
		78Z550AT
3 hinges starting at cabinet width KB 1200 mm and/or 12 kg front weight		
4 hinges for cabinet width KB 1800 mm and/or starting at 20 kg front weight		

9	<input type="checkbox"/>	CLIP adapter plate for centre hinges
		Version
		Symmetrical
		Spacing (mm)
		0
		175H5A00

10	<input checked="" type="checkbox"/>	Blum transformer and accessories
		See page 70

Accessories

-	<input type="checkbox"/>	Opening angle stop
		Opening angle
		104°
		83°
		Colour
		TGR
		R7037
		20F7051
		20F7011

Colour	
HGR	Light grey
SW	Silk white
TGR	Dark grey
R7037	RAL 7037 dust grey
IN-G	In-mould brushed stainless steel

Narrow alu frames symmetrical/asymmetrical

Planning

Narrow alu frames symmetrical	
Drilling position	
Cabinet height KH (mm)	H (mm)
480-549	KH x 0.3 - 28
550-1040	KH x 0.3 - 57
4 x chipboard screws Ø 4 x 35 mm	
Drilling for SERVO-DRIVE distribution cable, left only	
* Drilling depth 5 mm	
**Alternative drilling	

Space requirement	
Opening angle stop	Y (mm)
Unsprung	FHo x 0.44 + 38
104°	FHo x 0.24 + 34
83°	0
FHo Front height top	

Narrow alu frames asymmetrical	
Drilling position	
Theoretical cabinet height TKH (mm)	H (mm)
480-549	TKH x 0.3 - 28
550-1040	TKH x 0.3 - 57
4 x chipboard screws Ø 4 x 35 mm	
Drilling for SERVO-DRIVE distribution cable, left only	
* Drilling depth 5 mm	
**Alternative drilling	

Space requirement	
Opening angle stop	Y (mm)
Unsprung	FHo x 0.44 + 38
104°	FHo x 0.24 + 34
83°	0
FHo Front height top	
The larger front must be at the top for asymmetrical fronts.	

Narrow alu frames symmetrical/asymmetrical

Planning

Narrow alu frames symmetrical	
Front assembly	
Cabinet height KH (mm)	X (mm)
480-549	54
550-1040	31

Narrow alu frames asymmetrical	
Front assembly	
Theoretical cabinet height TKH (mm)	X (mm)
480-549	FHo / 2 + 54
550-1040	FHo / 2 + 31
FHo Front height top	
FHu Front height bottom	
FAU Bottom front overlay	

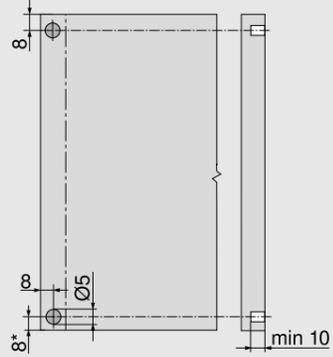
CLIP top 120° aluminium frame door hinge	

CLIP top aluminium centre hinge	
F Min. gap 1.5 mm	
The gap needs to be adjusted for frame thicknesses over 20.5 mm	

Screw-on assembly (hinge)adapter plate	
* When changing material thickness, adjust the assembly dimensions accordingly	

Planning

Blum distance bumper (SERVO-DRIVE application only)



Insert Blum distance bumper (do not glue)

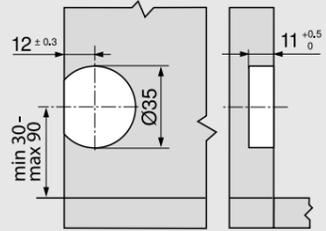
Recommendation for aluminium frames

Take into account the drilling for the Blum distance bumper in the cabinet side

A trial application must be carried out when fixing in the front

* From cabinet bottom edge for fronts that protrude below

SERVO-DRIVE switch



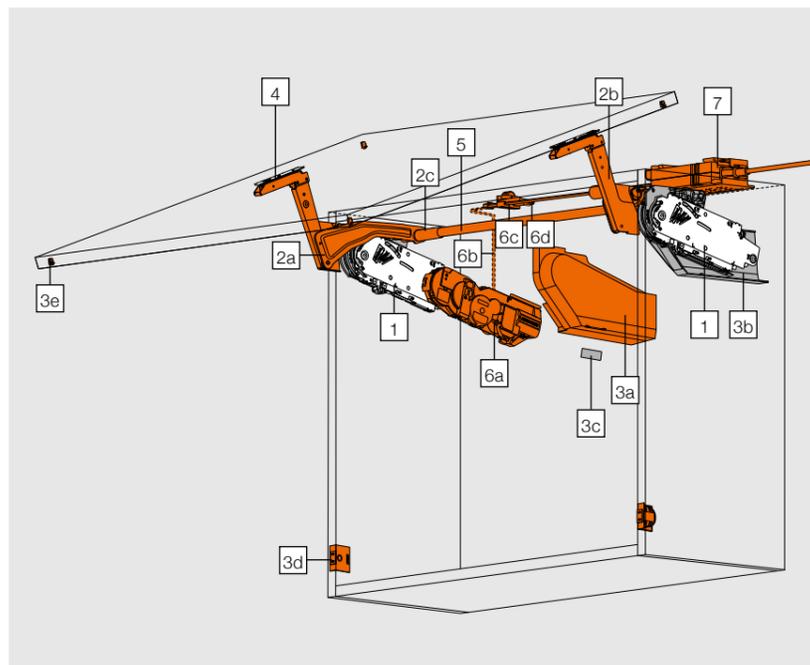
Assembly and adjustment



Information on assembly and adjustment

www.blum.com/aventos-hf-assembly

Lined area for notes, consisting of multiple horizontal lines for writing.



- Ideal for large, one-part fronts
- Cabinet height 350–800 mm
- Cabinet width up to 1800 mm
- Soft and effortless closing thanks to BLUMOTION
- Light operating forces
- Balanced, top quality motion with a variable stop
- Tool-free assembly
- 3-dimensional front adjustment
- Simple, infinitely variable lift mechanism adjustment

Standard
 SERVO-DRIVE

Ordering information

1		Lift mechanism set									
KH (mm)	Cabinet height KH 350-525 mm			KH (mm)	Cabinet height KH 526-675 mm			KH (mm)	Cabinet height KH 676-800 mm		
	20S2A00.05	20S2B00.05	20S2C00.05		20S2D00.05	20S2E00.05	20S2F00.05		20S2G00.05	20S2H00.05	20S2I00.05
	Weight of front incl. handle (kg)				Weight of front incl. handle (kg)				Weight of front incl. handle (kg)		
350	2.00-5.00	4.50-9.50	9.25-10.50	526	3.00-6.75	6.25-13.00	12.00-16.50	676	3.50-8.00	7.00-13.50	13.00-21.50
355	2.00-4.75	4.50-9.50	9.25-10.50	530	3.00-6.75	6.25-12.75	11.75-16.75	680	3.50-8.00	7.00-13.50	13.00-21.50
360	2.00-4.75	4.50-9.50	9.25-10.75	535	3.00-6.75	6.25-12.75	11.75-16.75	685	3.50-8.00	7.00-13.25	12.75-21.50
365	2.00-4.75	4.50-9.25	9.00-11.00	540	3.00-6.50	6.00-12.75	11.75-17.00	690	3.50-7.75	6.75-13.25	12.75-21.50
370	2.00-4.75	4.50-9.25	9.00-11.00	545	3.00-6.50	6.00-12.50	11.50-17.25	695	3.50-7.75	6.75-13.25	12.50-21.50
375	2.00-4.75	4.50-9.25	9.00-11.25	550	3.00-6.50	6.00-12.50	11.50-17.25	700	3.50-7.75	6.75-13.25	12.50-21.50
380	2.00-4.75	4.50-9.25	9.00-11.25	555	3.00-6.50	6.00-12.50	11.50-17.50	705	3.50-7.75	6.75-13.25	12.25-21.50
385	2.00-4.75	4.50-9.25	9.00-11.50	560	3.00-6.50	6.00-12.25	11.25-17.50	710	3.50-7.75	6.75-13.25	12.25-21.25
390	2.00-4.75	4.50-9.00	8.75-11.50	565	3.00-6.25	5.75-12.25	11.25-17.75	715	3.50-7.50	6.75-13.00	12.00-21.25
395	2.00-4.75	4.50-9.00	8.75-11.75	570	3.00-6.25	5.75-12.25	11.25-17.75	720	3.50-7.50	6.75-13.00	12.00-21.25
400	2.00-4.75	4.25-9.00	8.75-12.00	575	3.00-6.25	5.75-12.00	11.00-18.00	725	3.50-7.50	6.75-13.00	12.00-21.00
405	2.25-4.50	4.25-9.00	8.75-12.00	580	3.00-6.25	5.75-12.00	11.00-18.00	730	3.50-7.50	6.75-13.00	11.75-21.00
410	2.25-4.50	4.25-9.00	8.75-12.25	585	3.00-6.25	5.75-12.00	10.75-18.25	735	3.50-7.50	6.50-13.00	11.75-20.75
415	2.25-4.50	4.25-8.75	8.50-12.50	590	3.00-6.00	5.50-12.00	10.75-18.25	740	3.50-7.25	6.50-12.75	11.75-20.75
420	2.25-4.50	4.25-8.75	8.50-12.50	595	3.00-6.00	5.50-11.75	10.50-18.50	745	3.50-7.25	6.50-12.75	11.50-20.50
425	2.25-4.50	4.25-8.75	8.50-12.75	600	3.00-6.00	5.50-11.75	10.50-18.50	750	3.50-7.25	6.50-12.75	11.50-20.50
430	2.25-4.50	4.25-8.75	8.50-12.75	605	3.00-6.00	5.50-11.75	10.50-18.50	755	3.75-7.25	6.50-12.75	11.25-20.50
435	2.25-4.50	4.25-8.75	8.50-13.00	610	3.00-6.00	5.50-11.75	10.50-18.50	760	3.75-7.25	6.50-12.75	11.25-20.25
440	2.25-4.50	4.25-8.50	8.25-13.00	615	3.00-5.75	5.50-11.50	10.25-18.75	765	3.75-7.25	6.50-12.50	11.00-20.25
445	2.25-4.50	4.25-8.50	8.25-13.25	620	3.00-5.75	5.50-11.50	10.25-18.75	770	3.75-7.00	6.25-12.50	11.00-20.25
450	2.25-4.25	4.00-8.50	8.25-13.50	625	3.00-5.75	5.50-11.50	10.25-18.75	775	3.75-7.00	6.25-12.50	11.00-20.25
455	2.25-4.25	4.00-8.50	8.25-13.50	630	3.00-5.75	5.50-11.50	10.25-18.75	780	4.00-7.00	6.25-12.50	10.75-20.25
460	2.25-4.25	4.00-8.25	8.00-13.75	635	3.00-5.50	5.25-11.50	10.25-18.75	785	4.00-7.00	6.25-12.50	10.75-20.00
465	2.25-4.25	4.00-8.25	8.00-13.75	640	3.00-5.50	5.25-11.25	10.00-18.75	790	4.00-7.00	6.00-12.25	10.75-20.00
470	2.50-4.25	4.00-8.25	8.00-14.00	645	3.00-5.50	5.25-11.25	10.00-18.75	795	4.00-7.00	6.00-12.25	10.50-20.00
475	2.50-4.25	3.75-8.00	7.75-14.00	650	3.00-5.50	5.25-11.25	10.00-19.00	800	4.00-7.00	6.00-12.25	10.50-20.00
480	2.50-4.25	3.75-8.00	7.75-14.25	655	3.00-5.50	5.25-11.25	10.00-19.00				
485	2.50-4.25	3.75-8.00	7.75-14.25	660	3.00-5.50	5.25-11.25	10.00-19.00				
490	2.50-4.25	3.75-8.00	7.75-14.50	665	3.00-5.25	5.00-11.00	09.75-19.00				
495	2.50-4.25	3.75-7.75	7.50-14.50	670	3.00-5.25	5.00-11.00	09.75-19.00				
500	2.50-4.25	3.50-7.75	7.50-14.75	675	3.00-5.25	5.00-11.00	09.75-19.00				
505	2.50-4.00	3.50-7.75	7.50-14.75								
510	2.50-4.00	3.50-7.75	7.50-14.75								
515	2.50-4.00	3.50-7.50	7.25-14.75								
520	2.50-4.00	3.50-7.50	7.25-15.00								
525	2.50-4.00	3.25-7.50	7.25-15.00								

Example
 Cabinet height KH = 600 mm
 Weight of front = 10 kg
 Lift mechanism selection = 20S2E00.05
 Cabinet height KH = 602 mm → 600 mm
 Cabinet height KH = 603 mm → 605 mm

We recommend the more powerful lift mechanism for applications in overlapping ranges.

Consisting of:

1	2 x	Symmetrical lift mechanism
-	10 x	Chipboard screws Ø 4 x 35 mm

Ordering information

2	<input type="checkbox"/>	Lever arm set		
		Colour	Material	
		Nickel plated	Steel	20S3500.06
Consisting of:				
2a	1 x	Lever arm left		
2b	1 x	Lever arm right		
2c	2 x	Cross stabiliser cover cap		

2	<input checked="" type="checkbox"/>	Lever arm set for SERVO-DRIVE		
		Colour	Material	
		Nickel plated	Steel	21S3500.01
Consisting of:				
2a	1 x	SERVO-DRIVE lever arm left		
2b	1 x	SERVO-DRIVE lever arm right		
2c	2 x	Cross stabiliser cover cap		

3	<input type="checkbox"/>	Cover cap set		
		Colour	Material	
		HGR, SW, TGR	Nylon	20S8020
Consisting of:				
-	1 x	Cover cap left		
3b	1 x	Cover cap right		
3c	2 x	Branding element, embossed with Blum logo		
		IN-G		

3	<input checked="" type="checkbox"/>	Cover cap set for SERVO-DRIVE		
		Colour	Material	
		HGR, SW, TGR	Nylon	21S8020
Consisting of:				
3a	1 x	SERVO-DRIVE cover cap left		
3b	1 x	Cover cap right		
3c	2 x	Branding element, embossed with Blum logo		
		IN-G		
3d	2 x	SERVO-DRIVE switch		
3e	4 x	Blum distance bumper Ø 5 mm		

4	<input type="checkbox"/>	Front fixing bracket set		
		Version		
		Wooden fronts and wide alu frames		20S42E1
		Narrow alu frames		20S4200A

Use 4 counter sunk self tapping screws (660.0950) per side for wide alu frames.

4	<input type="checkbox"/>	Front fixing bracket		
		Version		
		Thin fronts		20S42T1

EXPANDO T suitable for thin fronts – see page 68

5	<input type="checkbox"/>	Round cross stabiliser rod		
		Diameter (mm)	Length (mm)	
		Ø 16	1061	20Q1061UN
For cutting to size				
Cutting	<input type="checkbox"/>	Internal cabinet width LW - 129 mm		
	<input checked="" type="checkbox"/>	Internal cabinet width LW - 164 mm		

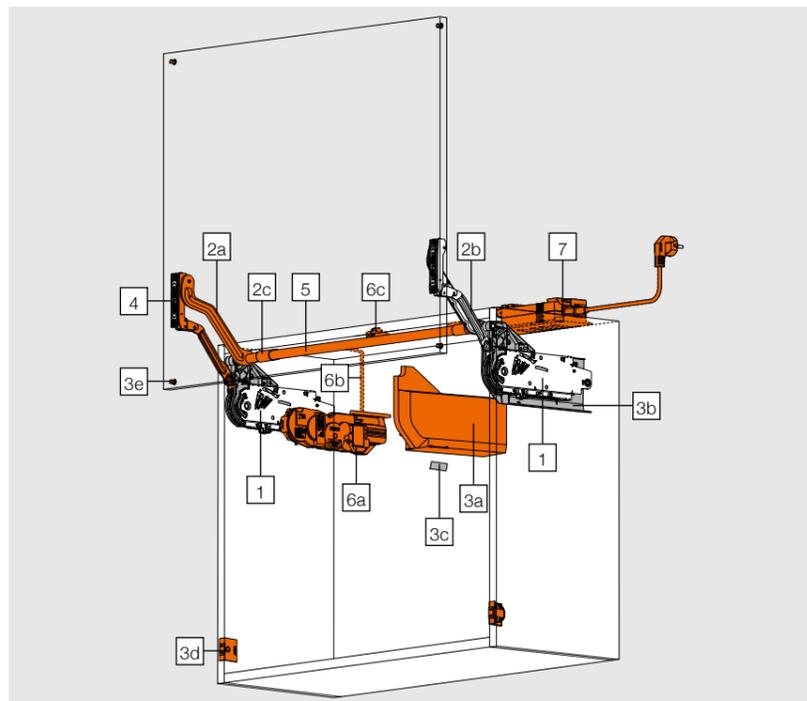
-	<input type="checkbox"/>	Connecting piece set for cross stabiliser		
		From internal cabinet width LW 1190 mm		
		Diameter (mm)	Material	
		Ø 16	Aluminium	20Q153ZN
Consisting of:				
-	1 x	Connecting piece		
-	1 x	Fixing		
-	2 x	Cross stabiliser cover cap		
Cutting for 5	<input type="checkbox"/>	Internal cabinet width LW / 2 - 147 mm		
	<input checked="" type="checkbox"/>	Internal cabinet width LW / 2 - 165 mm		

6	<input checked="" type="checkbox"/>	SERVO-DRIVE set		
		Colour	Material	
		R7037	Nylon	21FA000
Consisting of:				
6a	1 x	Drive unit		
6b	1 x	Distribution cable, 1500 mm		
6c	1 x	Connecting node		
6d	2 x	Cable end protector		

We recommend one SERVO-DRIVE drive unit per set for connected fronts.

7	<input checked="" type="checkbox"/>	Blum transformer and accessories		
		See page 70		

Colour	
HGR	Light grey
SW	Silk white
TGR	Dark grey
R7037	RAL 7037 dust grey
IN-G	In-mould brushed stainless steel



- Ideal for small, one-part fronts
- Cabinet height 300–580 mm
- Cabinet width up to 1800 mm
- Soft and effortless closing thanks to BLUMOTION
- Light operating forces
- Balanced, top quality motion with a variable stop
- Tool-free assembly
- 3-dimensional front adjustment
- Simple, infinitely variable lift mechanism adjustment

Standard
 SERVO-DRIVE

Ordering information

1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Lift mechanism set				
	Cabinet height KH (mm)		300–349	350–399	400–550	450–580	
	Lever arm set						
	<input type="checkbox"/>		20L3200.06	20L3500.06	20L3800.06	20L3900.06	
	<input checked="" type="checkbox"/>		21L3200.01	21L3500.01	21L3800.01	21L3900.01	
Weight of front incl. handle (kg)			1.25–4.25	1.25–2.50		20L2100.05	
			3.50–7.25	1.75–5.00	1.75–3.50	20L2300.05	
			6.50–12.00	4.25–9.00	2.75–6.75	2.00–5.25	20L2500.05
			11.00–20.00	8.00–14.75	5.75–11.75	4.25–9.25	20L2700.05
			13.50–20.00	10.50–20.00	8.25–16.50	20L2900.05	

We recommend the more powerful lift mechanism for applications in overlapping ranges.

Consisting of:

1	2 x	Symmetrical lift mechanism
-	10 x	Chipboard screws Ø 4 x 35 mm

2	<input type="checkbox"/>	Lever arm set	
	Cabinet height KH (mm)		
	300–349	20L3200.06	
	350–399	20L3500.06	
	400–550	20L3800.06	
		450–580	20L3900.06
Consisting of:			
-	1 x	Lever arm left	
2b	1 x	Lever arm right	
2c	2 x	Oval cross stabiliser cover cap	

2	<input checked="" type="checkbox"/>	Lever arm set for SERVO-DRIVE	
	Cabinet height KH (mm)		
	300–349	21L3200.01	
	350–399	21L3500.01	
	400–550	21L3800.01	
		450–580	21L3900.01
Consisting of:			
2a	1 x	SERVO-DRIVE lever arm left	
2b	1 x	Lever arm right	
2c	2 x	Oval cross stabiliser cover cap	

Ordering information

3	<input type="checkbox"/>	Cover cap set	
	Colour		
	HGR, SW, TGR	Nylon	20L8020
Consisting of:			
-	1 x	Cover cap left	
3b	1 x	Cover cap right	
3c	2 x	Branding element, embossed with Blum logo	
		IN-G	

3	<input checked="" type="checkbox"/>	Cover cap set for SERVO-DRIVE	
	Colour		
	HGR, SW, TGR	Nylon	21L8020
Consisting of:			
3a	1 x	SERVO-DRIVE cover cap left	
3b	1 x	Cover cap right	
3c	2 x	Branding element, embossed with Blum logo	
		IN-G	
3d	2 x	SERVO-DRIVE switch	
3e	4 x	Blum distance bumper Ø 5 mm	

4	<input type="checkbox"/>	Front fixing bracket set	
	Version		
	Wooden fronts and wide alu frames	20S42E1	
		Narrow alu frames	20S4200A
Use 4 counter sunk self tapping screws (660.0950) per side for wide alu frames.			

4	<input type="checkbox"/>	Front fixing bracket	
	Version		
	Thin fronts	20S42T1	
EXPANDO T suitable for thin fronts – see page 68			

5	<input type="checkbox"/>	Oval cross stabiliser rod	
	Version		
	Oval	1061	20Q1061UA
For cutting to size			
Cutting			
	<input type="checkbox"/>	Internal cabinet width LW - 129 mm	
	<input checked="" type="checkbox"/>	Internal cabinet width LW - 164 mm	

-	<input type="checkbox"/>	Connecting piece set for cross stabiliser	
	From internal cabinet width LW 1190 mm		
	Diameter (mm)	Material	20Q153ZA
		Ø 16	Aluminium

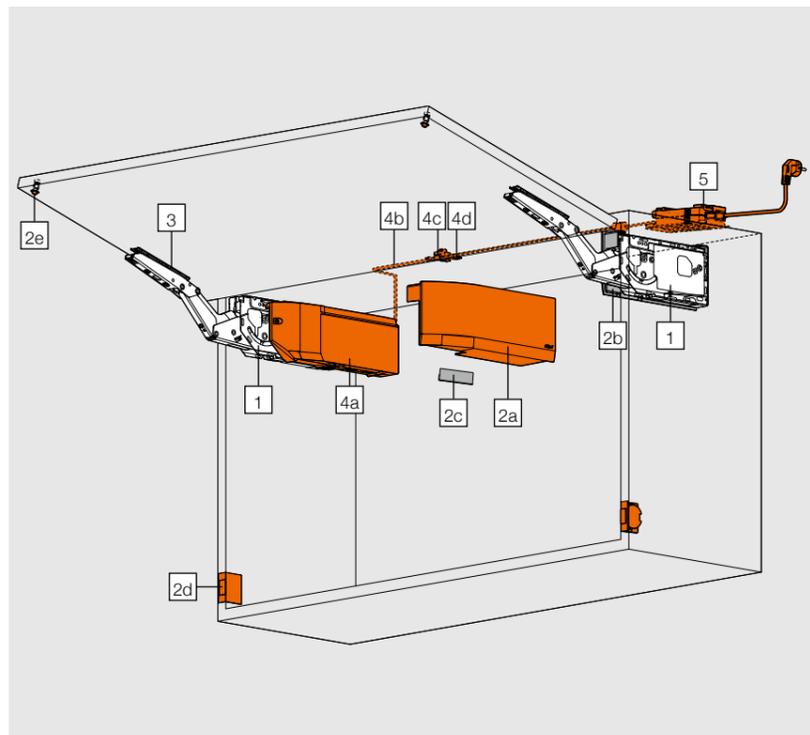
Consisting of:			
-	1 x	Connecting piece	
-	1 x	Fixing	
-	2 x	Cross stabiliser cover cap	
Cutting for 5			
	<input type="checkbox"/>	Internal cabinet width LW / 2 - 147 mm	
	<input checked="" type="checkbox"/>	Internal cabinet width LW / 2 - 165 mm	

6	<input checked="" type="checkbox"/>	SERVO-DRIVE set	
	Colour		
	R7037	Nylon	21FA000
Consisting of:			
6a	1 x	Drive unit	
6b	1 x	Distribution cable, 1500 mm	
6c	1 x	Connecting node	
-	2 x	Cable end protector	

We recommend one SERVO-DRIVE drive unit per set for connected fronts.

7	<input checked="" type="checkbox"/>	Blum transformer and accessories
		See page 70

Colour	
HGR	Light grey
SW	Silk white
TGR	Dark grey
R7037	RAL 7037 dust grey
IN-G	In-mould brushed stainless steel



- Ideal for low cabinet heights in wall cabinets, in tall units and over the refrigerator
- Cabinet height 205–600 mm
- Cabinet width up to 1800 mm
- Soft and effortless closing thanks to BLUMOTION
- Light operating forces
- Balanced, top quality motion with a variable stop
- Tool-free assembly
- 3-dimensional front adjustment
- Simple, infinitely variable lift mechanism adjustment
- No hinges required
- Integrated safety mechanism
- Integrated infinitely variable opening angle stop

- Standard
- SERVO-DRIVE



Power factor (LF) = cabinet height (KH) [mm] x front weight incl. double handle weight [kg]

We recommend the more powerful lift mechanism for applications in overlapping ranges.

Ordering information

1	<input type="checkbox"/>	Lift mechanism set															
		Fixing with pre-mounted system screws															
		<table border="1"> <thead> <tr> <th>LF</th> <th>OW</th> <th></th> </tr> </thead> <tbody> <tr> <td>420–1610</td> <td>107°</td> <td>22K2310</td> </tr> <tr> <td>930–2800</td> <td>107°</td> <td>22K2510</td> </tr> <tr> <td>1730–5200</td> <td>107°</td> <td>22K2710</td> </tr> <tr> <td>3200–9000</td> <td>107°</td> <td>22K2910</td> </tr> </tbody> </table>	LF	OW		420–1610	107°	22K2310	930–2800	107°	22K2510	1730–5200	107°	22K2710	3200–9000	107°	22K2910
LF	OW																
420–1610	107°	22K2310															
930–2800	107°	22K2510															
1730–5200	107°	22K2710															
3200–9000	107°	22K2910															

1	<input type="checkbox"/>	Lift mechanism set															
		Fixing with chipboard screws with positioning system															
		<table border="1"> <thead> <tr> <th>LF</th> <th>OW</th> <th></th> </tr> </thead> <tbody> <tr> <td>420–1610</td> <td>107°</td> <td>22K2300</td> </tr> <tr> <td>930–2800</td> <td>107°</td> <td>22K2500</td> </tr> <tr> <td>1730–5200</td> <td>107°</td> <td>22K2700</td> </tr> <tr> <td>3200–9000</td> <td>107°</td> <td>22K2900</td> </tr> </tbody> </table>	LF	OW		420–1610	107°	22K2300	930–2800	107°	22K2500	1730–5200	107°	22K2700	3200–9000	107°	22K2900
LF	OW																
420–1610	107°	22K2300															
930–2800	107°	22K2500															
1730–5200	107°	22K2700															
3200–9000	107°	22K2900															

Consisting of:

1	2 x	Symmetrical lift mechanism with pre-mounted system screws
---	-----	---

Consisting of:

1	2 x	Symmetrical lift mechanism
-	-	Incl. positioning system
-	8 x	Chipboard screws Ø 4 x 35 mm

LF Power factor
OW Opening angle (infinitely variable adjustment)

Note
Max. front weight 18 kg if using two lift mechanisms.
The power factor (LF) can be increased by 50% if you use a third lift mechanism. We recommend a third lift mechanism for wide cabinets. This will prevent the front from sagging when open.

Ordering information

2	<input type="checkbox"/>	Cover cap set						
		<table border="1"> <thead> <tr> <th>Colour</th> <th>Material</th> <th></th> </tr> </thead> <tbody> <tr> <td>HGR, SW, TGR</td> <td>Nylon</td> <td>22K8000</td> </tr> </tbody> </table>	Colour	Material		HGR, SW, TGR	Nylon	22K8000
Colour	Material							
HGR, SW, TGR	Nylon	22K8000						

Consisting of:

-	1 x	Cover cap left
2b	1 x	Cover cap right
2c	2 x	Branding element, embossed with Blum logo IN-G

2	<input checked="" type="checkbox"/>	Cover cap set for SERVO-DRIVE						
		<table border="1"> <thead> <tr> <th>Colour</th> <th>Material</th> <th></th> </tr> </thead> <tbody> <tr> <td>HGR, SW, TGR</td> <td>Nylon</td> <td>23K8000</td> </tr> </tbody> </table>	Colour	Material		HGR, SW, TGR	Nylon	23K8000
Colour	Material							
HGR, SW, TGR	Nylon	23K8000						

Consisting of:

2a	1 x	SERVO-DRIVE cover cap left
2b	1 x	Cover cap right
2c	2 x	Branding element, embossed with Blum logo IN-G
2d	2 x	SERVO-DRIVE switch
2e	2 x	Blum distance bumper Ø 5 mm

3	<input type="checkbox"/>	Front fixing bracket set						
		<table border="1"> <thead> <tr> <th>Version</th> <th></th> </tr> </thead> <tbody> <tr> <td>Wooden fronts and wide alu frames</td> <td>20S42E1</td> </tr> <tr> <td>Narrow alu frames</td> <td>20S4200A</td> </tr> </tbody> </table>	Version		Wooden fronts and wide alu frames	20S42E1	Narrow alu frames	20S4200A
Version								
Wooden fronts and wide alu frames	20S42E1							
Narrow alu frames	20S4200A							

Use 4 counter sunk self tapping screws (660.0950) per side for wide alu frames.

3	<input type="checkbox"/>	Front fixing bracket				
		<table border="1"> <thead> <tr> <th>Version</th> <th></th> </tr> </thead> <tbody> <tr> <td>Thin fronts</td> <td>20S42T1</td> </tr> </tbody> </table>	Version		Thin fronts	20S42T1
Version						
Thin fronts	20S42T1					

EXPANDO T suitable for thin fronts – see page 68

4	<input checked="" type="checkbox"/>	SERVO-DRIVE set						
		<table border="1"> <thead> <tr> <th>Colour</th> <th>Material</th> <th></th> </tr> </thead> <tbody> <tr> <td>R7037</td> <td>Nylon</td> <td>23KA000</td> </tr> </tbody> </table>	Colour	Material		R7037	Nylon	23KA000
Colour	Material							
R7037	Nylon	23KA000						

Consisting of:

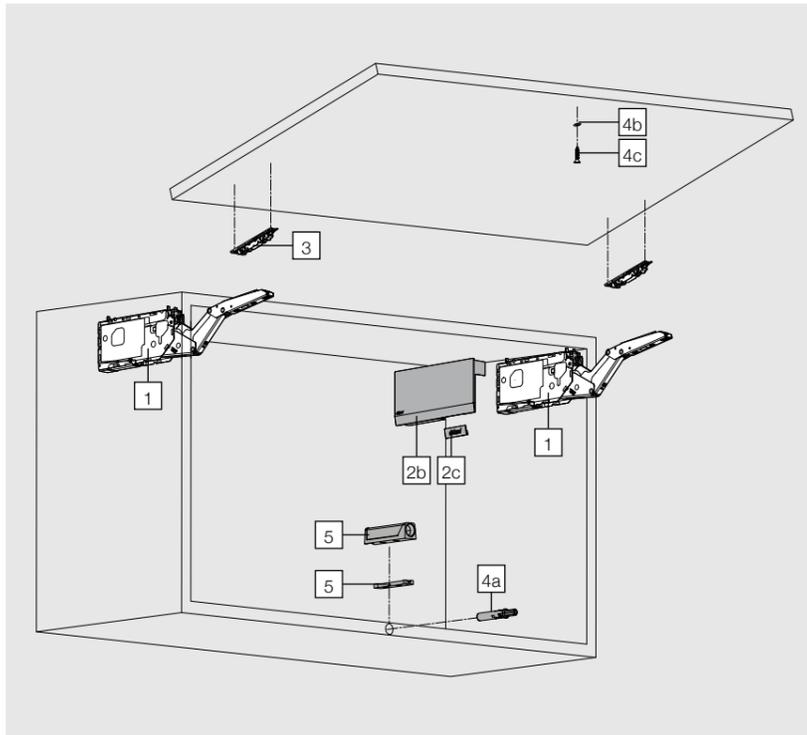
4a	1 x	Drive unit
4b	1 x	Distribution cable, 1500 mm
4c	1 x	Connecting node
4d	2 x	Cable end protector

We recommend using two synchronised drive units for three lift mechanisms or more

5	<input checked="" type="checkbox"/>	Blum transformer and accessories
		See page 70

Colour

HGR	Light grey
SW	Silk white
TGR	Dark grey
R7037	RAL 7037 dust grey
IN-G	In-mould brushed stainless steel



- TIP-ON for handle-less stay lifts
- Cabinet height 205-600 mm
- Cabinet width up to 1800 mm
- For drilling or in combination with adapter plates

■ TIP-ON

i Power factor (LF) = cabinet height (KH) [mm] x front weight incl. double handle weight [kg]

We recommend the more powerful lift mechanism for applications in overlapping ranges.

Ordering information

1 ■ Lift mechanism set for TIP-ON			
Fixing with chipboard screws with positioning system			
LF	OW		
420-1610	107°		22K2300T
930-2800	107°		22K2500T
1730-5200	100°		22K2700T
3200-9000	100°		22K2900T

Consisting of:		
1	2 x	Symmetrical lift mechanism
-	-	Incl. positioning system
-	8 x	Chipboard screws Ø 4 x 35 mm

LF Power factor

OW Opening angle (infinitely variable adjustment)

Note

Max. front weight 18 kg if using two lift mechanisms.

The power factor (LF) can be increased by 50% if you use a third lift mechanism. We recommend a third lift mechanism for wide cabinets. This will prevent the front from sagging when open.

Ordering information

2 ■ Cover cap set			
Colour		Material	
HGR, SW, TGR		Nylon	22K8000

Consisting of:		
-	1 x	Cover cap left
2b	1 x	Cover cap right
2c	2 x	Branding element, embossed with Blum logo IN-G

3 ■ Front fixing bracket set		
Version		
Wooden fronts and wide alu frames		20S42E1
Narrow alu frames		20S4200A

Use 4 counter sunk self tapping screws (660.0950) per side for wide alu frames.

3 ■ Front fixing bracket		
Version		
Thin fronts		20S42T1

EXPANDO T suitable for thin fronts – see page 68

4 ■ TIP-ON set			
Version		Cabinet height KH (mm)	
Short version		Up to 500	956.1004
Long version		Starting at 501	956A1004

Colour		
SW, TS		

Consisting of:		
4a	1 x	TIP-ON
4b	1 x	Screw-on catch plate
4c	1 x	Chipboard screw 609.1500
-	1 x	Glue-on catch plate

Accessories

5 ■ Adapter plate			
Version		Colour	
Straight adapter plate Short version		SW, TS	956.1201
Straight adaptor plate Long version		SW, TS	956A1201

Colour		
HGR	Light grey	
SW	Silk white	
TGR	Dark grey	
TS	Terra black	
IN-G	In-mould brushed stainless steel	

Planning

Drilling position

System screws

* Drilling depth 11.5 mm

Chipboard screws

4 x chipboard screws Ø 4 x 35 mm

Space requirement

* Min. 261 mm with visible wall hanging bracket
Note: Cabinet height max. 600 mm
LH Internal cabinet height

Front assembly

Wooden fronts and wide alu frames

Narrow alu frames

FAo Max. 25.4 mm
FAo Upper front overlay
SOB Top panel thickness
SFA Side front overlay
F Gap

Further planning information for TIP-ON – see page 66

Planning

Narrow alu frames

For frame width 19 mm, an SFA of 11-18 mm is possible.
* When changing material thickness, adjust the assembly dimensions accordingly
SFA Side front overlay

Space requirement – Cornice/Crown moulding

Space requirement (mm)
At max. opening angle
 $Y = FH \times 0.29 + FD - SOB$

FD (mm)	16	19	22	26	28
X (mm)	68	57	47	33	27

SOB Top panel thickness
FD Front thickness
FH Front height

Minimum gap

Minimum gap MF is 2 mm

Blum distance bumper (SERVO-DRIVE application only)

Insert Blum distance bumper (do not glue)
Do not use bumpers in the upper third

Recommendation for aluminium frames
Take into account the drilling for the Blum distance bumper in the cabinet side
A trial application must be carried out when fixing in the front
* From cabinet bottom edge for fronts that protrude below

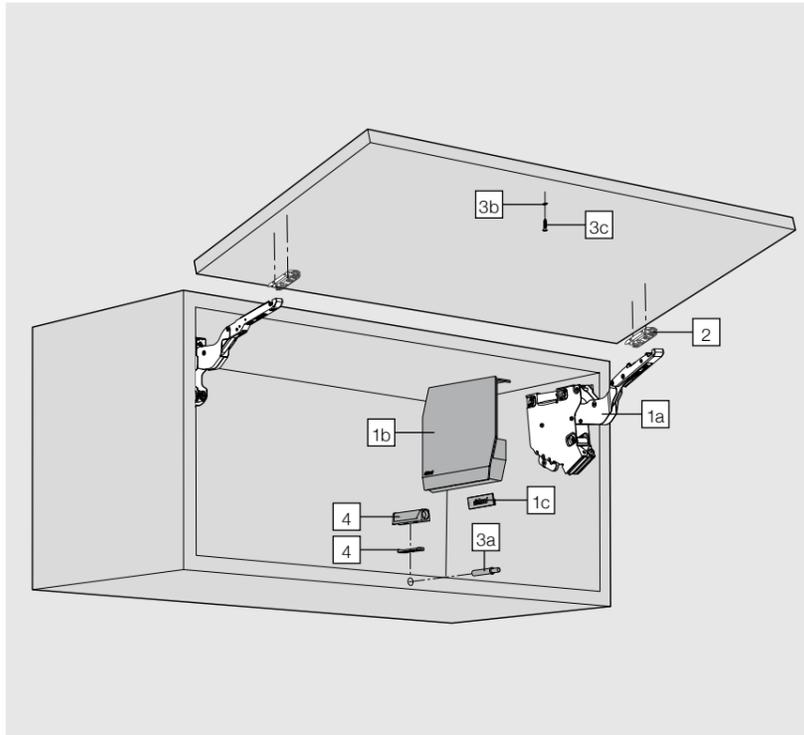
SERVO-DRIVE switch

Assembly and adjustment



Information on assembly and adjustment

www.blum.com/hktopassembly



- Ideal for low cabinet heights in wall cabinets, in tall units and over the refrigerator
- Cabinet height max. 600 mm
- Soft and effortless closing thanks to BLUMOTION
- Light operating forces
- Balanced, top quality motion with a variable stop
- Tool-free assembly
- 3-dimensional front adjustment
- Simple, infinitely variable lift mechanism adjustment
- No hinges required
- TIP-ON for handle-less stay lifts

☐ Standard
 ■ TIP-ON



Power factor (LF) = cabinet height (KH) [mm] x front weight incl. double handle weight [kg]

We recommend the more powerful lift mechanism for applications in overlapping ranges.

Ordering information

1	☐	Lift mechanism set		
		LF	OW	
		220-500	107°	20K2B00.06
		400-1000	107°	20K2C00.06
		960-2215	107°	20K2E00.06
Consisting of:				
1a	2 x	Symmetrical lift mechanism		
1b	2 x	Cover caps left/right SW		
1c	2 x	Branding element, embossed with Blum logo IN-G		
-	6 x	Chipboard screw Ø 4 x 35 mm		

1	■	Lift mechanism set for TIP-ON		
		LF	OW	
		220-500	107°	20K2B00T06
		400-1000	107°	20K2C00T06
		960-2215	107°	20K2E00T06
Consisting of:				
1a	2 x	Symmetrical lift mechanism		
1b	2 x	Cover caps left/right SW		
1c	2 x	Branding element, embossed with Blum logo IN-G		
-	6 x	Chipboard screw Ø 4 x 35 mm		

LF Power factor

OW Opening angle (infinitely variable adjustment)

Note

The power factor (LF) can be increased by 50% if you use a third lift mechanism.

¹ One lift mechanism is unsprung

Ordering information

2	☐	Front fixing bracket		
		Fixing method	Spacing (mm)	
		Screw-on	0	175H3100
		EXPANDO	0	177H3100E
		Knock-in	0	177H3100

Wooden fronts and wide alu frames 2 x

All horizontal steel mounting plates with 0 mm spacing possible

² Use 2 chipboard screws (609.1x00) for wooden fronts.
 Use 2 countersunk self tapping screws (660.0950) for wide alu frames.

3	■	TIP-ON set		
		Version	Cabinet height KH (mm)	
		Short version	Up to 600	956.1004
	Colour			
		SW, TS		

Consisting of:

3a	1 x	TIP-ON
3b	1 x	Screw-on catch plate
3c	1 x	Chipboard screw 609.1500
-	1 x	Glue-on catch plate

Accessories

-	☐	Opening angle stop		
		Opening angle	Colour	
		100°	TGR	20K7A41
		75°	R7037	20K7A11

4	■	Adapter plate		
		Version	Colour	
		Straight adapter plate Short version	SW, TS	956.1201

Colour	
SW	Silk white
TGR	Dark grey
TS	Terra black
R7037	RAL 7037 dust grey
NI-L	Nickel-lacquered
IN-G	In-mould brushed stainless steel

Planning

Peg position

SOB Top panel thickness

Fixing position

3 x chipboard screws Ø 4 x 35 mm

Space requirement

* Min. 240 mm with visible wall hanging bracket
 Note: Cabinet height max. 600 mm
 LH Internal cabinet height

Front assembly

Wooden fronts and wide alu frames

SOB Top panel thickness
 SFA Side front overlay
 F Gap

Further planning information for TIP-ON – see page 66

Planning

Space requirement – Cornice/Crown moulding

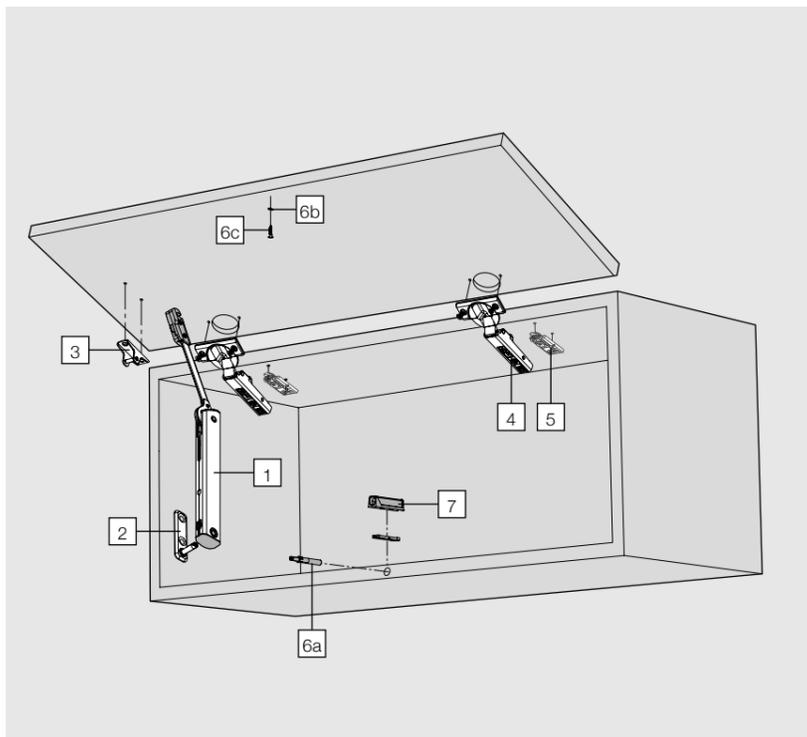
Opening angle stop		Space requirement (mm)			
Unsprung		$Y = FH \times 0.29 - 15 + FD$			
100°		$Y = FH \times 0.17 - 15 + FD$			
75°		$A = FH \times 0.26 + 15 - FD$			
FD (mm)	16	19	22	26	-
X (mm)	70	59	49	35	-
FD Front thickness					
FH Front height					

Minimum gap

Minimum gap MF is 2 mm

Assembly and adjustment

Information on assembly and adjustment
www.blum.com/aventos-hks-assembly



- Ideal for low cabinet heights in wall cabinets, in tall cabinets and over the refrigerator
- Cabinet height 240–600 mm
- Internal cabinet depth min. 125 mm
- An internal cabinet depth of 100 mm or more is possible if you use a special drilling position.
- Closes softly and effortlessly in conjunction with CLIP top BLUMOTION hinges
- TIP-ON for handle-less stay lifts with CLIP top unsprung hinges
- Light operating forces
- Balanced, top quality motion with a variable stop
- Simple, infinitely variable lift mechanism adjustment

☐ Standard
 ■ TIP-ON

i Power factor (LF) = cabinet height (KH) [mm] x front weight incl. double handle weight [kg]

A trial application is recommended where power factor ranges overlap.

Ordering information

1	☐	Lift mechanism		
		LF	OW	
		200–1000	105°	20K1101
		500–1500	105° ¹	20K1301
800–1800	105°	20K1501		

1	■	Lift mechanism for TIP-ON		
		LF	OW	
		180–800	105°	20K1101T
		500–1200	105° ¹	20K1301T
800–1600	105°	20K1501T		

LF Power factor
 OW Opening angle (infinitely variable adjustment)

Note
 The power factor LF is doubled when used on both sides

¹ Hinges with smaller opening angles limit the opening angle

2	☐	Cabinet fixing	
		Fixing method	
		Screw-on	20K5101
EXPANDO	20K51E1		

3	☐	Front fixing bracket	
		Version	Fixing method
		Wooden fronts and wide alu frames	Screw-on
Wooden fronts	EXPANDO ²	20K41E1	

Ordering information

4	☐	CLIP top BLUMOTION 110° hinge		
		Boss	Spring	
		INSERTA	With spring	71B3590
Screw-on	² With spring	71B3550		

3 hinges starting at cabinet width KB 900 mm and/or power factor LF 1800

4 hinges with cabinet width KB 1200 mm and/or starting at power factor LF 2700

Alternative

CLIP top BLUMOTION hinges: profile/thick door

4	■	CLIP top 120° unsprung hinges for TIP-ON		
		Boss	Spring	
		INSERTA	Unsprung	70T5590BTL
Screw-on	² Unsprung	70T5550.TL		

3 hinges starting at cabinet width KB 900 mm and/or power factor LF 1800

4 hinges with cabinet width KB 1200 mm and/or starting at power factor LF 2700

Alternative

CLIP top hinges: profile/thick door, 95°

5	☐	Mounting plate		
		Fixing method	Spacing (mm)	
		Screw-on ²	0	175H3100
EXPANDO	0	177H3100E		

Standard mounting plates, spacing depends on the top gap

² Use 2 chipboard screws (609.1x00) per side for wooden fronts. Use 2 counter sunk self tapping screws (660.0950) per side for wide alu frames.

6	■	TIP-ON set		
		Version	Cabinet height KH (mm)	
		Short version	Up to 600	956.1004
Colour		SW, TS		

Consisting of:

6a	1 x	TIP-ON
6b	1 x	Screw-on catch plate
6c	1 x	Chipboard screw 609.1500
-	1 x	Glue-on catch plate

Accessories

7	■	Adapter plate		
		Version	Colour	
		Straight adapter plate Short version	SW, TS	956.1201

-	☐	Opening angle stop		
		Opening angle	Colour	
		86°	TGR	70T3553
For CLIP top BLUMOTION 110°				

Colour	
SW	Silk white
TGR	Dark grey
TS	Terra black
NI-L	Nickel-lacquered

Planning

Drilling position

$H = 137 + D + K + SOB$

- D Mounting plate spacing
- K Cranking of the hinge arm
- Horizontal hinge arm 0 mm
- Cranked hinge arm 9.5 mm
- Double cranked hinge arm 18 mm
- SOB Top panel thickness
- () Internal cabinet depth 100 mm

Space requirement

CLIP top BLUMOTION 110° hinge

$$Y = (FH - X) \times 0.3$$

FD (mm)	16	19	22	24
X (mm)	45	34	23	15

- LH Internal cabinet height
- * Min. 200 mm with visible wall hanging bracket
- () Internal cabinet depth 100 mm
- FD Front thickness
- FH Front height

Planning

Front assembly

Wooden fronts and wide alu frames

- FAo Upper front overlay
- SFA Side front overlay
- D Mounting plate spacing
- K Cranking of the hinge arm
- Horizontal hinge arm 0 mm
- Cranked hinge arm 9.5 mm
- Double cranked hinge arm 18 mm
- () Internal cabinet depth 100 mm

Space requirement – Cornice|Crown moulding

CLIP top BLUMOTION 110° hinge

FD (mm)	16	19	22	24
X (mm)	45	34	23	15

- FD Front thickness

Planning

Minimum gap

MFo Minimum gap at the top depending on the hinge used

MFu Minimum gap at the bottom 1.5 mm

Overlay application

F Gap
FA Front overlay
TB Drilling distance

Drilling distance TB

MD	Front overlay FA (mm)																	
	5	6	7	8	9	10	11	12	13	14	15	16	17	18				
0										3	4	5	6	7				
3							3	4	5	6	7							
6			3	4	5	6	7											
9	3	4	5	6	7													

MD Mounting plate spacing (mm)

Further planning information for TIP-ON – see page 66

Planning

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

Drilling distance TB (mm)	Front thickness FD (mm)												
	16	18	19	20	21	22	23	24	25	26	28	30	
3	0.5	0.8	1.0	1.2	1.5	1.8	2.2	2.7	3.5	4.3	□	□	
4	0.5	0.8	1.0	1.2	1.4	1.7	2.0	2.5	3.1	3.8	□	□	
5	0.5	0.8	0.9	1.2	1.4	1.7	2.0	2.4	2.9	3.4	□	□	
6	0.5	0.8	0.9	1.2	1.3	1.6	1.9	2.3	2.7	3.2	□	□	
7	0.5	0.8	0.9	1.1	1.3	1.6	1.9	2.2	2.6	3.0	□	□	

For +2 mm height adjustment, add:

+0.2	+0.4	+0.4	+0.5	+0.5	+0.5	+0.5	+0.5	+0.5	+0.5	+0.5		
------	------	------	------	------	------	------	------	------	------	------	--	--

□ A trial application is recommended

Screw-on assembly

INSERTA | Knock-in assembly

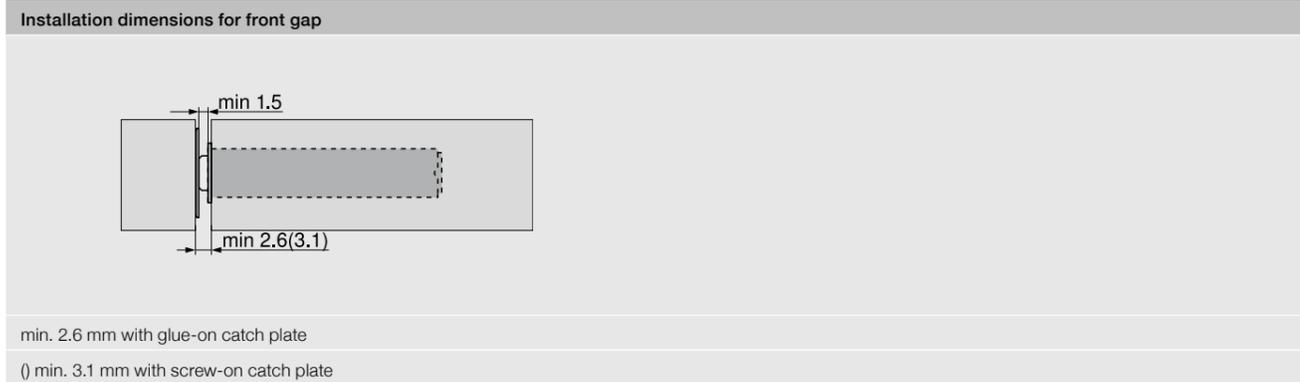
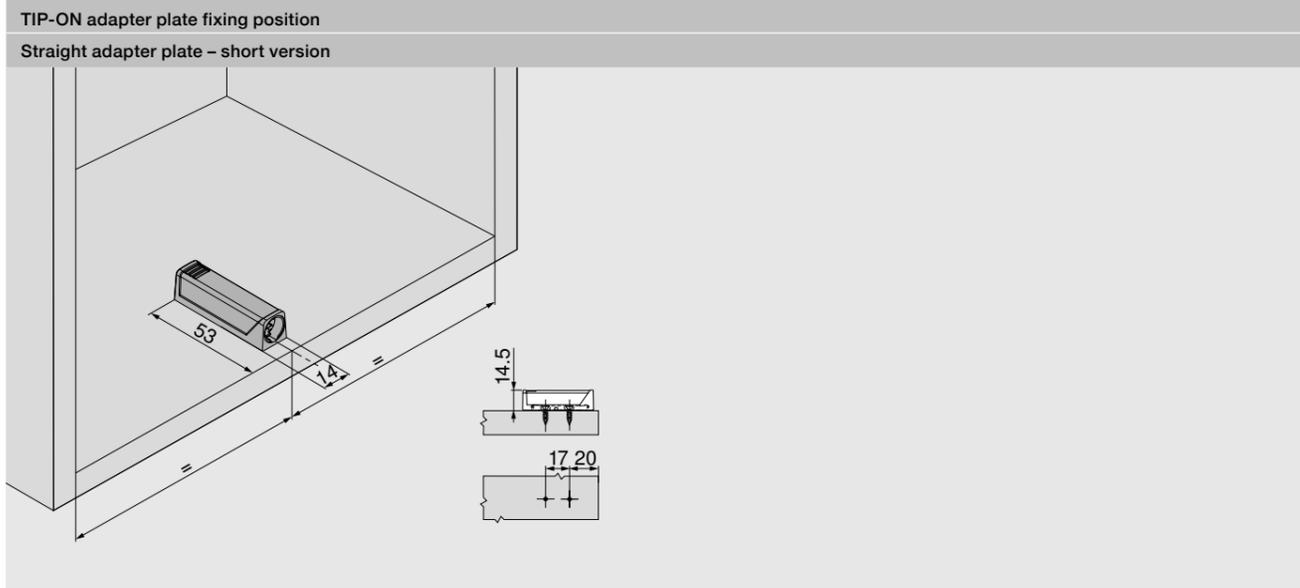
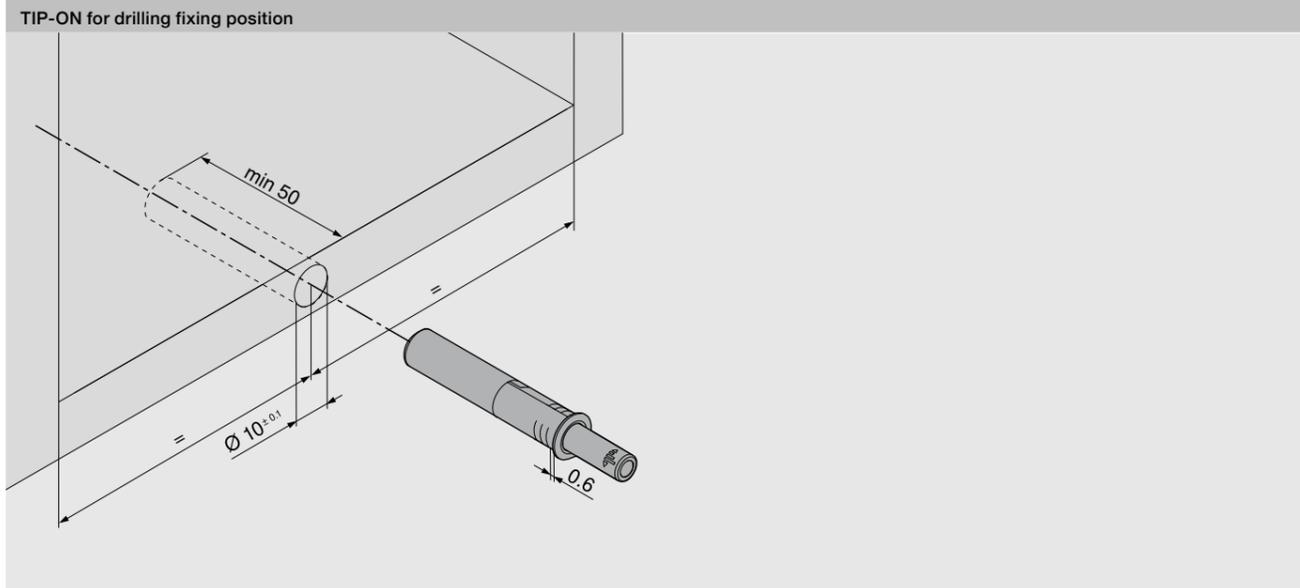
Hinge boss dimensions

Assembly and adjustment

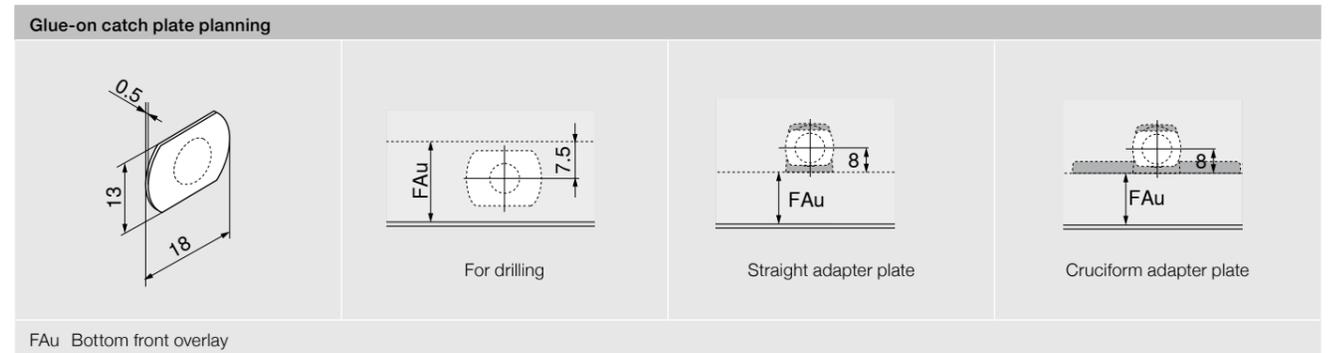
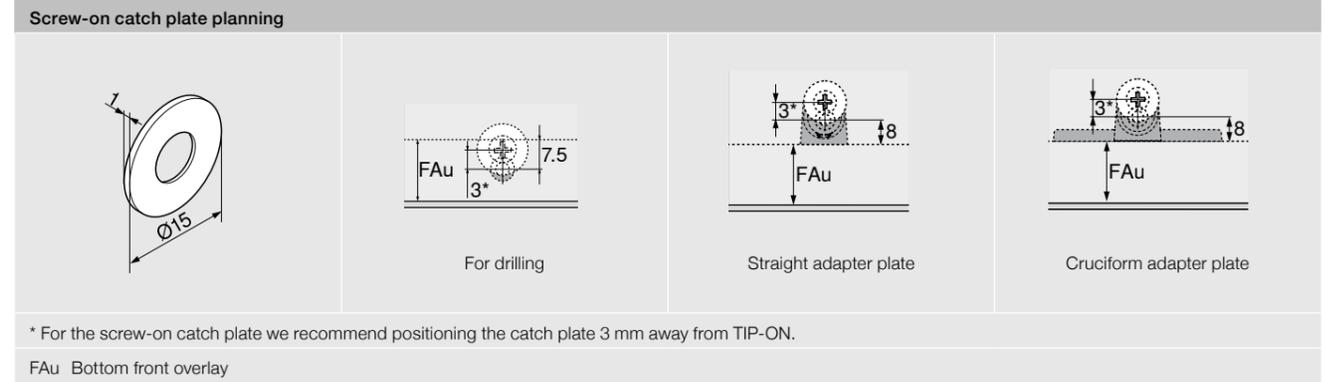
Information on assembly and adjustment

www.blum.com/aventos-hkxs-assembly

Planning



Planning





- EXPANDO T – pre-assembled fixing system
- Thin fronts measuring 8 mm or more
- Different front materials
- 3 different applications – lift systems | hinge systems | box systems

Front fixing bracket for AVENTOS HS | HL | HK top

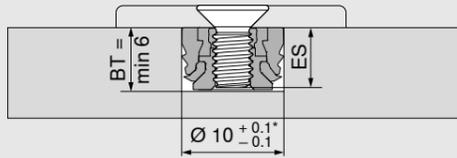
Version	Material	
Symmetrical	Steel	20S42T1

Fixing positions as per the details in the respective planning information

EXPANDO T – single

Colour	Material	
TGR	Nylon/steel	70T4532T

Drilling depth | Screw selection – EXPANDO T

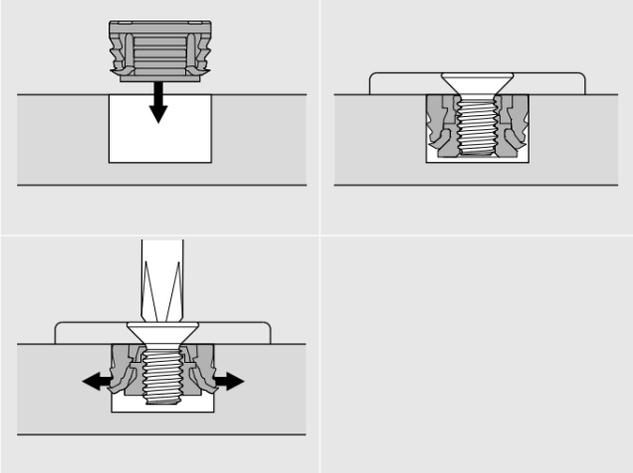


- BT Drilling depth
- ES Screw penetration depth
- ES Min. 4 mm
- ES Max. BT - 0.5 mm
- * Stone and ceramic +0.2/-0.1 mm

Screws with M4 thread have to be used for EXPANDO T single

The lowest possible drilling depth should be selected for the single dowel depending on the screw length

Assembly – EXPANDO T



Area of application and assembly recommendation

EXPANDO T is suitable for fixing Blum fittings to thin cabinet fronts of all types of materials. Materials can be just 8 mm thick or more, provided they are sufficiently stable and strong.

Materials tested by Blum	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
Granite stone – Nero Assoluto	3
Artificial stone – quartz composite	3
Ceramic panels	3

Nm Minimum tightening torque

Liability disclaimer

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.



Information on assembly and adjustment
www.blum.com/expando-t-9

Front assembly

	Universal drilling template		Template		Marking template for AVENTOS HK top front fixing bracket
	ZML.0040.01		65.5300		ZML.2200

Cabinet assembly

	Universal individual template		Universal rod template
	65.1051.02		65.1000.01

Assembly – Hinge systems

	Template		Drilling template for mounting plates		Drilling template for hinges
	65.5300		65.5070	Ø 8 mm Ø 2.5 mm	65.059A
	ECODRILL		Drilling template for hinge systems	Ø 2.5 mm	65.055A
	M31.1000		65.7500.03		

Assembly – SERVO-DRIVE

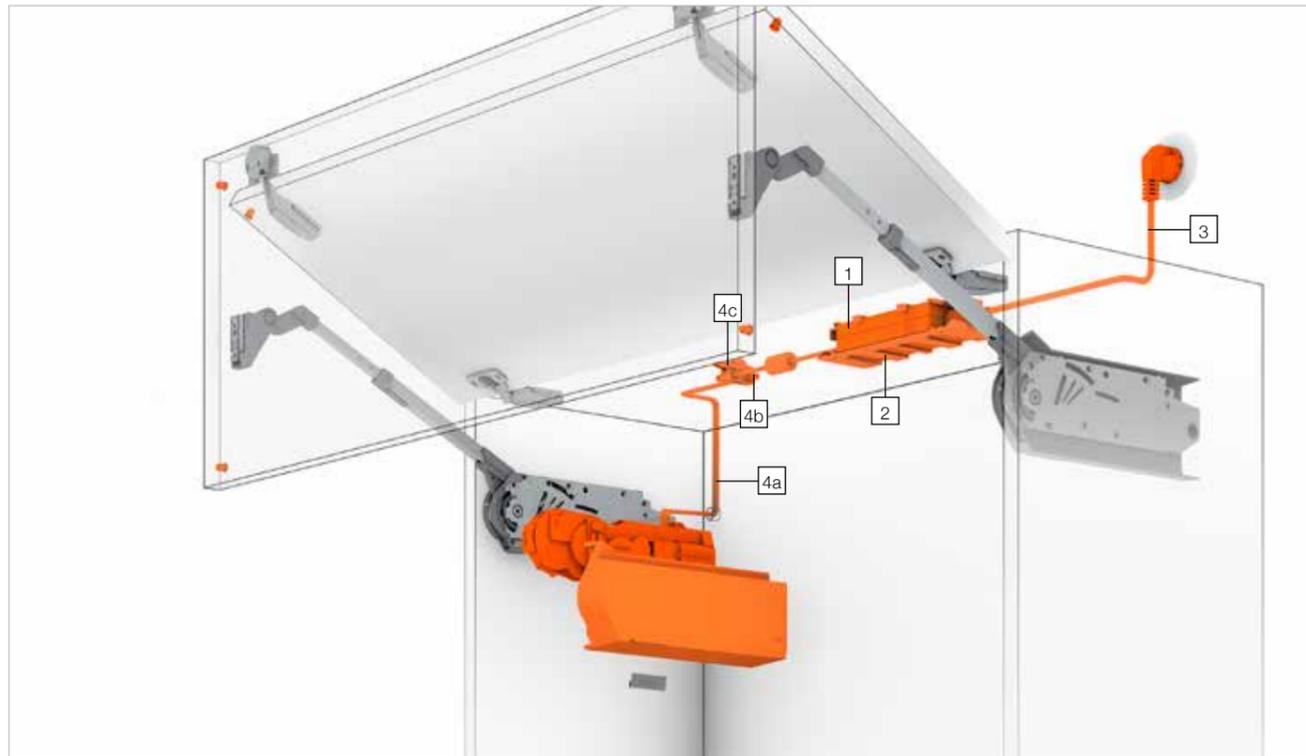
	Drilling template for Blum distance bumper		Drilling template for the SERVO-DRIVE switch
	ZML.1090		M31.2000

Assembly – TIP-ON

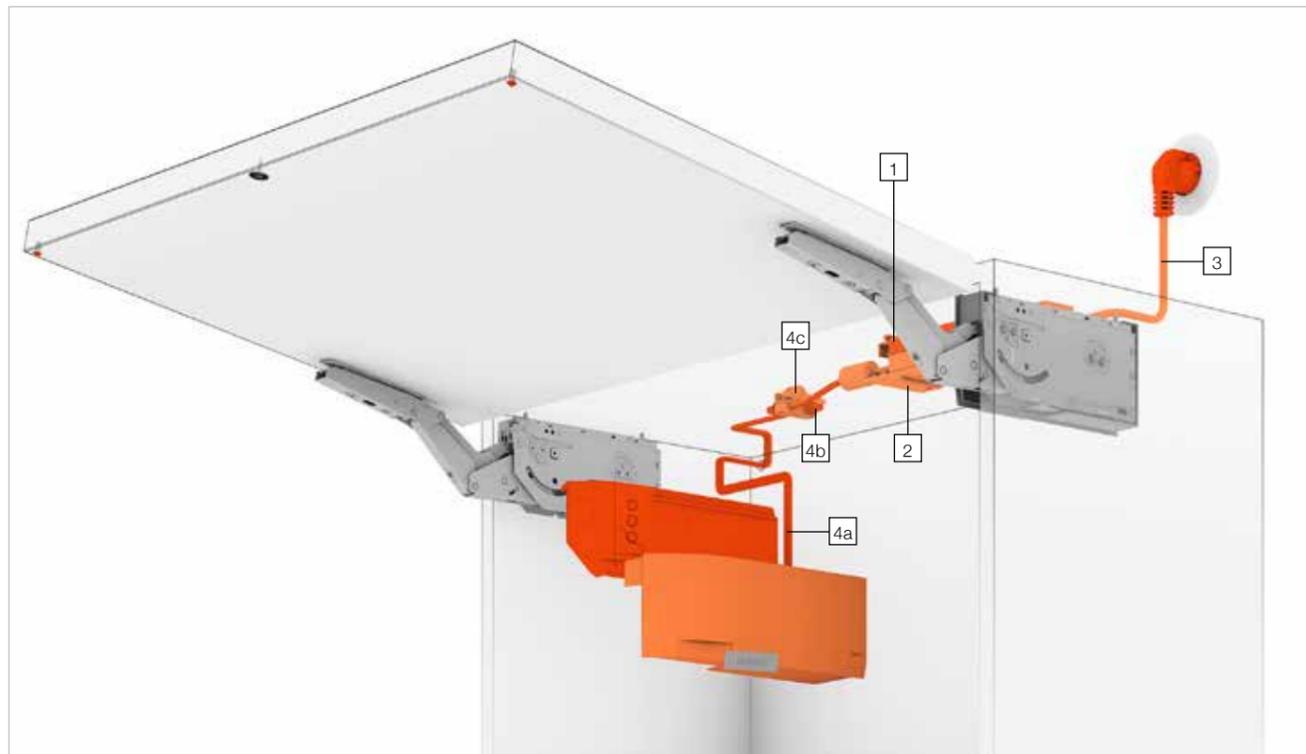
	Drilling template for BLUMOTION TIP-ON
	65.5010

Blum transformer and accessories

SERVO-DRIVE for AVENTOS HF, HS, HL

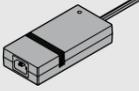


SERVO-DRIVE for AVENTOS HK top



Blum transformer and accessories

Ordering information

1	24-watt Blum transformer		
	Language package		
D	Z10NE030D		
Includes operating and installation instructions			
Without flex			
Language package			
D	EN, ES, FR, IT, PT		
Language descriptions as per ISO-639			

2	Transformer unit housing		
	Colour	Material	Z10NG120
	WGR	Nylon	
For 24-watt Blum transformer			

3	Flex		
	Market	Z10M200K	
	AU		
¹ Without plug			

Colour			
WGR	White grey		
S	Black		
W	White		

Accessories			
4	Distribution cable and cable end protector		
	Colour	Length (m)	Z10K800AE
	S	8	

Consisting of:			
4a	1 x	Distribution cable	
4b	5 x	Cable end protector	
Can be used as a distribution cable			
For cutting to size			

4	Connecting nodes and cable end protector		
	Colour	Material	Z10V100E.01
	S	Nylon	

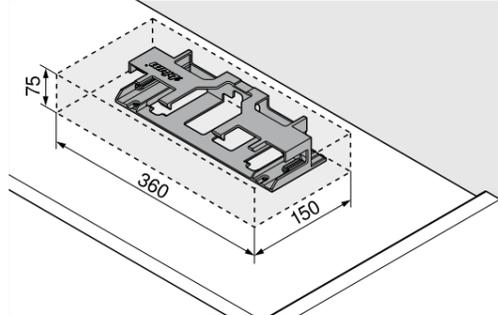
Consisting of:			
4c	1 x	Connecting node	
4b	2 x	Cable end protector	

Cable holder			
	Colour	Material	Z10K0009
	W	Nylon	
E.g. for fixing the distribution cable			

Blum transformer and accessories

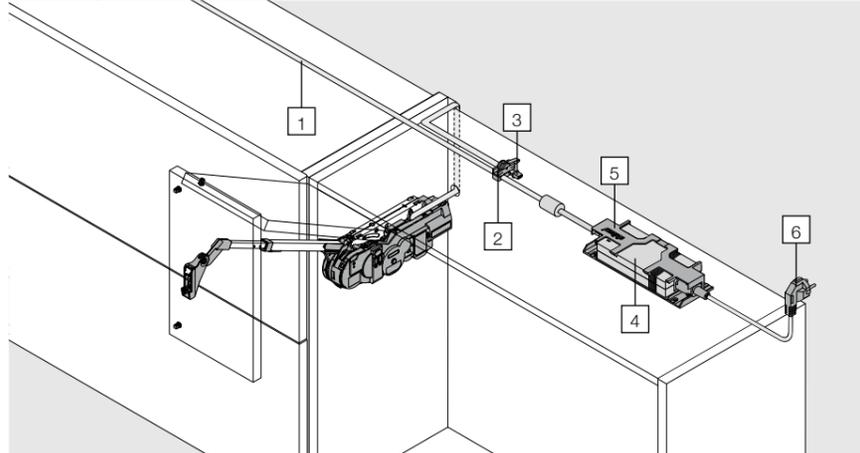
Planning

Space requirement and safety distance, Blum transformer unit housing and/or Blum plug-in transformer



i A safety distance of 30 mm must be maintained for air circulation (see graphic); otherwise, there is a risk that the Blum transformer or plug-in transformer could overheat.

Assembly on the cabinet top panel

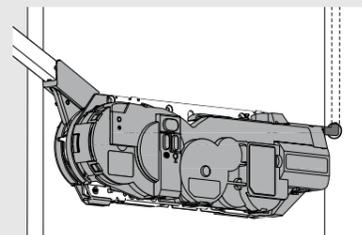


- 1 Distribution cable for cutting to size
- 2 Connecting node
- 3 Cable end protector
- 4 Blum transformer
- 5 Transformer unit housing
- 6 Flex

i Only one Blum transformer can be connected to each distribution cable.

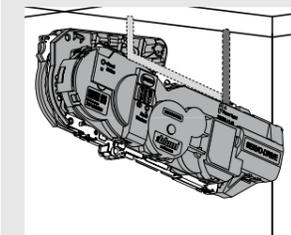
Back cabling

Recommended



Top cabling

Optional



Cabinet front edge to centre of drilled hole

HF 167 mm

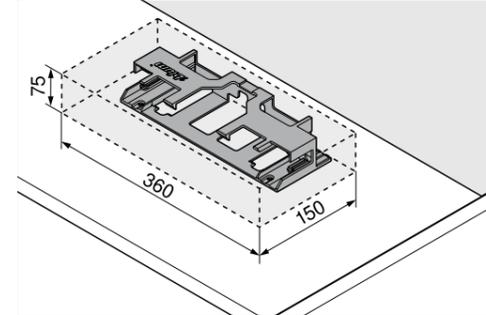
HS 69 or 167 mm

HL 74.5 or 167 mm

Blum transformer and accessories

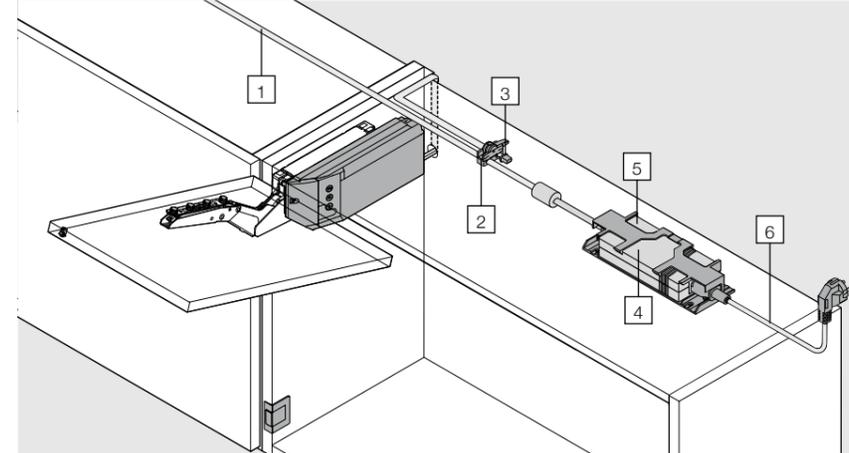
Planning

Space requirement and safety distance, Blum transformer unit housing and/or Blum plug-in transformer



i A safety distance of 30 mm must be maintained for air circulation (see graphic); otherwise, there is a risk that the Blum transformer or plug-in transformer could overheat.

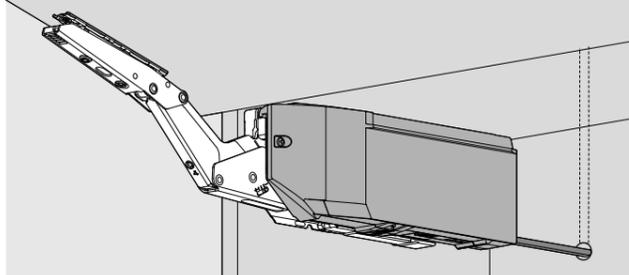
Assembly on the cabinet top panel



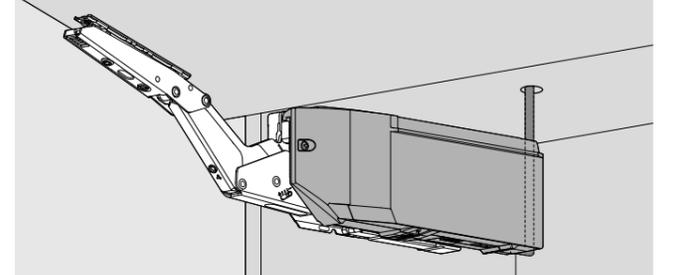
- 1 Distribution cable for cutting to size
- 2 Connecting node
- 3 Cable end protector
- 4 Blum transformer
- 5 Transformer unit housing
- 6 Flex

i Only one Blum transformer can be connected to each distribution cable.

Back cabling



Top cabling



Assembly and adjustment



Information on assembly and adjustment

www.blum.com/servodrive-aventos-assembly

 **Houzz** PRO :
Blum Australia

 **Instagram:**
@blumaustralia, #blumaustralia

 **Facebook:**
facebook.com/blumaustralia

 **Android App on Google Play:**
Easy Assembly App

 **Available on the App Store:**
Easy Assembly App

 **Tag Us:**
#blumaustralia

Blum Showrooms Sydney (Head Office)

10 Blackbird Close
Len Waters Estate NSW 2170
Ph: 02 9612 5400

Adelaide

179 Railway Terrace
Mile End SA 5031
Ph: 08 8118 6070

Brisbane

6/39-45 Compton Road
Underwood QLD 4119
Ph: 07 3135 9490

Melbourne

245 Ferntree Gully Road
Mount Waverley VIC 3149
Ph: 03 9982 1720

Perth

3/425 Scarborough Beach Road
Osborne Park WA 6017
Ph: 08 6467 0110

Blum Australia Pty Ltd
PO BOX 1615
Green Valley, NSW, 2168
Australia
Toll Free: 1800 179 186
E-mail: info.au@blum.com
blum.com

