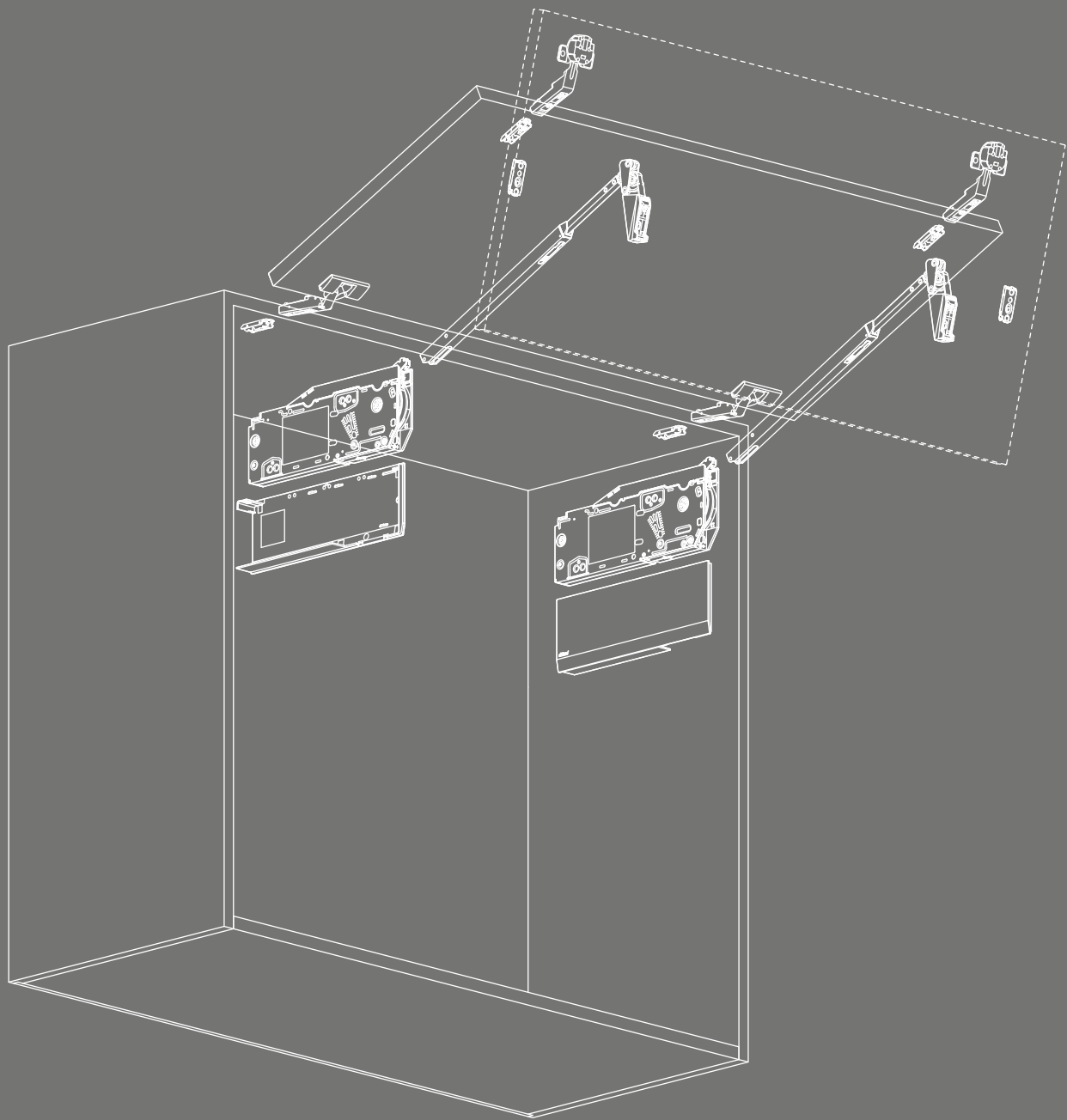


AVENTOS top

Ordering information and planning



The latest generation in our comprehensive repertoire

Our AVENTOS lift systems have been reliably used in wall and tall cabinets for more than two decades. It was time for an evolution: we have reduced the range, optimised the functions, and adapted the design. New AVENTOS top allows you to masterfully stage individual furniture items or entire living spaces without compromise.



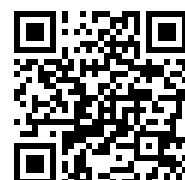
Contents

4	Living world
5	Services
6	Overview of cabinet heights
8	AVENTOS HF top
20	AVENTOS HS top
26	AVENTOS HL top
32	AVENTOS HK top
40	AVENTOS HK-S
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52	TIP-ON
54	EXPANDO T
55	Assembly devices
56	SERVO-DRIVE



Uniquely arranged. Across all living areas

With their compact size and minimalist design, the lift systems from the AVENTOS top range fit perfectly into every piece of furniture and every living space. Depending on your requirements and the space available, you can find a suitable and reliable solution with AVENTOS HF top, HS top, HL top and HK top. Freedom of movement and optimal access are maintained at all times – no matter whether fronts fold up, swing up and over, lift up or pivot up.



Detailed information
on AVENTOS top at:
www.blum.com/aventostop

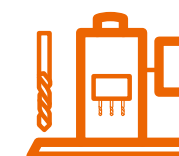
Our services at a glance

Our services are customised to your specific needs, for every step along your process chain, allowing you to work more efficiently and therefore save time. Tailored to you and available when and where you need them.



Digital services

Digital support for more efficiency



Assembly devices

Practical tools for precise work



Communication services

Comprehensive material for
targeted marketing



Personal services

Direct contact for customer-focused
support



Logistics services

Optimised processes for quick delivery



Find out more about our
Services:
www.blum.com/services

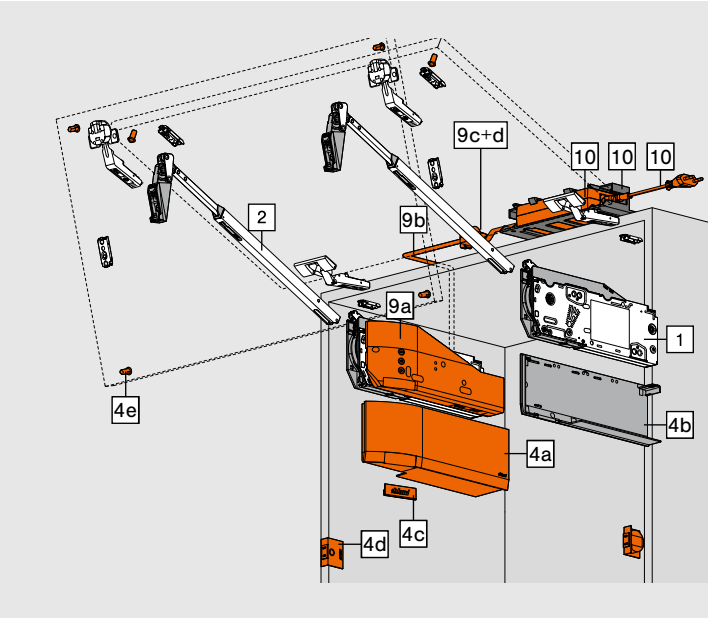
The right tool for every composition



R = tier system

AVENTOS HF top

Wooden fronts and wide aluminium frames

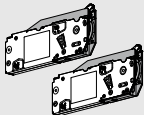


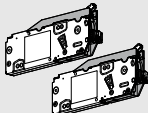
- ☐ Standard
- ☒ SERVO-DRIVE

- Ideal for higher wall cabinets with bi-fold fronts
- Cabinet height 480–1200 mm
- Cabinet width up to 1800 mm
- Internal depth of at least 264 mm
- Integrated BLUMOTION adjustment
- SERVO-DRIVE electrical motion support system
- Light operating forces
- Variable stop
- Integrated opening angle stop
- Standardised position of the lift mechanism and front fixing bracket
- Symmetrical lift mechanism and lever arm
- Tool-free assembly
- Two lift mechanism fixing methods
- 3-dimensional adjustment of both fronts
- Centre hinge with finger safety feature

Ordering information

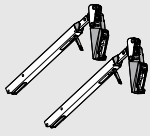
Note
Power factor (LF) = cabinet height* (KH) [mm] x front weight including handle weight [kg]
* Calculate with theoretical cabinet height (TKH) for asymmetrical fronts
For asymmetrical fronts: theoretical cabinet height TKH = front height top FHo (mm) x 2 + gaps
The larger front must be at the top for asymmetrical fronts.
We recommend the more powerful lift mechanism for applications in overlapping ranges. A trial application is recommended when you are in a borderline area of the individual lift mechanism.
The power factor can be increased by 50% when using a third lift mechanism. We recommend a third lift mechanism for wide cabinets. This will prevent the front from sagging when open.

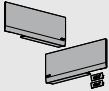
1		Lift mechanism set			
		Fixing with pre-mounted system screws			
		LF	OW		
		2700–13500*	81°–116°	22F2510	
		10000–19300	81°–116°	22F2810	
LW Power factor					
OW Opening angle (multi-stage adjustment)					
Consisting of:					
1	2 x	Symmetrical lift mechanism			
		Incl. pre-mounted system screws			
* 1 pc LF 1300–3000 cabinet width KB up to 600 mm					

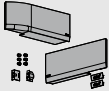
1	 	Lift mechanism set		
		Fixing with chipboard screws with positioning system		
LF		OW		
2700–13500*		81°–116°	22F2500	
10000–19300		81°–116°	22F2800	
LW Power factor				
OW Opening angle (multi-stage adjustment)				
Consisting of:				
1	2 x	Symmetrical lift mechanism Incl. positioning system		
-	8 x	Chipboard screws Ø 4 x 35 mm		
* 1 pc LF 1300–3000 cabinet width KB up to 600 mm				

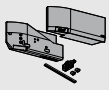
Wooden fronts and wide aluminium frames

Ordering information

2		Lever arm set	
		Cabinet height (mm)*	
		480–610	22F3200
		600–910	22F3500
		840–1200	22F3900
Consisting of:			
2	2 x	Symmetrical Lever arm set	
* For asymmetrical fronts: theoretical cabinet height TKH = front height top FHo (mm) x 2 + gaps			

4		Cover cap set	
		Colour	Material
		SW, HGR, TGR	K
			22.8000
Consisting of:			
-	1 x	Cover cap left	
4b	1 x	Cover cap right	
4c	2 x	Branding element, embossed with Blum logo	
		IN-G	

4		Cover cap set for SERVO-DRIVE	
		Colour	Material
		SW, HGR, TGR	K
			23.8000
Consisting of:			
4a	1 x	SERVO-DRIVE cover cap left	
4b	1 x	Cover cap right	
4c	2 x	Branding element, embossed with Blum logo	
		IN-G	
4d	2 x	SERVO-DRIVE switch	
4e	6 x	Blum distance bumper Ø 5 mm	

9		SERVO-DRIVE set	
		Colour	Material
		TGR	K
			23.A000
Consisting of:			
9a	1 x	SERVO-DRIVE drive unit	
9b	1 x	SERVO-DRIVE distribution cable, 1500 mm	
9c	1 x	Connecting node	
9d	2 x	Cable end protector	
For three lift mechanisms or more, we recommend two synchronised drive units			
We recommend one drive unit per set for connected fronts.			

10	SERVO-DRIVE power supply unit and accessories
See page 56	

Optional

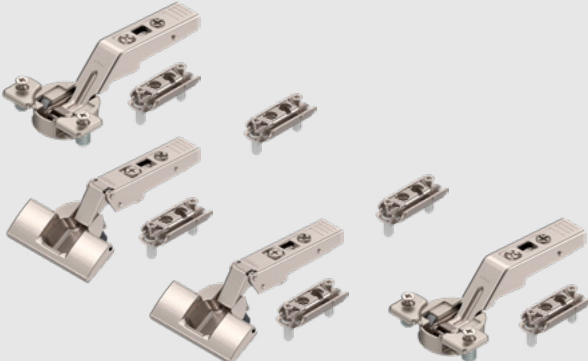
4c		Branding element	
		Material	Nylon
			MOQ
Customised, printed branding element		From 1000pcs.	
Customised, embossed branding element		From 5000pcs.	

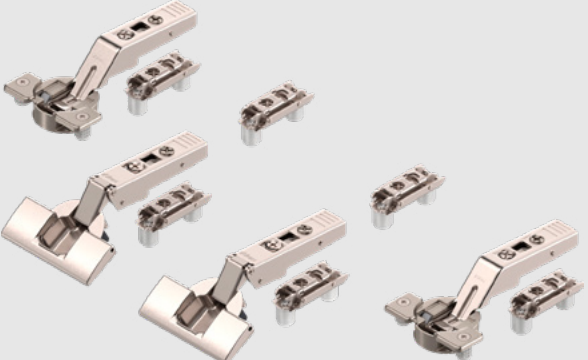
Colours and material

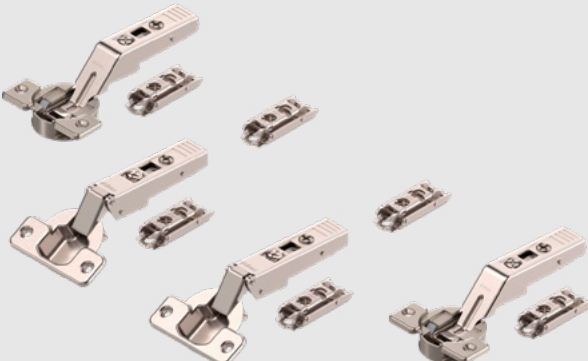
Name	
SW	Silk white
HGR	Light grey
TGR	Dark grey
IN-G	In-mould brushed stainless steel
K	Nylon

Accessories for AVENTOS HF top

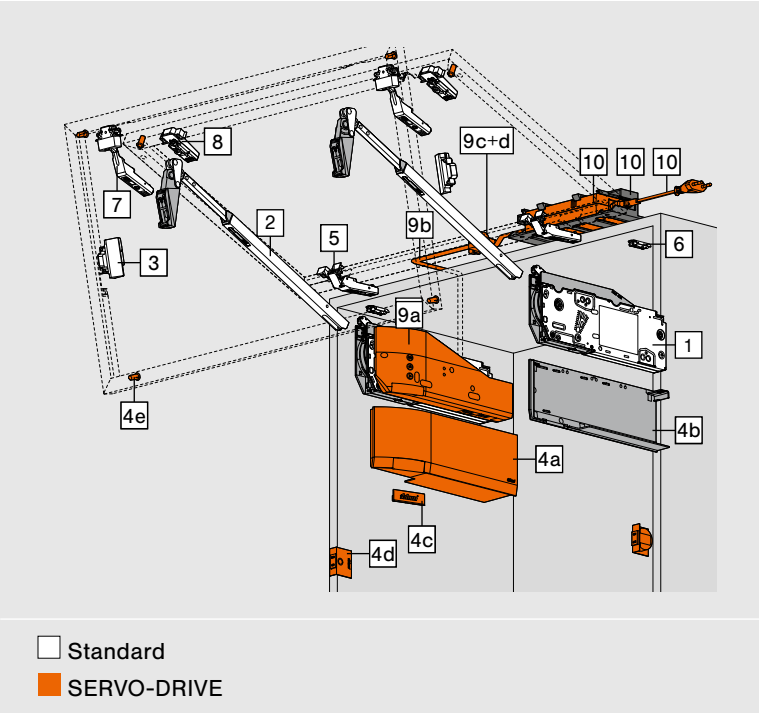
Ordering information

Hinge set – wooden fronts	
	
Ordering information	
Fixing method	
EXPANDO	
Consisting of:	
2 x	CLIP top 120° hinge unsprung
	70T5590BTL
2 x	CLIP top centre hinge unsprung
	78Z553ET
6 x	Horizontal cam mounting plate
	177H3100E

Hinge set – wooden fronts	
	
Ordering information	
Fixing method	
INSERTA Knock-in EXPANDO	
Consisting of:	
2 x	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 aluminium frames	
	
Ordering information	
Fixing method	
Screw-on ¹	
Consisting of:	
2 x	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 countersunk self-tapping screws (660.0950) for wide aluminium frames.	
For wide aluminium frames, an additional cruciform mounting plate is required for the CLIP top centre hinge.	

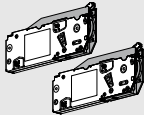
Narrow aluminium frames

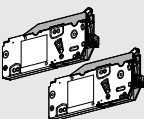


- Ideal for higher wall cabinets with bi-fold fronts
- Cabinet height 480–1200 mm
- Cabinet width up to 1800 mm
- Internal depth of at least 264 mm
- Integrated BLUMOTON adjustment
- SERVO-DRIVE electrical motion support system
- Light operating forces
- Variable stop
- Integrated opening angle stop
- Standardised position of the lift mechanism and front fixing bracket
- Symmetrical lift mechanism and lever arm
- Tool-free assembly
- Two lift mechanism fixing methods
- 3-dimensional adjustment of both fronts
- Centre hinge with finger safety feature

Ordering information

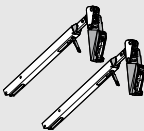
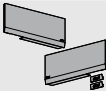
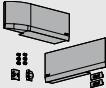
Note	
Power factor (LF) = cabinet height* (KH) [mm] x front weight including handle weight [kg]	
* Calculate with theoretical cabinet height (TKH) for asymmetrical fronts	
For asymmetrical fronts: theoretical cabinet height TKH = front height top FHo (mm) x 2 + gaps	
The larger front must be at the top for asymmetrical fronts.	
We recommend the more powerful lift mechanism for applications in overlapping ranges. A trial application is recommended when you are in a borderline area of the individual lift mechanism.	
The power factor can be increased by 50% when using a third lift mechanism. We recommend a third lift mechanism for wide cabinets. This will prevent the front from sagging when open.	

1		Lift mechanism set		
		Fixing with pre-mounted system screws		
		LF	OW	
		2700–13500*	81°– 116°	22F2510
		10000–19300	81°– 116°	22F2810
LW Power factor				
OW Opening angle (multi-stage adjustment)				
Consisting of:				
1	2 x	Symmetrical lift mechanism		
		Incl. pre-mounted system screws		
* 1 pc LF 1300–3000 cabinet width KB up to 600 mm				

1		Lift mechanism set		
		Fixing with chipboard screws with positioning system		
		LF	OW	
		2700–13500*	81°–116°	22F2500
		10000–19300	81°–116°	22F2800
LW Power factor				
OW Opening angle (multi-stage adjustment)				
Consisting of:				
1	2 x	Symmetrical lift mechanism Incl. positioning system		
-	8 x	Chipboard screws Ø 4 x 35 mm		
* 1 pc LF 1300–3000 cabinet width KB up to 600 mm				

Narrow aluminium frames

Ordering information

2		Lever arm set		
	Cabinet height (mm)*			
	480–610		22F3200	
	600–910		22F3500	
	840–1200		22F3900	
Consisting of:				
2	2 x	Symmetrical Lever arm set		
* For asymmetrical fronts: theoretical cabinet height TKH = front height top FHo (mm) x 2 + gaps				
3		CLIP adapter plate set for Lever Arm Set		
	Version		Spacing (mm)	
	Left/right		0	175H5B00
4		Cover cap set		
	Colour		Material	
	SW, HGR, TGR		K	22.8000
Consisting of:				
-	1 x	Cover cap left		
4b	1 x	Cover cap right		
4c	2 x	Branding element, embossed with Blum logo		
		IN-G		
4		Cover cap set for SERVO-DRIVE		
	Colour		Material	
	SW, HGR, TGR		K	23.8000
Consisting of:				
4a	1 x	SERVO-DRIVE cover cap left		
4b	1 x	Cover cap right		
4c	2 x	Branding element, embossed with Blum logo		
		IN-G		
4d	2 x	SERVO-DRIVE switch		
4e	6 x	Blum distance bumper Ø 5 mm		
5		CLIP top 120° aluminium frame door hinge		
	Boss		Spring	
	Screw-on		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				
6		Mounting plate for CLIP top 120° hinge		
	Fixing method		Spacing (mm)	
	Screw-on		0	175H3100
	EXPANDO		0	177H3100E
	Knock-in		0	177H3100
Standard mounting plates, spacing depends on the upper front overlay				

7		CLIP top aluminium centre hinge		
		Boss	Spring	78Z550AT
		Screw-on	Unsprung	
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				
8		CLIP adapter plate for centre hinges		
		Version	Spacing (mm)	175H5A00
		Symmetrical	0	
9		SERVO-DRIVE set		
		Colour	Material	23.A000
		TGR	K	
Consisting of:				
9a	1 x	SERVO-DRIVE drive unit		
9b	1 x	SERVO-DRIVE distribution cable, 1500 mm		
9c	1 x	Connecting node		
9d	2 x	Cable end protector		
For three lift mechanisms or more, we recommend two synchronised drive units				
10	SERVO-DRIVE power supply unit and accessories			
See page 56				

Optional

4c		Branding element		
	Material			Nylon
				MOQ
Customised, printed branding element		From 1000pcs.		☎
Customised, embossed branding element		From 5000pcs.		☎

¹ Use 2 countersunk self-tapping screws (660.0950) per side for narrow aluminium frames

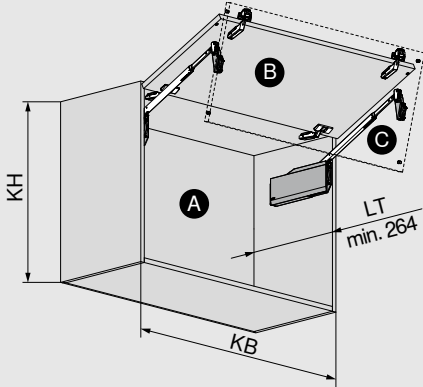
Colours and material

Name	
SW	Silk white
HGR	Light grey
TGR	Dark grey
IN-G	In-mould brushed stainless steel
K	Nylon

Wooden fronts, wide and narrow aluminium frames

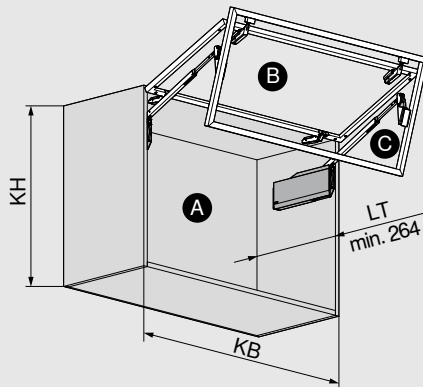
Planning

Wooden fronts and wide aluminium frames (symmetrical)



- A Cabinet
- B Top Front
- C Bottom Front
- KB Cabinet width
- KH Cabinet height
- LT Internal cabinet depth

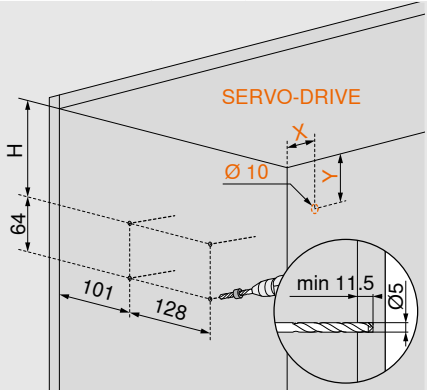
Narrow aluminium frames (symmetrical)



- A Cabinet
- B Top Front
- C Bottom Front
- KB Cabinet width
- KH Cabinet height
- LT Internal cabinet depth

Drilling position

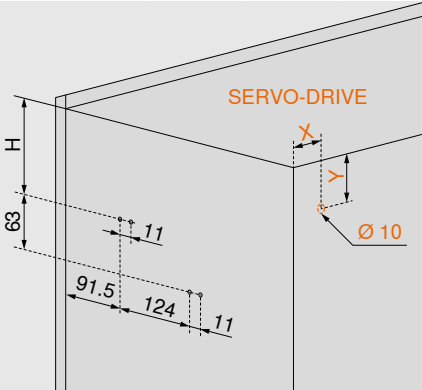
System screws



KH (mm)	H (mm)	X (mm)	Y (mm)
480-519	93.5	38.5	102
520-1200	116	38.5	124

KH Cabinet height

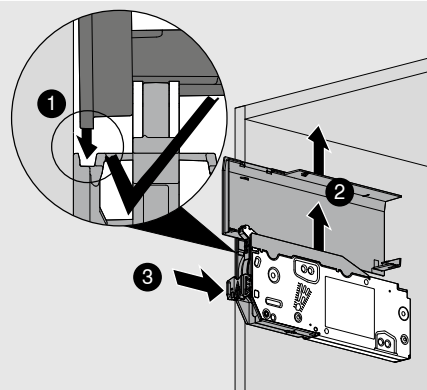
Chipboard screws incl. positioning system



KH (mm)	H (mm)	X (mm)	Y (mm)
480-519	93	38.5	102
520-1200	115.5	38.5	124

4 x chipboard screws Ø 4 x 35 mm

KH Cabinet height



KH (mm)

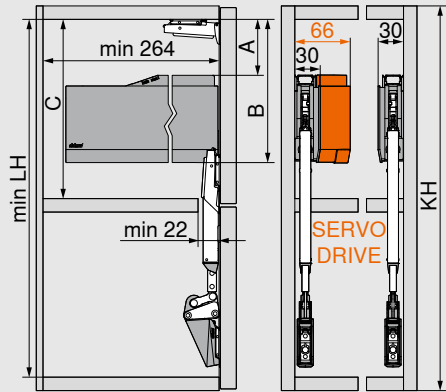
520-1200

KH Cabinet height

Wooden fronts, wide and narrow aluminium frames

Planning

Space requirement



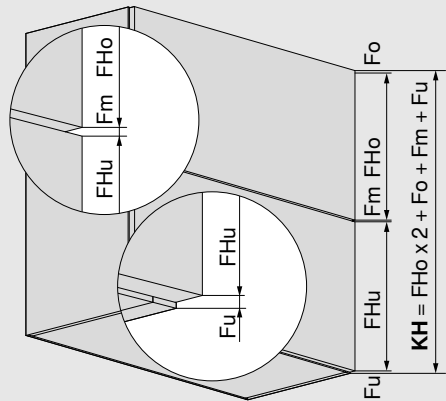
Lever arm set	LH min. (mm)
22F3200	443
22F3500	512
22F3900	632

KH (mm)	A (mm)	B (mm)	C min. (mm)
480-519	66.5	171.5	172
520-1200	89.0	194.0	195

KH Cabinet height

LH Internal cabinet height

Symmetrical front



Fo Top gap

Fm Middle gap

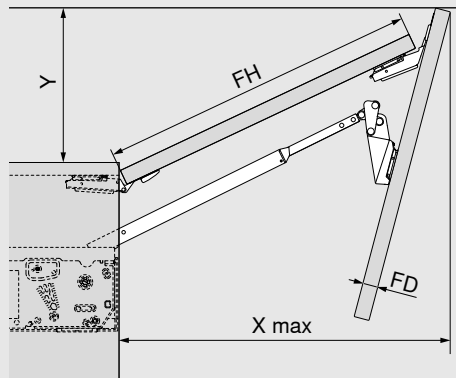
Fu Bottom gap

FHo Front height top

FHu Lower front height

KH Cabinet height

Space requirement above



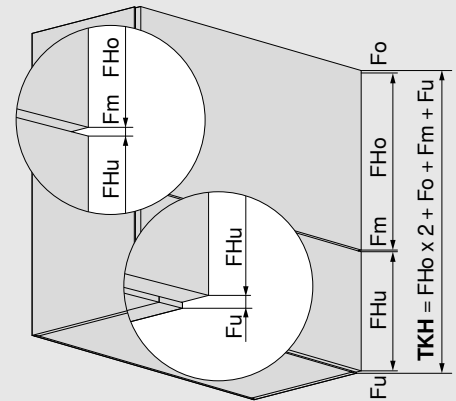
$X \max = FH \times 0.9 + 1.5 \times FD + 35$

Opening angle stop	Y (mm)
116°	FH x 0.44 + 38
107°	FH x 0.29 + 35
97°	FH x 0.12 + 31
88°	28
81°	0

FD Front thickness

FH Front height

Asymmetrical front



Fo Top gap

Fm Middle gap

Fu Bottom gap

FHo Front height top

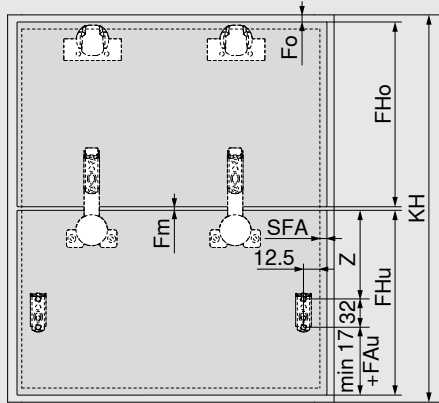
FHu Lower front height

TKH Theoretical cabinet height

Wooden fronts and wide aluminium frames

Planning

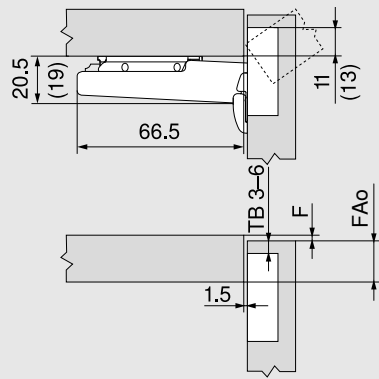
Front assembly



Cabinet height KH (mm)	Z (mm)
480–519	170
520–1200	189

Fo Top gap
Fm Middle gap
FAu Bottom front overlay
FHo Front height top
FHu Lower front height
SFA Side front overlay

CLIP top 120° hinge



TB Boss drilling distance
FAo Upper front overlay
F Gap
() CLIP top 120° special hinge

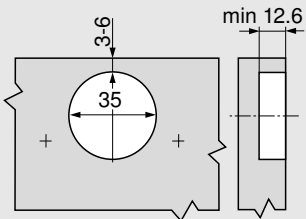
Boss drilling distance TB

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													

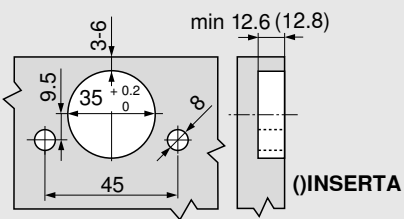
MD Mounting plate spacing (mm)

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

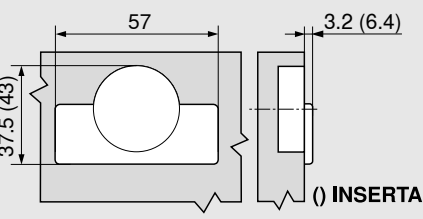
Screw-on assembly



INSERTA | EXPANDO assembly



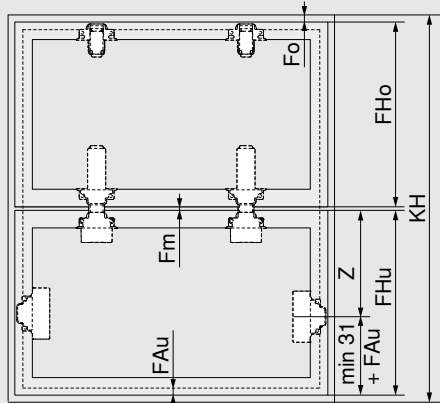
Hinge boss dimensions



Narrow aluminium frames

Planning

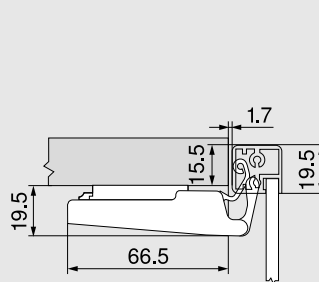
Front assembly



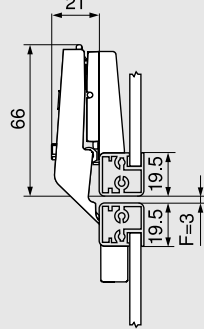
Cabinet height KH (mm)	Z (mm)
480–519	188
520–1200	207

Fo Top gap
Fm Middle gap
FAu Bottom front overlay
FHo Front height top
FHu Lower front height

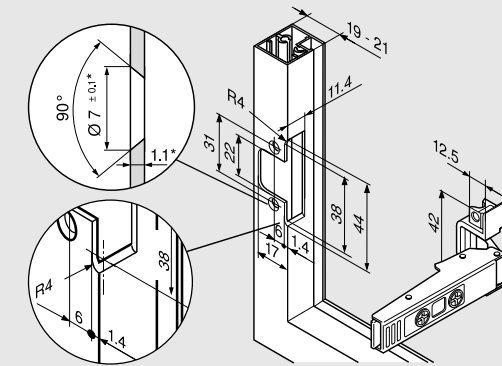
CLIP top 120° aluminium frame door hinge



CLIP top aluminium centre hinge



F Min. gap 1.5 mm
The gap needs to be adjusted for a frame thickness of 20.5 mm or greater



* When changing material thickness, adjust the assembly dimensions accordingly

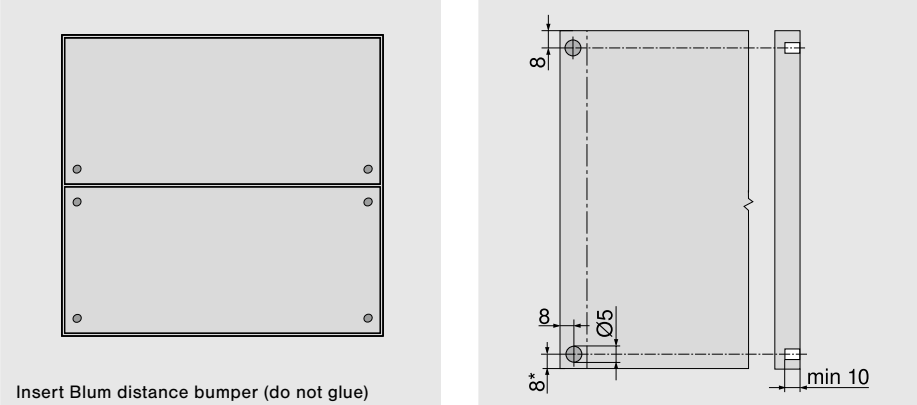


Find more information on assembly and adjustment of AVENTOS HF top at www.blum.com/hftopassembly

SERVO-DRIVE for AVENTOS HF top

Planning

Blum distance bumper (SERVO-DRIVE application only)



Insert Blum distance bumper (do not glue)

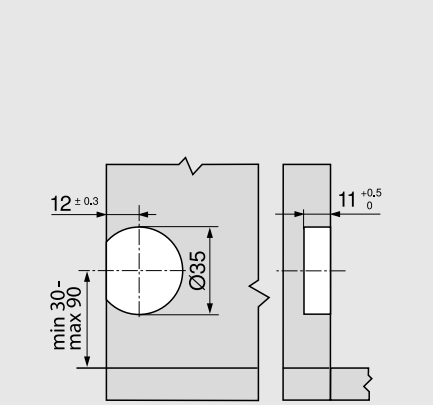
Recommendation for aluminium frames

Consider drilling the Blum distance bumper in the cabinet side

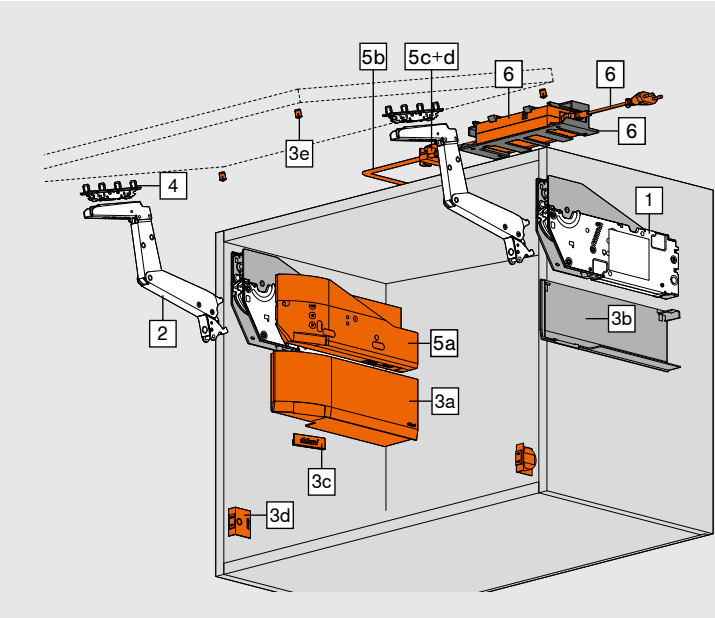
A trial application must be carried out when fixing to the front

* From cabinet bottom edge for fronts that protrude below

SERVO-DRIVE switch



AVENTOS HS top



- ☐ Standard
- ☒ SERVO-DRIVE

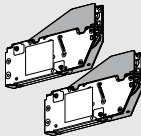
- Ideal for large, one-part fronts
- Cabinet height 350–800 mm
- Cabinet width up to 1800 mm
- Internal depth of at least 264 mm
- Integrated BLUMOTON adjustment
- SERVO-DRIVE electrical motion support system
- Light operating forces
- Variable stop
- Standardised position of the lift mechanism and front fixing bracket
- Symmetrical lift mechanism and lever arm
- Tool-free assembly
- Two lift mechanism fixing methods
- 3-dimensional adjustment of the front

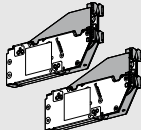
Ordering information

Note

We recommend the more powerful lift mechanism for applications in overlapping ranges. A trial application is recommended when you are in a borderline area of the individual lift mechanism.

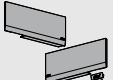
The front weight (FG) can be increased by 50%, if you use a third lift mechanism. We recommend a third lift mechanism for wide cabinets. This will prevent the front from sagging when open.

1		Lift mechanism set			
			Fixing with pre-mounted system screws		
			KH (mm)	FG (kg)	
			350–450	2.00–11.50	22S2210
			450–540	2.50–12.50	
			480–660	2.75–15.25	22S2510
			650–800	3.50–18.50	22S2810
FG Front weight including double handle weight					
KH Cabinet height					
Consisting of:					
1	2 x	Symmetrical lift mechanism			
		Incl. pre-mounted system screws			

1		Lift mechanism set			
			Fixing with chipboard screws with positioning system		
			KH (mm)	FG (kg)	
			350–450	2.00–11.50	22S2200
			450–540	2.50–12.50	
			480–660	2.75–15.25	22S2500
			650–800	3.50–18.50	22S2800
FG Front weight including double handle weight					
KH Cabinet height					
Consisting of:					
1	2 x	Symmetrical lift mechanism			
		Incl. positioning system			
-	8 x	Chipboard screws Ø 4 x 35 mm			

Ordering information

2		Lever arm set		
		Colour	Material	
		NI	Steel	22S3500
Consisting of:				
2	2 x	Symmetrical lever arm		

3		Cover cap set		
		Colour	Material	
		SW, HGR, TGR	K	22.8000
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		Cover cap set for SERVO-DRIVE		
		Colour	Material	
		SW, HGR, TGR	K	23.8000
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		

4		Front fixing bracket set		
		Version	Fixing method	
		Wooden fronts and wide aluminium frames	Screw-on ¹	20S4200
		Narrow aluminium frames	Screw-on ²	20S4200A
Consisting of:				
4	2 x	Front fixing bracket		
¹ Use 4 chipboard screws (609.1x00) per side for wooden fronts. Use 4 countersunk self-tapping screws (660.0950) per side for wide aluminium frames.				
² Incl. 8 x countersunk self-tapping screws – 660.0950				

-		Front fixing bracket		
		Version	Fixing method	
		Thin fronts	EXPANDO T 2 x	20S42T1
		Wooden fronts	EXPANDO 2 x	20S42E1
EXPANDO T suitable for thin fronts – see page 54				

5		SERVO-DRIVE set		
		Colour	Material	
		TGR	K	23.A000
Consisting of:				
5a	1 x	Drive unit		
5b	1 x	SERVO-DRIVE distribution cable, 1500 mm		
5c	1 x	Connecting node		
5d	2 x	Cable end protector		
For three lift mechanisms or more, we recommend two synchronised drive units				
We recommend one drive unit per set for connected fronts.				
6		SERVO-DRIVE power supply unit and accessories		
See page 56				

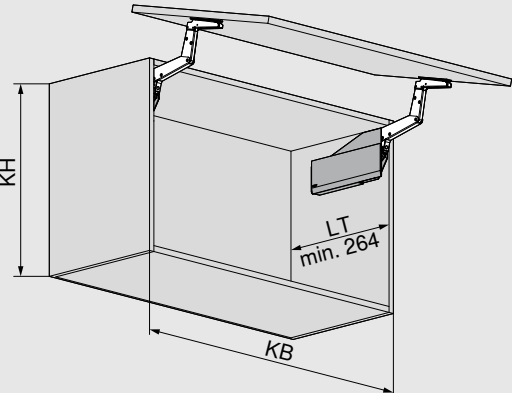
Optional

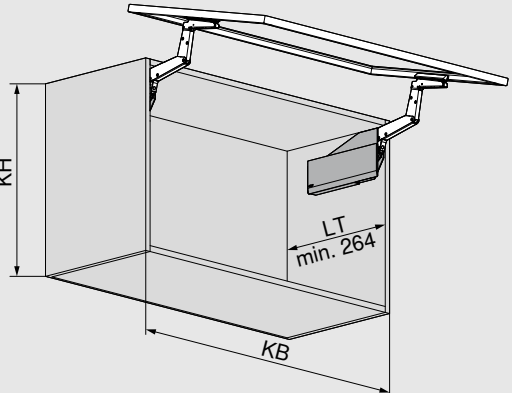
3c		Branding element		
		Material	Nylon	
			MOQ	
		Customised, printed branding element	From 1000pcs.	
		Customised, embossed branding element	From 5000pcs.	

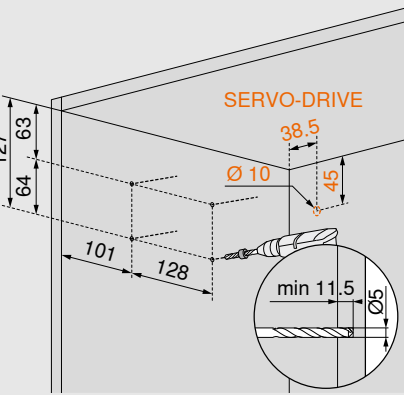
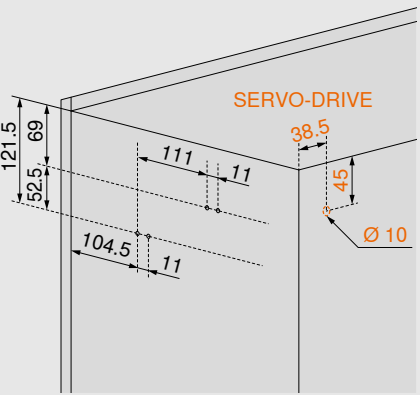
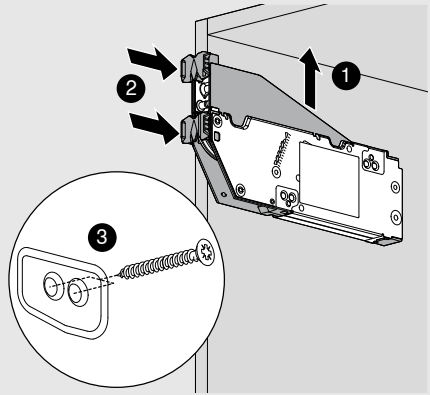
Colours and material

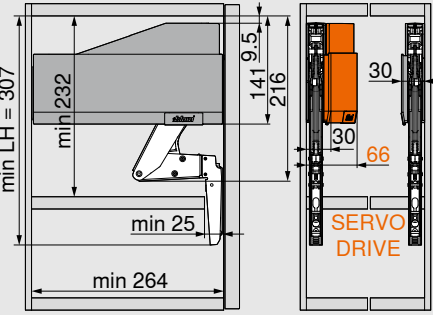
Name	
SW	Silk white
HGR	Light grey
TGR	Dark grey
NI	Nickel plated
IN-G	In-mould brushed stainless steel
K	Nylon

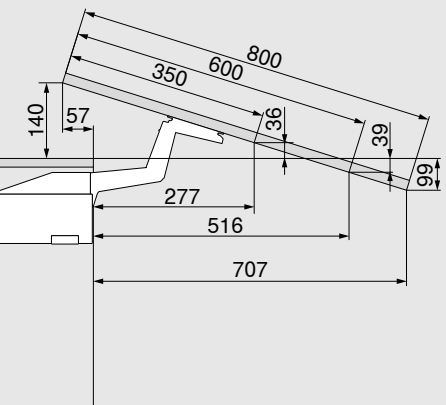
Planning

Wooden fronts and wide aluminium frames	
	
KB Cabinet width	
KH Cabinet height	
LT Internal cabinet depth	

Narrow aluminium frames	
	
KB Cabinet width	
KH Cabinet height	
LT Internal cabinet depth	

Drilling position		
System screws	Chipboard screws incl. positioning system	
		

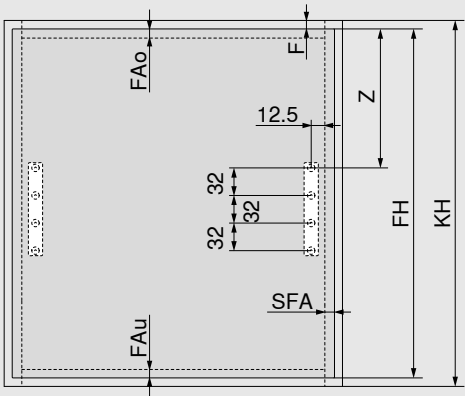
Space requirement	
	
LH Internal cabinet height	

Front setting	
	
Dimensions depend on tilt adjustment	

Planning

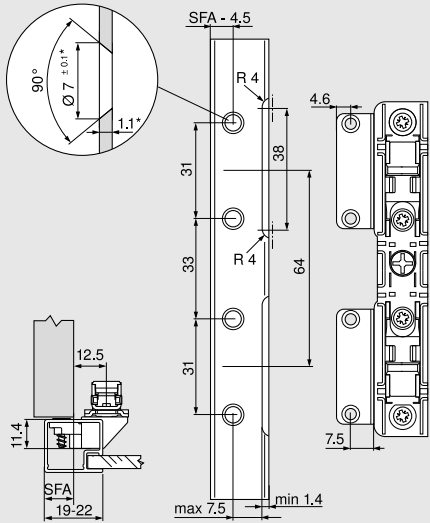
Front assembly

Wooden fronts and wide aluminium frames



- FAo Upper front overlay
- FAu Bottom front overlay
- F Gap
- Z 195 + FAo
- FH Front height
- KH Cabinet height
- SFA Side front overlay
- Wall application: min. gap required 5mm

Narrow aluminium frames

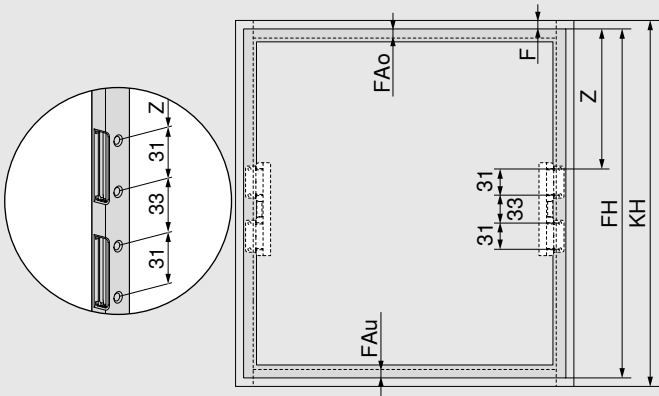


For frame width 19 mm, an SFA of 11-18 mm is possible.

* When changing material thickness, adjust the assembly dimensions accordingly

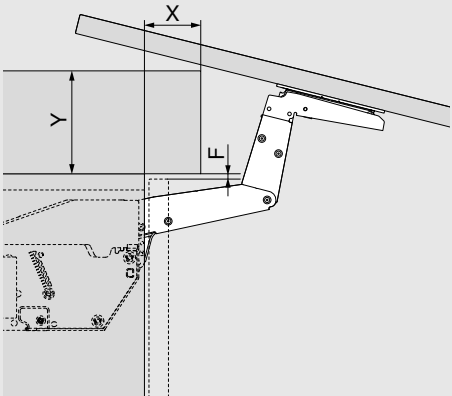
SFA Side front overlay

Narrow aluminium frames



- FAo Upper front overlay
- FAu Bottom front overlay
- F Gap
- Z 195.5 + FAo
- FH Front height
- KH Cabinet height
- Application against a wall: minimum 5 mm gap

Space requirement – cornice | crown moulding

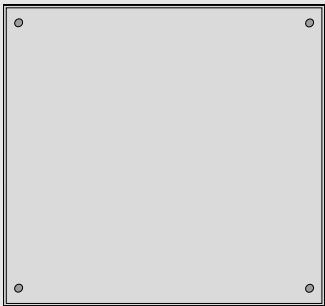


F (mm)	3.0	2.0	1.5
X max. (mm)	31	29	27
Y max. (mm)	117	118	119
F Gap			

SERVO-DRIVE for AVENTOS HS top

Planning

Blum distance bumper (SERVO-DRIVE application only)



Insert Blum distance bumper (do not glue)

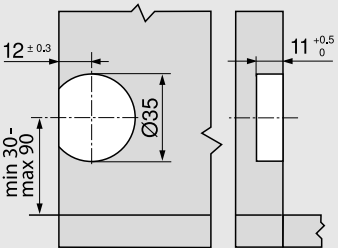
Recommendation for aluminium frames

Consider drilling the Blum distance bumper in the cabinet side

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

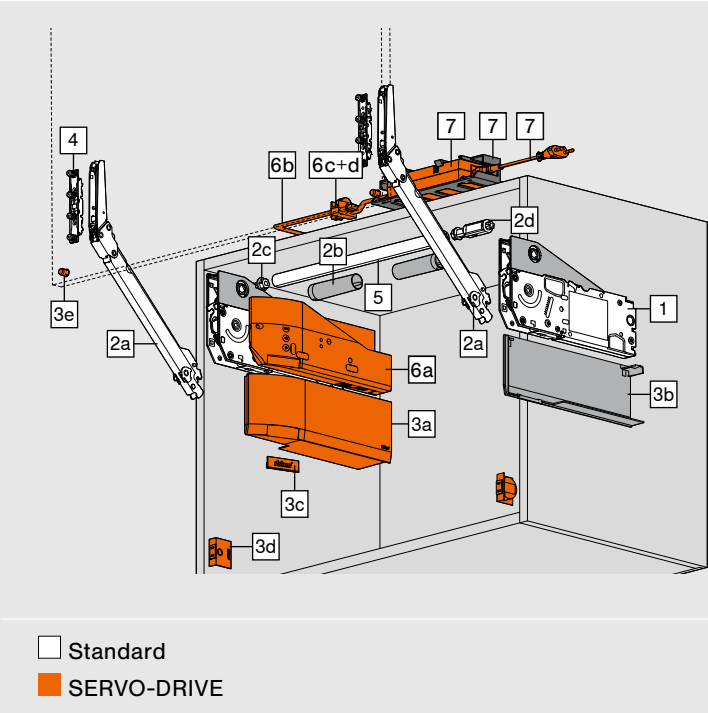
* From cabinet bottom edge for fronts that protrude below

SERVO-DRIVE switch



Find more information on assembly and adjustment of AVENTOS HS top at www.blum.com/hstopassembly

AVENTOS HL top

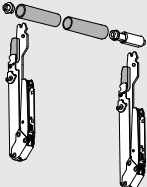


- Ideal for small one-part fronts
- Cabinet height 300-580 mm
- Cabinet width up to 1800 mm
- Internal depth of at least 264 mm
- Integrated BLUMOTION adjustment
- SERVO-DRIVE electrical motion support system
- Light operating forces
- Variable stop
- Standardised position of the lift mechanism and front fixing bracket
- Symmetrical lift mechanism and lever arm
- Tool-free assembly
- Two lift mechanism fixing methods
- 3-dimensional adjustment of the front

Ordering information

1		Lift mechanism set
Fixing with pre-mounted system screws		
	KH (mm)	
	300–389	22L2210
	390–580	22L2510
KH Cabinet height		
Consisting of:		
1	2 x	Symmetrical lift mechanism Incl. pre-mounted system screws

1		Lift mechanism set
Fixing with chipboard screws with positioning system		
	KH (mm)	
	300–389	22L2200
	390–580	22L2500
KH Cabinet height		
Consisting of:		
1	2 x	Symmetrical lift mechanism Incl. positioning system
-	8 x	Chipboard screws Ø 4 x 35 mm

	2			Lever arm set
	Colour		Material	
	NI		Steel	
	KH (mm)	FG (kg)		
	300–339	1.50–9.00	22L3200	
	340–389	1.75–10.00	22L3500	
	390–540	2.00–12.25	22L3800	
	480–580	2.50–14.00	22L3900	
FG Front weight including handle weight				
KH Cabinet height				
Consisting of:				
2a	2 x	Symmetrical lever arm		
2b	2 x	Cross stabiliser cover cap		
2c	1 x	Adapter for cross stabiliser rod		
2d	1 x	Length adapter for cross stabiliser		

Ordering information

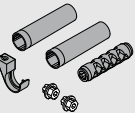
3		Cover cap set	
		Colour	Material
		SW, HGR, TGR	K
			22.8000
Consisting of:			
-	1 x	Cover cap left	
3b	1 x	Cover cap right	
3c	2 x	Branding element, embossed with Blum logo	
		IN-G	

3		Cover cap set for SERVO-DRIVE	
		Colour	Material
		SW, HGR, TGR	K
			23.8000
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	

4		Front fixing bracket set	
		Version	Fixing method
		Wooden fronts and wide aluminium frames	Screw-on ¹
		Narrow aluminium frames	Screw-on ²
			20S4200
			20S4200A
Consisting of:			
4	2 x	Front fixing bracket	
¹ Use 4 chipboard screws (609.1x00) per side for wooden fronts. Use 4 countersunk self-tapping screws (660.0950) per side for wide aluminium frames.			
² Incl. 8 x countersunk self-tapping screws – 660.0950			

-		Front fixing bracket	
		Version	Fixing method
		Thin fronts	EXPANDO T 2 x
		Wooden fronts	EXPANDO 2 x
			20S42T1
			20S42E1
EXPANDO T suitable for thin fronts – see page 54			

5		Cross stabiliser	
		Length (mm)	
		1076	22Q1076U
For cutting to size			
Cutting	Internal cabinet width LW - 113 mm		

-		Connecting piece set for cross stabiliser	
		Recommended from an internal cabinet width 1190 mm or a cabinet width 1228 mm	
		Material	
		Zinc	22Q080Z

Consisting of:			
2b	2 x	Cross stabiliser cover cap	
2c	2 x	Adapter for cross stabiliser rod	
-	1 x	Connecting piece for cross stabiliser	
-	1 x	Cross stabiliser fixing	
Cutting for 5	Internal cabinet width LW/2 - 105 mm		

6		SERVO-DRIVE set	
		Colour	Material
		RL037	K
			23.A000
Consisting of:			
6a	1 x	Drive unit	
6b	1 x	SERVO-DRIVE distribution cable, 1500 mm	
6c	1 x	Connecting node	
6d	2 x	Cable end protector	
For three lift mechanisms or more, we recommend two synchronised drive units			

7		SERVO-DRIVE power supply unit and accessories
See page 56		

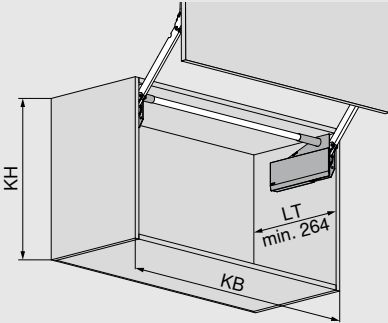
Optional

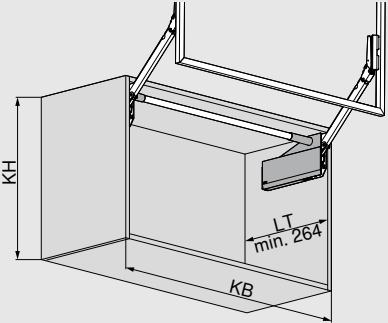
3c		Branding element	
		Material	Nylon
			MOQ
		Customised, printed branding element	From 1000pcs.
		Customised, embossed branding element	From 5000pcs.

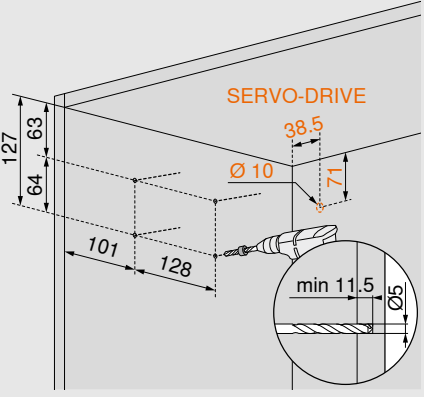
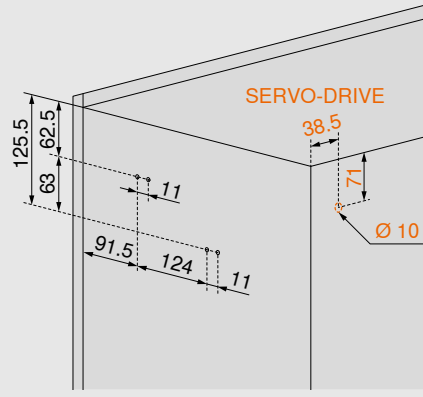
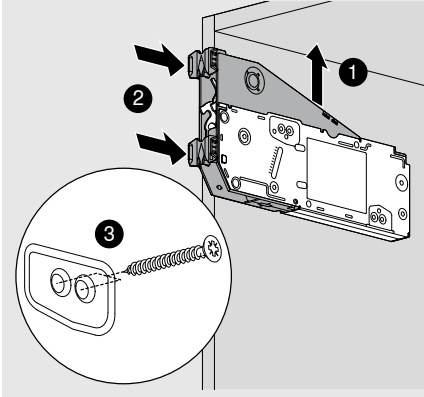
Colours and material

Name	
SW	Silk white
HGR	Light grey
TGR	Dark grey
IN-G	In-mould brushed stainless steel
K	Nylon

Planning

Wooden fronts and wide aluminium frames

KB Cabinet width
KH Cabinet height
LT Internal cabinet depth

Narrow aluminium frames

KB Cabinet width
KH Cabinet height
LT Internal cabinet depth

Drilling position
System screws

Chipboard screws incl. positioning system



Space requirement

Lever arm set	LH min. (mm) ¹
22L3200	255
22L3500	295
22L3800	345
22L3900	399

¹ Dimensions based on lower gap F = 0 mm

LH Internal cabinet height

Front setting

Lever arm set	a (mm)	b (mm) ¹	c (mm)	Y (mm) ²
22L3200	112	272.5	155.5	272.5
22L3500	140.5	340	195	340
22L3800	176	425	245	425
22L3900	214.5	517	297.5	517

¹ Dimensions based on lower gap F = 0 mm

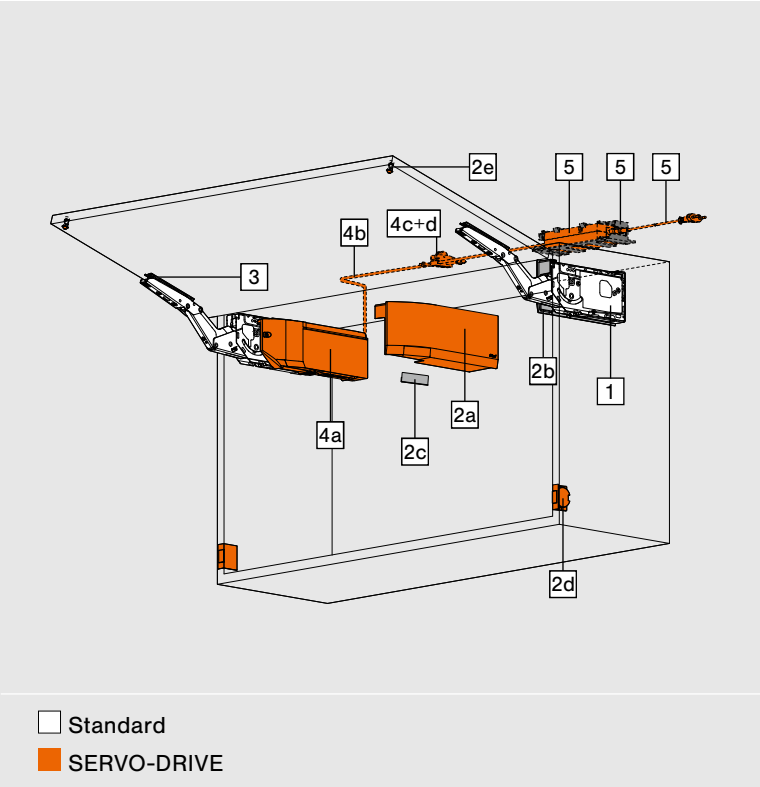
² Dimensions based on top gap F = 0 mm

KH Cabinet height

AVENTOS HK top



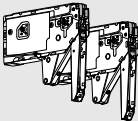
Standard and SERVO-DRIVE

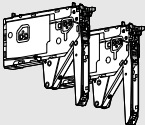


- Ideal for small applications in wall cabinets, tall cabinets and over the refrigerator
- Cabinet height 205-600 mm
- Cabinet width up to 1800 mm
- Soft and effortless closing thanks to BLUMOTION
- SERVO-DRIVE electrical motion support system
- Light operating forces
- Harmonious quality of motion with a variable stop
- Tool-free assembly
- Standardised position of the lift mechanism and front fixing bracket
- Symmetrical lift mechanism
- 3-dimensional front adjustment
- Simple, infinitely variable adjustment of the lift mechanism
- No hinges required
- Integrated safety mechanism
- Integrated infinitely variable opening angle stop

Ordering information

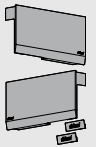
Note	
Power factor (LF) = cabinet height (KH) [mm] x front weight incl. double handle weight [kg]	
We recommend the more powerful lift mechanism for applications in overlapping ranges. A trial application is recommended when you are in a borderline area of the individual lift mechanism.	
The power factor (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.	

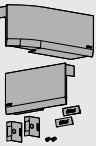
1		Lift mechanism set	
	Fixing with pre-mounted system screws		
	LF	OW	
	420–1610	75°– 107°	22K2310
	930–2800	75°– 107°	22K2510
	1730–5200	75°– 107°	22K2710
	3200–9000	75°– 107°	22K2910
Max. front weight 18 kg if using two lift mechanisms.			
LF Power factor			
OW Opening angle (infinitely variable adjustment)			
Consisting of:			
1	2 x	Symmetrical lift mechanism	
		Incl. pre-mounted system screws	

1		Lift mechanism set	
		Fixing with chipboard screws with positioning system	
LF		OW	
420–1610		75°– 107°	22K2300
930–2800		75°– 107°	22K2500
1730–5200		75°– 107°	22K2700
3200–9000		75°– 107°	22K2900
Max. front weight 18 kg if using two lift mechanisms.			
LF Power factor			
OW Opening angle (infinitely variable adjustment)			
Consisting of:			
1	2 x	Symmetrical lift mechanism	
		Incl. positioning system	
-	8 x	Chipboard screws Ø 4 x 35 mm	

Standard and SERVO-DRIVE

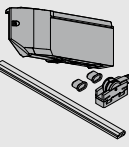
Ordering information

2		Cover cap set		
		Colour	Material	
		SW, HGR, TGR	K	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		Cover cap set for SERVO-DRIVE		
		Colour	Material	
		SW, HGR, TGR	K	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		Front fixing bracket set		
		Version	Fixing method	
		Wooden fronts and wide aluminium frames	Screw-on ¹	20S4200
		Narrow aluminium frames	Screw-on ²	20S4200A
Consisting of:				
3	2 x	Front fixing bracket		
¹ Use 4 chipboard screws (609.1x00) per side for wooden fronts. Use 4 countersunk self-tapping screws (660.0950) per side for wide aluminium frames.				
² Incl. 8 x countersunk self-tapping screws – 660.0950				

-		Front fixing bracket		
		Version	Fixing method	
		Thin fronts	EXPANDO T 2 x	20S42T1
		Wooden fronts	EXPANDO 2 x	20S42E1
EXPANDO T suitable for thin fronts – see page 54				

4		SERVO-DRIVE set		
		Colour	Material	
		TGR	K	23KA000
Consisting of:				
4a	1 x	SERVO-DRIVE drive unit		
4b	1 x	SERVO-DRIVE distribution cable, 1500 mm		
4c	1 x	Connecting node		
-	2 x	Cable end protector		
For three lift mechanisms or more, we recommend two synchronised drive units				
5		SERVO-DRIVE power supply unit and accessories		
See page 56				

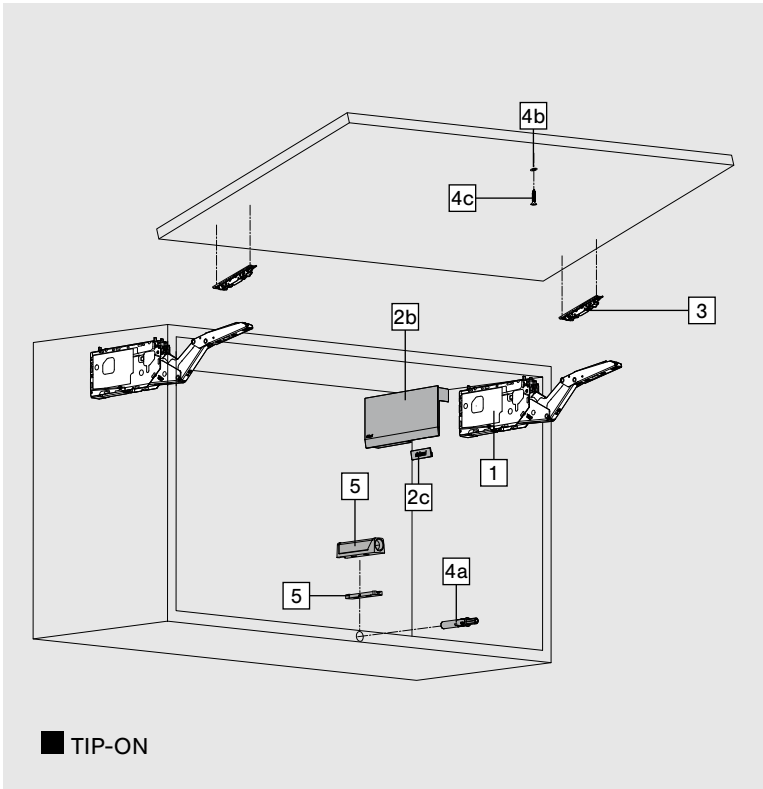
Optional

-		Branding element		
		Material	Nylon	
			MOQ	
		Customised, printed branding element	From 1000pcs.	☎
		Customised, embossed branding element	From 5000pcs.	☎

Colours and material

Name	
SW	Silk white
HGR	Light grey
TGR	Dark grey
IN-G	In-mould brushed stainless steel
K	Nylon

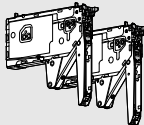
TIP-ON



- Ideal for small applications in wall cabinets, tall cabinets and over the refrigerator
- Cabinet height 205-600 mm
- Cabinet width up to 1800 mm
- Light operating forces
- Harmonious quality of motion with a variable stop
- Tool-free assembly
- Standardised position of the lift mechanism and front fixing bracket
- Symmetrical lift mechanism
- 3-dimensional front adjustment
- Simple, infinitely variable adjustment of the lift mechanism
- No hinges required
- Integrated safety mechanism
- Integrated infinitely variable opening angle stop
- TIP-ON for handle-less stay lifts
- For drilling or in combination with adapter plates

Ordering information

Note
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. A trial application is recommended when you are in a borderline area of the individual lift mechanism.
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.

1		Lift mechanism set for TIP-ON		
		Fixing with chipboard screws with positioning system		
		LF	OW	
		420–1610	75°-107°	22K2300T
		930–2800	75°-107°	22K2500T
		1730–5200	75°-100°	22K2700T
		3200–9000	75°-100°	22K2900T
Max. front weight 18 kg if using two lift mechanisms.				
LF Power factor				
OW Opening angle (infinitely variable adjustment)				
Consisting of:				
1	2 x	Symmetrical lift mechanism incl. positioning system		
-	8 x	Chipboard screws Ø 4 x 35 mm		

TIP-ON

Ordering information

2		Cover cap set		
		Colour	Material	
		SW, HGR, TGR	K	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	Fixing method	
		Wooden fronts and wide aluminium frames	Screw-on ¹	20S4200
		Narrow aluminium frames	Screw-on ²	20S4200A
Consisting of:				
3	2 x	Front fixing bracket		

¹ Use 4 chipboard screws (609.1x00) per side for wooden fronts. Use 4 countersunk self-tapping screws (660.0950) per side for wide aluminium frames.

² Incl. 8 x countersunk self-tapping screws – 660.0950

-		Front fixing bracket		
		Version	Fixing method	
		Thin fronts	EXPANDO T 2 x	20S42T1
		Wooden fronts	EXPANDO 2 x	20S42E1

EXPANDO T suitable for thin fronts – see page 54

4		TIP-ON set		
		Colour	KH (mm)	
		SW, CS	Up to 600	
		Version		
		Short version		956.1004

KH Cabinet height

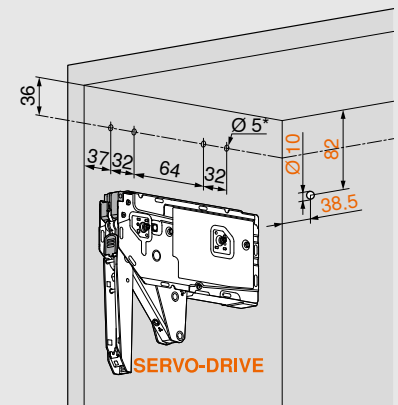
Consisting of:				
4a	1 x	TIP-ON 956. – short version with magnet		
4b	1 x	Screw-on catch plate		
4c	1 x	Chipboard screws Ø 3.5 x 15 mm, part no. 609.1500		
-	1 x	Glue-on catch plate		
		Not suitable for powder-coated, waxed or oiled surfaces		

Standard, SERVO-DRIVE and TIP-ON

Planning

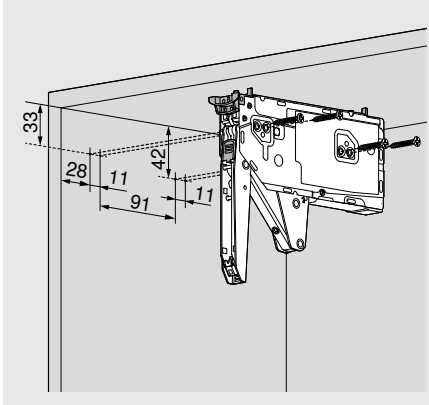
Drilling position

System screws

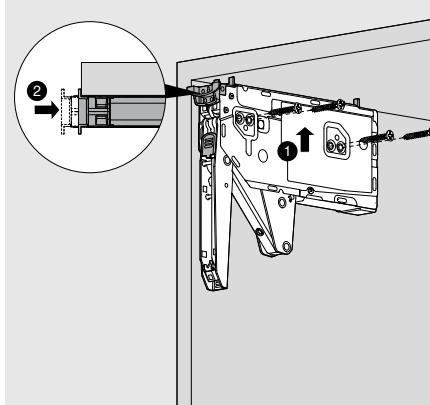


* Drilling depth 11.5 mm

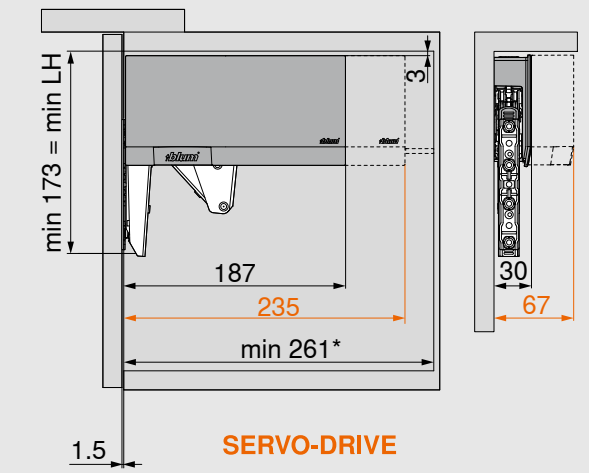
Chipboard screws incl. positioning system



4 x chipboard screws Ø 4 x 35 mm



Space requirement

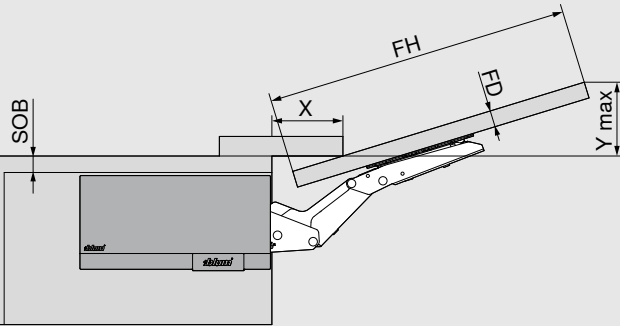


* Min. 261 mm with visible wall hanging bracket

Note: Cabinet height max. 600 mm

LH Internal cabinet height

Space requirement – cornice | crown moulding



Space requirement (mm)

At max. opening angle

$Y = FH \times 0.29 + FD - SOB$

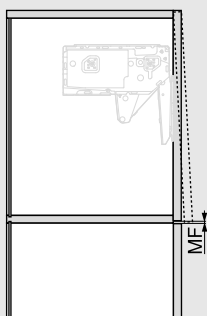
FD (mm)	16	19	22	26	28
X (mm)	68	57	47	33	27

SOB Top panel thickness

FD Front thickness

FH Front height

Minimum gap



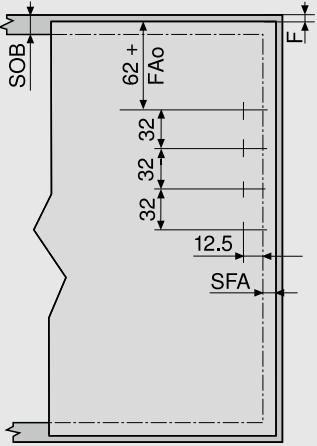
Minimum gap MF is 2 mm

Standard, SERVO-DRIVE and TIP-ON

Planning

Front assembly

Wooden fronts and wide aluminium frames



FAo

Max. 25.4 mm

FAo

Upper front overlay

SOB

Top panel thickness

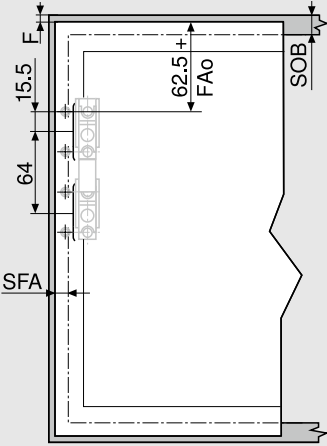
SFA

Side front overlay

F

Gap

Narrow aluminium frames



FAo

Max. 25.4 mm

FAo

Upper front overlay

SOB

Top panel thickness

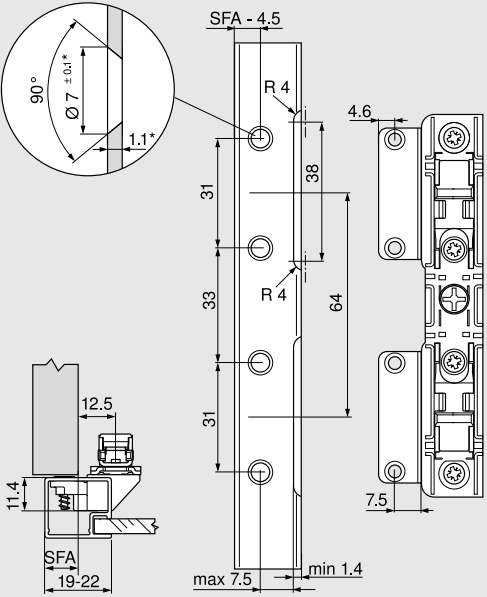
SFA

Side front overlay

F

Gap

Narrow aluminium 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

Further planning information for TIP-ON – see page 52



Find more information on assembly and adjustment of AVENTOS HK top at

www.blum.com/hktopassembly

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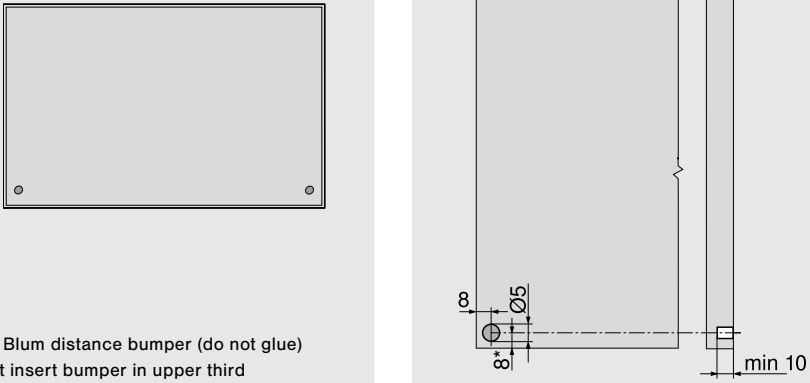
AVENTOS HK top



SERVO-DRIVE for AVENTOS HK top

Planning

Blum distance bumper (SERVO-DRIVE application only)



Insert Blum distance bumper (do not glue)

Do not insert bumper in upper third

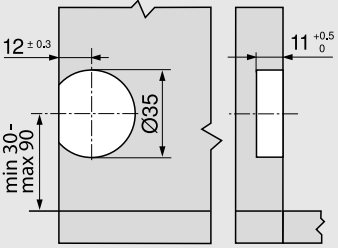
Recommendation for aluminium frames

Consider drilling the Blum distance bumper in the cabinet side

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

* From cabinet bottom edge for fronts that protrude below

SERVO-DRIVE switch

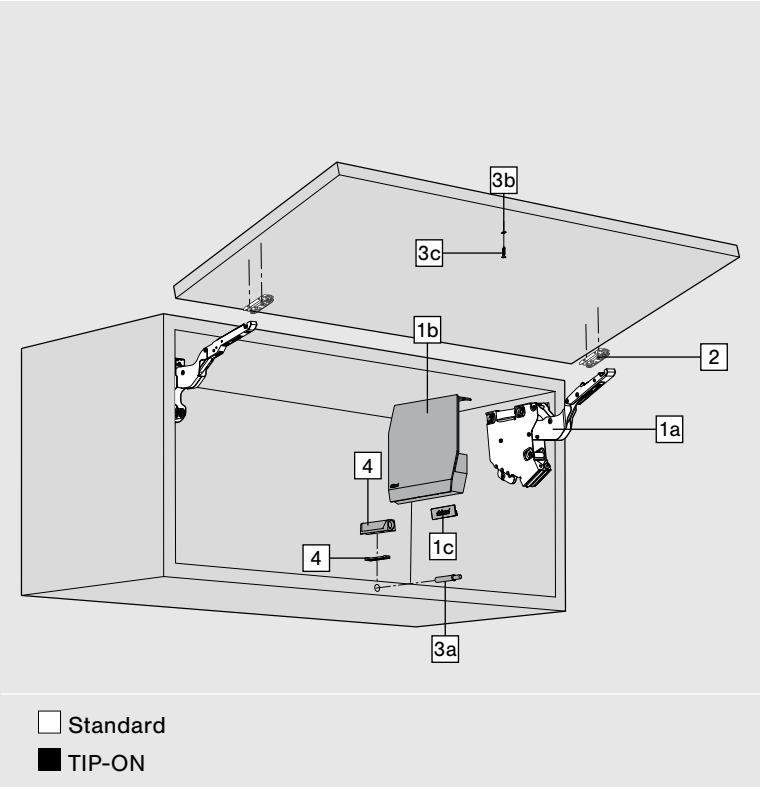


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AVENTOS HK-S



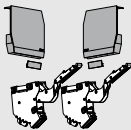
Standard and TIP-ON

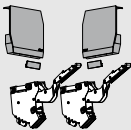


- Ideal for small applications in wall cabinets, tall cabinets and over the refrigerator
- Cabinet height max. 600 mm
- Soft and effortless closing thanks to BLUMOTION
- Light operating forces
- Harmonious quality of motion with a variable stop
- Tool-free assembly
- 3-dimensional front adjustment
-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

Ordering information

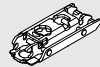
Note
Power factor (LF) = cabinet height (KH) [mm] x front weight incl. double handle weight [kg]
We recommend the more powerful lift mechanism for applications in overlapping ranges. A trial application is recommended when you are in a borderline area of the individual lift mechanism.
The power factor (LF) can be increased by 50% if you use a third lift mechanism.

1		Lift mechanism set		
	LF	OW		
	220–500	107°	¹	20K2B00.06
	400–1000	107°		20K2C00.06
	960–2215	107°		20K2E00.06
¹ One lift mechanism is unsprung				
LF Power factor				
OW Opening angle (infinitely variable adjustment)				
Consisting of:				
1a	2 x	Symmetrical lift mechanism		
1b	2 x	Cover cap 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°		1 20K2B00T06
	400–1000		107°		20K2C00T06
	960–2215		107°		20K2E00T06
1 One lift mechanism is unsprung					
LF Power factor					
OW Opening angle (infinitely variable adjustment)					
Consisting of:					
1a	2 x	Symmetrical lift mechanism			
1b	2 x	Cover cap left/right			
		SW			
1c	2 x	Branding element, embossed with Blum logo			
		IN-G			
-	6 x	Chipboard screw Ø 4 x 35 mm			

Standard and TIP-ON

Ordering information

2		Front fixing bracket		
	Version	Fixing method		
	Wooden fronts and wide aluminium frames	Screw-on	2 x	175H3100
	Wooden fronts	EXPANDO	2 x	177H3100E
		Knock-in	2 x	177H3100

Spacing 0 mm
All horizontal steel mounting plates with 0 mm spacing possible
¹ Use 2 chipboard screws (609.1x00) per side for wooden fronts. Use 2 countersunk self-tapping screws (660.0950) per side for wide aluminium frames.

3		TIP-ON set		
	Colour	KH (mm)		
	SW, CS	Up to 600		
	Version			
	Short version			956.1004

KH Cabinet height				
Consisting of:				
3a	1 x	TIP-ON 956. – short version with magnet		
3b	1 x	Screw-on catch plate		
3c	1 x	Chipboard screws Ø 3.5 x 15 mm, part no. 609.1500		
-	1 x	Glue-on catch plate Not suitable for powder-coated, waxed or oiled surfaces		

Accessories

4		Adapter plate		
	Version	Colour		
	Straight adapter plate – short version	SW, CS	956.1201	

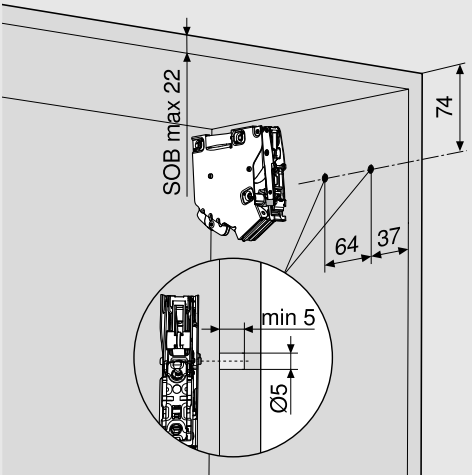
-		Opening angle stop		
	Opening angle	Colour		
	100°	TGR	20K7A41	
	75°	R7037	20K7A11	

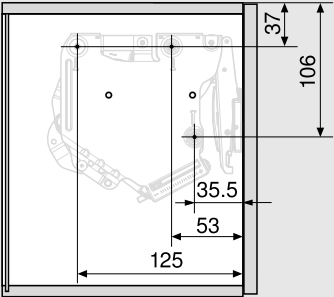
Optional			
1c		Branding element	
	Material	Nylon	
		MOQ	
Customised, printed branding element		From 1000pcs.	
Customised, embossed branding element		From 5000pcs.	

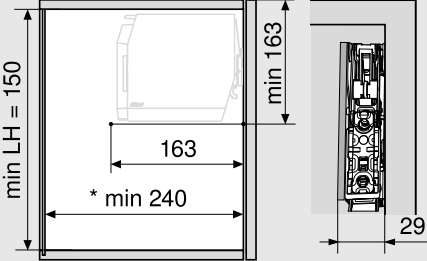
Colours and material	
Name	
SW	Silk white
TGR	Dark grey
R7037	RAL 7037 dust grey
CS	Carbon black
IN-G	In-mould brushed stainless steel
K	Nylon

Standard and TIP-ON

Planning

Peg position

SOB Top panel thickness

Fixing position

3 x chipboard screws Ø 4 x 35 mm

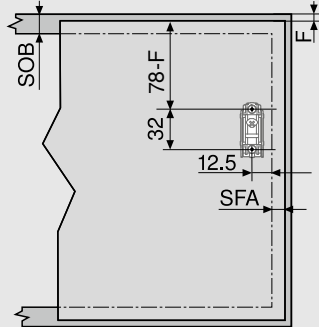
Space requirement

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

Standard and TIP-ON

Planning

Front assembly

Wooden fronts and wide aluminium frames



SOB

Top panel thickness

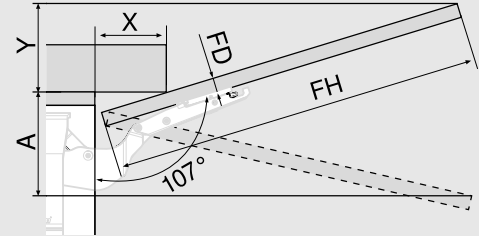
SFA

Side front overlay

F

Gap

Space requirement – cornice | crown moulding

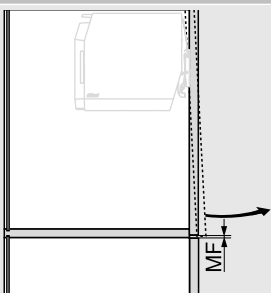


Opening angle stop		Space requirement (mm)			
Unsprung		$Y = FH \times 0.29 - 15 + FD$			
100°		$Y = FH \times 0.17 - 15 + FD$			
75°		$A = FH \times 0.26 + 15 - FD$			
FD (mm)	1619	22	26	-	
X (mm)	7059	49	35	-	
FD Front thickness					
FH Front height					

Standard and TIP-ON

Planning

Minimum gap



Minimum gap MF is 2 mm

Further planning information for TIP-ON – see page 52

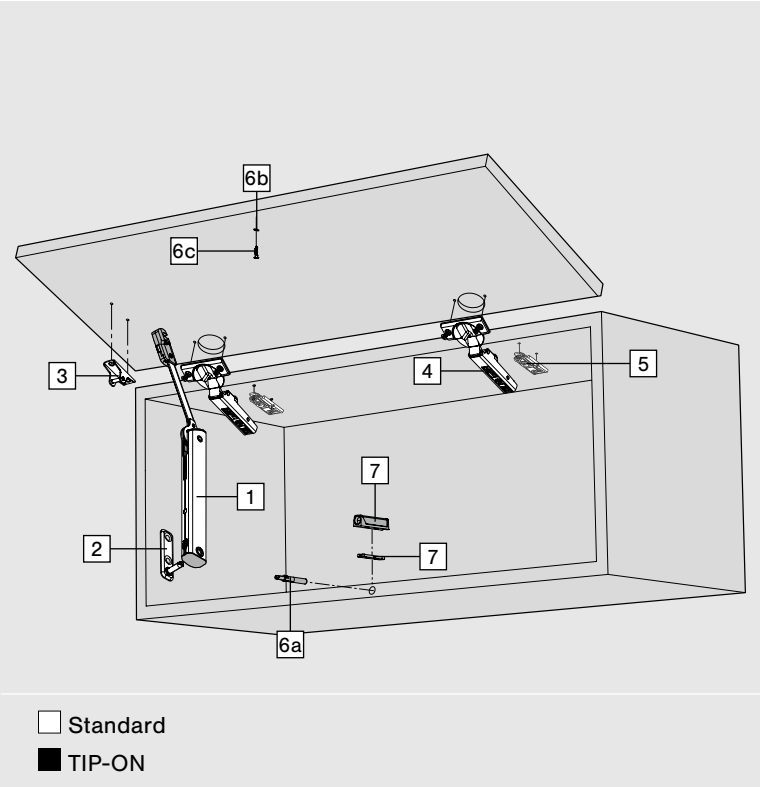


Find more information on assembly and adjustment of AVENTOS HK-S at www.blum.com/aventos-hks-assembly

AVENTOS HK-XS



Standard and TIP-ON



- Ideal for small applications in wall cabinets, tall cabinets and over the refrigerator
- Cabinet height 240-600 mm
- Internal cabinet depth min. 125 mm
- Symmetrical lift mechanism, can be used on one or both sides
- 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
- Harmonious quality of motion with a variable stop
- Simple, infinitely variable adjustment of the lift mechanism

Ordering information

Note

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

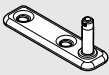
We recommend the more powerful lift mechanism for applications in overlapping ranges.
A trial application is recommended when you are in a borderline area of the individual lift mechanism.

1		Lift mechanism		
		LF	OW	
		200–1000	105°	20K1101
		500–1500	105°	20K1301
		800–1800	105°	20K1501
The power factor LF is doubled when used on two sides				
¹ For hinges with smaller opening angles, the opening angle will depend on the hinge used				
LF Power factor				
OW Opening angle (infinitely variable adjustment)				

1		Lift mechanism for TIP-ON		
	LF	OW		
	180–800	105°	20K1101T	
	500–1200	105°	20K1301T	
	800–1600	105°	20K1501T	
The power factor LF is doubled when used on two sides				
¹ For hinges with smaller opening angles, the opening angle will depend on the hinge used				
LF Power factor				
OW Opening angle (infinitely variable adjustment)				

Standard and TIP-ON

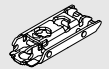
Ordering information

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

3 	Front fixing bracket		
	Version	Fixing method	
	Wooden fronts and wide aluminium frames	Screw-on ¹	20K4101
	Wooden fronts	EXPANDO	20K41E1

4 	CLIP top BLUMOTION 110° hinge		
	Boss	Spring	
	INSERTA	With spring	71B3590
	Screw-on ¹	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 hinges			

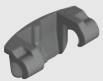
4 	CLIP top 110° hinge		
	Boss	Spring	
	INSERTA	Unsprung	70T3590.TL
	Screw-on ¹	Unsprung	70T3550.TL
3 hinges starting at cabinet width KB 900 mm and/or power factor LF 1800			
4 hinges with cabinet width KB 1200 mm and/or starting at power factor LF 2700			
Alternative			
CLIP top hinges : profile/thick door 95°			

5 	Mounting plate		
	Fixing method	Spacing (mm)	
	Screw-on ¹	0	175H3100
	EXPANDO	0	177H3100E
Standard mounting plates, spacing depends on the top gap			

6 	TIP-ON set		
	Colour	KH (mm)	
	SW, CS	Up to 600	
	Version		
	Short version		956.1004
KH Cabinet height			
Consisting of:			
6a	1 x	TIP-ON 956. – short version with magnet	
6b	1 x	Screw-on catch plate	
6c	1 x	Chipboard screws Ø 3.5 x 15 mm, part no. 609.1500	
-	1 x	Glue-on catch plate Not suitable for powder-coated, waxed or oiled surfaces	

Accessories

7 	Adapter plate		
	Version	Colour	
	Straight adapter plate – short version	SW, CS	956.1201

- 	Opening angle stop		
	Opening angle	Colour	
	86°	S	70T3553
For CLIP top BLUMOTION 110° CLIP top 110° hinge			

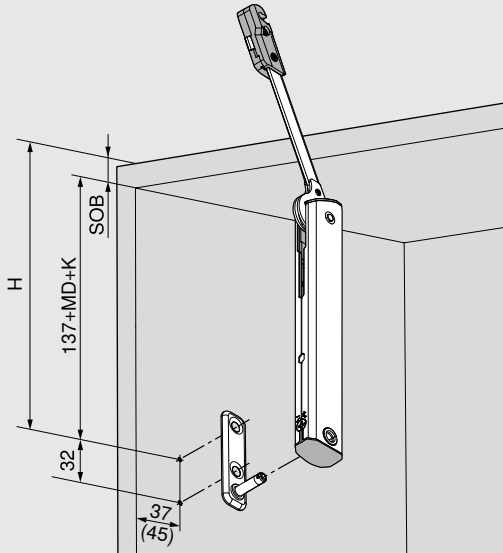
Colours and material

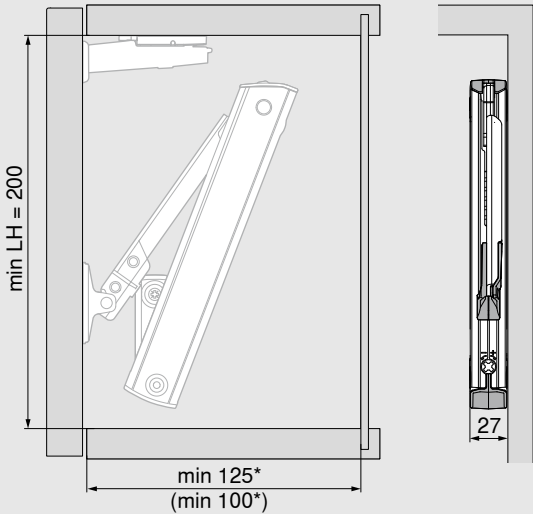
Name	
SW	Silk white
S	Black
CS	Carbon black
NI-L	Nickel lacquered

¹ Use 2 chipboard screws (609.1x00) per side for wooden fronts.
Use 2 countersunk self-tapping screws (660.0950) per side for wide aluminium frames.

Standard and TIP-ON

Planning

Drilling position

H = 137 + MD + K + SOB
MD Mounting plate spacing
K Cranking of hinge arm
Straight hinge arm 0 mm
Cranked hinge arm 9.5 mm
Double cranked arm 18 mm
SOB Top panel thickness
(I) Internal cabinet depth 100 mm

Space requirement

LH Internal cabinet height
* Min. 200 mm with visible wall hanging bracket
(I) Internal cabinet depth 100 mm

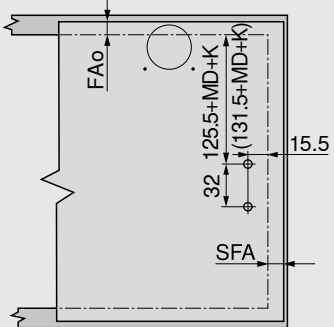
CLIP top BLUMOTION 110° hinge				
Y = (FH - X) x 0.3				
FD (mm)	16	19	22	24
X (mm)	45	34	23	15
FD Front thickness				
FH Front height				

Standard and TIP-ON

Planning

Front assembly

Wooden fronts and wide aluminium frames



FAo

Upper front overlay

SFA

Side front overlay

MD

Mounting plate spacing

K

Cranking of hinge arm

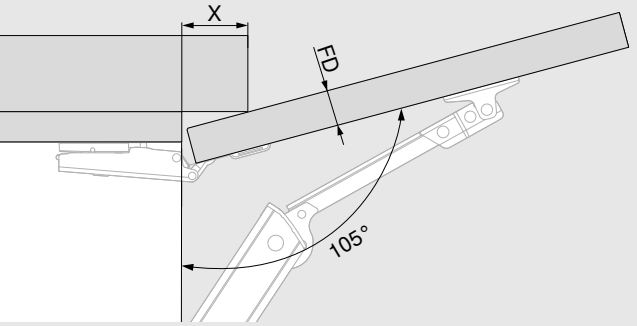
Straight hinge arm 0 mm

Cranked hinge arm 9.5 mm

Double cranked 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

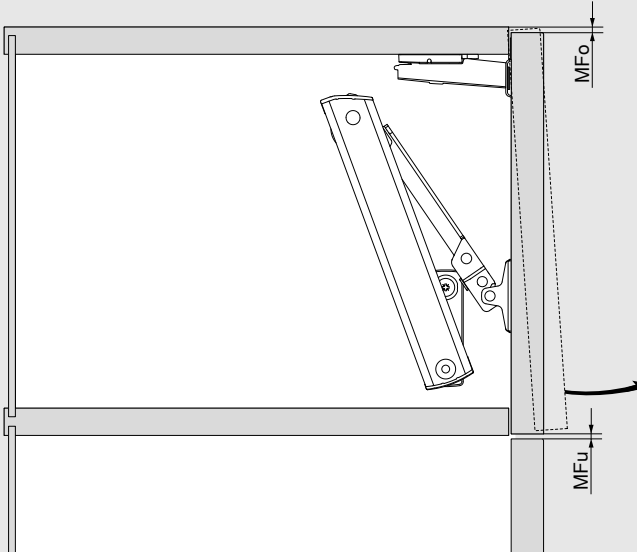
FD

Front height

Standard and TIP-ON

Planning

Minimum gap



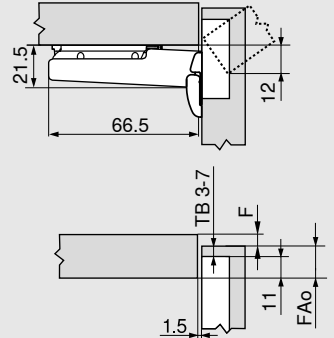
MFo

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

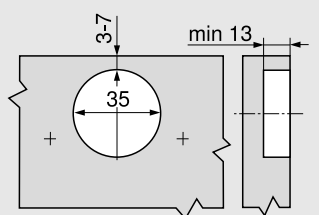
Mounting plate spacing (mm)

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

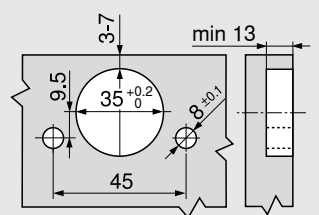


Drilling distance TB (mm)	Front thickness FD (mm)													
	16	18	19	20	21	22	23	24	25	26	28	30		
3	0.5	0.8	1.0	1.2	1.5	1.8	2.2	2.7	3.5	4.3				
4	0.5	0.8	1.0	1.2	1.4	1.7	2.0	2.5	3.1	3.8				
5	0.5	0.8	0.9	1.2	1.4	1.7	2.0	2.4	2.9	3.4				
6	0.5	0.8	0.9	1.2	1.3	1.6	1.9	2.3	2.7	3.2				
7	0.5	0.8	0.9	1.1	1.3	1.6	1.9	2.2	2.6	3.0				
For +2 mm height adjustment, add:														
A trial application is recommended	+0.2	+0.4	+0.4	+0.5	+0.5	+0.5	+0.5	+0.5	+0.5	+0.5				

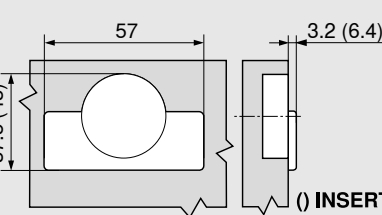
Screw-on assembly



INSERTA | knock-in assembly



Hinge boss dimensions



Further planning information for TIP-ON – see page 52

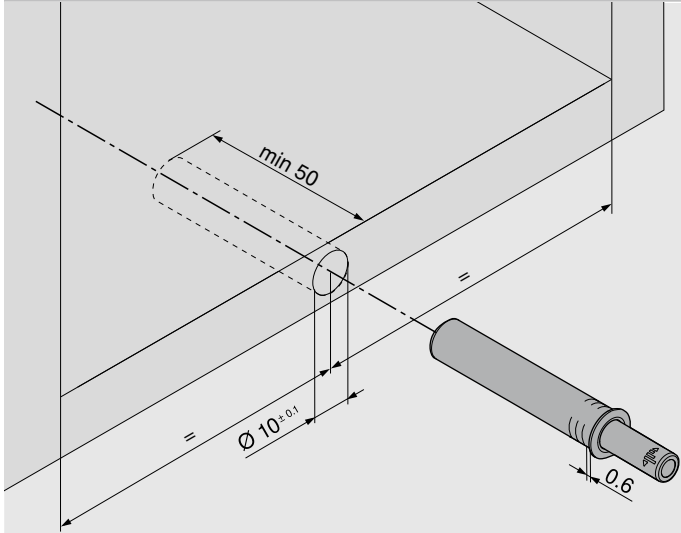


Find more information on assembly and adjustment of AVENTOS HK-XS at www.blum.com/aventos-hkxs-assembly

TIP-ON

Planning

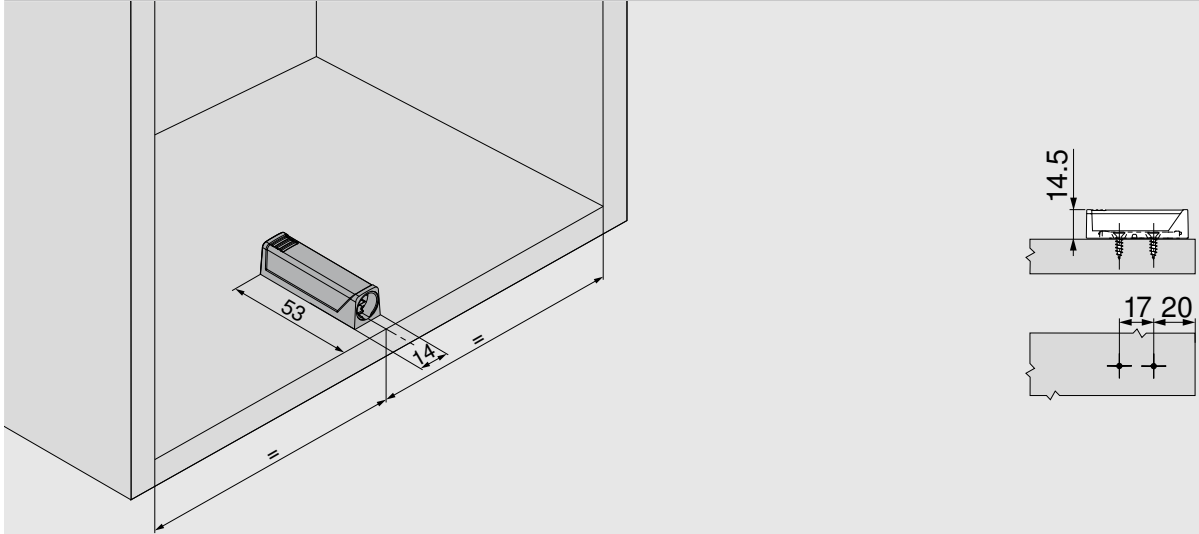
TIP-ON for drilling fixing position



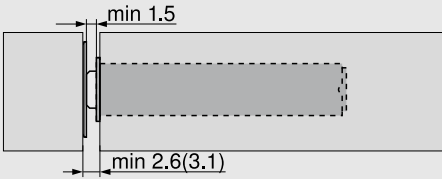
For stay lifts up to and including a height of 600 mm

TIP-ON adapter plate fixing position

Straight adapter plate – short version



Installation dimensions for front gap



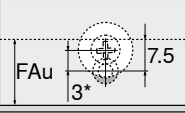
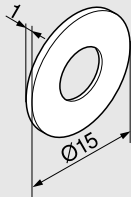
min. 2.6 mm with glue-on catch plate

() min. 3.1 mm with screw-on catch plate

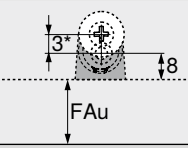
TIP-ON

Planning

Screw-on catch plate planning



For drilling

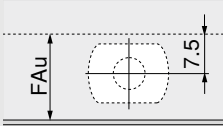
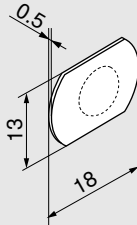


Straight adapter plate

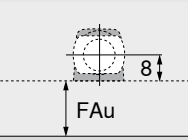
* For the screw-on catch plate we recommend positioning the catch plate 3 mm away from TIP-ON.

FAu Bottom front overlay

Glue-on catch plate planning



For drilling



Straight adapter plate

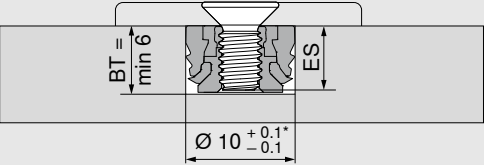
FAu Bottom front overlay

EXPANDO T

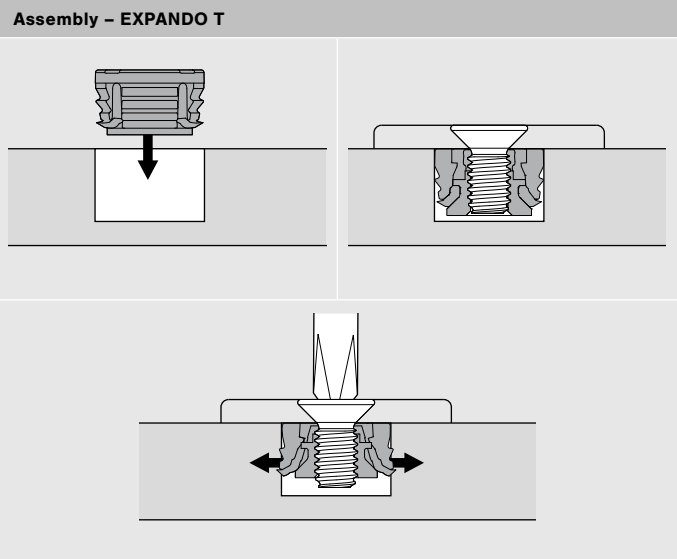


- EXPANDO T – pre-assembled fixing system
- Thin fronts of 8 mm or more
- Different front materials
- 3 different applications – lift systems | hinge systems | box systems

Front fixing bracket for AVENTOS HS top HL top HK top			
	Version	Material	
	Symmetrical	Steel	20S42T1
Fixing positions as per the details in the respective planning information			

Drilling depth Screw selection – EXPANDO T

BT Drilling depth
ES Screw penetration depth
ES Min. 4 mm
ES Max. drilling depth – 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

EXPANDO T – single			
	Colour	Material	
	Dark grey	Nylon/steel	70T4532T



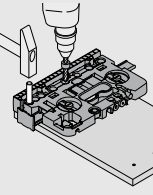
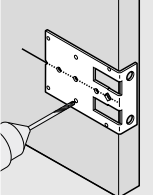
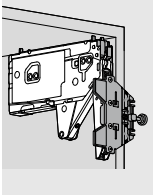
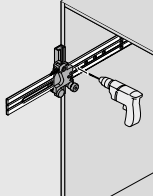
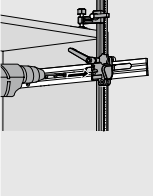
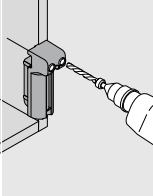
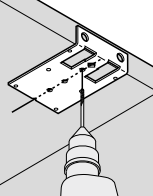
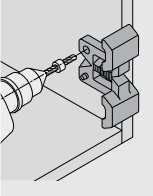
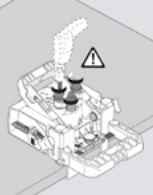
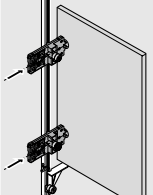
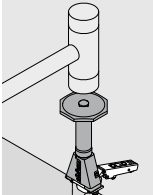
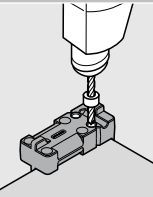
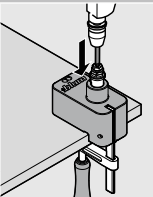
Area of application and assembly recommendation		
EXPANDO T is suitable for fixing Blum fittings to thin cabinet fronts of all types of materials. Front materials can be just 8 mm thick or more, provided they are sufficiently stable and strong.	Materials tested by Blum	Nm
	Chipboard (transverse tensile strength > 0.4 N/mm²)	1.5
	MDF (transverse tensile strength > 0.6 N/mm²)	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		

Limitation 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 assembly be carried out by an experienced furniture manufacturer.



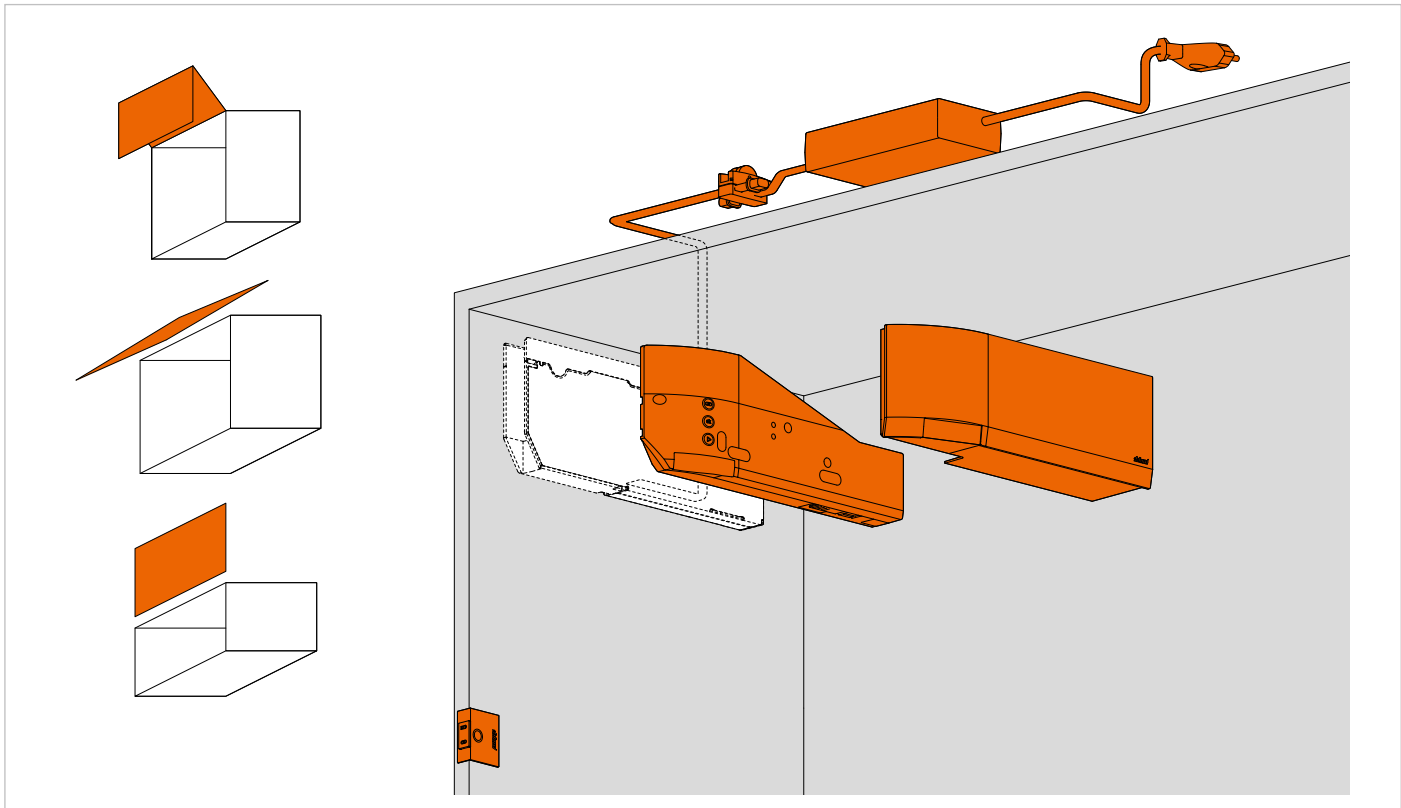
Find more information on assembly and adjustment of EXPANDO T at www.blum.com/expando-t-9

Assembly devices

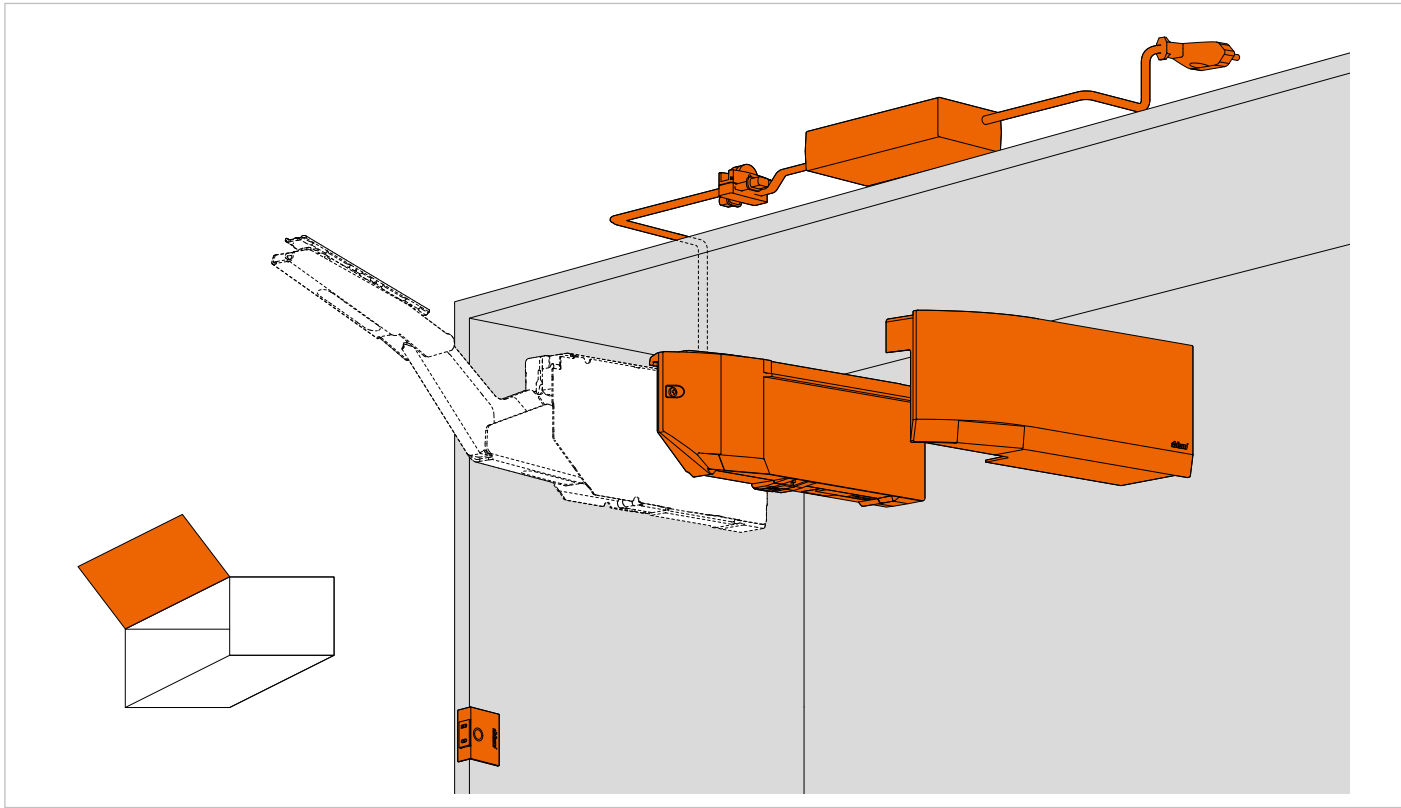
Front assembly					
	Universal drilling template			Angle template	
	ZML.0040.02			65.5300	
				Marking template for AVENTOS HK top front fixing bracket	ZML.2200
Cabinet assembly			Assembly – TIP-ON		
	Universal individual template			Universal rod template	
	65.1051.02			65.1000.01	
				Drilling template for BLUMOTION TIP-ON	65.5010
Assembly – hinge systems					
	Angle template			Drilling template for mounting plates	
	65.5300			65.5070	
	ECODRILL			Drilling template for hinge systems	
	M31.1000.01			65.7500.03	
				Insertion tool for hinges	ZME.0710
Assembly – SERVO-DRIVE					
	Drilling template for Blum distance bumper			Drilling template for the SERVO-DRIVE switch	
	ZML.1090			M31.2000	

SERVO-DRIVE power supply unit and accessories

SERVO-DRIVE for AVENTOS HF top, HS top, HL top

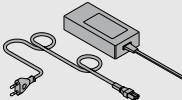


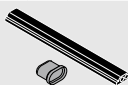
SERVO-DRIVE for AVENTOS HK top



SERVO-DRIVE power supply unit and accessories

Ordering information

1		SERVO-DRIVE power supply unit incl. flex	
			
Markets		Language package	
K		I	Z10NE04KI
Incl. operating and installation instructions			
Consisting of:			
1a	1 x	SERVO-DRIVE power supply unit	
1b	1 x	Flex	
2		Power supply unit housing	
		Panel fixing	
		Colour	Material
		WGR	K
		Z10NG120	
For SERVO-DRIVE power supply unit			

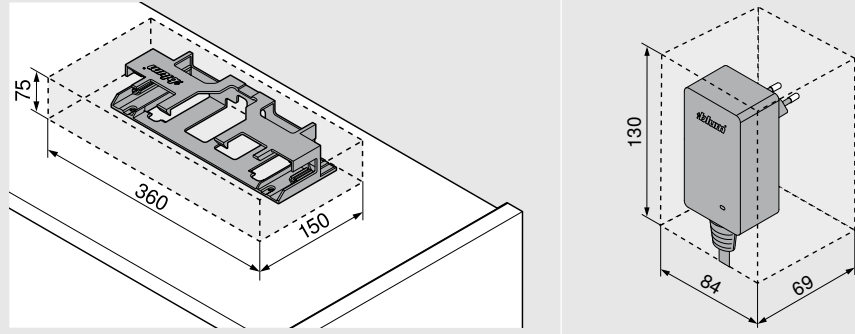
Accessories			
3		SERVO-DRIVE distribution cable and cable end protector	
		Colour	Length (m)
		S	8
Z10K800AE			
Consisting of:			
3a	1 x	SERVO-DRIVE distribution cable	
3b	5 x	Cable end protector	
For cutting to size			
4		Connecting node and cable end protector	
		Colour	Material
		S	K
Z10V100E.01			
Consisting of:			
4a	1 x	Connecting node	
4b	2 x	Cable end protector	
-		Cable holder	
		Colour	Material
		W	K
Z10K0009			
E.g. for fixing the SERVO-DRIVE distribution cable			

Colours and material	
Name	
WGR	White grey
S	Black
W	White
K	Nylon

SERVO-DRIVE power supply unit and accessories

Planning

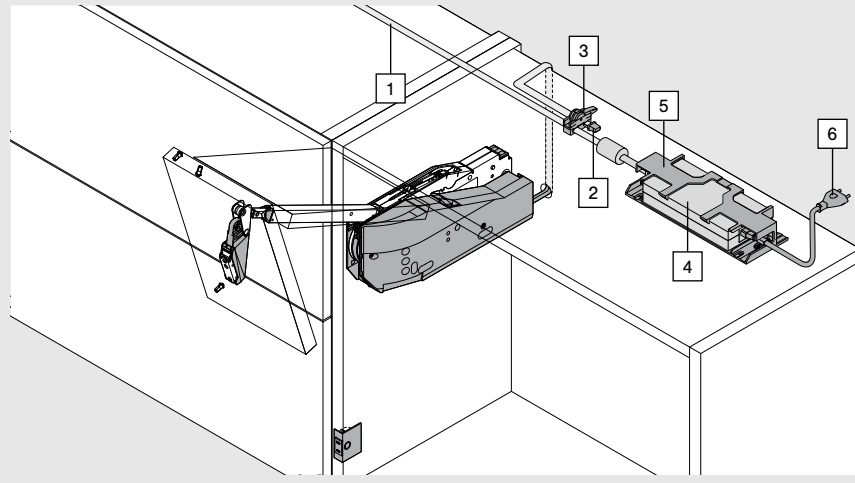
Space requirement and safety distance



i

A safety distance of 30 mm must be maintained for air circulation (see graphic); otherwise, there is a risk that the SERVO-DRIVE power supply unit could overheat.

Assembly on the cabinet top panel



1

SERVO-DRIVE distribution cable

2

Connecting node

3

Cable end protector

4

SERVO-DRIVE power supply unit

5

Power supply unit housing

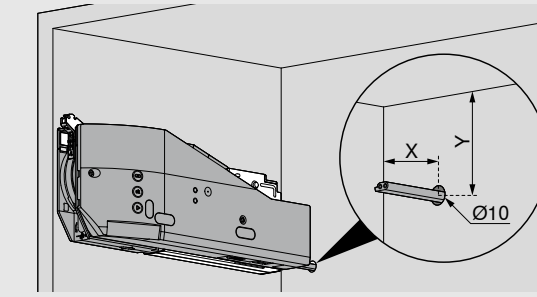
6

Flex

i

Only one SERVO-DRIVE power supply unit can be connected to each SERVO-DRIVE distribution cable!

Back cabling

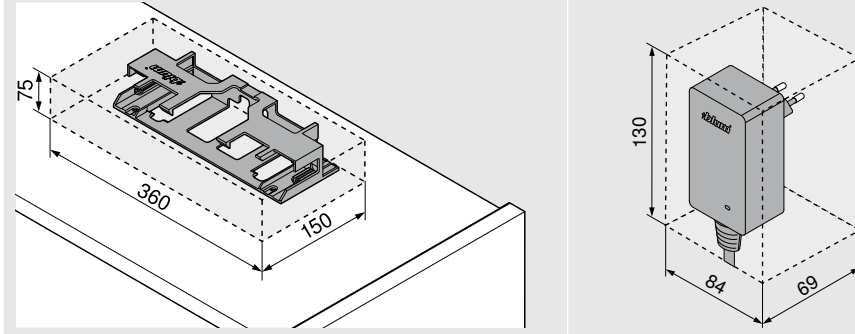


			X (mm)	Y (mm)
AVENTOS HF top	Cabinet height KH (mm)	480–519	38.5	102
AVENTOS HS top		520–1200	38.5	124
AVENTOS HL top			38.5	45
			38.5	71

SERVO-DRIVE power supply unit and accessories

Planning

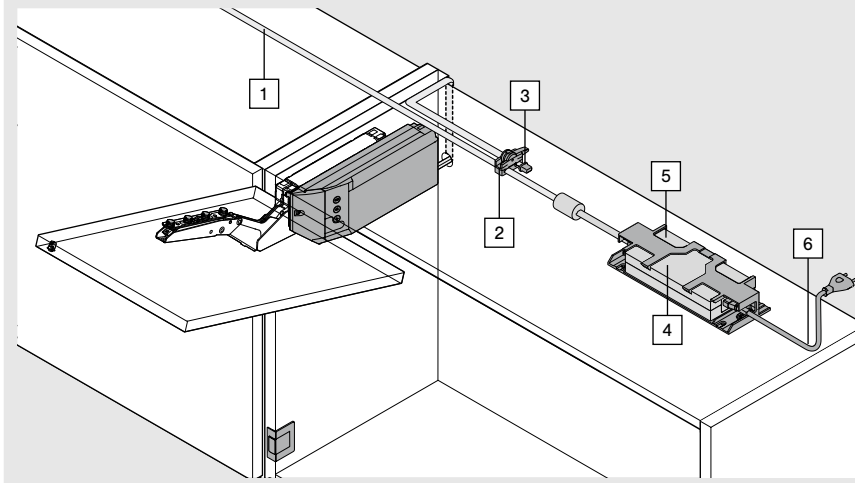
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Assembly on the cabinet top panel



1

SERVO-DRIVE distribution cable

2

Connecting node

3

Cable end protector

4

SERVO-DRIVE power supply unit

5

Power supply unit housing

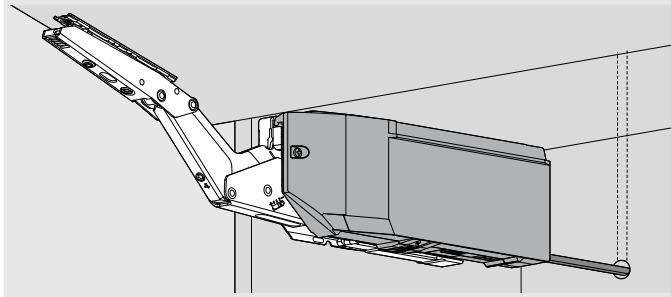
6

Flex

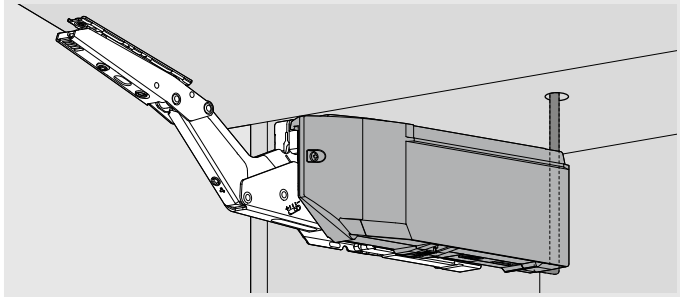
i

Only one SERVO-DRIVE power supply unit can be connected to each SERVO-DRIVE distribution cable!

Back cabling



Top cabling





Find more information on assembly and adjustment of SERVO-DRIVE for AVENTOS top at www.blum.com/servodrive-aventos-assembly

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 **TikTok:**
tiktok.com/@blumaustralia

 **Pinterest:**
pinterest.com/blumaustralia/

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

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

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