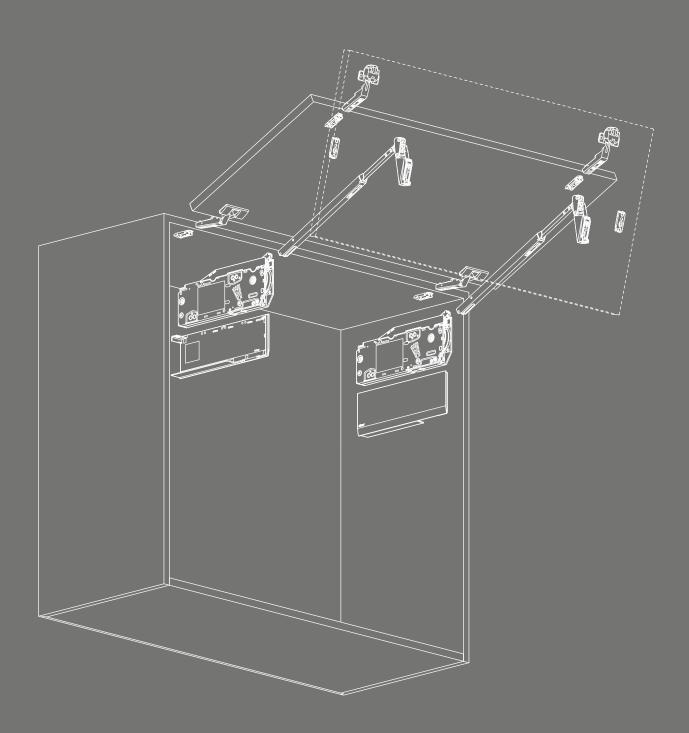
### **AVENTOS top**

### Ordering and planning information





## 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 size, optimised the functions and adapted the design. New AVENTOS top allows you to masterfully stage individual items of furniture 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
- 46 AVENTOS HK-XS
- 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-focussed support



**Logistics services** 

Optimised processes for quick delivery





Find out more about our services:

www.blum.com/services

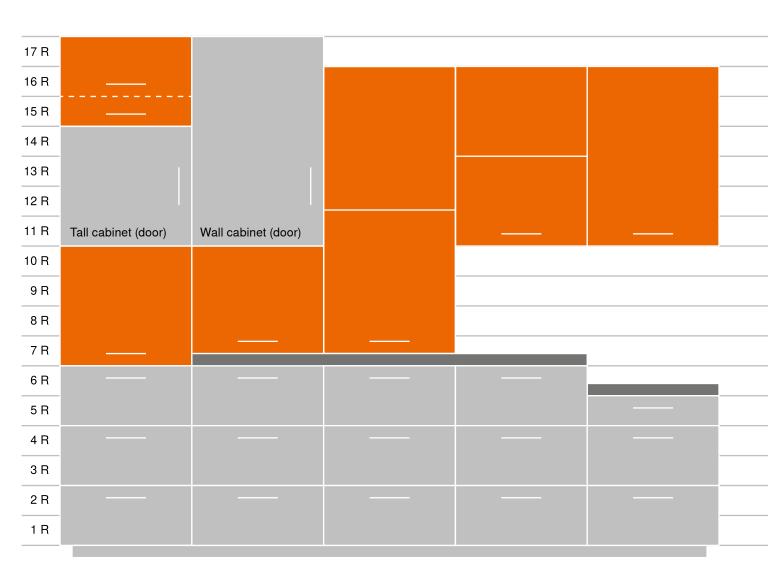
## The right tool for every composition

AVENTOS HK-S AVENTOS HL top AVENTOS HK top AVENTOS HL top

AVENTOS HF top

AVENTOS HF top

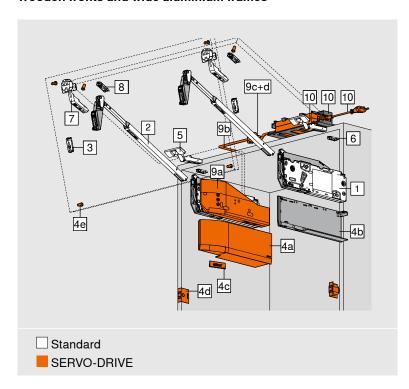
**AVENTOS HS top** 



R = tier system

AVENTOS HF top AVENTOS HS top AVENTOS HS top AVENTOS HS top AVENTOS HK top AVENTOS HK-S AVENTOS HL top **AVENTOS HK-XS** AVENTOS HL top AVENTOS HK top AVENTOS HK top





- 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 setting
- 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

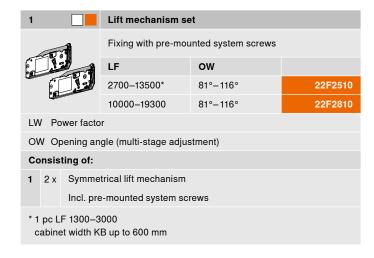
For asymmetrical fronts: theoretical cabinet height TKH = front height top FHo (mm) x 2 + gaps

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

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

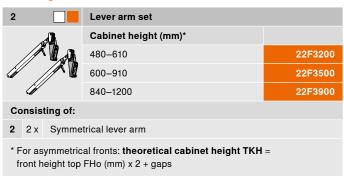
A trial application is recommended when you are in a borderline area of the individual lift mechanism.

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



1			Lift mechanism set			
		<b>A</b>	Fixing with chipboard screws with positioning system			
6	1		LF	ow		
	6		2700-13500*	81°-116°	22F2500	
	To the second		10000-19300	81°-116°	22F2800	
LV	√ Po	wer facto	r			
OV	N Op	ening an	gle (multi-stage adjus	stment)		
Co	nsis	ting of:				
1	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						

### **Ordering information**



3	Mounting plate for lever arm		
	Fixing method	Spacing (mm)	
	Screw-on 1	0	175H3100
	EXPANDO	0	177H3100E
	Knock-in	0	177H3100
			·

All horizontal steel mounting plates with 0 mm spacing possible

<sup>1</sup> 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

4			Cover cap set			
			Colour	Material		
			SW, HGR, TGR	K	22.8000	
Co	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 SER	VO-DRIVE	
			Colour	Material	
			SW, HGR, TGR	K	23.8000
Co	Consisting of:				
4a	1 x	SERVO-DRIVE cover cap left			
4b	1 x	Cover	Cover cap right		
4c	2 x	Branding element, embossed with Blum logo			
		IN-G			
4d	2 x	SERVO	SERVO-DRIVE switch		
4e	6 x	Blum di	stance bumper Ø 5 mm		

5	CLIP top 120° hinge				
	Boss	Spring			
	INSERTA	Unsprung	70T5590BTL		
	Screw-on 1	Unsprung	70T5550.TL		
Boss overlay TO	Boss overlay TO (fixed dimension) 11 mm				
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					
<sup>1</sup> Use chipboard screws (609.1x00) for wooden fronts Use countersunk self-tapping screws (660.0950) for wide aluminium frames					

### Alternative to 5

-	CLIP top 120° special hinge for larger front overlay			
•	Boss	Spring		
	INSERTA	Unsprung	72T5590BTL	
	Screw-on 1	Unsprung	72T5550.TL	
Boss overlay TO (fixed dimension) 13 mm				
3 hinges for cabinet width KB 1200 mm and wider and/or starting at a 12 kg front weight				
4 hinges for cabinet width KB 1800 mm and/or starting at a 20 kg front weight				
<sup>1</sup> Use chipboard screws (609.1x00) for wooden fronts Use countersunk self-tapping screws (660.0950) for wide aluminium frames				

6	Mounting plate for CLIP top 120° hinge			
	Fixing method	Spacing (mm)		
(S)	Screw-on 1	0	175H3100	
	EXPANDO	0	177H3100E	
	Knock-in	0	177H3100	
Standard mounting plates, spacing depends on the upper front overlay				

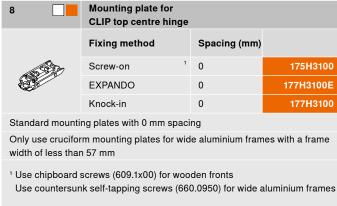
<sup>1</sup> Use chipboard screws (609.1x00) for wooden fronts

Use chipboard screws (609.1x00) for wooden fronts
Use countersunk self-tapping screws (660.0950) for wide aluminium frames

7	CLIP top centre hinge			
d.\	Boss	Spring		
العرائر	Screw-on 1	Unsprung	78Z5500T	
	EXPANDO	Unsprung	78Z553ET	
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				
<sup>1</sup> Use chipboard screws (609.1x00) for wooden fronts Use countersunk self-tapping screws (660.0950) for wide aluminium frames				

### **Ordering information**

See page 56





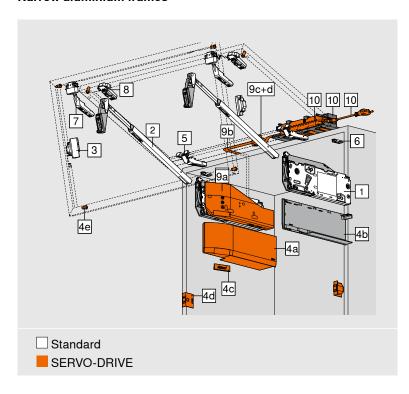
### Optional

4c	Branding element			
(Library)	Material	Col	Colour	
Notice II	K	SW-M, TGR	IN-G	
Printed *	2 x	ABD.1000.BL	ABD.1009.BL	
Embossed *	2 x	ABD.1000.BT	ABD.1009.BT	
Plain	2 x	ABD.1000	ABD.1009	
* With Blum logo				
From 1000 pcs:				
Customised, printed branding element				
From 5000 pcs:				
Customised, embossed branding element				

### Colours and material

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

### 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 BLUMOTION setting
- 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 (LF) can be increased by 50% if you use a third lift mechanism.

1			Lift mechanism set		
			Fixing with pre-mou	inted system screws	
6	1		LF	ow	
Ų.	9		2700-13500*	81°-116°	22F2510
			10000-19300	81°-116°	22F2810
LW	V Po	wer facto	r		
OV	N Op	pening an	gle (multi-stage adjus	stment)	
Co	nsis	ting of:			
1	1 2 x Symmetrical lift mechanism				
		Incl. pre	-mounted system scr	rews	
* 1 pc LF 1300–3000 cabinet width KB up to 600 mm					

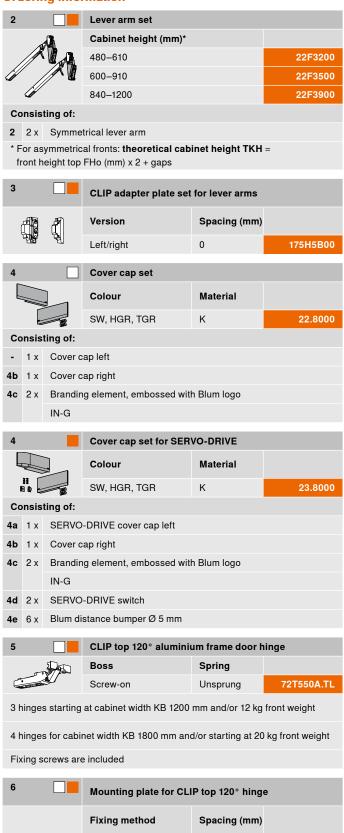
1			Lift mechanism set		
		<b>A</b>	Fixing with chipboard screws with positioning system		
6	1		LF	ow	
-			2700-13500*	81°-116°	22F2500
	Ų.		10000-19300	81°-116°	22F2800
LV	V Po	wer facto	r		
OV	N Op	ening an	gle (multi-stage adjus	stment)	
Co	onsis	ting of:			
1	2 x Symmetrical lift mechanism				
	Incl. positioning system				
-	- 8 x Chipboard screws Ø 4 x 35 mm				
* 1 pc LF 1300–3000 cabinet width KB up to 600 mm					

175H5A00

Spacing (mm)

### Narrow aluminium frames

### **Ordering information**



0

0

Screw-on
EXPANDO

Knock-in

Standard mounting plates, spacing depends on the top gap

7	CLIP top aluminium centre hinge							
Boss Spring								
	Screw-on 1	Unsprung	78 <b>Z</b> 550AT					
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								

9			SERVO-DRIVE set							
Ę			Colour		Material					
	7	<b>*</b>	K	23.A000						
Co	Consisting of:									
9a	1 x	Drive unit								
9b	1 x	SERVO-DRIVE distribution cable, 1500 mm								
9с	1 x	Connec	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.

Version

Fixing screws are included

Symmetrical

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

### Optional

4c	Branding element						
Belleren	Material	Colour					
Nottoring	K	SW-M, TGR	IN-G				
Printed *	2 x	ABD.1000.BL	ABD.1009.BL				
Embossed *	2 x	ABD.1000.BT	ABD.1009.BT				
Plain	2 x	ABD.1000	ABD.1009				
* With Blum logo							
From 1000 pcs:							
Customised, printed branding element							
From 5000 pcs:							
Customised, embossed branding element							

<sup>&</sup>lt;sup>1</sup> Use 2 countersunk self-tapping screws (660.0950) per side for narrow aluminium frames

### Colours and material

175H3100

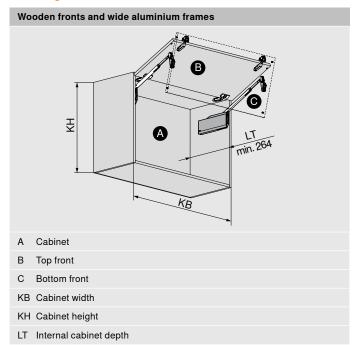
177H3100E

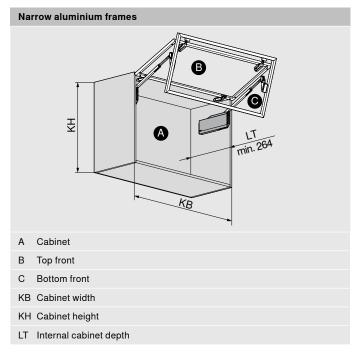
177H3100

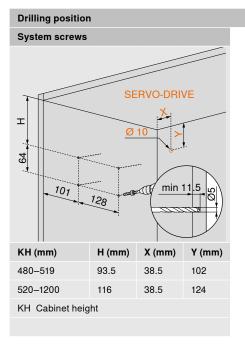
Name			
SW	Silk white	SW-M	Silk white matt
HGR	Light grey	K	Nylon
TGR	Dark grey	IN-G	In-mould brushed stainless steel

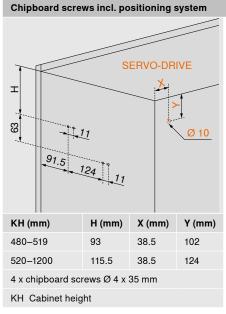
### Wooden fronts, wide and narrow aluminium frames

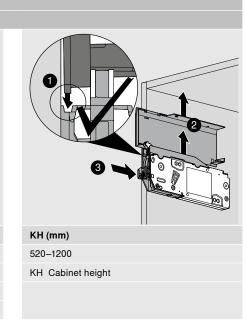
### **Planning**





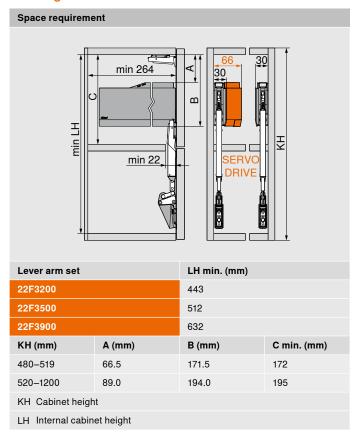


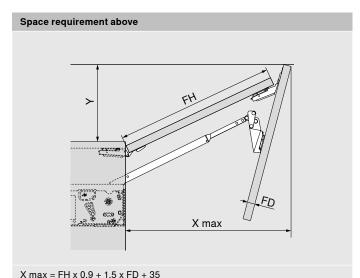




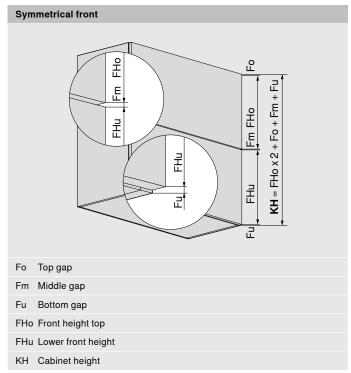
### Wooden fronts, wide and narrow aluminium frames

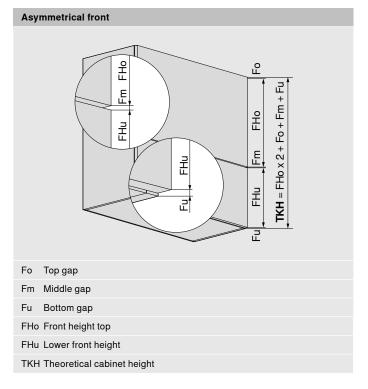
### **Planning**





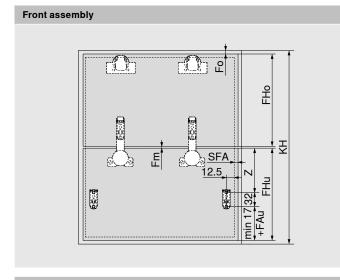
A IIIax = FH x 0.9 + 1.5 x FD + 35						
Y (mm)						
FH x 0.44 + 38						
FH x 0.29 + 35						
FH x 0.12 + 31						
28						
0						





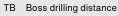


### **Planning**



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



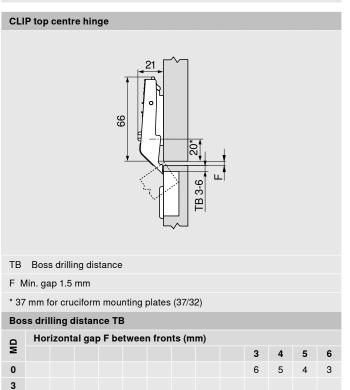
FAo Upper front overlay

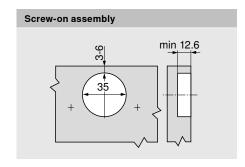
F Gap

() CLIP top 120° special hinge

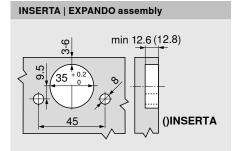
the CLIP top 120° special hinge.

()	() OEII top 120 Special Hinge										
Bos	Boss drilling distance TB										
۵	Front overlay FA (mm)										
M	5 6 7 8 9 10 11 12 13 14 15 16 17									17	
0	3 4 5 6										
3	3 4 5 6										
6	6 3 4 5 6										
9 3 4 5 6											
MD	MD Mounting plate spacing (mm)										



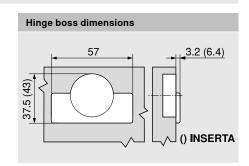


The front overlay must always be 2 mm bigger for



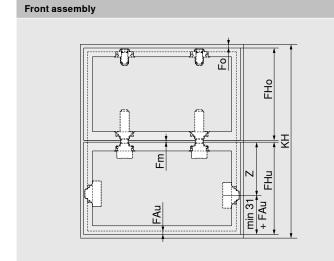
6 9

MD Mounting plate spacing (mm)

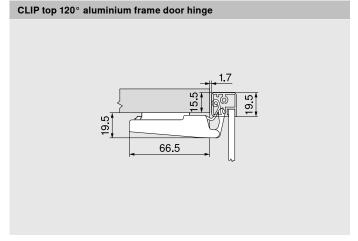


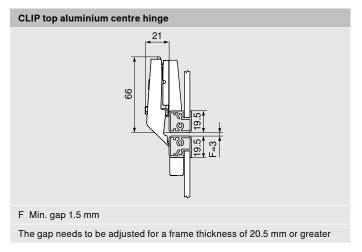
### Narrow aluminium frames

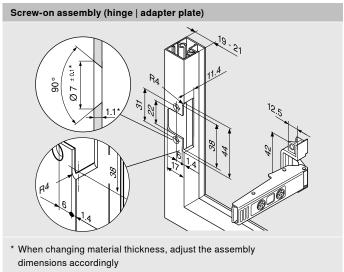
### **Planning**



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	







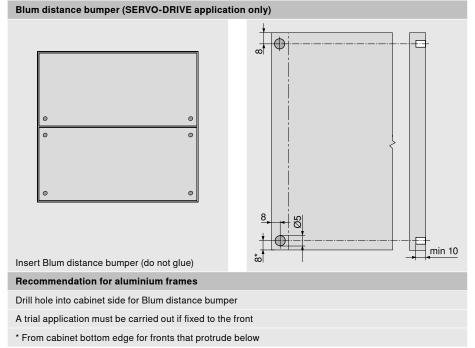


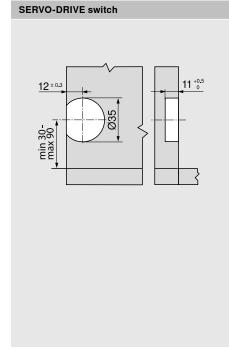
Find more information on assembly and adjustment of AVENTOS HF top at

www.blum.com/hftopassembly

### **SERVO-DRIVE for AVENTOS HF top**

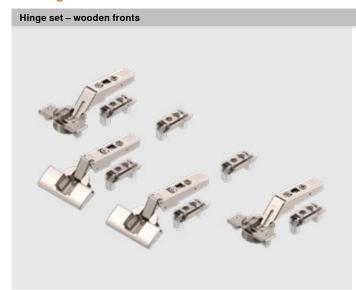
### **Planning**





### **Accessories for AVENTOS HF top**

### **Ordering information**



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

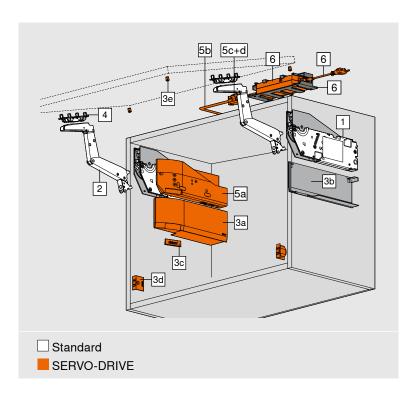


### Ordering information Fixing method Screw-on1 ☎ 78Z5500T12 Consisting of: CLIP top 120° hinge unsprung 2x 70T5550.TL CLIP top centre hinge unsprung 2 x 78Z5500T For wide aluminium frames, an additional cruciform mounting plate is required for the CLIP top centre hinge. Horizontal cam mounting plate 175H3100 <sup>1</sup> Use chipboard screws (609.1x00) for wooden fronts Use countersunk self-tapping screws (660.0950) for wide aluminium frames



Ordering information							
Fixing	Fixing method						
Screw-	on	☎ 78Z550AT11					
Consis	ting of:						
2x	CLIP top 120° aluminium frame door hinge unspru	ing					
	72T550A.TL						
2 x	CLIP top aluminium centre hinge unsprung						
	78Z550AT						
2 x	Horizontal cam mounting plate						
	175H5400						
2 x	CLIP adapter plate symmetrical						
	175H5A00						
2 x	CLIP adapter plate left/right						
	175H5B00						





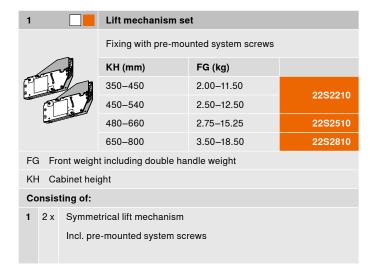
- Ideal for large, one-part fronts
- Cabinet height 350-800 mm
- Cabinet width up to 1800 mm
- Internal depth of at least 264 mm
- Integrated BLUMOTION setting
- SERVO-DRIVE electrical motion support system
- Light operating forces
- Variable stop
- Standardised position of the lift mechanism and front 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 chipboa	rd screws with positio	ning system				
	/	1	KH (mm)	FG (kg)					
			350-450	2.00-11.50	22S2200				
	6 6		450-540	2.50-12.50	2252200				
	9		480-660	2.75-15.25	22S2500				
		22S2800							
FG	i Fro	ont weigh	t including double ha	ndle weight					
KH	l Ca	binet hei	ght						
Consisting of:									
1	2 x	Symme	ymmetrical lift mechanism						
		Incl. pos	sitioning system						
-	8 x	Chipboa	Chipboard screws Ø 4 x 35 mm						



### **Ordering information**



3		Cover cap set for SERVO-DRIVE			
Ĺ			Colour	Material	
1			SW, HGR, TGR	K	23.8000
Co	Consisting of:				
3a	1 x	SERVO-DRIVE cover cap left			
3b	1 x	Cover cap right			
3с	2 x	Branding element, embossed with Blum logo			
		IN-G			
3d	2 x	SERVO-DRIVE switch			
3е	6 x	Blum distance bumper Ø 5 mm			

	•				
4	Front fixing br	Front fixing bracket set			
	Version	Fixing method			
	Wooden fronts and wide aluminium fram	Screw-on es	20\$4200		
16	Narrow aluminium fram	Screw-on es	20S4200A		
Consisting	g of:				
<b>4</b> 2 x Fr	ront fixing bracket				
<sup>1</sup> 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.					
<sup>2</sup> Incl. 8 x co	<sup>2</sup> Incl. 8 x countersunk self-tapping screws – 660.0950				

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

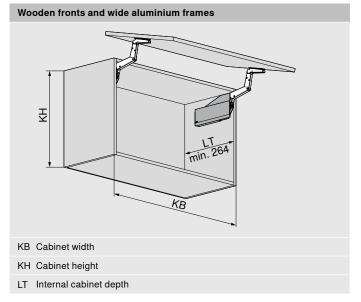
5			SERVO-DRIVE set		
			Colour	Material	
	-	<b>*</b>	TGR	K	23.A000
Co	nsis	ting of:			
5a	1 x	Drive u	nit		
5b	1 x	SERVO-DRIVE distribution cable, 1500 mm			
5c	1 x	Connecting node			
5d	2 x	Cable end protector			
For three lift mechanisms or more, we recommend two synchronised drive units					
We recommend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

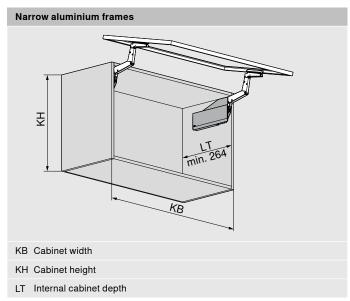
### Optional

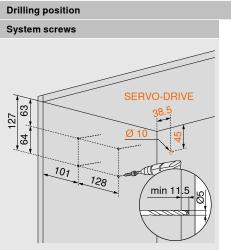
3c	Branding element			
(Mbran)	Material	Colour		
Hoffstrin	K	SW-M, TGR	IN-G	
Printed *	2 x	ABD.1000.BL	ABD.1009.BL	
Embossed *	2 x	ABD.1000.BT	ABD.1009.BT	
Plain	2 x	ABD.1000	ABD.1009	
* With Blum logo				
From 1000 pcs:				
Customised, prin	ted branding element			
From 5000 pcs:				
Customised, embossed branding element				

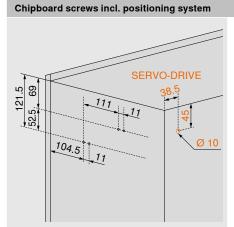
### Colours and material

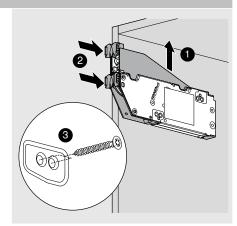
00.04.0	Colouro and material			
Name				
sw	Silk white			
HGR	Light grey			
TGR	Dark grey			
SW-M	Silk white matt			
NI	Nickel plated			
IN-G	In-mould brushed stainless steel			
K	Nylon			

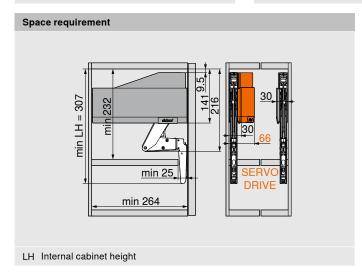


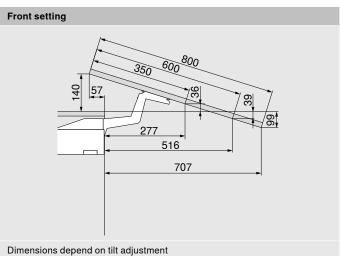








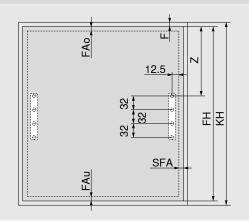






### Front assembly

### Wooden fronts and wide aluminium frames



FAo Upper front overlay

FAu Bottom front overlay

F Gap

Z 195 + FAo

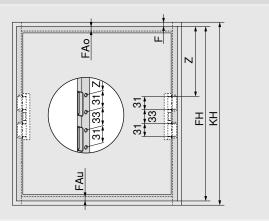
FH Front height

KH Cabinet height

SFA Side front overlay

Application against a wall: minimum 5 mm gap

### Narrow aluminium frames



FAo Upper front overlay

FAu Bottom front overlay

F Gap

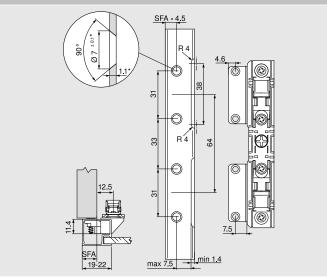
Z 195.5 + FAo

FH Front height

KH Cabinet height

Application against a wall: minimum 5 mm gap

### Narrow aluminium frames

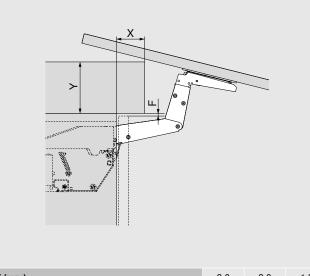


For frame width 19 mm, an SFA of 11-18 mm is possible.

\* When changing material thickness, adjust the assembly dimensions accordingly

SFA Side front overlay

### 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			

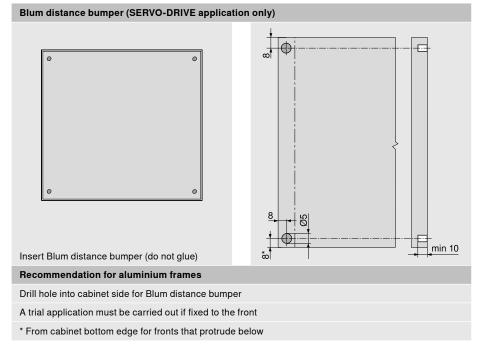


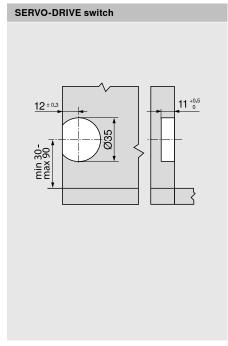
Find more information on assembly and adjustment of AVENTOS HS top at

www.blum.com/hstopassembly

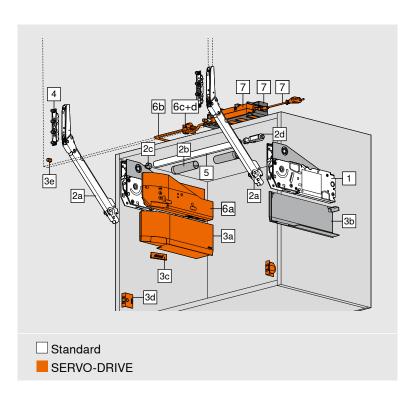
### **SERVO-DRIVE for AVENTOS HS top**

### **Planning**



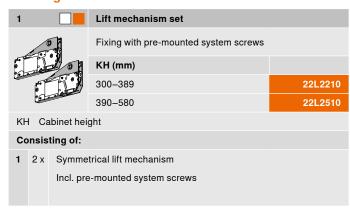




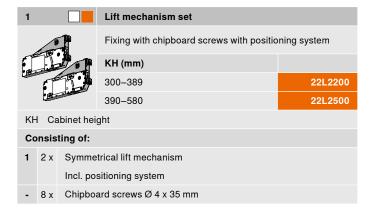


- Ideal for small one-part fronts
- Cabinet height 300-580 mm
- Cabinet width up to 1800 mm
- Internal depth of at least 264 mm
- Integrated BLUMOTION setting
- SERVO-DRIVE electrical motion support system
- Light operating forces
- Variable stop
- Standardised position of the lift mechanism and front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

### **Ordering information**



2			Lever arm set			
			Colour		Material	
T. O	$\supset_{\mathbb{Q}}$	001	NI		Steel	
			KH (mm)	FG (kg	1)	
			300–339	1.50-9	0.00	22L3200
			340–389	1.75–1	0.00	22L3500
•			390-540	2.00-1	2.25	22L3800
			480-580	2.50-1	4.00	22L3900
FG	Fro	ont weigh	t including handle we	ight		
KH	l Ca	binet hei	ght			
Co	nsis	sting of:				
2a	2 x	Symme	trical lever arm			
2b	2 x	Cross stabiliser cover cap				
2c	1 x	Adapter for cross stabiliser rod				
2d	1 x	Length a	adapter for cross stab	oiliser		





### **Ordering information**



ı			SW, HGR, TGR	К	23.8000
Co	nsis	ting of:			
3a	1 x	SERVO	-DRIVE cover cap left		
3b	1 x	Cover	Cover cap right		
3с	2 x	Branding element, embossed with Blum logo			
		IN-G			
3d	2 x	SERVO-DRIVE switch			
3е	6 x	Blum distance bumper Ø 5 mm			

4	Front fixing bracket set			
	Version	Fixing method		
	Wooden fronts and wide aluminium frames	Screw-on	20S4200	
**************************************	Narrow aluminium frames	Screw-on	20S4200A	

### Consisting of:

4 2 x Front fixing bracket

<sup>1</sup> 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.

 $<sup>^{2}</sup>$  Incl. 8 x countersunk self-tapping screws  $-\,660.0950$ 

-	Front fixing bracket			
<b>£</b>	Version	Fixing method		
	Thin fronts	EXPANDO T 2 x	20S42T1	
EXPANDO T suitable for thin fronts – see page 54				

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

-			Connecting piece set	for cross stabili	ser
			Recommended from an internal cabinet width ≧ 1190 mm or a cabinet width ≧ 1228 mm		
R	) (0)	a dina	Material		
	<i>1</i> 69	3	Zinc		22Q080Z
Co	nsis	ting of:			
2b	2 x	Cross s	tabiliser cover cap		
2c	2 x	Adapte	r for cross stabiliser rod		
-	1 x	Connec	ting piece for cross stabili	ser	
-	1 x	Cross s	tabiliser fixing		
	Cutting for 5		Internal cabinet width LW/2 - 105 mm		
6			SERVO-DRIVE set		
p					
			Colour	Material	
(		<b>!</b>	Colour	<b>Material</b> K	23.A000
Co	onsis	ting of:	33.34.		23.A000
Co 6a	onsis 1 x	ting of:	TGR		23.A000
	1 x	Drive u	TGR	К	23.A000
6a	1 x 1 x	Drive un	TGR	К	23.A000
6a 6b	1 x 1 x	Drive un	TGR nit -DRIVE distribution cable	К	23.A000
6a 6b 6c 6d	1 x 1 x 1 x 2 x	Drive un SERVO Connec	TGR  nit -DRIVE distribution cable sting node	, 1500 mm	23.A000

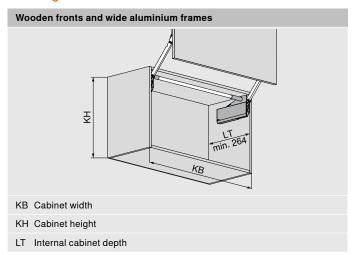
### Optional

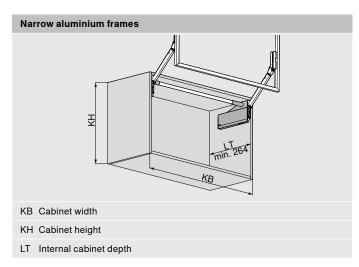
See page 56

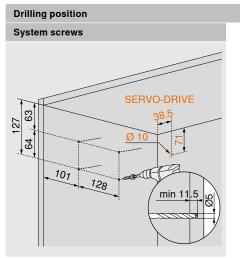
3c	Branding element			
(Fulbrian)	Material	Colour		
Notice III	K	SW-M, TGR	IN-G	
Printed *	2 x	ABD.1000.BL	ABD.1009.BL	
Embossed *	2 x	ABD.1000.BT	ABD.1009.BT	
Plain	2 x	ABD.1000	ABD.1009	
* With Blum logo				
From 1000 pcs:				
Customised, prin	ted branding element			
From 5000 pcs:				
Customised, embossed branding element				

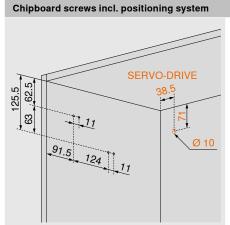
### Colours and material

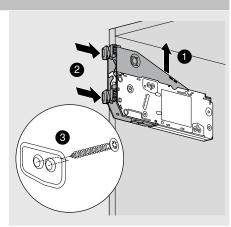
Name		
SW	Silk white	
HGR	Light grey	
TGR	Dark grey	
SW-M	Silk white matt	
IN-G	In-mould brushed stainless steel	
K	Nylon	

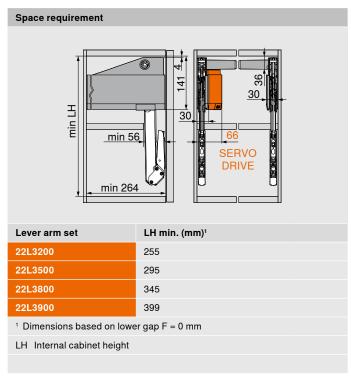


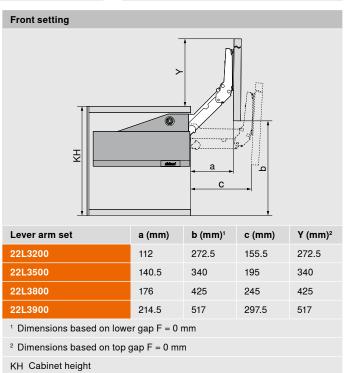


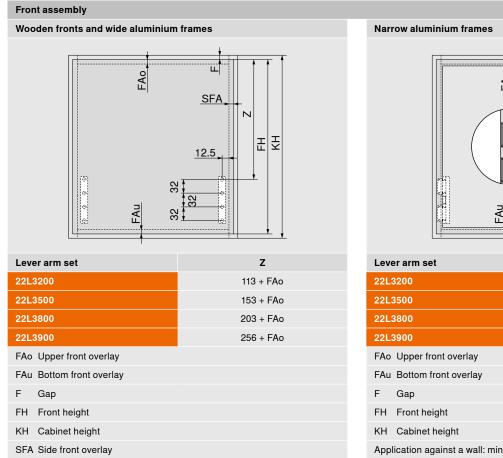






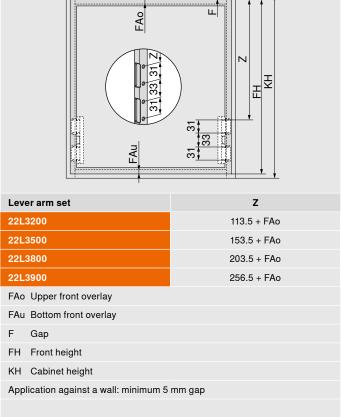


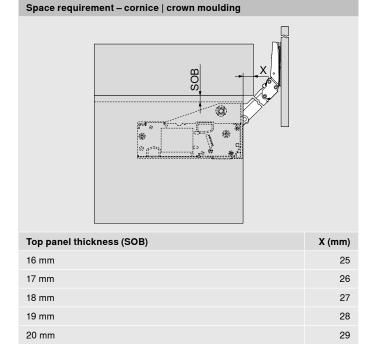




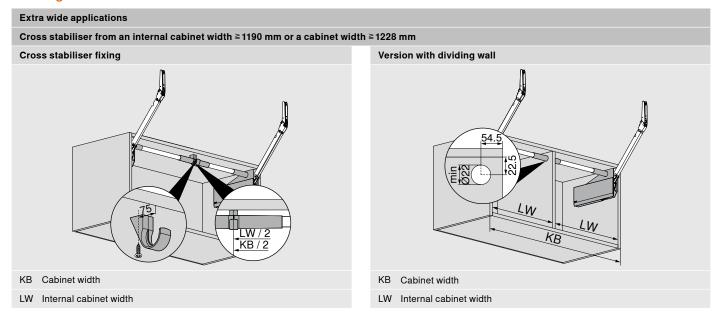
### 

Application against a wall: minimum 5 mm gap





dimensions accordingly
SFA Side front overlay

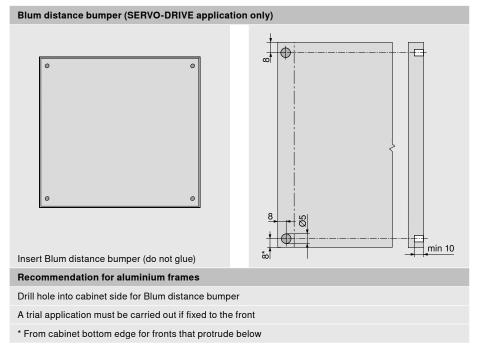


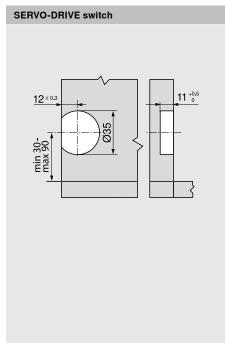


Find more information on assembly and adjustment of AVENTOS HL top at

www.blum.com/hltopassembly

### **SERVO-DRIVE for AVENTOS HL top**

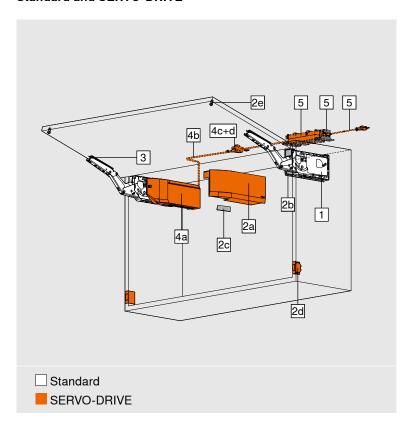




## **AVENTOS HK top**



### 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

Lift mechanism set

- 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.

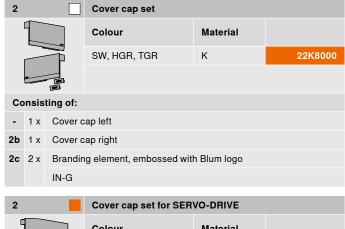
1	Lift mechanism set				
	Fixing with pre-mounted system screws				
	LF	ow			
	420-1610	75°-107°	22K2310		
	930–2800	75°-107°	22K2510		
LØ	1730-5200	75°-107°	22K2710		
	3200-9000	75°-107°	22K2910		
Max. front weig	nt 18 kg if using two lif	t mechanisms.			
LF Power fact	LF Power factor				
OW Opening a	ngle (infinitely variable	e adjustment)			
Consisting of:	Consisting of:				
1 2 x Symm	etrical lift mechanism				
Incl. p	re-mounted system sc	rews			

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



### Standard and SERVO-DRIVE

### **Ordering information**



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	20\$4200
	Narrow aluminium frames	Screw-on	20S4200A
_			

### Consisting of:

3 2 x Front fixing bracket

<sup>1</sup> 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
EXPANDO T suitable for thin fronts – see page 54			

4 SERVO-DRIVE set						
			Colour	Material		
		00 MB3	TGR	K	23KA000	
Co	nsis	ting of:				
4a	1 x	Drive ur	Drive unit			
4b	1 x	SERVO	SERVO-DRIVE distribution cable, 1500 mm			
4c	1 x	Connec	Connecting node			
4d	2 x	Cable end protector				
	For three lift mechanisms or more, we recommend two synchronised drive units					
We	We recommend one drive unit per set for connected fronts.					
5	5 SERVO-DRIVE power supply unit and accessories					

### Optional

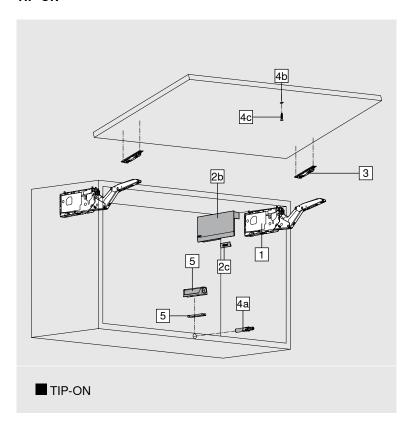
See page 56

2c	Branding element		
(Albress)	Material	Colour	
Applation	K	SW-M, TGR	IN-G
Printed *	2 x	ABD.1000.BL	ABD.1009.BL
Embossed *	2 x	ABD.1000.BT	ABD.1009.BT
Plain	2 x	ABD.1000	ABD.1009
* With Blum logo			
From 1000 pcs:			
Customised, prin	Customised, printed branding element		
From 5000 pcs:			
Customised, embossed branding element			

### Colours and material

Name			
sw	Silk white		
HGR	Light grey		
TGR	Dark grey		
SW-M	Silk white matt		
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 pre-mounted system screws			
	F. (6)			LF	ow	
				420–1610	75°-107°	22K2310T
				930–2800	75°-107°	22K2510T
				1730-5200	75°-100°	22K2710T
				3200-9000	75°-100°	22K2910T
	Max. front weight 18 kg if using two lift mechanisms.					
	LF Power factor					
	OW Opening angle (infinitely variable adjustment)					
	Consisting of:					
	1 2 x Symme			etrical lift mechanism		
Incl. pre-mounted system screws						

		Fixing with chipboard screws with positioning system				
F. 19		LF	ow			
		420-1610	75°-107°	22K2300T		
6/2		930-2800	75°-107°	22K2500T		
	Væ	1730-5200	75°-100°	22K2700T		
		3200-9000	75°-100°	22K2900T		
Max. f	Max. front weight 18 kg if using two lift mechanisms.					
LF F	LF Power factor					
OW C	OW Opening angle (infinitely variable adjustment)					
Consisting of:						
1 2 >	x Symmetrical lift mechanism					
Incl. positioning system						
- 8>	Chipbo	Chipboard screws Ø 4 x 35 mm				

Lift mechanism set for TIP-ON



### TIP-ON

### **Ordering information**



3	Front fixing bracket set		
	Version	Fixing method	
	Wooden fronts and wide aluminium frames	Screw-on	20\$4200
- 48	Narrow aluminium frames	Screw-on	20S4200A
Consisting of			

### 3 2 x Front fixing bracket

<sup>1</sup> 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.

<sup>&</sup>lt;sup>2</sup> Incl. 8 x countersunk self-tapping screws – 660.0950

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

4			TIP-ON set		
			Colour	KH (mm)	
			SW, CS, R7036	Up to 600	
0,			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			

### Accessories

5	Adapter plate		
	Version	Colour	
000	Straight adapter plate Short version	SW, CS, R7036, NI-L	956.1201
	Cruciform adapter plate Long version	R7036	956A1501

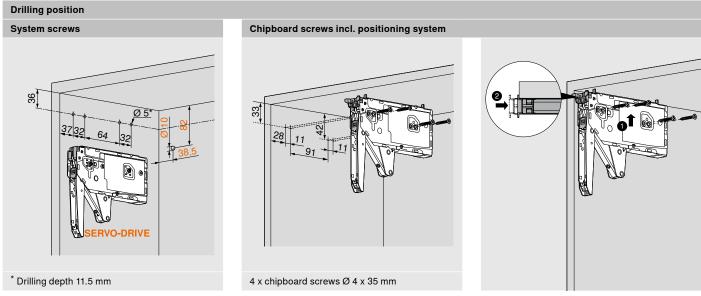
### Optional

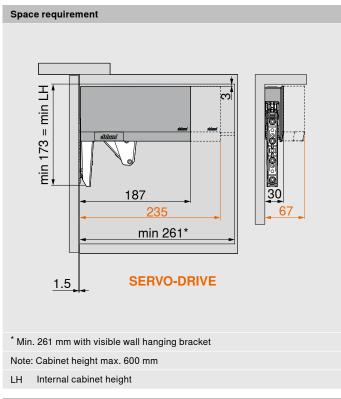
2c	Branding element			
(Mhrss)	Material	Colour		
Notising	K	SW-M, TGR	IN-G	
Printed *	2 x	ABD.1000.BL	ABD.1009.BL	
Embossed *	2 x	ABD.1000.BT	ABD.1009.BT	
Plain	2 x	ABD.1000	ABD.1009	
* With Blum logo				
From 1000 pcs:				
Customised, printed branding element				
From 5000 pcs:				
Customised, embossed branding element				

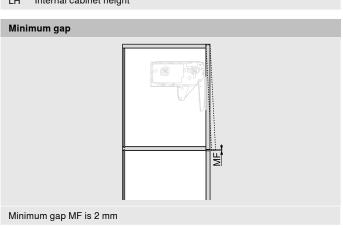
### **Colours and material**

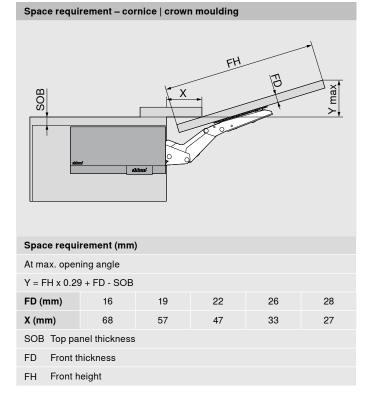
Name		
SW	Silk white	
HGR	Light grey	
TGR	Dark grey	
R7036	RAL 7036 platinum grey	
SW-M	Silk white matt	
CS	Carbon black	
NI-L	Nickel lacquered	
IN-G	In-mould brushed stainless steel	
K	Nylon	

# Standard, SERVO-DRIVE and TIP-ON





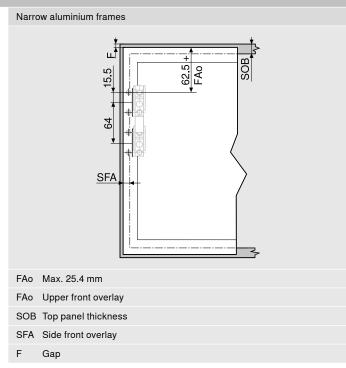




# Standard, SERVO-DRIVE and TIP-ON

# **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



# 

Further planning information for TIP-ON – see page 52

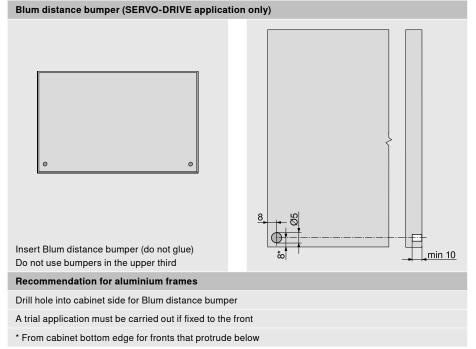


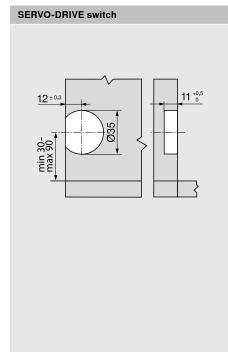
SFA Side front overlay

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

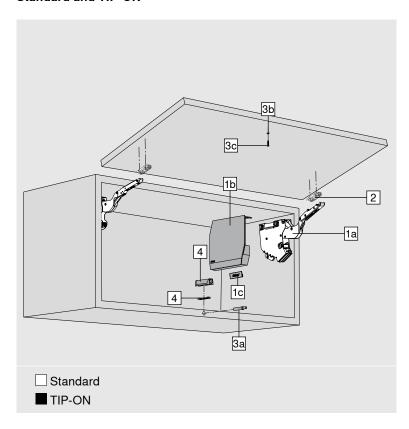
www.blum.com/hktopassembly

# **SERVO-DRIVE for AVENTOS HK top**









- 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

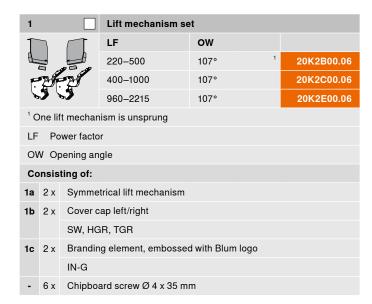
#### Power factor (LF) =

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.

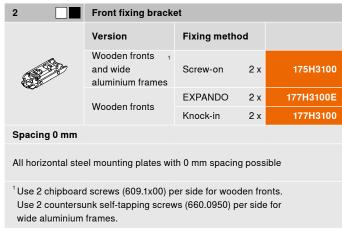
The power factor (LF) can be increased by 50% if you use a third lift mechanism.



1	1 Lift mechanism set for TIP-ON				
1			LF	ow	
F			220-500	107°	20K2B00T06
F			400–1000	107°	20K2C00T06
Sec.	<b>5</b>	<b>.</b> 7	960–2215	107°	20K2E00T06
<sup>1</sup> C	ne lif	t mechan	ism is unsprung		
LF	Po	wer facto	r		
OV	V Op	ening an	gle		
Co	nsist	ting of:			
1a	2 x	Symmetrical lift mechanism			
1b	2 x	Cover cap left/right			
		SW, HGR, TGR			
1c	1c 2 x Branding element, embossed with Blum logo				
		IN-G			
-	6 x	Chipboard screw Ø 4 x 35 mm			



# **Ordering information**





#### Accessories

4	Adapter plate		
-	Version	Colour	
90	Straight adapter plate Short version	SW, CS, R7036, NI-L	956.1201
36	Cruciform adapter plate Long version	R7036	956A1501
-	Opening angle stop		
	Opening angle	Colour	
	100°	TGR	20K7A41
	75°	R7037	20K7A11

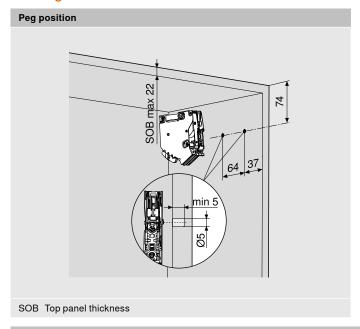
#### Optional

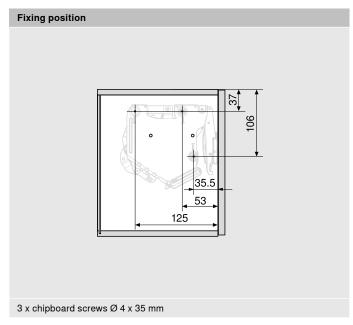
1c	Branding element		
(I-Jhura)	Material	Colour	
Notice III	K	SW-M, TGR	IN-G
Printed *	2 x	ABD.1000.BL	ABD.1009.BL
Embossed *	2 x	ABD.1000.BT	ABD.1009.BT
Plain	2 x	ABD.1000	ABD.1009
* With Blum logo			
From 1000 pcs:			
Customised, prin	ted branding element		
From 5000 pcs:			
Customised, embossed branding element			

#### Colours and material

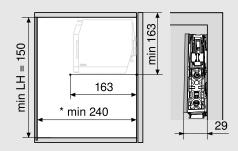
Name	
SW	Silk white
HGR	Light grey
TGR	Dark grey
R7036	RAL 7036 platinum grey
SW-M	Silk white matt
CS	Carbon black
NI-L	Nickel lacquered
IN-G	In-mould brushed stainless steel
K	Nylon

# **Planning**





# Space requirement

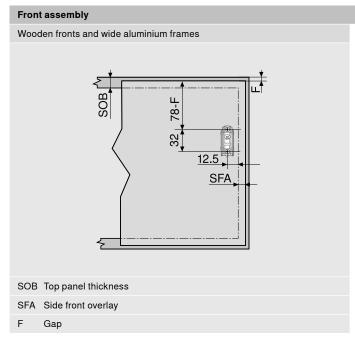


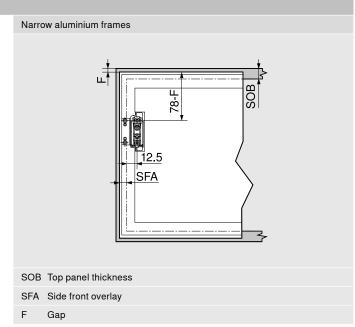
\* Min. 240 mm with visible wall hanging bracket

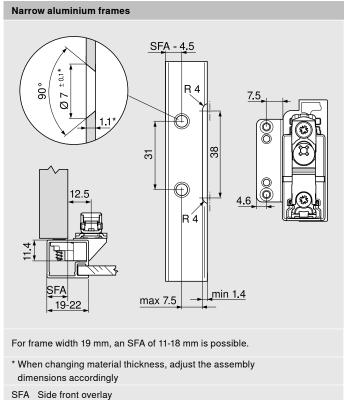
Note: Cabinet height max. 600 mm

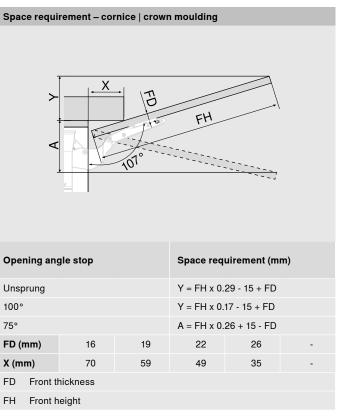
LH Internal cabinet height



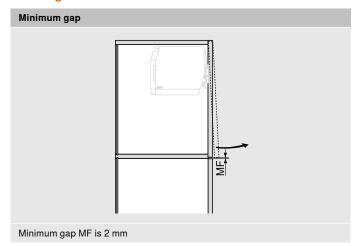








# **Planning**



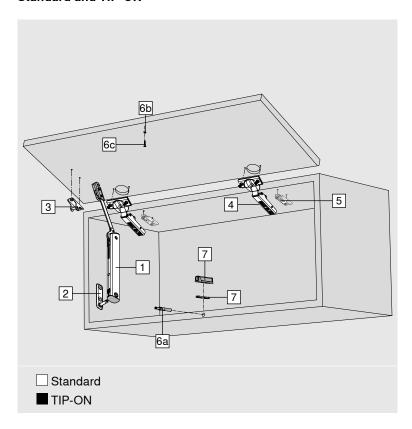
Further planning information for TIP-ON – see page 52



Find more information on assembly and adjustment of AVENTOS HK-S at

www.blum.com/aventos-hks-assembly





- Ideal for small applications in wall cabinets, 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
- Symmetrical lift mechanism, can be used on one or both sides
- 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**

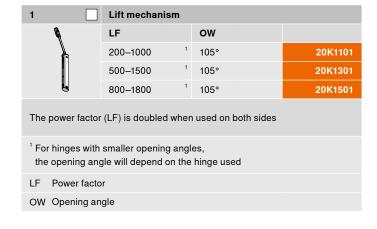
#### Note

#### Power factor (LF) =

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

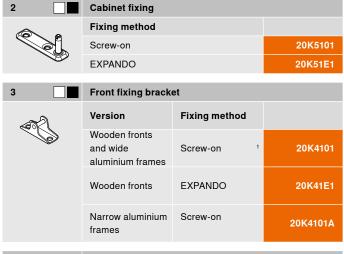
We recommend the more powerful lift mechanism for applications in overlapping ranges.

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



1	Lift mechanism for TIP-ON			
•	LF	ow		
	180-800	105°	20K1101T	
	500–1200	105°	20K1301T	
<b>L</b>	800–1600	105°	20K1501T	
The power factor (LF) is doubled when used on both sides				
<sup>1</sup> For hinges with smaller opening angles, the opening angle will depend on the hinge used				
LF Power factor				
OW Opening angle				

#### **Ordering information**



4	CLIP top BLUMOTION 110° hinge		
	Boss	Spring	
200	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 starting at cabinet width KB 1200 mm and/or power factor LF 2700

#### **Alternative**

CLIP top BLUMOTION hinges: 107°, profile/thick door, 95° aluminium frame door hinge or CLIP top hinges: 107°, profile/thick door, 95° aluminium frame door hinge in combination with BLUMOTION 973A – for clip on and/or CLIP hinges: 100°

4	CLIP top 110° hinge		
	Boss	Spring	
CONTRACTOR OF THE PARTY.	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 starting at cabinet width KB 1200 mm and/or power factor LF 2700

#### **Alternative**

CLIP top hinges: 107°, profile/thick door, 95° aluminium frame door hinge and/or CLIP 100° (each hinge unsprung)

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

3	TIP-ON set				
_		0.	Colour	KH (mm)	
	05		SW, CS, R7036	Up to 600	
0,			Version		
			Short version 956.		956.1004
KH	KH Cabinet height				
Co	nsis	ting of:			
3a	1 x	TIP-ON 956. – short version with magnet			
3b	1 x	Screw-on catch plate			
3с	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

Accessories				
7	Adapter plate			
-0	Version	Colour		
90	Straight adapter plate Short version	SW, CS, R7036, NI-L	956.1201	
36	Cruciform adapter plate Long version	R7036	956A1501	
-	Opening angle stop			
	Opening angle	Colour		

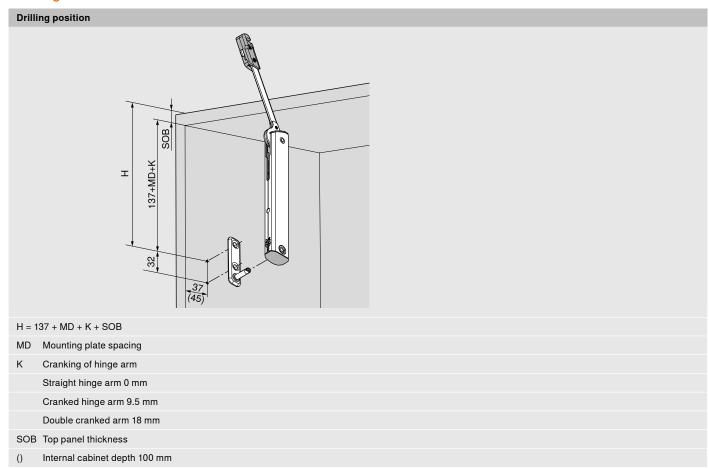
#### Colours and material

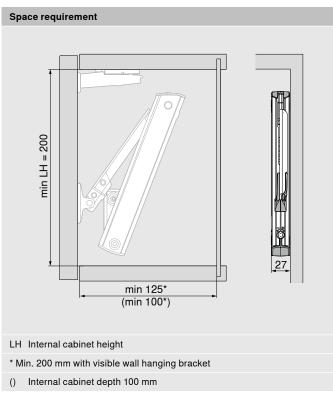
86°

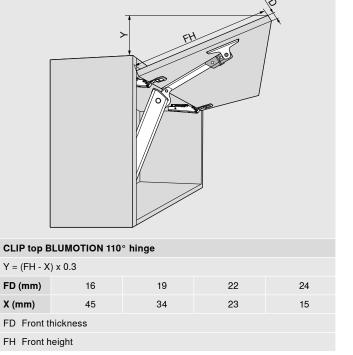
For CLIP top BLUMOTION 110° | CLIP top 110° hinge

Name	
SW	Silk white
SZ	Black
R7036	RAL 7036 platinum grey
CS	Carbon black
NI-L	Nickel lacquered

<sup>&</sup>lt;sup>1</sup> 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.

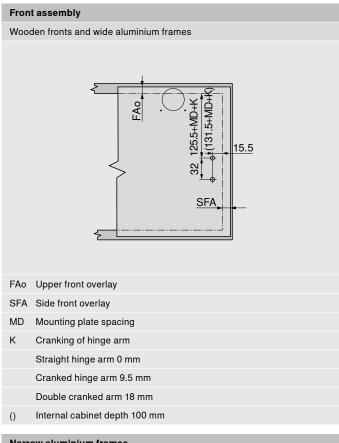


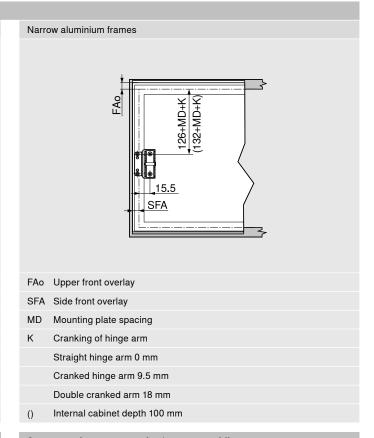




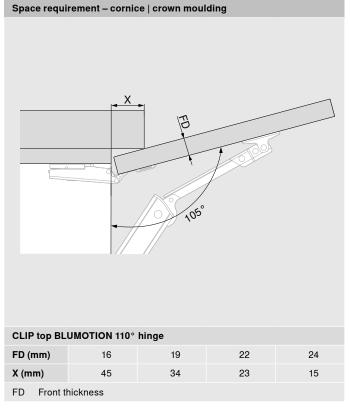


# **Planning**

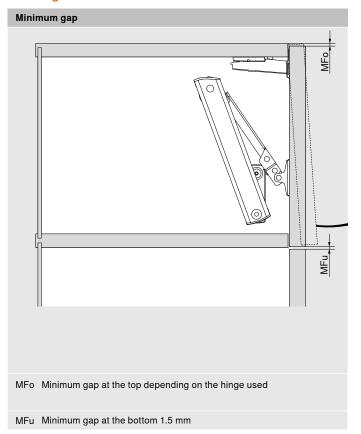


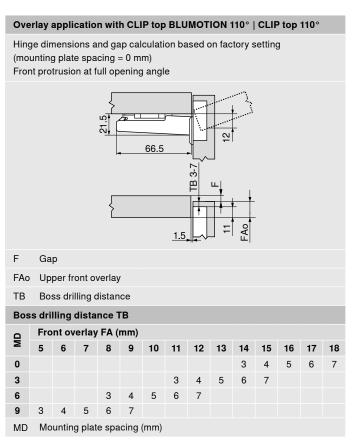


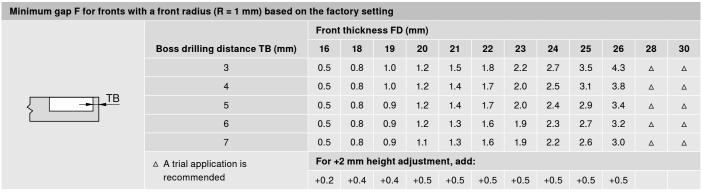
# Narrow aluminium frames SFA - 4.5 R 4 A.6 R 4 A.6 R 4 For frame width 19 mm, an SFA of 11-18 mm is possible. \* When changing material thickness, adjust the assembly dimensions accordingly SFA Side front overlay

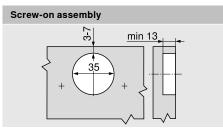


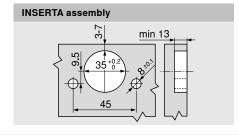
#### **Planning**

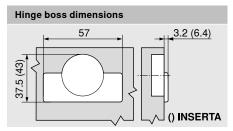












Further planning information for TIP-ON - see page 52

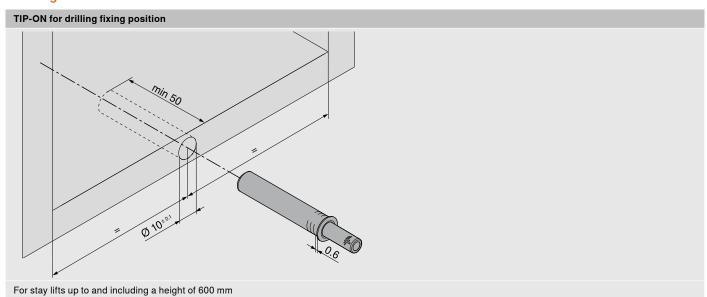


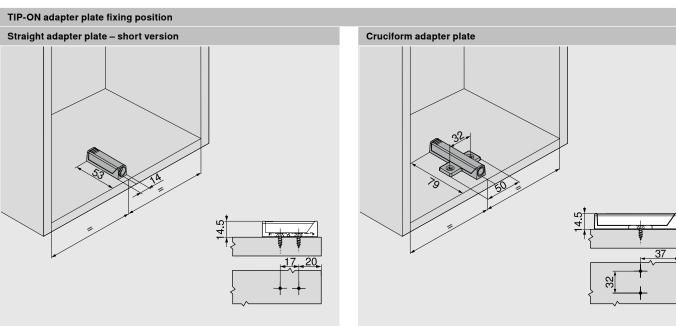
Find more information on assembly and adjustment of AVENTOS HK-XS at

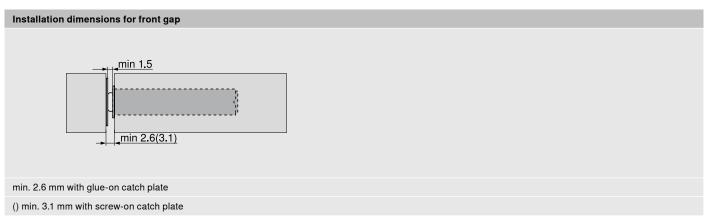
www.blum.com/aventos-hkxs-assembly



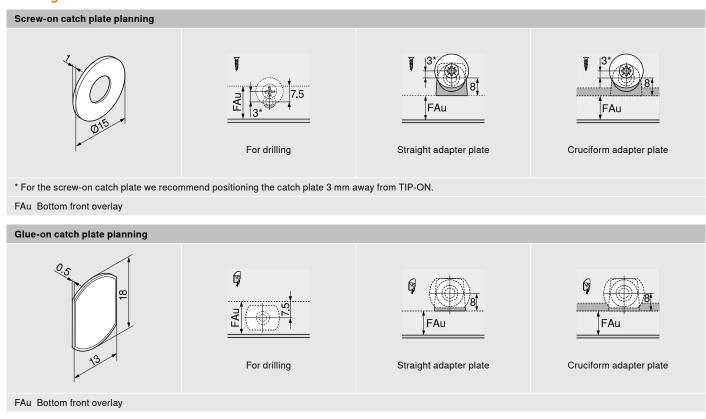
# TIP-ON







# TIP-ON





#### **EXPANDO T**

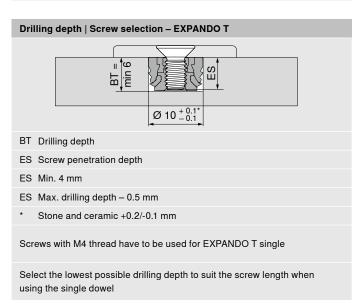


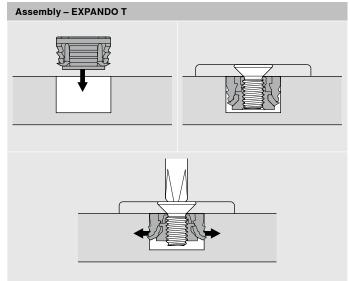
- EXPANDO T pre-assembled fixing system
- Thin fronts of 8 mm or more
- Different front materials
- 3 different applications –
   lift systems | hinge systems | box systems

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







#### 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.

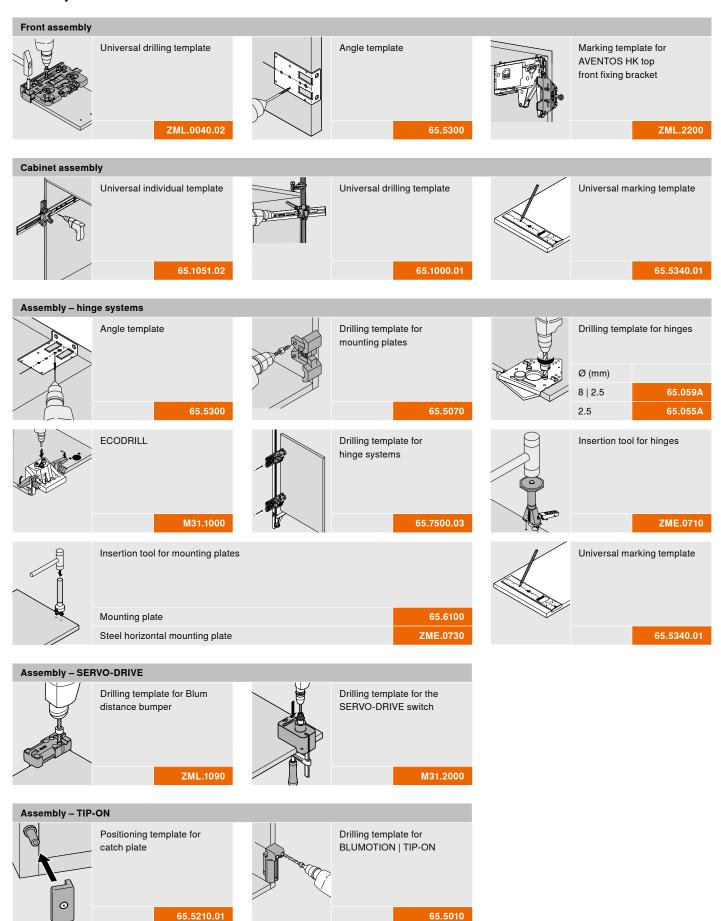


Find more information on assembly and adjustment of EXPANDO T at

www.blum.com/expando-t-9

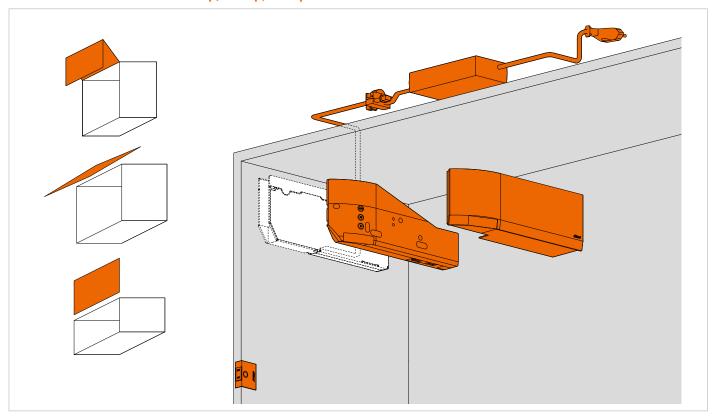


#### **Assembly devices**

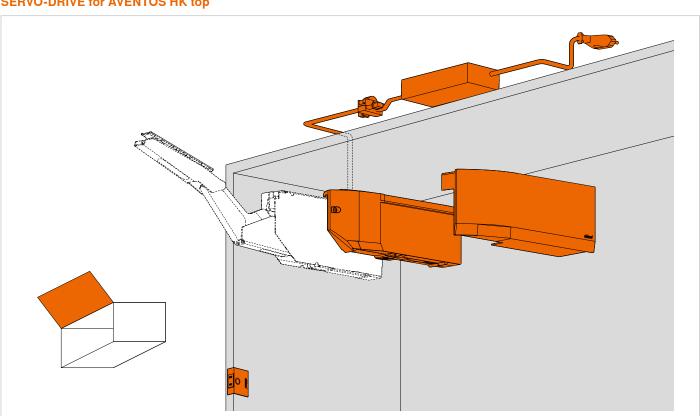




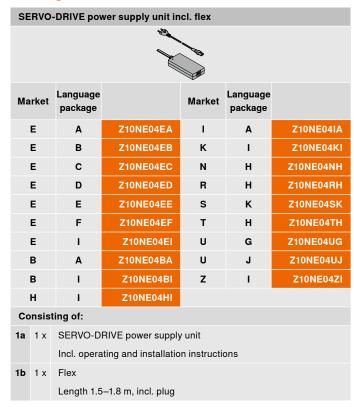
# SERVO-DRIVE for AVENTOS HF top, HS top, HL top



# **SERVO-DRIVE for AVENTOS HK top**



#### **Ordering information**



Power supply unit housing				
	Colour	Material		
	WGR	K	Z10NG120	
E 05010 001				



# Consisting of:

1 x SERVO-DRIVE plug-in power supply unit Incl. cable, 1120 mm (with SERVO-DRIVE distribution cable extendible to max. 2000 mm) Incl. operating and installation instructions

#### Accessories

SERVO-DRIVE distribution cable and cable end protector					
		0	Colour	Length (m)	
			SZ	8	Z10K800AE
Consisting of:					
4a	1 x	SERVO-DRIVE distribution cable			
4b	5 x	Cable end protector			
For cutting to size					

Connecting node and cable end protector					
			Colour	Material	
	4		SZ	K	Z10V100E.01
Consisting of:					
4a	1 x	Connecting node			
4b	2 x	Cable e	end protector		

Cable holder			
	Colour	Material	
	WS	K	Z10K0009
E.g. for fixing the SERVO-DRIVE distribution cable			

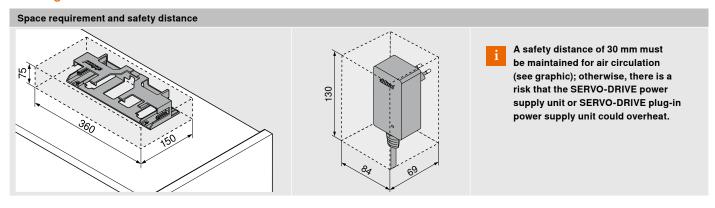
#### Markets and language packages

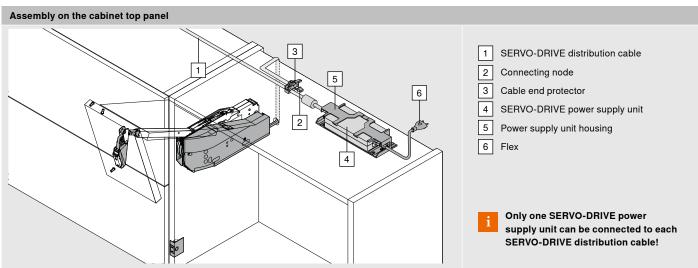
Name				
Markets		Language packages*		
E	Europa	Α	DE, EN, FR, IT, NL	
В	UK	В	DA, EN, FI, NO, SV	
Н	IN	С	EL, EN, HR, SR, SL, TR	
1	IL	D	EN, ES, FR, IT, PT	
K	AU	E	CS, HU, PL, SK	
N	CN	F	BG, ET, LV, LT, RO, RU, UK	
R	KR	G	EN, ES, FR	
S	BR	Н	EN, ZH, KO	
T	TW	1	EN	
U	US   CA   JP	J	JA	
Z	ZA	K	EN, ES, PT	
* Language descriptions as per ISO-639				

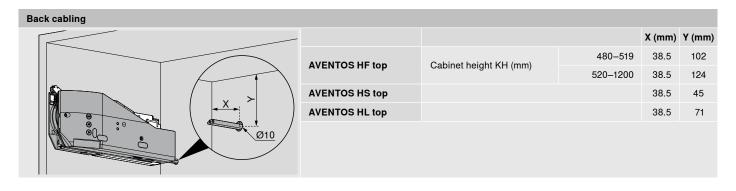
#### Colours and material

Name			
WGR	White grey		
SZ	Black		
ws	White		
K	Nylon		

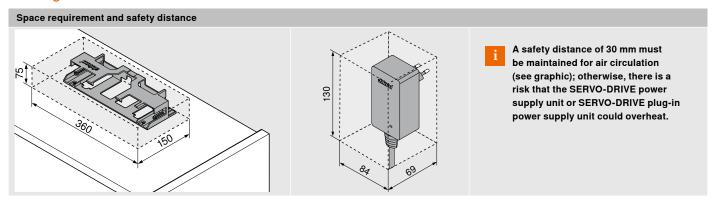


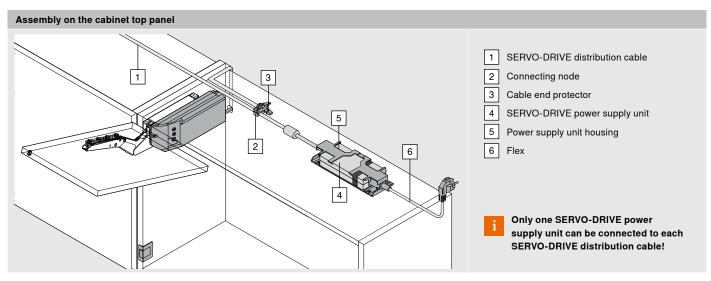


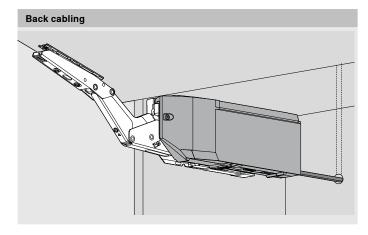


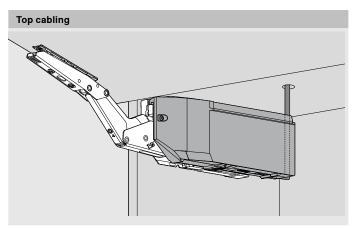


# **Planning**











Find more information on assembly and adjustment of SERVO-DRIVE for AVENTOS top at

www.blum.com/servodrive-aventos-assembly

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Our sites in Austria, Poland and China are certified to the international standards mentioned below. Our site in the USA is certified to ISO 9001.

Our site in Brazil is certified to ISO 9001, ISO 14001 and ISO 45001.







