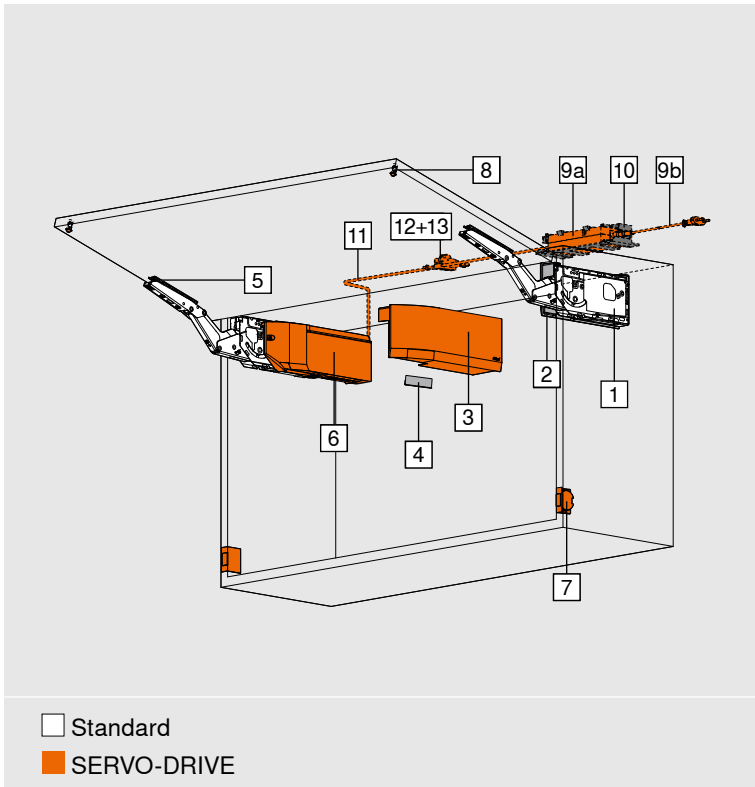


# AVENTOS HK top

Technical data sheet



**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	<input type="checkbox"/> Standard <input type="checkbox"/> SERVO-DRIVE	Lift mechanism		
		Fixing with pre-mounted system screws		
		LF	OW	2 x
		420–1610	75°–107°	22K2311
		930–2800	75°–107°	22K2511
		1730–5200	75°–107°	22K2711
		3200–9000	75°–107°	22K2911
Max. front weight 18 kg if using two lift mechanisms.				
LF Power factor				
OW Opening angle (infinitely variable adjustment)				

1	<input type="checkbox"/> Standard <input type="checkbox"/> SERVO-DRIVE	Lift mechanism		
		Fixing with chipboard screws with positioning system		
		LF	OW	2 x
		420–1610	75°–107°	22K2301
		930–2800	75°–107°	22K2501
		1730–5200	75°–107°	22K2701
		3200–9000	75°–107°	22K2901
Max. front weight 18 kg if using two lift mechanisms.				
LF Power factor				
OW Opening angle (infinitely variable adjustment)				

Standard and SERVO-DRIVE

Ordering information

2		<b>Cover cap right</b>		
		Colour	Material	
		SW, HGR, TGR	Nylon	22K8001

-		<b>Cover cap left</b>		
		Colour	Material	
		SW, HGR, TGR	Nylon	22K8001

3		<b>SERVO-DRIVE cover cap left</b>		
		Colour	Material	
		SW, HGR, TGR	Nylon	23K8001

4		<b>Branding element</b>		
		Material	Colour	
		Nylon	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

5		<b>Front fixing bracket</b>		
		Version	Fixing method	2x
		Wooden fronts and wide aluminium frames	Screw-on <sup>1</sup>	20S4201
			EXPANDO	20S42E1
Knock-in	20S4231			

<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.

5		<b>Front fixing bracket</b>		
		Version	Fixing method	2x
		Narrow aluminium frames	Screw-on <sup>2</sup>	20S4201A

<sup>2</sup> Incl. 4 x countersunk self-tapping screws – 660.0950

5		<b>Front fixing bracket</b>		
		Version	Fixing method	2x
		Thin fronts	EXPANDO T	20S42T1

6		<b>Drive unit</b>		
		Colour	Material	
		TGR	Nylon	23KA001

For three lift mechanisms or more, we recommend two synchronised drive units

We recommend one drive unit per set for connected fronts.

7		<b>SERVO-DRIVE switch</b>		
		Colour	Material	2 x
		SW, HGR, TGR	Nylon	23P5020
Incl. battery				

8		<b>Blum distance bumper</b>			
		Colour	Material	2 x	
		R7037	Nylon		
		Ø 5 mm		4 x	993.0530
		Ø 8 mm		4 x	993.0830.01

Accessories

-		<b>Universal individual template</b>	
			65.1051.02

-		<b>Marking template for AVENTOS HK top</b>	
			ZML.2200

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
R7037	RAL 7037 dust grey

Standard and SERVO-DRIVE

Ordering information

9		SERVO-DRIVE power supply unit incl. flex			
Market	Language package		Market	Language package	
E	A	Z10NE04EA	I	A	Z10NE04IA
E	B	Z10NE04EB	K	I	Z10NE04KI
E	C	Z10NE04EC	N	H	Z10NE04NH
E	D	Z10NE04ED	R	H	Z10NE04RH
E	E	Z10NE04EE	S	K	Z10NE04SK
E	F	Z10NE04EF	T	H	Z10NE04TH
E	I	Z10NE04EI	U	G	Z10NE04UG
B	A	Z10NE04BA	U	J	Z10NE04UJ
B	I	Z10NE04BI	Z	I	Z10NE04ZI
H	I	Z10NE04HI			
<b>Consisting of:</b>					
9a	1 x	SERVO-DRIVE power supply unit Incl. operating and installation instructions			
9b	1 x	Flex Length 1.5–1.8 m, incl. plug			

10		Power supply unit housing			
		Colour	Material		
		WGR	Nylon	Z10NG120	
For SERVO-DRIVE power supply unit					

-		SERVO-DRIVE plug-in power supply unit			
Only suitable for one drive unit					
Market	Language package		Market	Language package	
E	A	☎ Z10NA40EA	E	F	☎ Z10NA40EF
E	B	☎ Z10NA40EB	B	A	☎ Z10NA40BA
E	C	☎ Z10NA40EC	K	I	☎ Z10NA40KI
E	D	☎ Z10NA40ED	N	H	☎ Z10NA40NH
E	E	☎ Z10NA40EE	U	G	☎ Z10NA40UG
☎ Item available on request					
<b>Consisting of:</b>					
-	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

11		SERVO-DRIVE distribution cable			
		Colour	Length (m)		
		SZ	6	Z10K600A	
		SZ	100	Z10K1HMA	
For cutting to size					
12		Connecting node			
		Colour	Material		
		SZ	Nylon	Z10V1000.01	
13		Cable end protector			
		Colour	Material		
		R7037	Nylon	Z10K0008	
-		Cable holder			
		Colour	Material		
		WS	Nylon	Z10K0009	
E.g. for fixing the SERVO-DRIVE distribution cable					
-		SERVO-DRIVE switch attachment			
		Colour	Material	2 x	
		SW, HGR, TGR	Nylon	23P5216	
For attaching the SERVO-DRIVE switch to the cabinet side without milling					

Markets and language packages

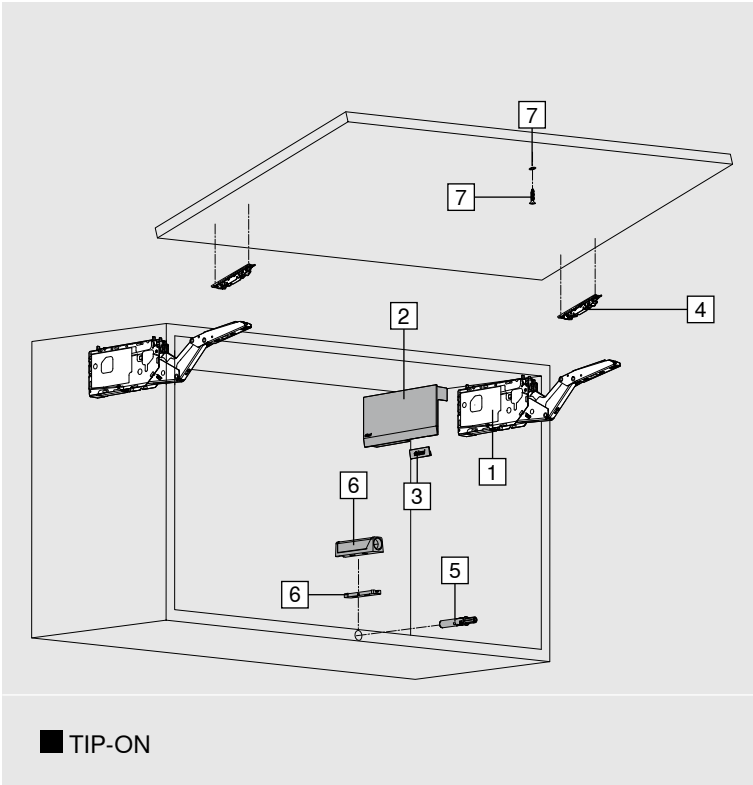
Name		Language packages*	
<b>Markets</b>		<b>Language packages*</b>	
E	Europa	A	DE, EN, FR, IT, NL
B	UK	B	DA, EN, FI, NO, SV
H	IN	C	EL, EN, HR, SR, SL, TR
I	IL	D	EN, ES, FR, IT, PT
K	AU	E	CS, HU, PL, SK
N	CN	F	BG, ET, LV, LT, RO, RU, UK
R	KR	G	EN, ES, FR
S	BR	H	EN, ZH, KO
T	TW	I	EN
U	US   CA   JP	J	JA
Z	ZA	K	EN, ES, PT

\* Language descriptions as per ISO-639

Colours and material

Name			
WS	White	TGR	Dark grey
SW	Silk white	SZ	Black
WGR	White grey	R7037	RAL 7037 dust grey
HGR	Light grey		

**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		
		Fixing with pre-mounted system screws		
		<b>LF</b>	<b>OW</b>	<b>2 x</b>
		420–1610	75°–107°	<b>22K2311T</b>
		930–2800	75°–107°	<b>22K2511T</b>
		1730–5200	75°–100°	<b>22K2711T</b>
		3200–9000	75°–100°	<b>22K2911T</b>
Max. front weight 18 kg if using two lift mechanisms.				
LF Power factor				
OW Opening angle (infinitely variable adjustment)				


1		Lift mechanism		
		Fixing with chipboard screws with positioning system		
		<b>LF</b>	<b>OW</b>	<b>2 x</b>
		420–1610	75°–107°	<b>22K2301T</b>
		930–2800	75°–107°	<b>22K2501T</b>
		1730–5200	75°–100°	<b>22K2701T</b>
		3200–9000	75°–100°	<b>22K2901T</b>
Max. front weight 18 kg if using two lift mechanisms.				
LF Power factor				
OW Opening angle (infinitely variable adjustment)				


TIP-ON

Ordering information


	<b>2</b> <b>Cover cap right</b>		
	<b>Colour</b>	<b>Material</b>	
	SW, HGR, TGR	Nylon	<b>22K8001</b>

	<b>-</b> <b>Cover cap left</b>		
	<b>Colour</b>	<b>Material</b>	
	SW, HGR, TGR	Nylon	<b>22K8001</b>


	<b>3</b> <b>Branding element</b>		
	<b>Material</b>	<b>Colour</b>	
	Nylon	SW-M, TGR	IN-G
Printed *	<b>2 x</b>	<b>ABD.1000.BL</b>	<b>ABD.1009.BL</b>
Embossed *	<b>2 x</b>	<b>ABD.1000.BT</b>	<b>ABD.1009.BT</b>
Plain	<b>2 x</b>	<b>ABD.1000</b>	<b>ABD.1009</b>
* With Blum logo			
<b>From 1000 pcs:</b>			
Customised, printed branding element			
<b>From 5000 pcs:</b>			
Customised, embossed branding element			


	<b>4</b> <b>Front fixing bracket</b>		
	<b>Version</b>	<b>Fixing method</b>	<b>2x</b>
	Wooden fronts and wide aluminium frames	Screw-on <sup>1</sup>	<b>20S4201</b>
		EXPANDO	<b>20S42E1</b>
Knock-in		<b>20S4231</b>	

<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.


	<b>4</b> <b>Front fixing bracket</b>		
	<b>Version</b>	<b>Fixing method</b>	<b>2x</b>
Narrow aluminium frames	Screw-on <sup>2</sup>	<b>20S4201A</b>	

<sup>2</sup> Incl. 4 x countersunk self-tapping screws – 660.0950




	<b>4</b> <b>Front fixing bracket</b>		
	<b>Version</b>	<b>Fixing method</b>	<b>2x</b>
Thin fronts	EXPANDO T	<b>20S42T1</b>	

	<b>5</b> <b>TIP-ON</b>		
	<b>Colour</b>	<b>KH (mm)</b>	
	SW, CS, R7036	Up to 600	
<b>Version</b>			
Short version			<b>956.1004</b>


KH Cabinet height


	<b>6</b> <b>Adapter plate</b>		
	<b>Version</b>	<b>Colour</b>	
	Straight adapter plate Short version	SW, CS, R7036, NI-L	<b>956.1201</b>
	Cruciform adapter plate Long version	R7036	<b>956A1501</b>

Assemble using Ø 3.5 mm or Ø 4 mm chipboard screws.  
TIP-ON must be ordered separately.

	<b>7</b> <b>Catch plate</b>		
	<b>Material</b>	nickel plated	
	Steel		
	<b>Screw-on catch plate</b>		
	For hard surfaces and/or MTF, Ø 2.5 mm pre-drilling and countersinking, if required		
			<b>955.1008S</b>
	<b>Press-in catch plate</b>		
	Pre-drilling Ø 5 mm		
	Ø 11.5 mm	<b>955.1008D</b>	
	<b>Glue-on catch plate</b>		
	13 x 18 mm	<b>955.1008</b>	

Accessories

	<b>-</b> <b>Universal individual template</b>		
			<b>65.1051.02</b>

	<b>-</b> <b>Marking template for AVENTOS HK top</b>		
			<b>ZML.2200</b>

Colours and material

Name	
SW	Silk white
HGR	Light grey
TGR	Dark grey
CS	Carbon black
R7036	RAL 7036 platinum grey
R7037	RAL 7037 dust grey
SW-M	Silk white matt
IN-G	In-mould brushed stainless steel
NI-L	Nickel lacquered

Standard, SERVO-DRIVE and TIP-ON

Planning

**Drilling position**

**System screws**

**Chipboard screws incl. positioning system**

\* Drilling depth 11.5 mm

4 x chipboard screws Ø 4 x 35 mm

**Space requirement**

**Space requirement – cornice | crown moulding**

\* Min. 261 mm with visible wall hanging bracket

Note: Cabinet height max. 600 mm

LH Internal cabinet height

**Space requirement (mm)**

At max. opening angle

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

<b>FD (mm)</b>	16	19	22	26	28
<b>X (mm)</b>	68	57	47	33	27

SOB Top panel thickness

FD Front thickness

FH Front height

**Minimum gap**

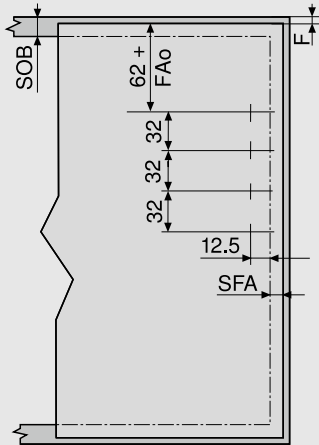
Minimum gap MF is 2 mm

Standard, SERVO-DRIVE and TIP-ON

Planning

Front assembly

Wooden fronts and wide aluminium frames



FAo Max. 25.4 mm

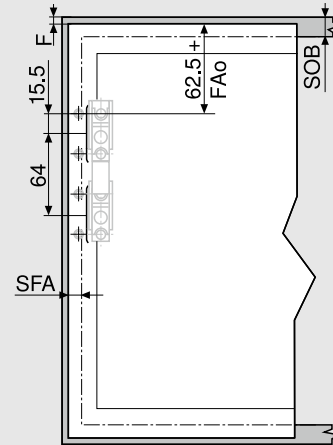
FAo Upper front overlay

SOB Top panel thickness

SFA Side front overlay

F Gap

Narrow aluminium frames



FAo Max. 25.4 mm

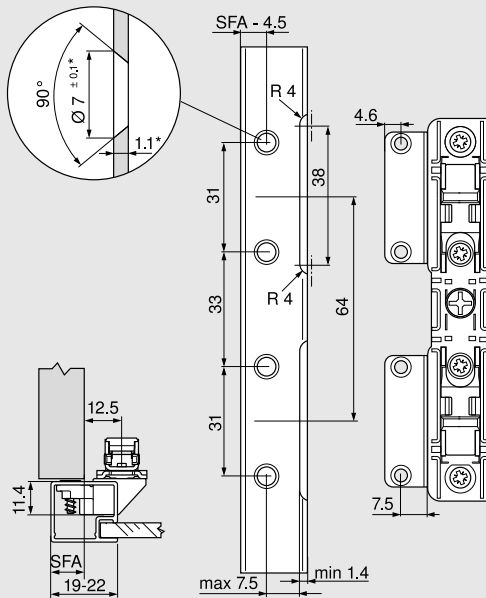
FAo Upper front overlay

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



Find more information on assembly and adjustment of AVENTOS HK top at [www.blum.com/hktopassembly](http://www.blum.com/hktopassembly)

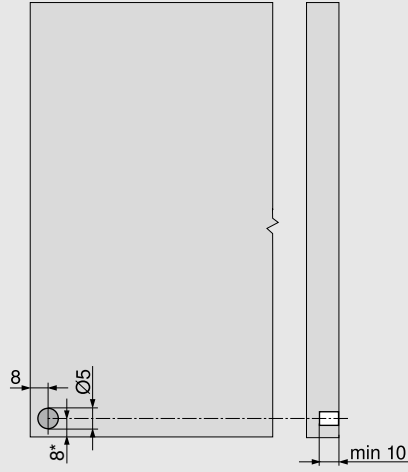
SERVO-DRIVE for AVENTOS HK top

Planning

Blum distance bumper (SERVO-DRIVE application only)



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



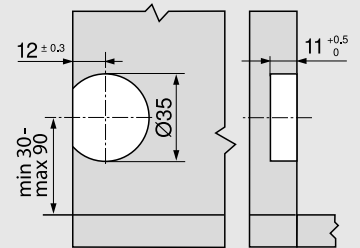
Recommendation for aluminium frames

Drill hole into cabinet side for Blum distance bumper

A trial application must be carried out if fixed to the front

\* From cabinet bottom edge for fronts that protrude below

SERVO-DRIVE switch



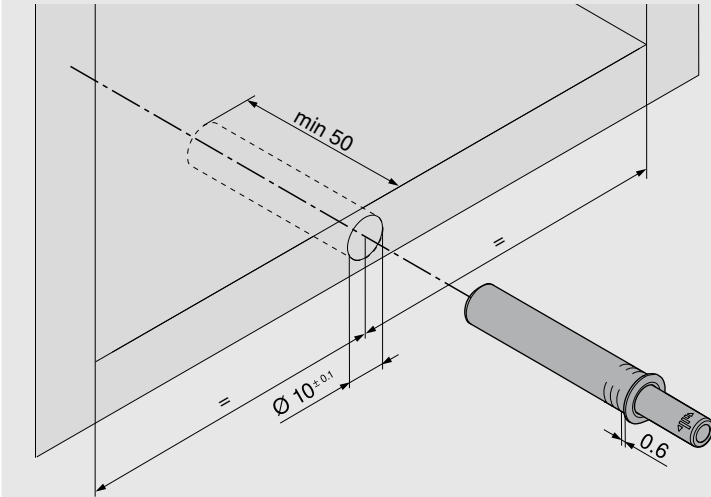
Our EASY ASSEMBLY app provides information about assembly and adjustment of AVENTOS HK top and SERVO-DRIVE

[www.blum.com/eaapp](http://www.blum.com/eaapp)

**TIP-ON**

**Planning**

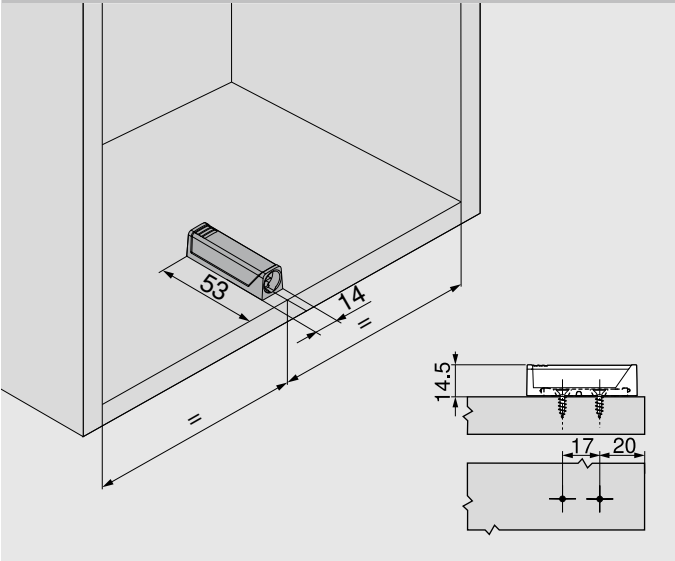
**TIP-ON for drilling fixing position**



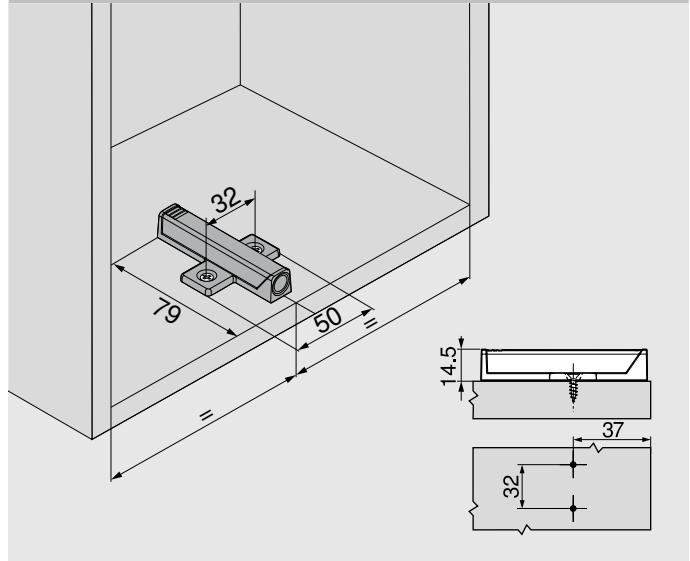
For stay lifts up to and including a height of 600 mm

**TIP-ON adapter plate fixing position**

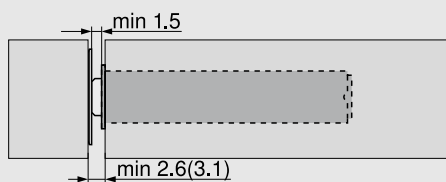
**Straight adapter plate – short version**



**Cruciform adapter plate**



**Installation dimensions for front gap**



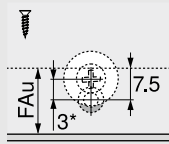
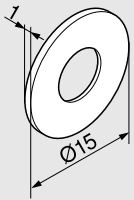
min. 2.6 mm with glue-on catch plate

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

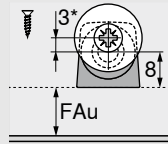
**TIP-ON**

**Planning**

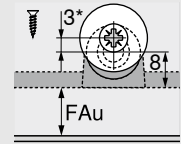
**Screw-on catch plate planning**



For drilling



Straight adapter plate

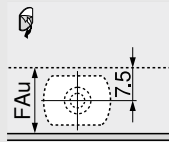
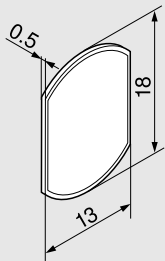


Cruciform adapter plate

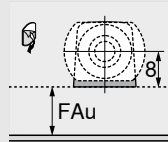
\* For the screw-on catch plate we recommend positioning the catch plate 3 mm away from TIP-ON.

FAu Bottom front overlay

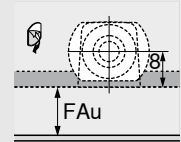
**Glue-on catch plate planning**



For drilling



Straight adapter plate



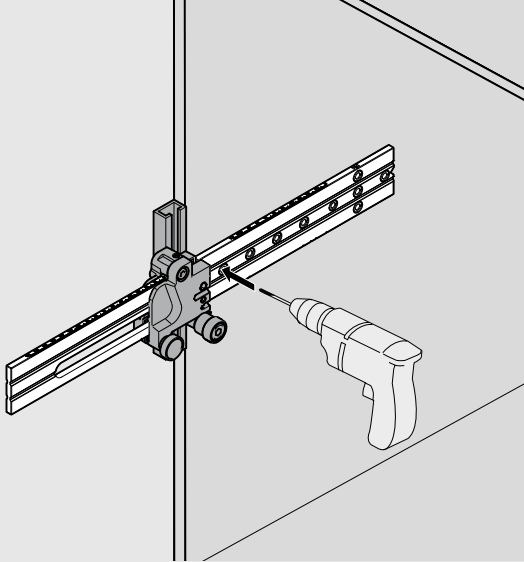
Cruciform adapter plate

FAu Bottom front overlay

Standard, SERVO-DRIVE and TIP-ON

Planning

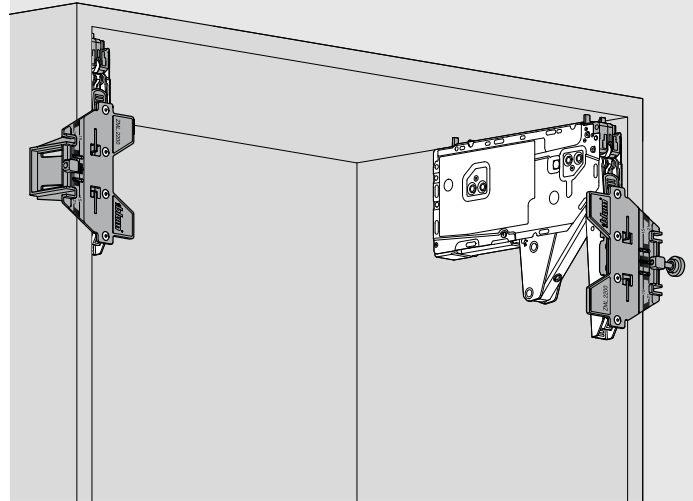
Cabinet assembly



Universal individual template  
can be used for all lift systems

65.1051.02

Front assembly template



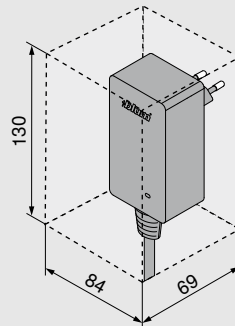
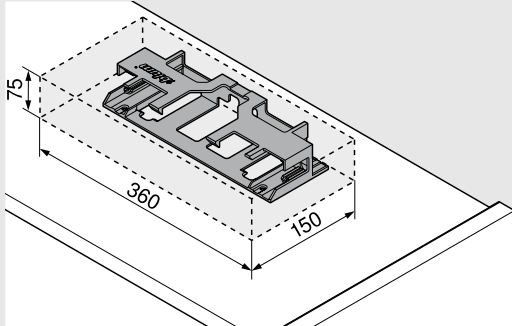
Marking template for AVENTOS HK top  
for front fixing bracket

ZML.2200

## SERVO-DRIVE power supply unit and accessories

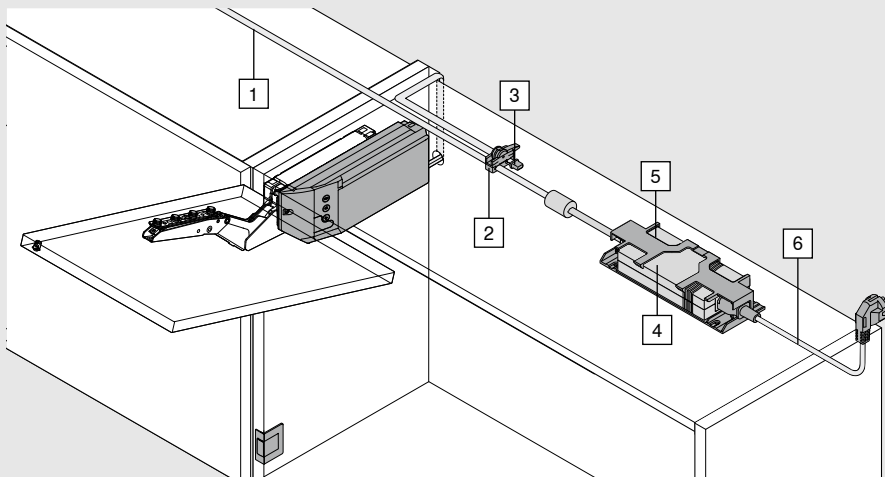
### Planning

#### 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 or SERVO-DRIVE plug-in power supply unit could overheat.

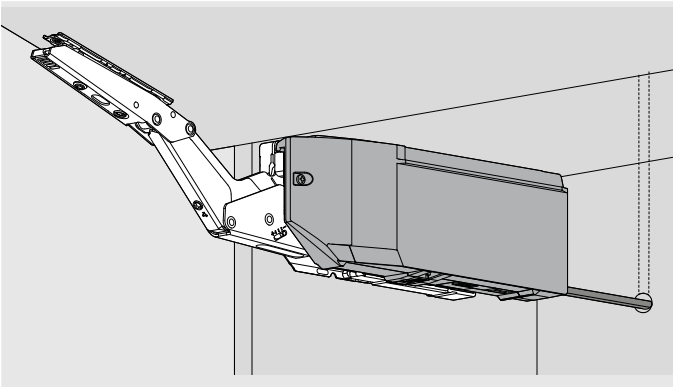
#### Assembly on the cabinet top panel



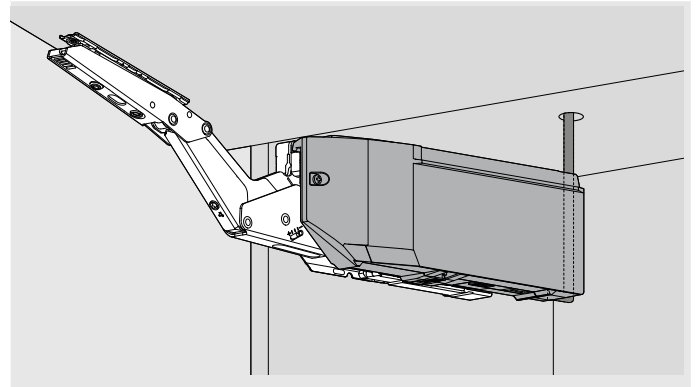
- 1 SERVO-DRIVE distribution cable
- 2 Connecting node
- 3 Cable end protector
- 4 SERVO-DRIVE power supply unit
- 5 Power supply unit housing
- 6 Flex

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

#### Back cabling



#### Top cabling



Find more information on assembly and adjustment of SERVO-DRIVE for AVENTOS top at [www.blum.com/servodrive-aventos-assembly](http://www.blum.com/servodrive-aventos-assembly)

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Our site in the USA is certified to ISO 9001.  
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Certified Quality  
System



**ISO 14001**  
Certified Environmental  
System



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