

# AVENTOS

## Lift Systems



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

 **blum**<sup>®</sup>

# The latest generation in our comprehensive repertoire

With a focus on efficiency and ease of use, the new AVENTOS top program sets a new standard in functionality and convenience. We have reduced the size of the mechanism to optimize space within the cabinet and streamlined the installation process. This takes the guesswork out of measuring and calculating positions for a seamless experience. Building upon years of innovation, our newest evolution improves both form and function.

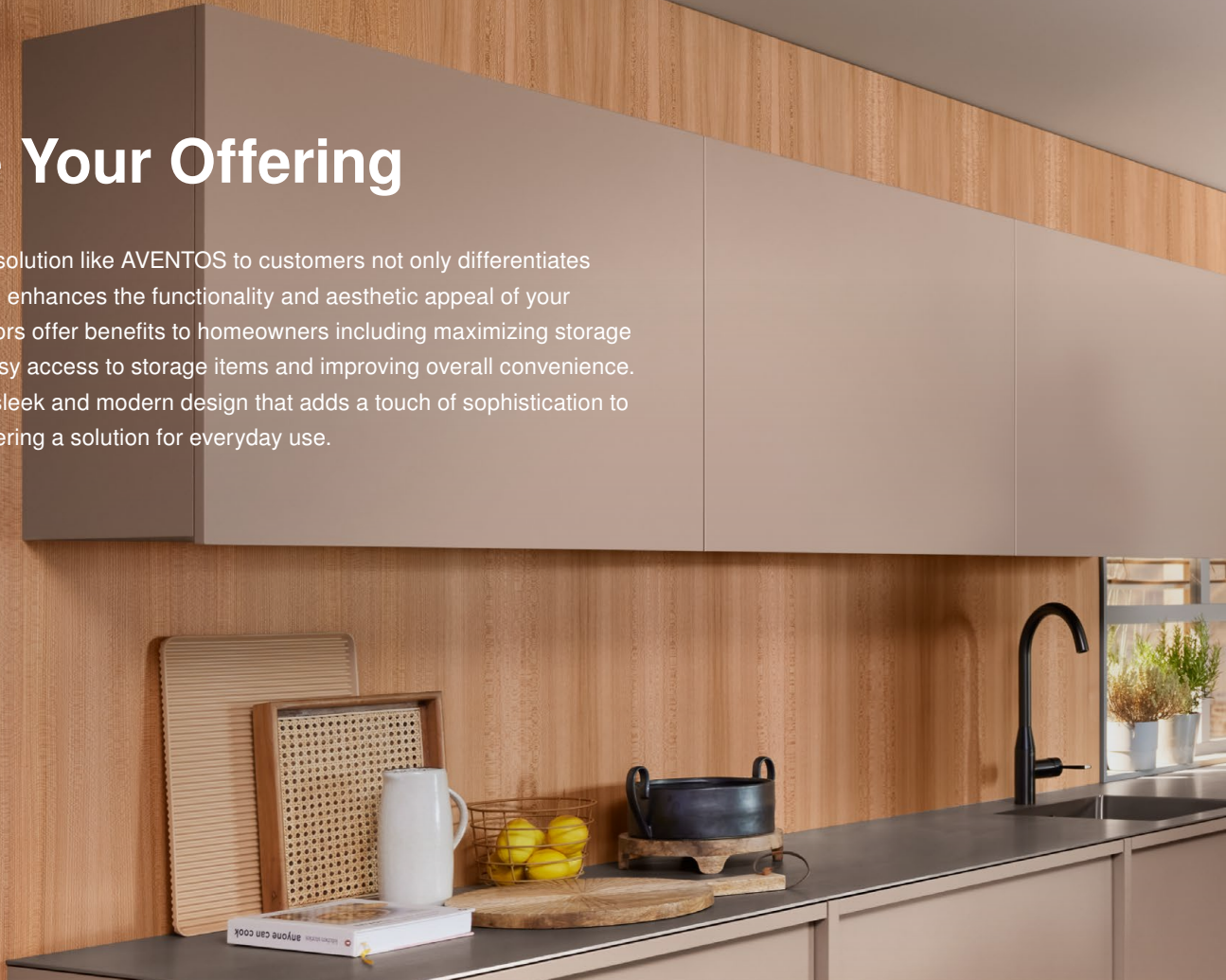


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# Elevate Your Offering

Providing a unique solution like AVENTOS to customers not only differentiates your brand, but also enhances the functionality and aesthetic appeal of your cabinets. Lift-up doors offer benefits to homeowners including maximizing storage space, providing easy access to storage items and improving overall convenience. AVENTOS lends a sleek and modern design that adds a touch of sophistication to any space while offering a solution for everyday use.



## Simplified Assembly and Installation with Positioning System

Thanks to the integrated positioning system, you can install the lift mechanism quickly, easily and correctly – and without any calculations.



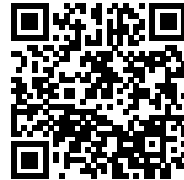
## Effortless Opening and Closing with Integrated Motion Technology

The integrated BLUMOTION soft-close mechanism offers effortless closing every time. You can also incorporate the SERVO-DRIVE electrical opening support system or TIP-ON mechanical opening support system so handleless cabinet fronts open with a light touch.



### Customized Solution with Wide Range of Applications

No matter the need, we have a lift system that can fulfill it. Whether the cabinet door should fold, swing up and over, pivot or lift straight up, cabinet interiors are fully visible once the door is completely out of the way.



More information  
about AVENTOS:  
[www.blum.com/aventostop](http://www.blum.com/aventostop)



# Reliable Quality

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



We're committed to creating a powerful product experience. We constantly test product durability through rigorous standards knowing a kitchen will last 20+ years. Because we are so confident in our quality, we offer a limited lifetime warranty on our products as long as the original owner has possession of the cabinet. A full 5-year warranty is offered when electrical components manufactured by Blum are used in combination with our other products.

### Precision Testing

Each piece of hardware is tested extensively according to strict criteria. Testing is performed in our own labs, as well as in conjunction with international testing organizations. An AVENTOS lift system is subjected to 80,000 opening and closing cycles in Blum's in-house laboratories. Only then are we satisfied with the quality.



## Moving Ideas for Sustainability

Blum has been a global leader in sustainability, energy efficiency and carbon reduction for decades. Our overarching policy is informed by the United Nations' 17 Sustainable Development Goals, with special focus on those most closely aligned with our operations and our ability to make a positive impact. Each year we establish new goals for reducing wasted material, water and energy to ensure our production facilities have as little impact on the environment as possible.

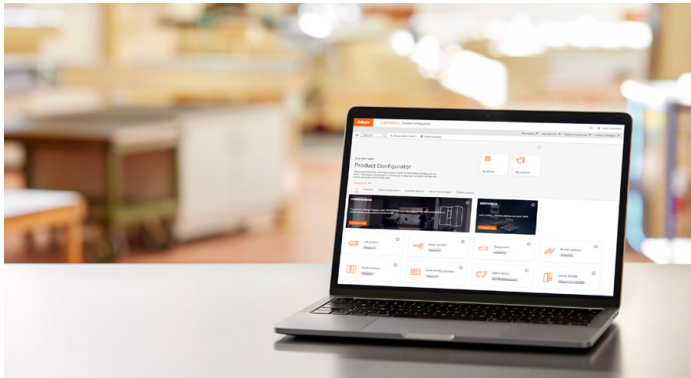
# Solutions for All Applications



### Accessibility Meets Design Freedom

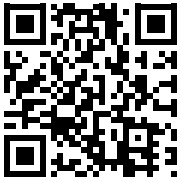
Since the cabinet doors open upwards, AVENTOS provides an excellent view into the cabinet interior, enabling comfortable and ergonomic access to storage items.

The AVENTOS program opens up a whole new world of design possibilities for kitchen and office spaces. Even the widest and heaviest doors can be accommodated. Wide base cabinet designs can now be mirrored in the wall cabinets above to create a more uniform look.



### Easy Planning for AVENTOS

Blum's Product Configurator provides a parts list and planning information based on your specifications. Once complete, you can export your results to a shareable document.



Learn more about the Product Configurator:  
[www.blum.com/configurator](http://www.blum.com/configurator)

AVENTOS HF top		Frameless and face frame cabinet		
	<b>Bi-fold door</b> Height range: <b>480</b> (18-7/8") to <b>1219</b> (48") Cabinet widths up to <b>1828</b> (72")	Wood or wide aluminum frame door	Narrow aluminum frame door	SERVO-DRIVE
	Ordering information	page 11	page 11	page 13, 66
	Cabinet preparation	page 14	page 14	page 18

AVENTOS HS top		Frameless and face frame cabinet		
	<b>Up-and-over door</b> Height range: <b>350</b> (13-3/4") to <b>800</b> (31-1/2") Cabinet widths up to <b>1828</b> (72")	Wood or wide aluminum frame door	Narrow aluminum frame door	SERVO-DRIVE
	Ordering information	page 21	page 21	page 23, 66
	Cabinet preparation	page 24	page 24	page 26

AVENTOS HL top		Frameless and face frame cabinet		
	<b>Lift up door</b> Height range: <b>300</b> (11-13/16") to <b>580</b> (22-13/16") Cabinet widths up to <b>1828</b> (72")	Wood or wide aluminum frame door	Narrow aluminum frame door	SERVO-DRIVE
	Ordering information	page 29	page 29	page 31, 66
	Cabinet preparation	page 32	page 32	page 35

AVENTOS HK top		Frameless and face frame cabinet		
	<b>Stay lift door</b> Height range: <b>205</b> (8") to <b>610</b> (24") Cabinet widths up to <b>1828</b> (72")	Wood or wide aluminum frame door	Narrow aluminum frame door	SERVO-DRIVE
	Ordering information	page 37	page 37	page 39, 66
	Cabinet preparation	page 43	page 43	page 45

AVENTOS HK-S		Frameless and face frame cabinet		
	<b>Stay lift door</b> Height range: <b>186</b> (7-3/8") to <b>610</b> (24") Cabinet widths up to <b>1828</b> (72")	Wood or wide aluminum frame door	Narrow aluminum frame door	TIP-ON for AVENTOS
	Ordering information	page 47	page 47	page 48
	Cabinet preparation	page 50	page 50	page 50

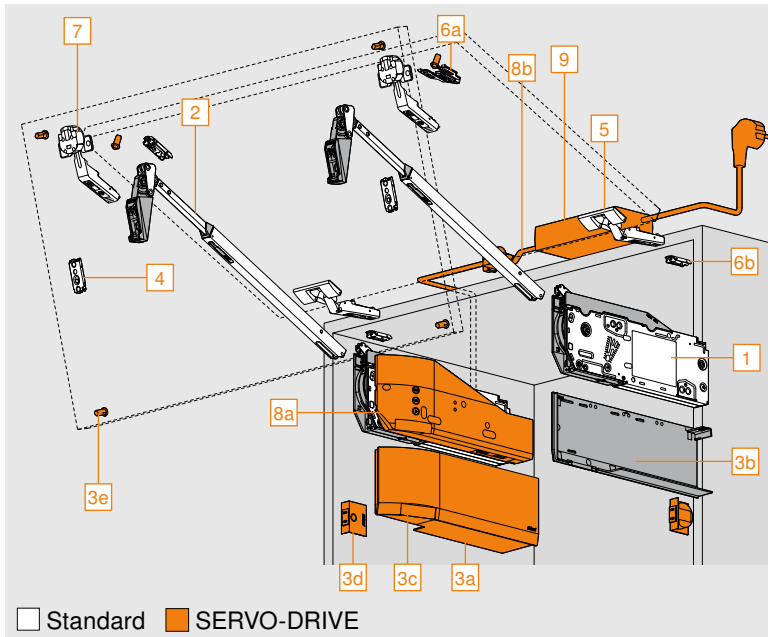
AVENTOS HK-XS		Frameless and face frame cabinet		
	<b>Stay lift door</b> Height range: <b>238</b> (9-3/8") to <b>610</b> (24") Cabinet widths up to <b>1828</b> (72")	Wood or wide aluminum frame door	Narrow aluminum frame door	TIP-ON for AVENTOS
	Ordering information	page 53	page 53	page 55
	Cabinet preparation	page 57	page 58	page 60

# AVENTOS HF top

Up and Out of the Way



**Ordering Information**



- Ideal for taller wall cabinets with bi-fold doors
- Cabinet height **480** (18-7/8") to **1219** (48")
- Cabinet width up to **1828** (72")
- Inside depth of at least **264** (10-3/8")
- Integrated BLUMOTION for soft and effortless closing
- Light operating forces
- Variable stop
- Integrated opening angle stop
- Fixed position of the lift mechanism and mounting plate for lever
- Symmetrical levers
- Tool-free assembly
- Two lift mechanism fixing methods
- 3-dimensional adjustment of both doors
- Center hinge with finger safety feature

**Note**

**Power factor = cabinet height\* [inch] x combined door weight including handle weight [lb]**

\*Calculate with theoretical cabinet height (TKH) for asymmetrical doors

For asymmetrical doors: **theoretical cabinet height (TKH) = door height top (FHo) [inch] x 2 + gaps**

The larger door must be at the top for asymmetrical doors.

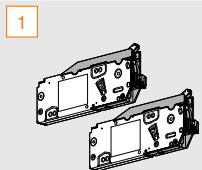
We recommend the more powerful lift mechanism for applications in overlapping ranges. A trial application is recommended when you are in a borderline area of the individual lift mechanism's power factor range.

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 door from sagging when open.

**Lift mechanism set**  Standard  SERVO-DRIVE

**Fixing with wood screws and positioning system**



**Set includes:**

- Symmetrical lift mechanism with positioning system (qty 2)
- Wood screws Ø4 x 35 (qty 8)

**Power factor**

238–1188

880–1698

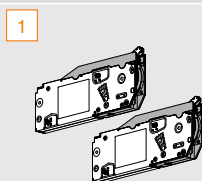
**Part no.**

22F2500

22F2800

**Lift mechanism set**  Standard  SERVO-DRIVE

**Fixing with pre-attached system screws**



**Set includes:**

- Symmetrical lift mechanism with pre-attached system screws (qty 2)

**Power factor**

238–1188

880–1698

**Part no.**

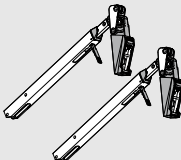
22F2510

22F2810

**Ordering Information**

**Lever set**

**2**



**Set includes:**

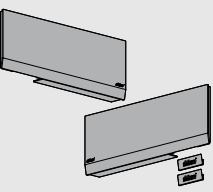
- Symmetrical lever (qty 2)

\*For asymmetrical doors:  
**theoretical cabinet height (TKH) = door height top (FHo) x 2 + gaps**

Cabinet height*	Part no.
480 (18-7/8")–610 (24")	<b>22F3200</b>
600 (23-5/8")–910 (35-7/8")	<b>22F3500</b>
840 (33-1/8")–1219 (48")	<b>22F3900</b>

**Cover cap set**

**3**



**Set includes:**

- Cover cap left
- 3b** Cover cap right
- 3c** Stainless steel branding element – Blum logo (qty 2)

Specify color when ordering:

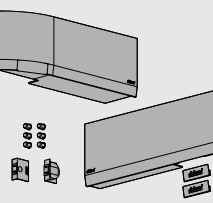
- Dark gray (TGR)
- Silk white (SW)
- Light gray (HGR)

Part no.

Cover cap set	<b>22.8000.NA</b>
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**Cover cap set for SERVO-DRIVE**

**3**



**Set includes:**

- 3a** SERVO-DRIVE cover cap left (qty 1)
- 3b** Cover cap right (qty 1)
- 3c** Stainless steel branding element – Blum logo (qty 2)
- 3d** SERVO-DRIVE switch (qty 2)
- 3e** Blum distance bumper Ø5 (qty 6)

Specify color when ordering:

- Dark gray (TGR)
- Silk white (SW)
- Light gray (HGR)

Part no.

Cover cap set for SERVO-DRIVE	<b>23.8000.NA</b>
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**Branding element (optional)**

**3c**



Specify color when ordering dark gray (TGR) or silk white matte (SW-M)

- Dark gray (TGR)
- Silk white matte (SW-M)
- Stainless steel (IN-G)

	SW-M, TGR	IN-G
Printed* (qty 2)	<b>ABD.1000.BL</b>	<b>ABD.1009.BL</b>
Embossed* (qty 2)	<b>ABD.1000.BT</b>	<b>ABD.1009.BT</b>
Plain (qty 2)	<b>ABD.1000</b>	<b>ABD.1009</b>

\*Branding element is printed or embossed with Blum logo

**Customized branding element**

Printed: 1000 pc minimum

Embossed: 5000 pc minimum

**Wood or wide aluminum door hardware set for frameless or partial overlay face frame**

**Set includes:**

<b>4</b>	Mounting plate for lever; in-line (qty 2)	Screw-on	175H3100
<b>5</b>	CLIP top 120° free swing hinge (qty 2)	Press-in	70T5580.TL
<b>6a</b>	CLIP mounting plate; face frame (qty 4)	Screw-on	175H6000
<b>7</b>	CLIP top center hinge (qty 2)	Press-in	78Z5530T

Part no.

Hardware set – frameless or partial overlay face frame	<b>78Z5530T28</b>
--------------------------------------------------------	-------------------

## Ordering Information

Wood or wide aluminum door hardware set for large overlay face frame			
<b>Set includes:</b>			
4	Mounting plate for lever for large overlay 5-piece doors (qty 2)	Screw-on	175H3F00
5	COMPACT 33 free swing hinge (qty 2)	Press-in	32.4630
6a	CLIP mounting plate; face frame (qty 2)	Screw-on	175H6000
6b	COMPACT 33 mounting plate; 1-1/4" overlay (qty 2)	Screw-on	130.1130.02
7	CLIP top center hinge (qty 2)	Press-in	78Z5530T
			Part no.
Hardware set – large overlay face frame			<b>78Z5530TA9</b>

Narrow aluminum door hardware set			
<b>Set includes:</b>			
4	CLIP narrow al. mounting plate for lever (qty 2)	Screw-on	175H5B00
5	CLIP top free swing narrow al. top door hinge (qty 2)	Screw-on	72T550A.TL
6a	CLIP narrow al. center hinge mounting plate (qty 2)	Screw-on	175H5A00
6b	CLIP top door mounting plate; in-line (qty 2)	Screw-on	175H3100
7	CLIP top narrow al. center hinge (qty 2)	Screw-on	78Z550AT
-	Aluminum screw for center mounting plate, bottom hinge, top hinge, and mounting plate for lever (qty 18)		699.110
			Part no.
Hardware set – narrow aluminum			<b>78Z550ATA6</b>

SERVO-DRIVE set			
<div style="border: 1px solid gray; padding: 5px;"> <p>8</p> </div>	<b>Set includes:</b>		
	8a	SERVO-DRIVE drive unit (qty 1)	
	8b	SERVO-DRIVE distribution cable, 1500 (qty 1)	
	-	Connecting node (qty 1)	
	-	Cable end protector (qty 2)	
			Part no.
SERVO-DRIVE set			<b>23.A000</b>

SERVO-DRIVE power supply unit and accessories	
9	See page 66 for complete ordering information

**Planning**

**Space requirement**

KH = Cabinet height

**Space requirement upper**

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

FD = Door thickness  
FH = Door height

Opening angle stop	Y
None	$FH \times 0.44 + 38$
107°	$FH \times 0.29 + 35$
97°	$FH \times 0.12 + 31$
88°	28
81°	0

**Symmetrical door**

F1 = Gap 1  
F2 = Gap 2  
F3 = Gap 3

FHo = Door height top  
FHu = Lower door height  
KH = Cabinet height

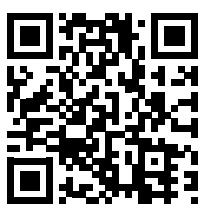
$KH = FHo \times 2 + F1 + F2 + F3$

**Asymmetrical door**

F1 = Gap 1  
F2 = Gap 2  
F3 = Gap 3

FHo = Door height top  
FHu = Lower door height  
TKH = Theoretical cabinet height

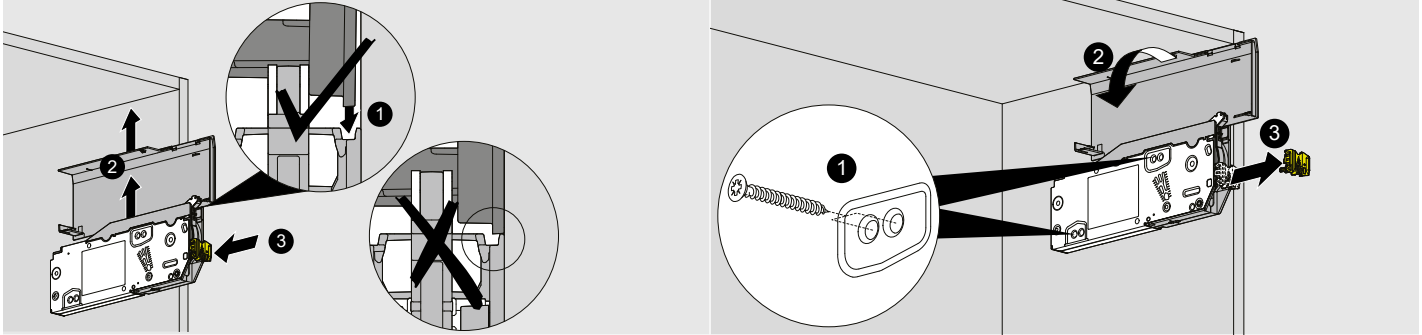
$TKH = FHo \times 2 + F1 + F2 + F3$



Blum's Product Configurator is recommended for planning asymmetrical door applications  
[www.blum.com/configurator](http://www.blum.com/configurator)

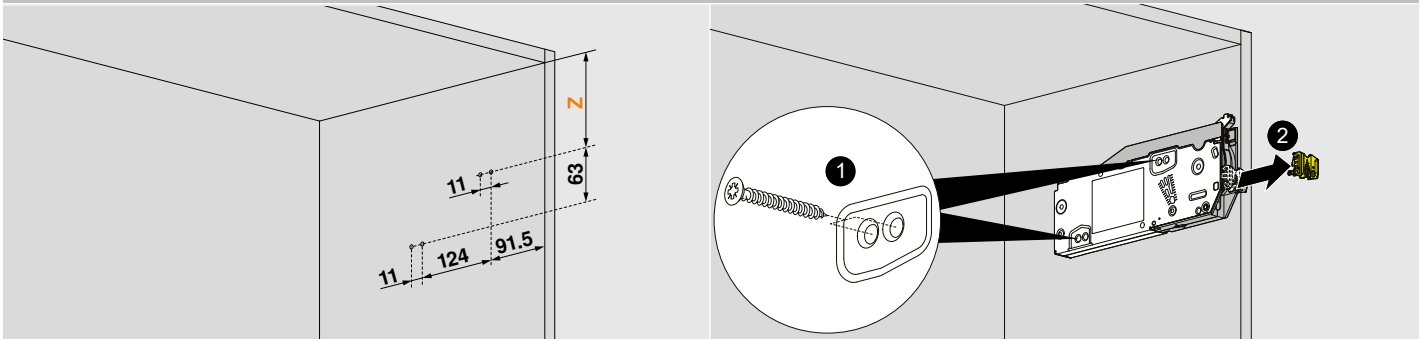
Planning

Lift installation with positioning system (no pre-drilling required) - Frameless cabinet with CLIP top hinges



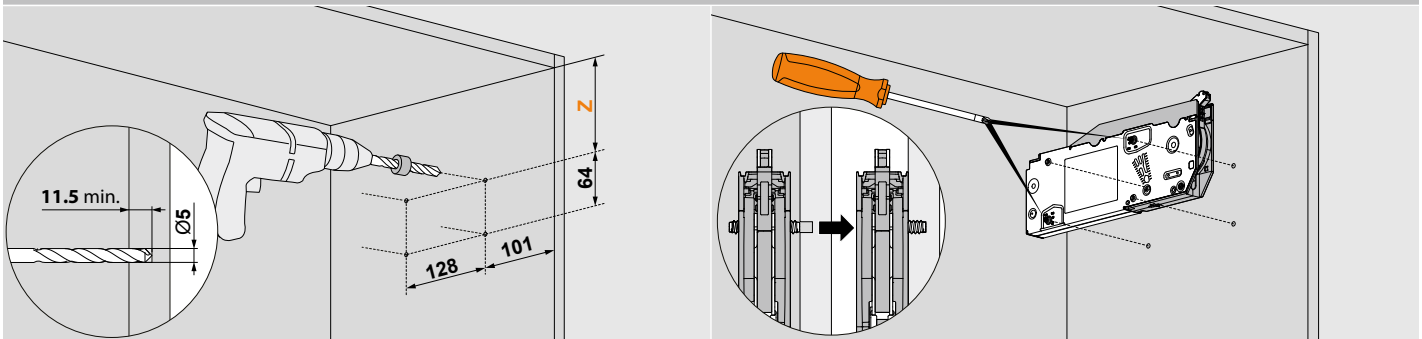
4 x wood screws Ø4 x 35

Lift installation with positioning system



4 x wood screws Ø4 x 35

Lift installation with system screws



Cabinet type	Hinge	Cabinet height range	Z
Face frame with block-out	COMPACT/COMPACT CLIP	560 (22")–1219 (48")	99.5
		480 (18-7/8")–519 (20-1/2")	77.5
Face frame with block-out	CLIP top	560 (22")–1219 (48")	119.5
		480 (18-7/8")–559 (22")	84.5
Frameless	CLIP top	520 (20-1/2")–1219 (48")	116
		480 (18-7/8")–559 (22")	93

Face frame application

See page 62 for information on face frame mounting brackets.

**Planning**

**Wooden Doors and Wide Aluminum Frames**

Lever set mounting plate location for wood and wide aluminum frames

Cabinet type	Hinge	Cabinet height (KH)	Z
Frameless	CLIP top	480 (18-7/8")–519 (20-1/2")	170
		520 (20-1/2")–1219 (48")	189
Face frame	CLIP top	480 (18-7/8")–559 (22")	172
		560 (22")–1219 (48")	194
Face frame	COMPACT COMPACT CLIP	480 (18-7/8")–559 (22")	170
		560 (22")–1219 (48")	189

F1 = Gap 1  
 F2 = Gap 2  
 FAu = Bottom door overlay  
 FHo = Door height top  
 FHu = Lower door height  
 SFA = Side door overlay

**Frameless Application**

**CLIP top hinge**

Top door hinge

\*Bore at 3 then adjust 1

Overlay				
13*	14	15	16	17
3	3	4	5	6

B = Bore distance

**Face Frame Application**

**CLIP top hinge**

Top door hinge – small overlay

Top door hinge – large overlay

\*Bore at 3 then adjust 1

Overlay					Overlay
13*	14	15	16	17	32 (1-1/4")
3	3	4	5	6	3 (1/8")

B = Bore distance

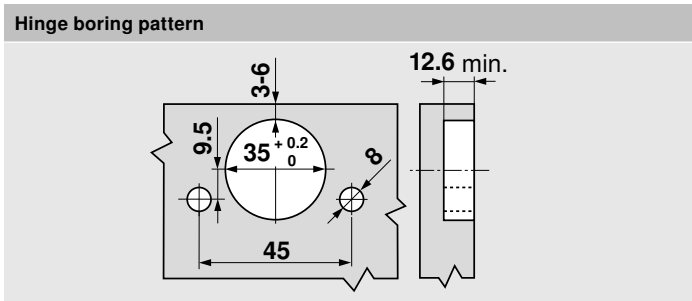
**CLIP top hinge**

Bottom door hinge

Reveal

Reveal			
6	5	4	3
3	4	5	6

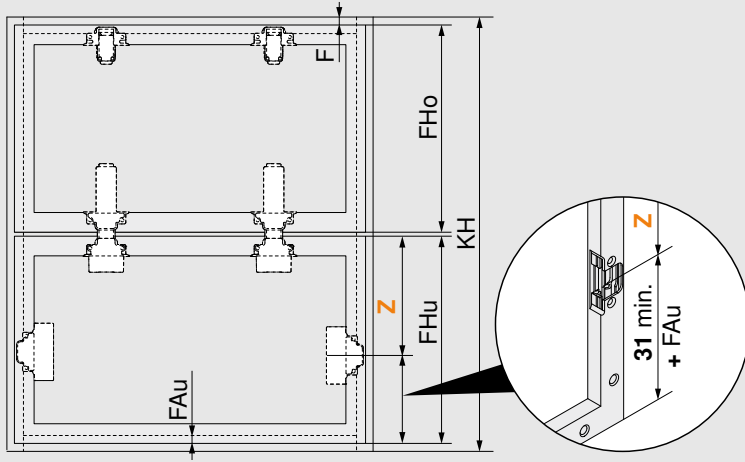
B = Bore distance



Planning

Narrow Aluminum Frames

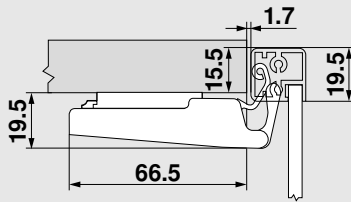
Lever set mounting plate location for narrow aluminum frames



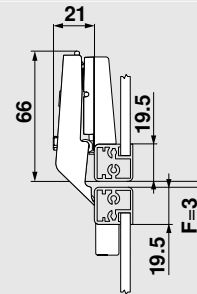
Cabinet height (KH)	Z
480-519	188
520-1219	207

F = Gap  
 FAu = Bottom door overlay  
 FHo = Door height top  
 FHu = Lower door height

CLIP top 120° aluminum frame door hinge



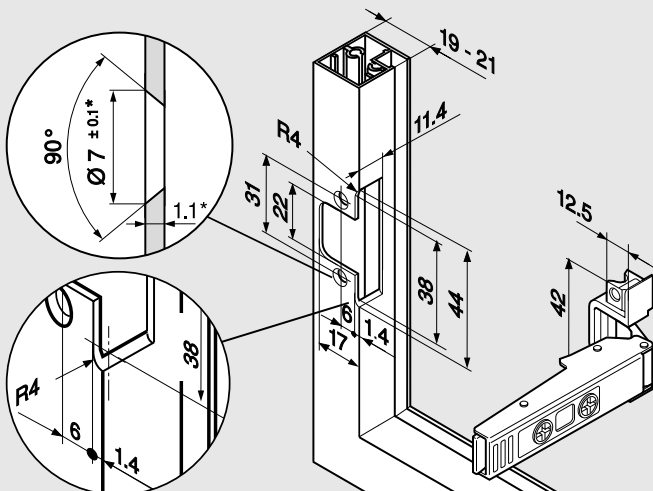
CLIP top aluminum center hinge



F = 1.5 minimum gap

The gap needs to be adjusted for frame thicknesses over 20.5

Screw-on assembly (hinge | adapter plate)

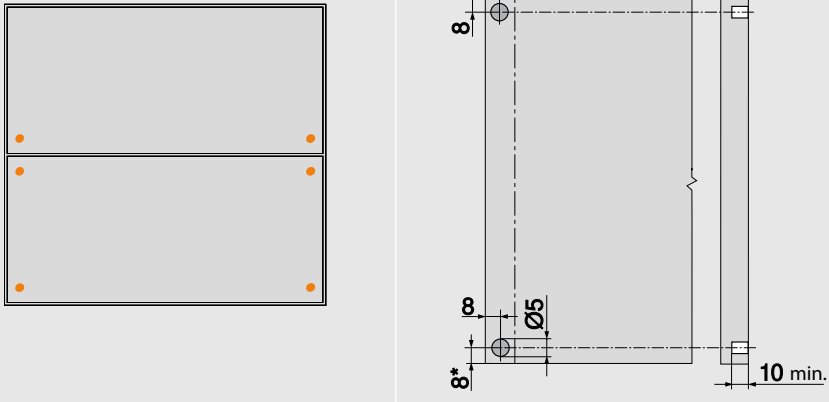


\*When changing material thickness, adjust the assembly dimensions accordingly

**Planning**

**SERVO-DRIVE for AVENTOS HF top**

**Blum distance bumper (SERVO-DRIVE application only)**



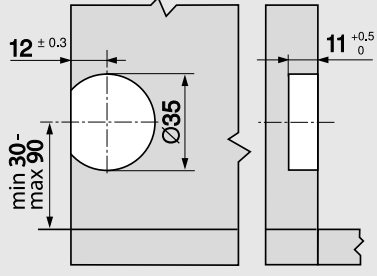
**NOTE:** The distance bumper should not touch the SERVO-DRIVE switch

Insert Blum distance bumper (do not glue)

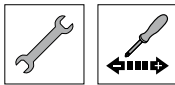
**Recommendation for aluminum frames**

- Consider drilling the Blum distance bumper in the cabinet side
- A trial application must be carried out when fixing to the door
- \*From cabinet bottom edge for doors that protrude below

**SERVO-DRIVE switch**



**Installation and Adjustment Instructions**



Use QR code or link below for AVENTOS HF top installation and adjustment instructions  
[www.blum.com/hftopassembly](http://www.blum.com/hftopassembly)

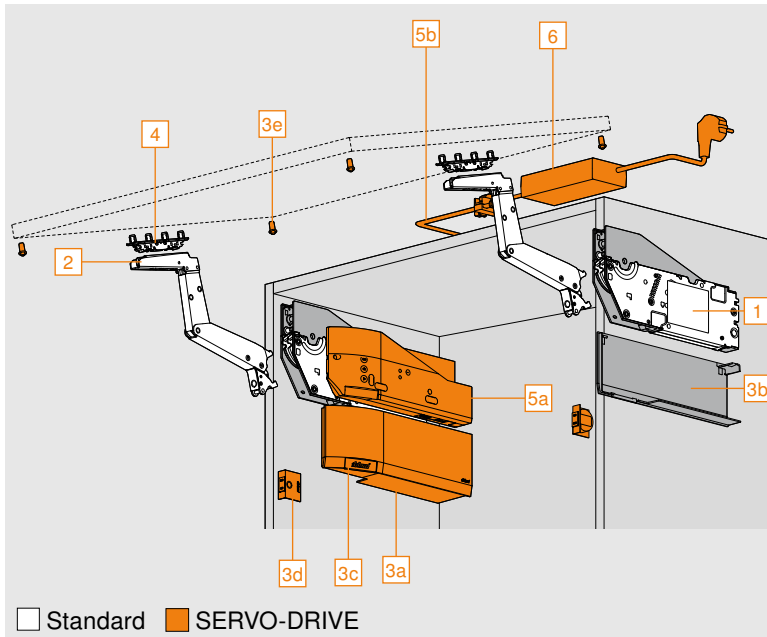


# AVENTOS HS top

Up, Over and Out of the Way



### Ordering Information



- Ideal for large, one-part doors
- Cabinet height **350** (13-3/4") to **800** (31-1/2")
- Cabinet width up to **1828** (72")
- Inside depth of at least **264** (10-3/8")
- Integrated BLUMOTION for soft and effortless closing
- Light operating forces
- Variable stop
- Fixed position of the lift mechanism and door mounting plate
- Symmetrical levers
- Tool-free assembly
- Two lift mechanism fixing methods
- 3-dimensional adjustment of the door

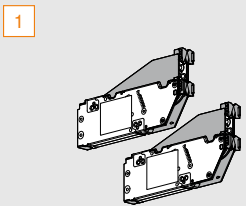
#### Note

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's power factor range.

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 door from sagging when open.

Lift mechanism set

#### Fixing with wood screws and positioning system

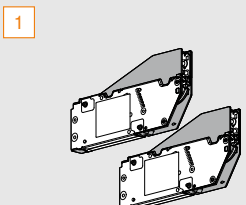


- Set includes:**
- Symmetrical lift mechanism with positioning system (qty 2)
  - Wood screws Ø4 x 35 (qty 8)

Cabinet height	Door weight (lb/oz)	Part no.
<b>350</b> (13-3/4")– <b>450</b> (17-5/8")	<b>4/6–25/5</b>	<b>22S2200</b>
<b>450</b> (17-5/8")– <b>540</b> (21-1/4")	<b>5/8–27/9</b>	<b>22S2500</b>
<b>480</b> (18-7/8")– <b>660</b> (25-7/8")	<b>6/1–33/10</b>	<b>22S2800</b>
<b>650</b> (25-1/2")– <b>800</b> (31-3/8")	<b>7/11–40/13</b>	<b>22S2800</b>

Lift mechanism set

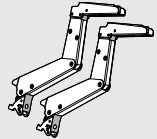
#### Fixing with pre-attached system screws

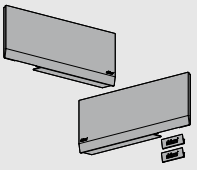


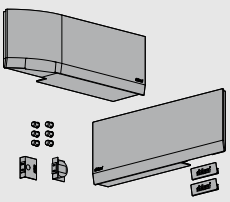
- Set includes:**
- Symmetrical lift mechanism with pre-attached system screws (qty 2)

Cabinet height	Door weight (lb/oz)	Part no.
<b>350</b> (13-3/4")– <b>450</b> (17-5/8")	<b>4/6–25/5</b>	<b>22S2210</b>
<b>450</b> (17-5/8")– <b>540</b> (21-1/4")	<b>5/8–27/9</b>	<b>22S2510</b>
<b>480</b> (18-7/8")– <b>660</b> (25-7/8")	<b>6/1–33/10</b>	<b>22S2810</b>
<b>650</b> (25-1/2")– <b>800</b> (31-3/8")	<b>7/11–40/13</b>	<b>22S2810</b>

**Ordering Information**

<b>Lever set</b> <input type="checkbox"/> <input checked="" type="checkbox"/>	
	<b>Set includes:</b> – Symmetrical levers (qty 2)
	Part no. Symmetrical lever set <b>22S3500</b>

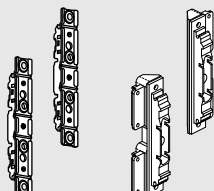
<b>Cover cap set</b> <input type="checkbox"/>	
	<b>Set includes:</b> <input type="checkbox"/> Cover cap left <input checked="" type="checkbox"/> <b>3b</b> Cover cap right <input checked="" type="checkbox"/> <b>3c</b> Stainless steel branding element – Blum logo (qty 2)
	Specify color when ordering: <input checked="" type="checkbox"/> Dark gray (TGR) <input type="checkbox"/> Silk white (SW) <input type="checkbox"/> Light gray (HGR)
Part no. Cover cap set <b>22.8000.NA</b>	


<b>Cover cap set for SERVO-DRIVE</b> <input checked="" type="checkbox"/>	
	<b>Set includes:</b> <input checked="" type="checkbox"/> <b>3a</b> SERVO-DRIVE cover cap left (qty 1) <input checked="" type="checkbox"/> <b>3b</b> Cover cap right (qty 1) <input checked="" type="checkbox"/> <b>3c</b> Stainless steel branding element – Blum logo (qty 2) <input checked="" type="checkbox"/> <b>3d</b> SERVO-DRIVE switch (qty 2) <input checked="" type="checkbox"/> <b>3e</b> Blum distance bumper Ø5 (qty 6)
	Specify color when ordering: <input checked="" type="checkbox"/> Dark gray (TGR) <input type="checkbox"/> Silk white (SW) <input type="checkbox"/> Light gray (HGR)
Part no. Cover cap set for SERVO-DRIVE <b>23.8000.NA</b>	

<b>Branding element (optional)</b> <input type="checkbox"/> <input checked="" type="checkbox"/>												
	Specify color when ordering dark gray (TGR) or silk white matte (SW-M) <input checked="" type="checkbox"/> Dark gray (TGR) <input type="checkbox"/> Silk white matte (SW-M) <input type="checkbox"/> Stainless steel (IN-G)											
	<table border="1"> <thead> <tr> <th></th> <th>SW-M, TGR</th> <th>IN-G</th> </tr> </thead> <tbody> <tr> <td>Printed* (qty 2)</td> <td><b>ABD.1000.BL</b></td> <td><b>ABD.1009.BL</b></td> </tr> <tr> <td>Embossed* (qty 2)</td> <td><b>ABD.1000.BT</b></td> <td><b>ABD.1009.BT</b></td> </tr> <tr> <td>Plain (qty 2)</td> <td><b>ABD.1000</b></td> <td><b>ABD.1009</b></td> </tr> </tbody> </table>		SW-M, TGR	IN-G	Printed* (qty 2)	<b>ABD.1000.BL</b>	<b>ABD.1009.BL</b>	Embossed* (qty 2)	<b>ABD.1000.BT</b>	<b>ABD.1009.BT</b>	Plain (qty 2)	<b>ABD.1000</b>
	SW-M, TGR	IN-G										
Printed* (qty 2)	<b>ABD.1000.BL</b>	<b>ABD.1009.BL</b>										
Embossed* (qty 2)	<b>ABD.1000.BT</b>	<b>ABD.1009.BT</b>										
Plain (qty 2)	<b>ABD.1000</b>	<b>ABD.1009</b>										

\*Branding element is printed or embossed with Blum logo

<b>Customized branding element</b>
Printed: 1000 pc minimum
Embossed: 5000 pc minimum

<b>Door hardware set</b> <input type="checkbox"/> <input checked="" type="checkbox"/>	
	– Use 4 wood screws (606N or 606P) per side for wooden doors. – Use 4 (included) countersunk self-tapping screws (660.0950) per side for narrow aluminum frames.
	Part no. Wooden doors and wide aluminum frames <b>20S4200</b> Narrow aluminum frames <b>20S4200A</b> Large overlay 5-piece doors <b>20S4F01</b>

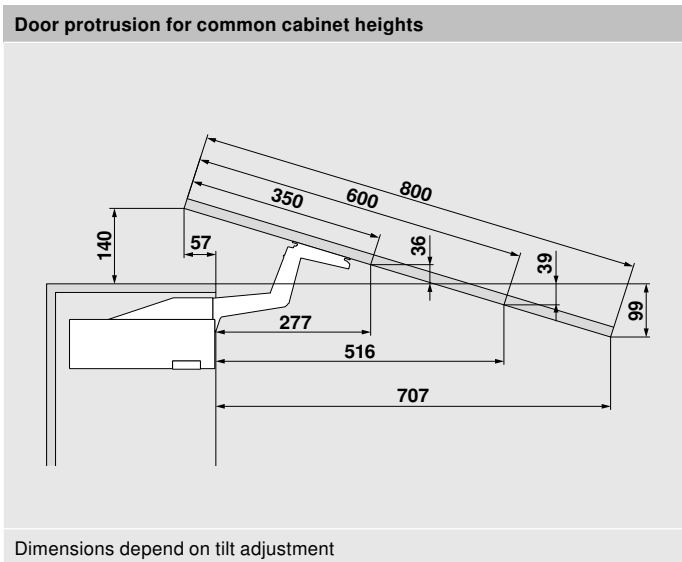
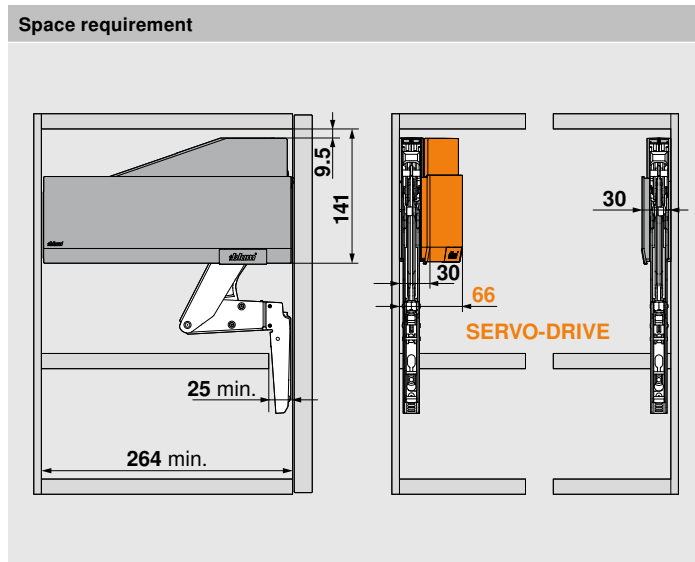
<b>EXPANDO T door mounting plate</b>	
	– EXPANDO T suitable for thin fronts – see page 63 – Thin fronts (qty 2)
	Part no. EXPANDO T door mounting plate <b>20S42T1</b>

## Ordering Information

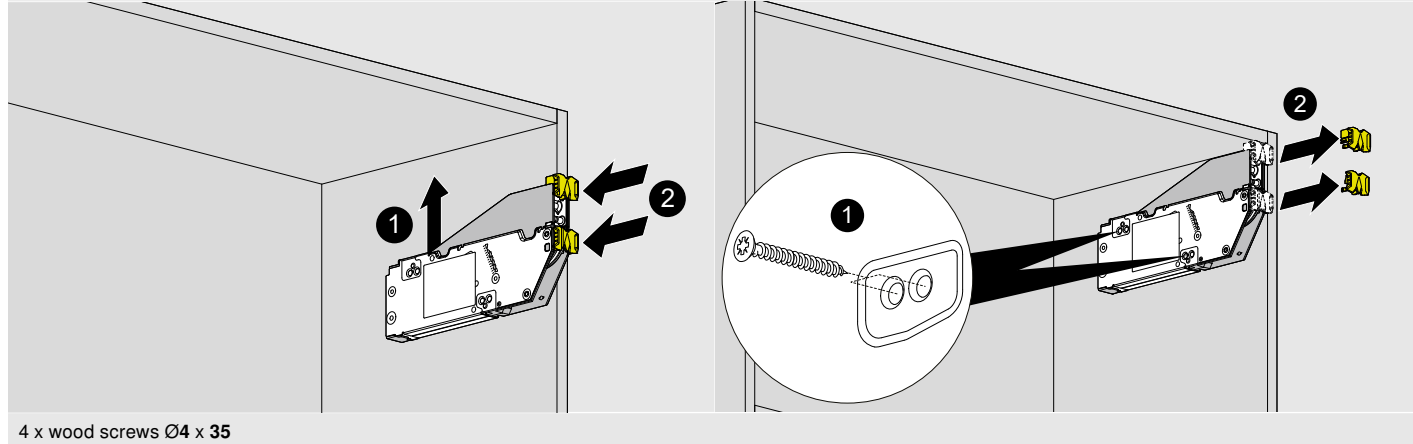
SERVO-DRIVE set <span style="color: orange;">■</span>	
<div style="border: 1px solid gray; padding: 5px; width: 100px; height: 100px; display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid orange; padding: 2px;">5</div>  </div>	<p><b>Set includes:</b></p> <ul style="list-style-type: none"> <li><span style="border: 1px solid orange; padding: 2px;">5a</span> SERVO-DRIVE drive unit (qty 1)</li> <li><span style="border: 1px solid orange; padding: 2px;">5b</span> SERVO-DRIVE distribution cable, <b>1500</b> (qty 1)</li> <li>- Connecting node (qty 1)</li> <li>- Cable end protector (qty 2)</li> </ul> <p><b>NOTE:</b> For three lift mechanisms or more, we recommend two synchronized drive units</p> <p><span style="display: inline-block; width: 15px; height: 15px; background-color: gray; margin-right: 5px;"></span> Dust gray (R7037)</p>
Part no.	
SERVO-DRIVE set	
<b>23.A000</b>	

SERVO-DRIVE power supply unit and accessories
<div style="border: 1px solid gray; padding: 5px;"> <div style="border: 1px solid orange; padding: 2px; display: inline-block;">6</div> See page 66 for complete ordering information                 </div>

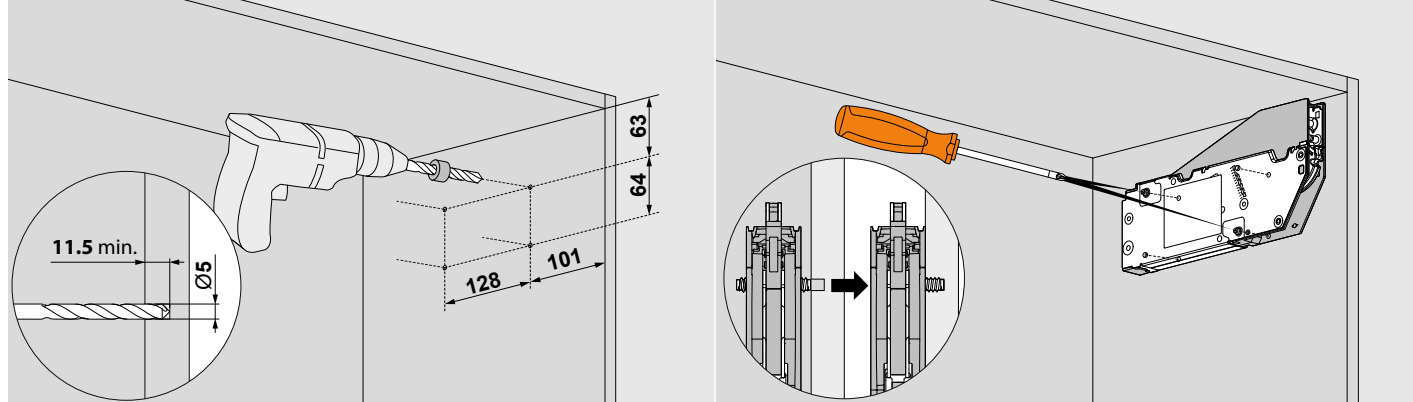
**Planning**



**Lift installation with positioning system (no pre-drilling required)**



**Lift installation with system screws**



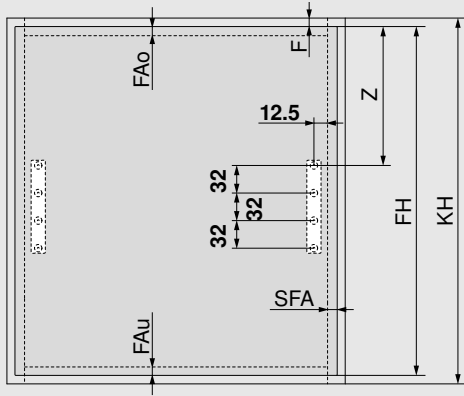
**Face frame application**

See page 62 for information on face frame mounting brackets.

Planning

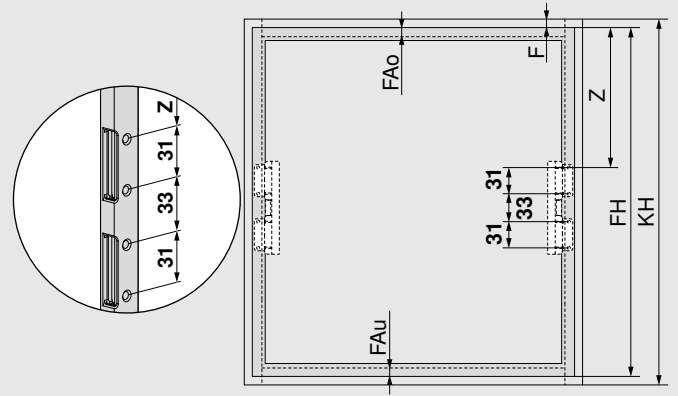
Door Assembly

Wooden doors and wide aluminum frames



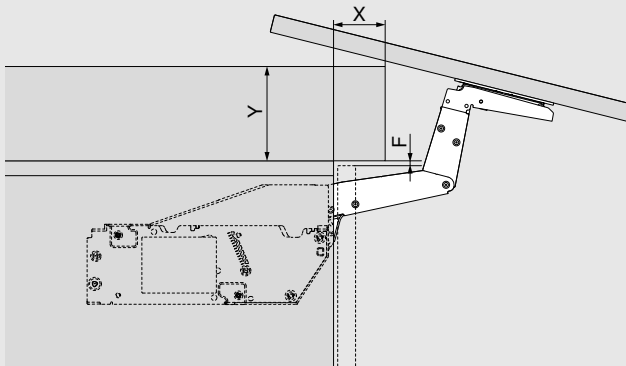
FAo = Upper door overlay  
 FAu = Bottom door overlay  
 F = Gap  
 Z = 195 + FAo  
 FH = Door height  
 KH = Cabinet height  
 SFA = Side door overlay

Narrow aluminum frames



FAo = Upper door overlay  
 FAu = Bottom door overlay  
 F = Gap  
 Z = 195.5 + FAo  
 FH = Door height  
 KH = Cabinet height

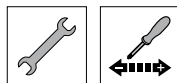
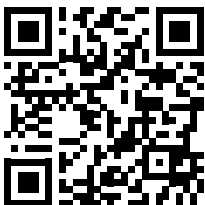
Space requirement – cornice | crown molding



F	3.0	2.0	1.5
X maximum	31	29	27
Y maximum	117	118	119

F = Gap

Installation and Adjustment Instructions



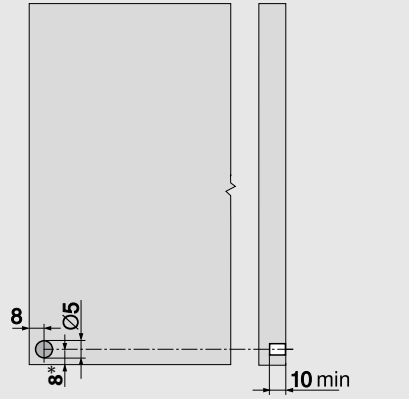
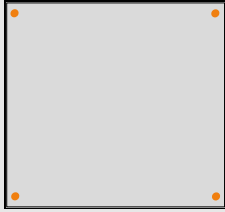
Use QR code or link below for AVENTOS HS top installation and adjustment instructions

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

Planning

SERVO-DRIVE for AVENTOS HS top

Blum distance bumper (SERVO-DRIVE application only)



**NOTE:** The distance bumper should not touch the SERVO-DRIVE switch

Insert Blum distance bumper (do not glue)

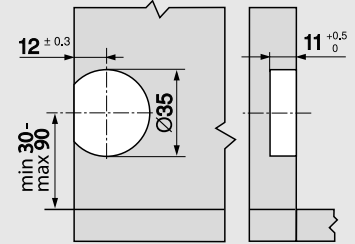
Recommendation for aluminum frames

Consider drilling the Blum distance bumper in the cabinet side

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

\*From cabinet bottom edge for doors that protrude below

SERVO-DRIVE switch



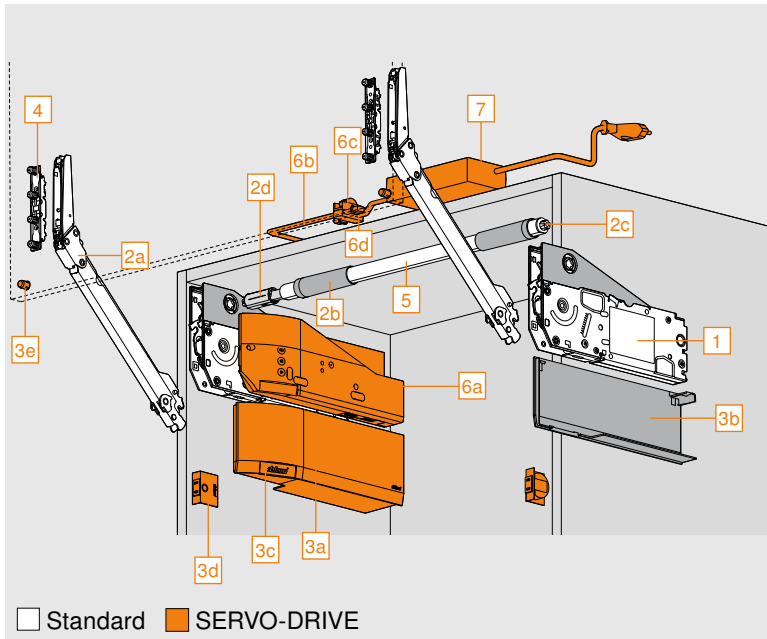


# AVENTOS HL top

Up and Out of the Way



Ordering Information



- Ideal for small one-part doors
- Ideal for appliance garage applications
- Cabinet height **300** (11-13/16") to **580** (22-13/16")
- Cabinet width up to **1828** (72")
- Inside depth of at least **264** (10-3/8")
- Integrated BLUMOTION for soft and effortless closing
- Light operating forces
- Variable stop
- Fixed position of the lift mechanism and door mounting plate
- Symmetrical levers
- Tool-free assembly
- Two lift mechanism fixing methods
- 3-dimensional adjustment of the door

Lift mechanism set <input type="checkbox"/> Standard <input type="checkbox"/> SERVO-DRIVE							
Fixing with wood screws and positioning system							
<p>1</p>	<p><b>Set includes:</b></p> <ul style="list-style-type: none"> <li>- Symmetrical lift mechanism with positioning system (qty 2)</li> <li>- Wood screws Ø4 x 35 (qty 8)</li> </ul>						
<table border="1"> <thead> <tr> <th>Cabinet height</th> <th>Part no.</th> </tr> </thead> <tbody> <tr> <td>300 (11-3/4")-389 (15-1/4")</td> <td>22L2200</td> </tr> <tr> <td>390 (15-1/4")-580 (22-3/4")</td> <td>22L2500</td> </tr> </tbody> </table>		Cabinet height	Part no.	300 (11-3/4")-389 (15-1/4")	22L2200	390 (15-1/4")-580 (22-3/4")	22L2500
Cabinet height	Part no.						
300 (11-3/4")-389 (15-1/4")	22L2200						
390 (15-1/4")-580 (22-3/4")	22L2500						

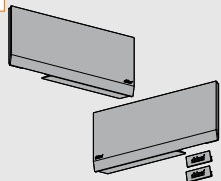
Lift mechanism set <input type="checkbox"/> Standard <input type="checkbox"/> SERVO-DRIVE							
Fixing with pre-attached system screws							
<p>1</p>	<p><b>Set includes:</b></p> <ul style="list-style-type: none"> <li>- Symmetrical lift mechanism with pre-attached system screws (qty 2)</li> </ul>						
<table border="1"> <thead> <tr> <th>Cabinet height</th> <th>Part no.</th> </tr> </thead> <tbody> <tr> <td>300 (11-3/4")-389 (15-1/4")</td> <td>22L2210</td> </tr> <tr> <td>390 (15-1/4")-580 (22-3/4")</td> <td>22L2510</td> </tr> </tbody> </table>		Cabinet height	Part no.	300 (11-3/4")-389 (15-1/4")	22L2210	390 (15-1/4")-580 (22-3/4")	22L2510
Cabinet height	Part no.						
300 (11-3/4")-389 (15-1/4")	22L2210						
390 (15-1/4")-580 (22-3/4")	22L2510						

Lever set <input type="checkbox"/> Standard <input type="checkbox"/> SERVO-DRIVE																
<p>2</p>	<p><b>Set includes:</b></p> <ul style="list-style-type: none"> <li>2a Symmetrical lever (qty 2)</li> <li>2b Cross stabilizer cover cap (qty 2)</li> <li>2c Adapter for cross stabilizer rod (qty 1)</li> <li>2d Length adapter for cross stabilizer (qty 1)</li> </ul>															
Nickel-plated with steel components																
<table border="1"> <thead> <tr> <th>Cabinet height</th> <th>Door weight (lb/oz)</th> <th>Part no.</th> </tr> </thead> <tbody> <tr> <td>300 (11-3/4")-339 (13-1/4")</td> <td>3/5-19/13</td> <td>22L3200</td> </tr> <tr> <td>340 (13-3/8")-389 (15-1/4")</td> <td>3/14-22/1</td> <td>22L3500</td> </tr> <tr> <td>390 (15-1/4")-540 (21-1/4")</td> <td>4/6-27/0</td> <td>22L3800</td> </tr> <tr> <td>480 (18-7/8")-580 (22-3/4")</td> <td>5/8-30/14</td> <td>22L3900</td> </tr> </tbody> </table>		Cabinet height	Door weight (lb/oz)	Part no.	300 (11-3/4")-339 (13-1/4")	3/5-19/13	22L3200	340 (13-3/8")-389 (15-1/4")	3/14-22/1	22L3500	390 (15-1/4")-540 (21-1/4")	4/6-27/0	22L3800	480 (18-7/8")-580 (22-3/4")	5/8-30/14	22L3900
Cabinet height	Door weight (lb/oz)	Part no.														
300 (11-3/4")-339 (13-1/4")	3/5-19/13	22L3200														
340 (13-3/8")-389 (15-1/4")	3/14-22/1	22L3500														
390 (15-1/4")-540 (21-1/4")	4/6-27/0	22L3800														
480 (18-7/8")-580 (22-3/4")	5/8-30/14	22L3900														

**Ordering Information**

**Cover cap set**

**3**



**Set includes:**

- Cover cap left
- 3b** Cover cap right
- 3c** Stainless steel branding element – Blum logo (qty 2)

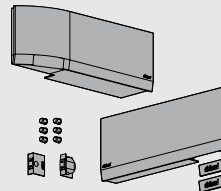
Specify color when ordering:

- Dark gray (TGR)
- Silk white (SW)
- Light gray (HGR)

Cover cap set	Part no.
<b>22.8000.NA</b>	

**Cover cap set for SERVO-DRIVE**

**3**



**Set includes:**

- 3a** SERVO-DRIVE cover cap left (qty 1)
- 3b** Cover cap right (qty 1)
- 3c** Stainless steel branding element – Blum logo (qty 2)
- 3d** SERVO-DRIVE switch (qty 2)
- 3e** Blum distance bumper Ø5 (qty 6)

Specify color when ordering:

- Dark gray (TGR)
- Silk white (SW)
- Light gray (HGR)

Cover cap set for SERVO-DRIVE	Part no.
<b>23.8000.NA</b>	

**Branding element (optional)**

**3c**



Specify color when ordering dark gray (TGR) or silk white matte (SW-M)

- Dark gray (TGR)
- Silk white matte (SW-M)
- Stainless steel (IN-G)

	SW-M, TGR	IN-G
Printed* (qty 2)	<b>ABD.1000.BL</b>	<b>ABD.1009.BL</b>
Embossed* (qty 2)	<b>ABD.1000.BT</b>	<b>ABD.1009.BT</b>
Plain (qty 2)	<b>ABD.1000</b>	<b>ABD.1009</b>

\*Branding element is printed or embossed with Blum logo

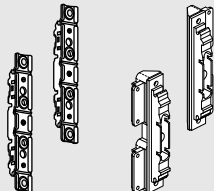
**Customized branding element**

Printed: 1000 pc minimum

Embossed: 5000 pc minimum

**Door hardware set**

**4**




- Use 4 wood screws (606N or 606P) per side for wooden doors.
- Use 4 (included) countersunk self-tapping screws (660.0950) per side for narrow aluminum frames.

Part no.

Wooden doors and wide aluminum frames	<b>20S4200</b>
Narrow aluminum frames	<b>20S4200A</b>
Large overlay 5-piece doors	<b>20S4F01</b>

**EXPANDO T door mounting plate**

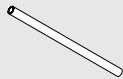
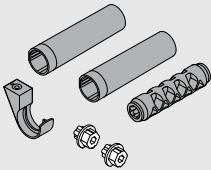
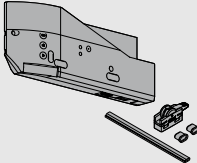



- EXPANDO T suitable for thin fronts – see page 63
- Thin fronts (qty 2)

Part no.

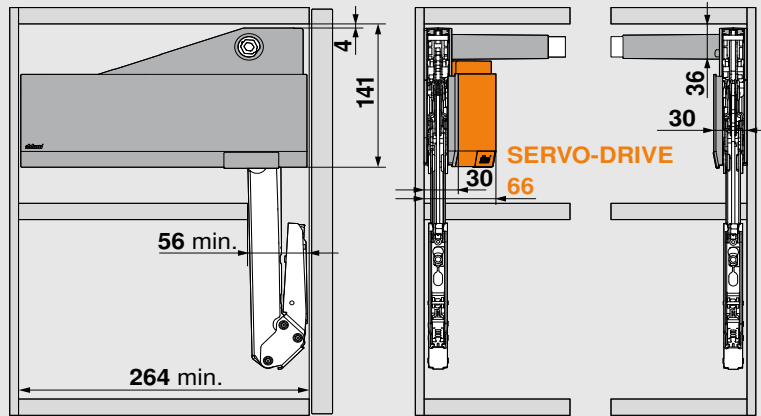
EXPANDO T door mounting plate	<b>20S42T1</b>
-------------------------------	----------------

## Ordering Information

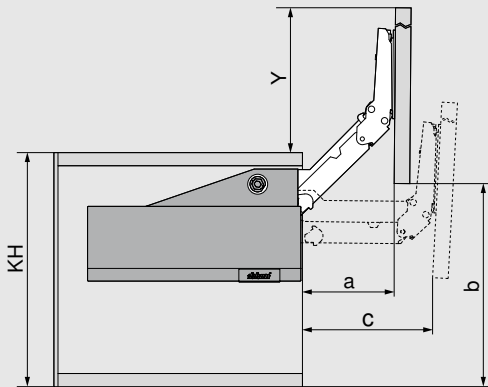
Cross stabilizer <input type="checkbox"/> <input checked="" type="checkbox"/>	
<p>5 </p>	<ul style="list-style-type: none"> <li>Length: <b>1076</b></li> <li>For cutting to size: Inside cabinet width LW - <b>113</b></li> </ul> <p style="text-align: right;">Part no.</p>
<p style="text-align: right;">Cross stabilizer <span style="float: right;"><b>22Q1076U</b></span></p>	
Connecting piece set for cross stabilizer (optional) <input type="checkbox"/> <input checked="" type="checkbox"/>	
	<p><b>Set includes:</b></p> <ul style="list-style-type: none"> <li>Cross stabilizer cover cap (qty 2)</li> <li>Adapter for cross stabilizer rod (qty 2)</li> <li>Connecting piece for cross stabilizer (qty 1)</li> <li>Cross stabilizer fixing (qty 1)</li> </ul> <ul style="list-style-type: none"> <li>Zinc</li> <li>Recommended from an inside cabinet width of <b>1190</b> or a cabinet width of <b>1228</b></li> <li>Cutting for 5: Inside cabinet width LW/2 - <b>105</b></li> </ul> <p style="text-align: right;">Part no.</p>
<p style="text-align: right;">Connecting piece set for cross stabilizer <span style="float: right;"><b>22Q080Z</b></span></p>	
SERVO-DRIVE set <input checked="" type="checkbox"/>	
<p>6 </p>	<p><b>Set includes:</b></p> <ul style="list-style-type: none"> <li>6a SERVO-DRIVE drive unit (qty 1)</li> <li>6b SERVO-DRIVE distribution cable, <b>1500</b> (qty 1)</li> <li>6c Connecting node (qty 1)</li> <li>6d Cable end protector (qty 2)</li> </ul> <p><b>NOTE:</b> For three lift mechanisms or more, we recommend two synchronized drive units</p> <p> Dust gray (R7037)</p> <p style="text-align: right;">Part no.</p>
<p style="text-align: right;">SERVO-DRIVE set <span style="float: right;"><b>23.A000</b></span></p>	
SERVO-DRIVE power supply unit and accessories	
<p>7 See page 66 for complete ordering information</p>	

Planning

Space requirement



Door setting



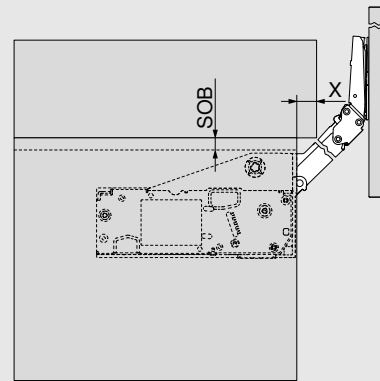
Lever set	a	b	c	Y
22L3200	112	272.5	155.5	272.5
22L3500	140.5	340	195	340
22L3800	176	425	245	425
22L3900	214.5	517	297.5	517

Dimension (b) based on bottom gap (= 0)

Dimension (Y) based on top gap (= 0)

KH = Cabinet height

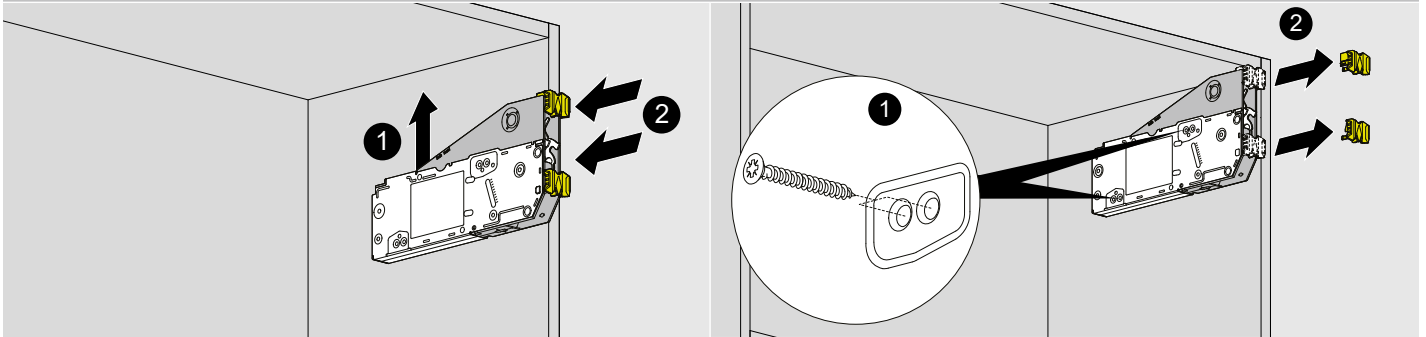
Space requirement – cornice | crown molding



Top panel thickness (SOB)	X
16	25
17	26
18	27
19	28
20	29

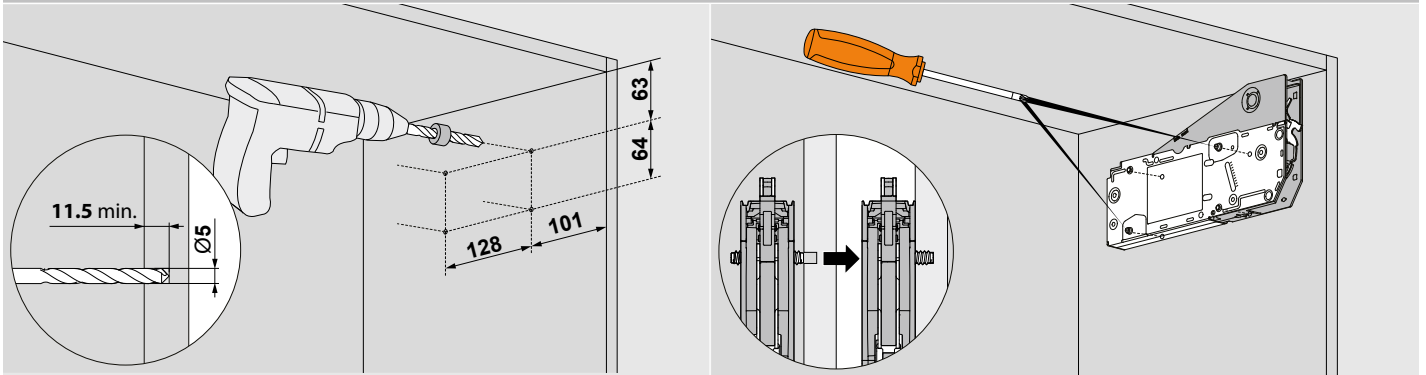
## Planning

### Lift installation with positioning system (no pre-drilling required)



4 x wood screws Ø4 x 35

### Lift installation with system screws

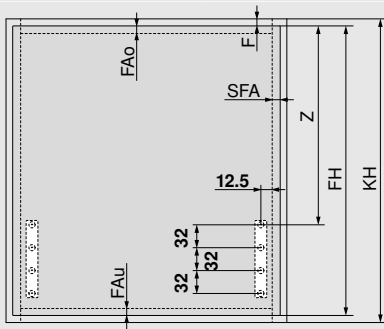


### Face frame application

See page 62 for information on face frame mounting brackets.

## Door Assembly

### Wooden doors and wide aluminum frames

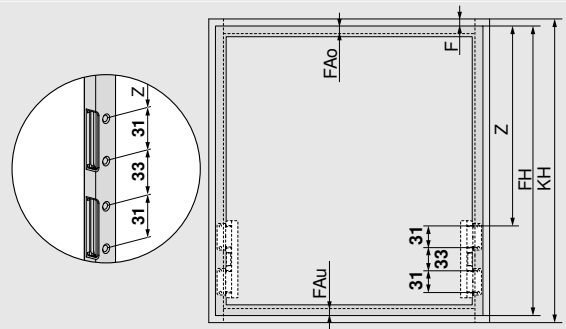


Lever set	Z
22L3200	113 + FAo
22L3500	153 + FAo
22L3800	203 + FAo
22L3900	256 + FAo

FAo = Upper door overlay  
FAu = Bottom door overlay  
F = Gap

FH = Door height  
KH = Cabinet height  
SFA = Side door overlay

### Narrow aluminum frames



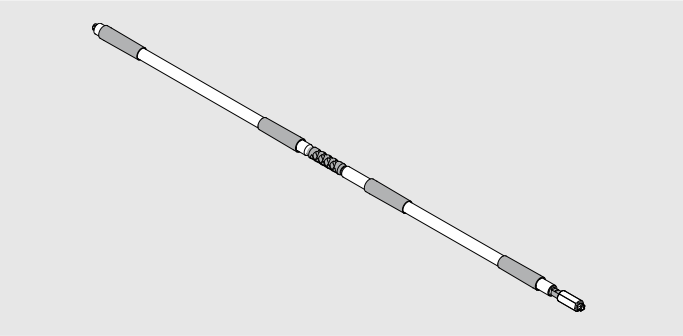
Lever set	Z
22L3200	113.5 + FAo
22L3500	153.5 + FAo
22L3800	203.5 + FAo
22L3900	256.5 + FAo

FAo = Upper door overlay  
FAu = Bottom door overlay  
F = Gap

### Extra Wide Applications

#### Cross stabilizer for Inside Cabinet Width (LW) of 1190 or a Cabinet Width (KB) of 1228

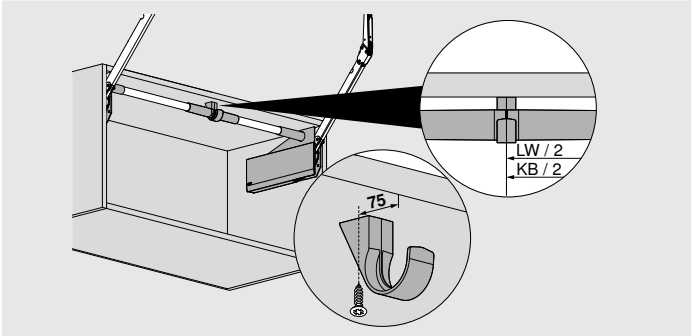
##### Cross stabilizer



LW/2 - 105

LW = Inside cabinet width

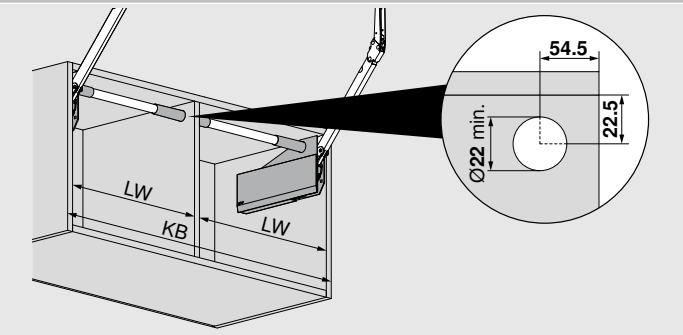
##### Cross stabilizer fixing



KB = Cabinet width

LW = Inside cabinet width

##### Version with dividing wall



KB = Cabinet width

LW = Inside cabinet width

### Installation and Adjustment Instructions



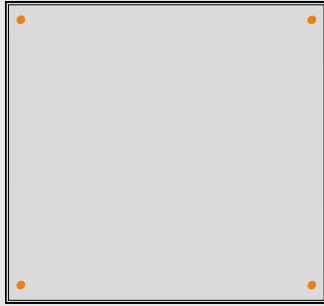
Use QR code or link below for AVENTOS HL top installation and adjustment instructions

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

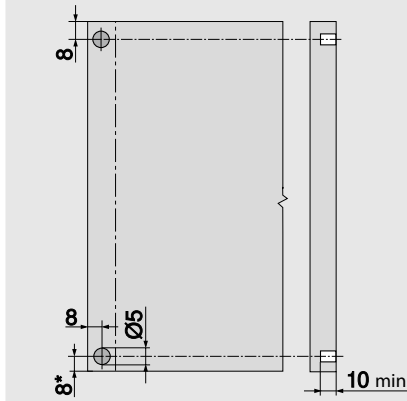
Planning

SERVO-DRIVE for AVENTOS HL top

Blum distance bumper (SERVO-DRIVE application only)



Insert Blum distance bumper (do not glue)



**NOTE:** The distance bumper should not touch the SERVO-DRIVE switch

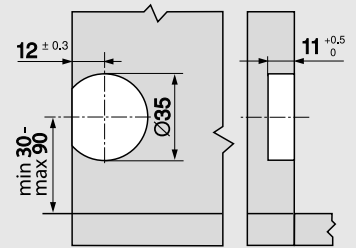
Recommendation for aluminum frames

Consider drilling the Blum distance bumper in the cabinet side

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

\*From cabinet bottom edge for doors that protrude below

SERVO-DRIVE switch



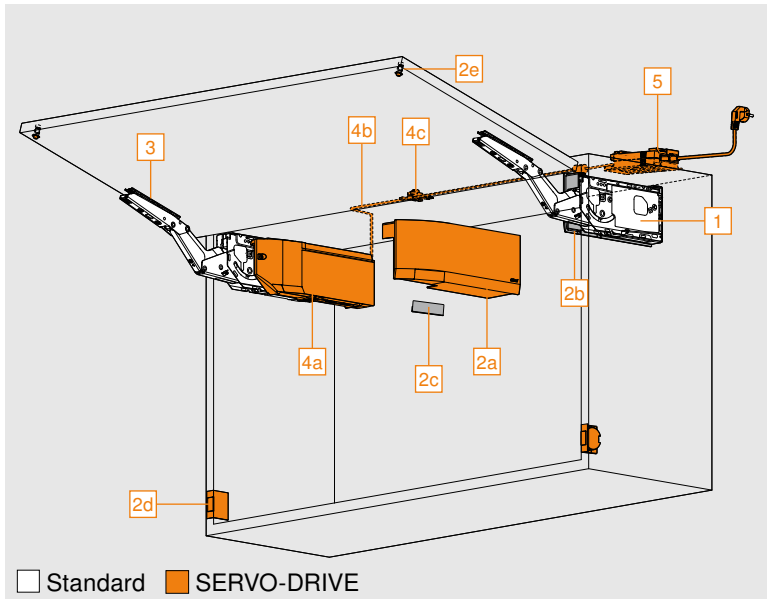
# AVENTOS HK top

Stay Lift Door



## Ordering Information

### Standard and SERVO-DRIVE



- Ideal for small applications in wall cabinets, tall cabinets and over the refrigerator
- Cabinet height **205** (8") to **610** (24")
- Cabinet width up to **1828** (72")
- Soft and effortless closing thanks to BLUMOTION
- Light operating forces
- Harmonious quality of motion with a variable stop
- Tool-free assembly
- 3-dimensional door adjustment
- Simple, infinitely variable adjustment of the lift mechanism
- No hinges required
- Integrated safety mechanism
- Integrated infinitely variable opening angle stop

#### Note

**Power factor** = cabinet height [inch] x door weight including double handle weight [lb]

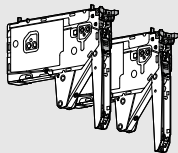
We recommend the more powerful lift mechanism for applications in overlapping ranges. A trial application is recommended when you are in a borderline area of the individual lift mechanism's power factor range.

The power factor 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 door from sagging when open.

Lift mechanism set

#### Fixing with wood screws and positioning system

1



**Set includes:**

- Symmetrical lift mechanism with positioning system (qty 2)
- Wood screws Ø4 x 35 (qty 8)

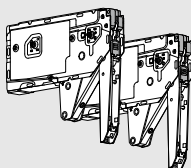
\*infinitely variable adjustment

Power factor	Opening angle*	Part no.
36-139	107°	22K2300
80-240	107°	22K2500
150-450	107°	22K2700
270-781	107°	22K2900

Lift mechanism set

#### Fixing with pre-attached system screws

1



**Set includes:**

- Symmetrical lift mechanism with pre-attached system screws (qty 2)

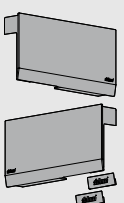
\*infinitely variable adjustment

Power factor	Opening angle*	Part no.
36-139	107°	22K2310
80-240	107°	22K2510
150-450	107°	22K2710
270-781	107°	22K2910

**Ordering Information**

**Standard and SERVO-DRIVE**

**Cover cap set**

2 

**Set includes:**

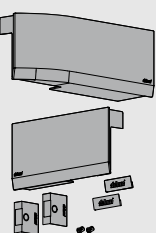
- Cover cap left
- 2b Cover cap right
- 2c Stainless steel branding element – Blum logo (qty 2)

Specify color when ordering:

- Dark gray (TGR)
- Silk white (SW)
- Light gray (HGR)

	Part no.
Cover cap set	<b>22K8000.NA</b>

**Cover cap set for SERVO-DRIVE**

2 

**Set includes:**

- 2a SERVO-DRIVE cover cap left (qty 1)
- 2b Cover cap right (qty 1)
- 2c Branding element, embossed with Blum logo (qty 2)
- 2d SERVO-DRIVE switch (qty 2)
- 2e Blum distance bumper Ø5 (qty 2)

Specify color when ordering:

- Dark gray (TGR)
- Silk white (SW)
- Light gray (HGR)

	Part no.
Cover cap set for SERVO-DRIVE	<b>23K8000.NA</b>

**Branding element (optional)**

2c 

Specify color when ordering dark gray (TGR) or silk white matte (SW-M)

- Dark gray (TGR)
- Silk white matte (SW-M)
- Stainless steel (IN-G)

	SW-M, TGR	IN-G
Printed* (qty 2)	<b>ABD.1000.BL</b>	<b>ABD.1009.BL</b>
Embossed* (qty 2)	<b>ABD.1000.BT</b>	<b>ABD.1009.BT</b>
Plain (qty 2)	<b>ABD.1000</b>	<b>ABD.1009</b>

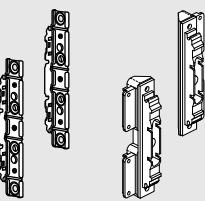
\*Branding element is printed or embossed with Blum logo

**Customized branding element**

Printed: 1000 pc minimum

Embossed: 5000 pc minimum


**Door hardware set**

3 

- Use 4 wood screws (606N or 606P) per side for wooden doors.
- Use 4 (included) countersunk self-tapping screws (660.0950) per side for narrow aluminum frames.

	Part no.
Wooden doors and wide aluminum frames	<b>20S4200</b>
Narrow aluminum frames	<b>20S4200A</b>
Large overlay 5-piece doors	<b>20S4F01</b>

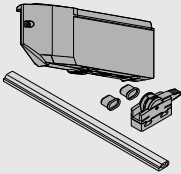
**EXPANDO T door mounting plate**



- EXPANDO T suitable for thin fronts – see page 63
- Thin fronts (qty 2)

	Part no.
EXPANDO T door mounting plate	<b>20S42T1</b>

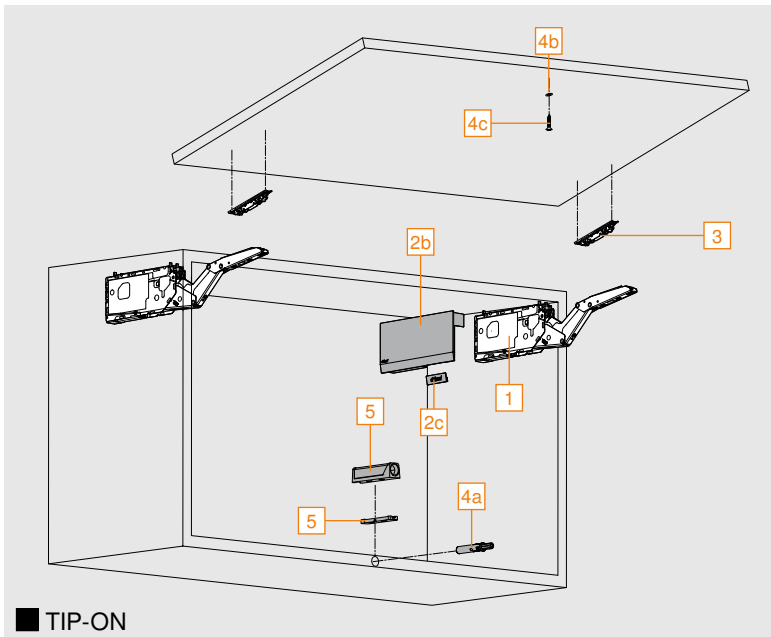
## Ordering Information

SERVO-DRIVE set <span style="color: orange;">■</span>			
<div style="border: 1px solid orange; padding: 2px; display: inline-block; margin-bottom: 5px;">4</div> 	<p><b>Set includes:</b></p> <ul style="list-style-type: none"> <li><div style="border: 1px solid orange; padding: 2px; display: inline-block; margin-right: 5px;">4a</div> SERVO-DRIVE drive unit (qty 1)</li> <li><div style="border: 1px solid orange; padding: 2px; display: inline-block; margin-right: 5px;">4b</div> SERVO-DRIVE distribution cable, <b>1500</b> (qty 1)</li> <li><div style="border: 1px solid orange; padding: 2px; display: inline-block; margin-right: 5px;">4c</div> Connecting node (qty 1)</li> <li><div style="border: 1px solid orange; padding: 2px; display: inline-block; margin-right: 5px;">-</div> Cable end protector (qty 2)</li> </ul> <p><b>NOTE:</b> For three lift mechanisms or more, we recommend two synchronized drive units</p> <p><span style="display: inline-block; width: 15px; height: 15px; background-color: gray; margin-right: 5px;"></span> Dust gray (R7037)</p>		
Part no.			
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; border-right: 1px solid gray; padding-right: 10px;">SERVO-DRIVE set</td> <td style="background-color: orange; color: white; padding: 5px; text-align: center;">23KA000</td> </tr> </table>		SERVO-DRIVE set	23KA000
SERVO-DRIVE set	23KA000		

SERVO-DRIVE power supply unit and accessories
<div style="border: 1px solid orange; padding: 2px; display: inline-block; margin-bottom: 5px;">5</div> See page 66 for complete ordering information

## Ordering Information

### TIP-ON



- TIP-ON for handleless stay lifts
- Cabinet height **205** (8") to **610** (24")
- Cabinet width up to **1828** (72")
- For drilling or in combination with adapter plates

■ TIP-ON

#### Note

**Power factor** = cabinet height [inch] x door weight including double handle weight [lb]

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's power factor range.

The power factor 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 door from sagging when open.

#### Lift mechanism set for TIP-ON ■

##### Fixing with wood screws and positioning system

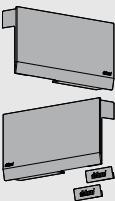
<p>1</p>	<p><b>Set includes:</b></p> <ul style="list-style-type: none"> <li>– Symmetrical lift mechanism with positioning system (qty 2)</li> <li>– Wood screws Ø4 x 35 (qty 8)</li> </ul> <p>*infinitely variable adjustment</p>	<b>Power factor</b>	<b>Opening angle*</b>	<b>Part no.</b>
		36–139	107°	22K2300T
		80–240	107°	22K2500T
		150–450	100°	22K2700T
		270–781	100°	22K2900T


#### Lift mechanism set for TIP-ON ■

##### Fixing with pre-attached system screws

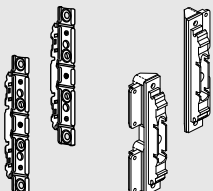
<p>1</p>	<p><b>Set includes:</b></p> <ul style="list-style-type: none"> <li>– Symmetrical lift mechanism with pre-attached system screws (qty 2)</li> </ul> <p>*infinitely variable adjustment</p>	<b>Power factor</b>	<b>Opening angle*</b>	<b>Part no.</b>
		36–139	107°	22K2310T
		80–240	107°	22K2510T
		150–450	100°	22K2710T
		270–781	100°	22K2910T


## Ordering Information


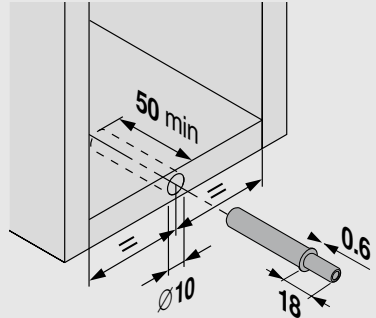
Cover cap set	
2	 <p><b>Set includes:</b></p> <ul style="list-style-type: none"> <li>- Cover cap left</li> <li>2b Cover cap right</li> <li>2c Stainless steel branding element – Blum logo (qty 2)</li> </ul> <p>Specify color when ordering:</p> <ul style="list-style-type: none"> <li>Dark gray (TGR)</li> <li>Silk white (SW)</li> <li>Light gray (HGR)</li> </ul>
Part no.	
Cover cap set	<b>22K8000.NA</b>

Branding element (optional)													
2c	 <p>Specify color when ordering dark gray (TGR) or silk white matte (SW-M)</p> <ul style="list-style-type: none"> <li>Dark gray (TGR)</li> <li>Silk white matte (SW-M)</li> <li>Stainless steel (IN-G)</li> </ul>												
	<table border="1" style="width: 100%;"> <thead> <tr> <th></th> <th>SW-M, TGR</th> <th>IN-G</th> </tr> </thead> <tbody> <tr> <td>Printed* (qty 2)</td> <td>ABD.1000.BL</td> <td>ABD.1009.BL</td> </tr> <tr> <td>Embossed* (qty 2)</td> <td>ABD.1000.BT</td> <td>ABD.1009.BT</td> </tr> <tr> <td>Plain (qty 2)</td> <td>ABD.1000</td> <td>ABD.1009</td> </tr> </tbody> </table>		SW-M, TGR	IN-G	Printed* (qty 2)	ABD.1000.BL	ABD.1009.BL	Embossed* (qty 2)	ABD.1000.BT	ABD.1009.BT	Plain (qty 2)	ABD.1000	ABD.1009
	SW-M, TGR	IN-G											
Printed* (qty 2)	ABD.1000.BL	ABD.1009.BL											
Embossed* (qty 2)	ABD.1000.BT	ABD.1009.BT											
Plain (qty 2)	ABD.1000	ABD.1009											
*Branding element is printed or embossed with Blum logo													

Customized branding element
Printed: 1000 pc minimum
Embossed: 5000 pc minimum

Door hardware set	
3	 <ul style="list-style-type: none"> <li>– Use 4 wood screws (606N or 606P) per side for wooden doors.</li> <li>– Use 4 (included) countersunk self-tapping screws (660.0950) per side for narrow aluminum frames.</li> </ul>
Part no.	
Wooden doors and wide aluminum frames	<b>20S4200</b>
Narrow aluminum frames	<b>20S4200A</b>
Large overlay 5-piece doors	<b>20S4F01</b>

EXPANDO T door mounting plate	
 <ul style="list-style-type: none"> <li>– EXPANDO T suitable for thin fronts – see page 63</li> <li>– Thin fronts (qty 2)</li> </ul>	Part no.
EXPANDO T door mounting plate	<b>20S42T1</b>

TIP-ON set	
4	 <ul style="list-style-type: none"> <li>Carbon black (CS)</li> <li>Silk white (SW)</li> <li>Platinum gray (R7036)</li> </ul>
	<ul style="list-style-type: none"> <li>– Nylon gray unit with magnet tip</li> <li>– Adjustment range +4 to -1</li> <li>– Works for overlay and inset applications</li> <li>– Can be bored into the panel or used with an adapter plate</li> </ul> <p><b>Set includes:</b></p> <ul style="list-style-type: none"> <li>4a TIP-ON (qty 1)</li> <li>4b Screw-on catch plate (qty 1)</li> <li>4c Wood screw 609.1500 (qty 1)</li> <li>- Glue-on catch plate (qty 1)</li> </ul>
Part no.	
<b>NOTE:</b> Due to various door weights and sizes, trial application recommended	<b>956.1004</b>

## Ordering Information

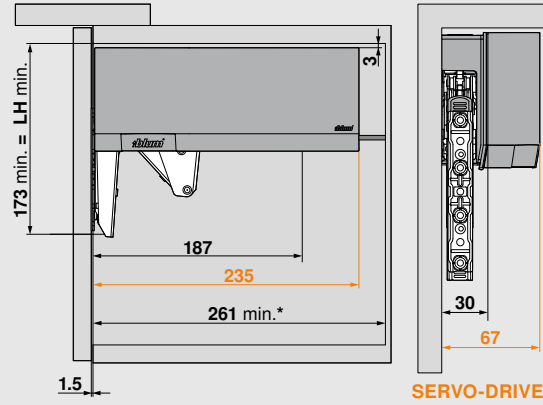
### Accessories

Adapter plate 							
<div style="border: 1px solid black; padding: 2px; display: inline-block;">5</div> 	Straight adapter plate – short version						
<p>Specify color when ordering:</p> <table border="0"><tr><td> Carbon black (CS)</td><td> Platinum gray (R7036)</td></tr><tr><td> Silk white (SW)</td><td> Nickel lacquered (NI-L)</td></tr></table> <p style="text-align: right;">Part no.</p> <table border="0"><tr><td style="width: 80%;">Straight adapter plate</td><td style="background-color: #f4a460; text-align: center;">956.1201</td></tr></table>		 Carbon black (CS)	 Platinum gray (R7036)	 Silk white (SW)	 Nickel lacquered (NI-L)	Straight adapter plate	956.1201
 Carbon black (CS)	 Platinum gray (R7036)						
 Silk white (SW)	 Nickel lacquered (NI-L)						
Straight adapter plate	956.1201						

**Planning**

**Standard, SERVO-DRIVE and TIP-ON**

**Space requirement**

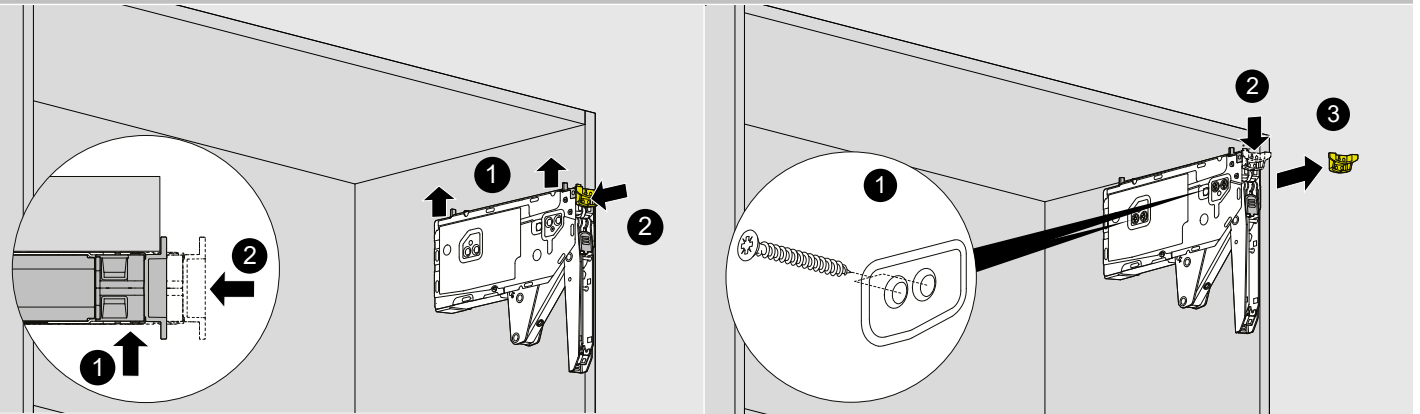


\*261 minimum with visible wall hanging bracket

**NOTE:** Maximum cabinet height of 610 (24")

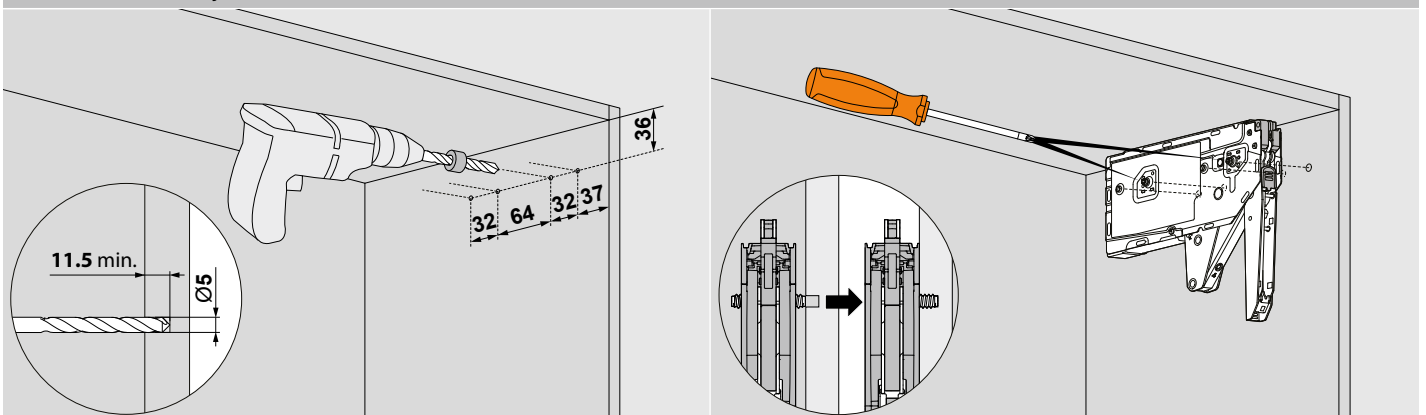
LH = Inside cabinet height

**Lift installation with positioning system (no pre-drilling required)**



4 x wood screws Ø4 x 35

**Lift installation with system screws**



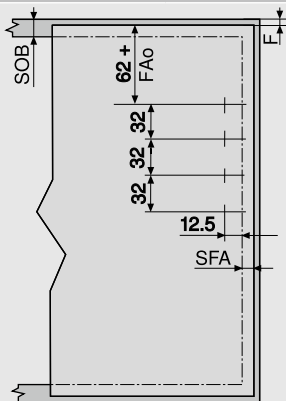
**Face frame application**

See page 62 for information on face frame mounting brackets.

**Planning**

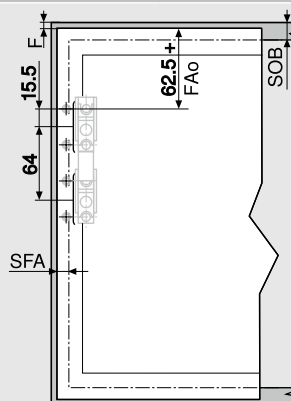
**Standard, SERVO-DRIVE and TIP-ON – Door Assembly**

**Wooden doors and wide aluminum frames**



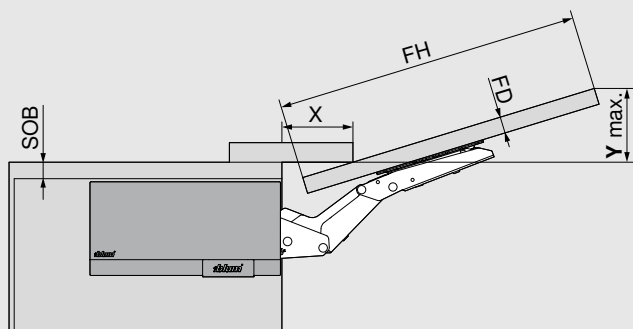
FAo = 25.4 maximum  
 FAo = Upper door overlay  
 SOB = Top panel thickness  
 SFA = Side door overlay  
 F = Gap

**Narrow aluminum frames**



FAo = 25.4 maximum  
 FAo = Upper door overlay  
 SOB = Top panel thickness  
 SFA = Side door overlay  
 F = Gap

**Space requirement – cornice | crown molding**



**Space requirement**

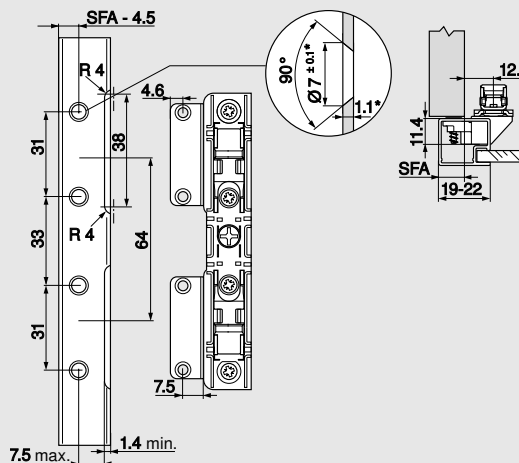
At maximum opening angle

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

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

SOB = Top panel thickness  
 FH = Door height  
 FD = Door thickness

**Narrow aluminum frames**

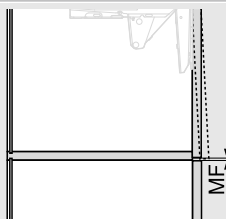


For frame width 19, an SFA of 11–18 is possible.

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

SFA = Side door overlay

**Minimum gap**



Minimum gap (MF) is 2

Further planning information for TIP-ON – see page 60

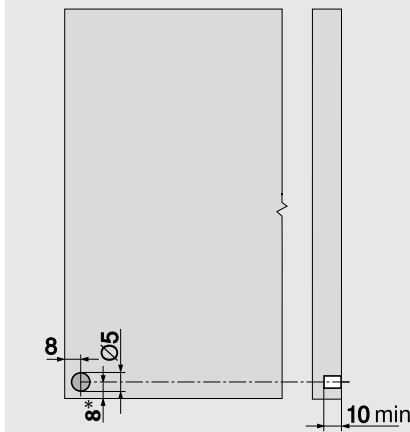
## Planning

### SERVO-DRIVE for AVENTOS HK top

#### Blum distance bumper (SERVO-DRIVE application only)



Insert Blum distance bumper (do not glue)  
Do not insert bumper in upper third



**NOTE:** The distance bumper should not touch the SERVO-DRIVE switch

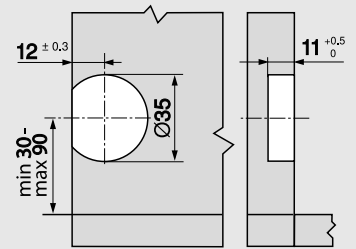
#### Recommendation for aluminum frames

Consider drilling the Blum distance bumper in the cabinet side

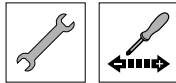
A trial application must be carried out when fixing to the door

\*From cabinet bottom edge for doors that protrude below

#### SERVO-DRIVE switch



## Installation and Adjustment Instructions



Use QR code or link below for AVENTOS HK top installation and adjustment instructions

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

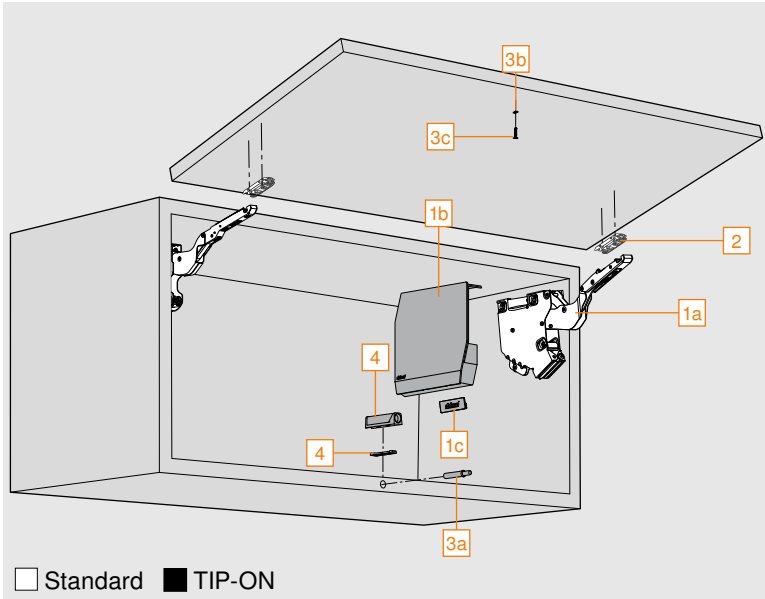
# AVENTOS HK-S

Stay Lift for the Smallest of Cabinets



## Ordering Information

### Standard and TIP-ON



- Ideal for small applications in wall cabinets, tall cabinets and over the refrigerator
- Cabinet height maximum of **610** (24")
- Soft and effortless closing thanks to BLUMOTION
- Light operating forces
- Harmonious quality of motion with a variable stop
- Tool-free assembly
- 3-dimensional door adjustment
- Simple, infinitely variable adjustment of the lift mechanism
- No hinges required
- TIP-ON for handleless stay lifts

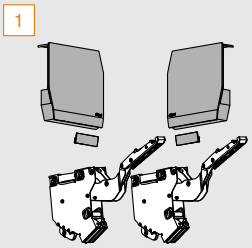
#### Note

**Power factor** = cabinet height [inch] x door weight including double handle weight [lb]

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's power factor range.

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

#### Lift mechanism set



#### Set includes:

- 1a Symmetrical lift mechanism (qty 2)
- 1b Cover cap left/right (qty 2)
- 1c Branding element, embossed with Blum logo (qty 2)
- Wood screw Ø4 x 35 (qty 6)

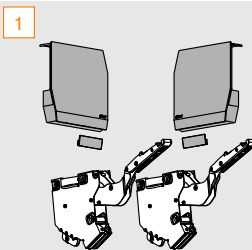
Specify color when ordering:

- Light gray (HGR)
- Silk white (SW)
- Dark gray (TGR)

Power factor	Opening angle	Part no.
19–44	107°	20K2B00.N6
35–88	107°	20K2C00.N6
84–195	107°	20K2E00.N6

**NOTE:** 20K2B00.N1 unit contains 1x 20K2A00.N1 (unsprung – no tension adjustment) and 1x 20K2C00.N1

#### Lift mechanism set for TIP-ON



#### Set includes:

- 1a Symmetrical lift mechanism (qty 2)
- 1b Cover cap left/right (qty 2)
- 1c Branding element, embossed with Blum logo (qty 2)
- Wood screw Ø4 x 35 (qty 6)

Specify color when ordering:


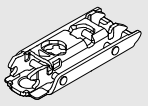

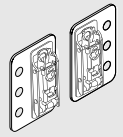

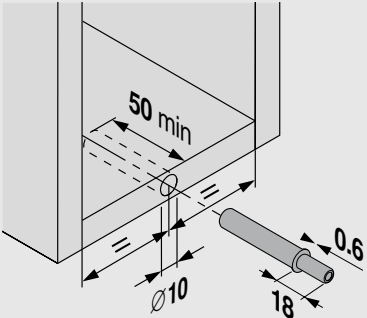
- Light gray (HGR)
- Silk white (SW)
- Dark gray (TGR)

Power factor	Opening angle	Part no.
19–44	107°	20K2B00TN6
35–88	107°	20K2C00TN6
84–195	107°	20K2E00TN6







**NOTE:** 20K2B00.N1 unit contains 1x 20K2A00.N1 (unsprung – no tension adjustment) and 1x 20K2C00.N1

## Ordering Information

### Standard and TIP-ON

Branding element (optional) <input type="checkbox"/>														
<p>1c</p> 	<p>Specify color when ordering dark gray (TGR) or silk white matte (SW-M)</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Dark gray (TGR)</li> <li><input type="checkbox"/> Silk white matte (SW-M)</li> <li><input type="checkbox"/> Stainless steel (IN-G)</li> </ul>	<table border="1"> <thead> <tr> <th></th> <th>SW-M, TGR</th> <th>IN-G</th> </tr> </thead> <tbody> <tr> <td>Printed* (qty 2)</td> <td>ABD.1000.BL</td> <td>ABD.1009.BL</td> </tr> <tr> <td>Embossed* (qty 2)</td> <td>ABD.1000.BT</td> <td>ABD.1009.BT</td> </tr> <tr> <td>Plain (qty 2)</td> <td>ABD.1000</td> <td>ABD.1009</td> </tr> </tbody> </table>		SW-M, TGR	IN-G	Printed* (qty 2)	ABD.1000.BL	ABD.1009.BL	Embossed* (qty 2)	ABD.1000.BT	ABD.1009.BT	Plain (qty 2)	ABD.1000	ABD.1009
	SW-M, TGR	IN-G												
Printed* (qty 2)	ABD.1000.BL	ABD.1009.BL												
Embossed* (qty 2)	ABD.1000.BT	ABD.1009.BT												
Plain (qty 2)	ABD.1000	ABD.1009												
*Branding element is printed or embossed with Blum logo														
Customized branding element														
Printed: 1000 pc minimum														
Embossed: 5000 pc minimum														
Door mounting plate <input type="checkbox"/>														
<p>2</p> 	<ul style="list-style-type: none"> <li>– Wooden doors and wide aluminum frames (qty 2)</li> <li>– All horizontal steel mounting plates with 0 spacing possible</li> </ul>	<p>*Use 2 wood screws (606N or 606P) per side for wooden doors. Use 2 countersunk self-tapping screws (660.0950) per side for wide aluminum frames.</p> <table border="1"> <thead> <tr> <th>Fixing method</th> <th>Spacing</th> <th>Part no.</th> </tr> </thead> <tbody> <tr> <td>Screw-on*</td> <td>0</td> <td>175H3100</td> </tr> <tr> <td>EXPANDO</td> <td>0</td> <td>177H3100E</td> </tr> <tr> <td>Knock-in</td> <td>0</td> <td>177H3100</td> </tr> </tbody> </table>	Fixing method	Spacing	Part no.	Screw-on*	0	175H3100	EXPANDO	0	177H3100E	Knock-in	0	177H3100
Fixing method	Spacing	Part no.												
Screw-on*	0	175H3100												
EXPANDO	0	177H3100E												
Knock-in	0	177H3100												
Door mounting plate set <input type="checkbox"/>														
<p>2</p> 	<p><b>Set includes:</b></p> <ul style="list-style-type: none"> <li>– Left and right mounting plates</li> <li>– Attachment screws</li> </ul>	<p>For use with narrow aluminum doors</p> <table border="1"> <thead> <tr> <th></th> <th>Part no.</th> </tr> </thead> <tbody> <tr> <td>Door mounting plate set</td> <td>20K4A00A02</td> </tr> </tbody> </table>		Part no.	Door mounting plate set	20K4A00A02								
	Part no.													
Door mounting plate set	20K4A00A02													
Mounting plate with bracket set <input type="checkbox"/>														
	<p><b>Set includes:</b></p> <ul style="list-style-type: none"> <li>– Right and left mounting plate with bracket</li> </ul>	<p>For use with large overlay five-piece doors</p> <table border="1"> <thead> <tr> <th></th> <th>Part no.</th> </tr> </thead> <tbody> <tr> <td>Mounting plate with bracket set</td> <td>175H3F00</td> </tr> </tbody> </table>		Part no.	Mounting plate with bracket set	175H3F00								
	Part no.													
Mounting plate with bracket set	175H3F00													
TIP-ON set <input checked="" type="checkbox"/>														
<p>3</p>  <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Carbon black (CS)</li> <li><input type="checkbox"/> Silk white (SW)</li> <li><input type="checkbox"/> Platinum gray (R7036)</li> </ul>	 <ul style="list-style-type: none"> <li>– Nylon gray unit with magnet tip</li> <li>– Adjustment range +4 to -1</li> <li>– Works for overlay and inset applications</li> <li>– Can be bored into the panel or used with an adapter plate</li> </ul> <p><b>Set includes:</b></p> <ul style="list-style-type: none"> <li>3a TIP-ON (qty 1)</li> <li>3b Screw-on catch plate (qty 1)</li> <li>3c Wood screw 609.1500 (qty 1)</li> <li>- Glue-on catch plate (qty 1)</li> </ul>	<table border="1"> <thead> <tr> <th></th> <th>Part no.</th> </tr> </thead> <tbody> <tr> <td>Standard door set</td> <td>956.1004</td> </tr> </tbody> </table>		Part no.	Standard door set	956.1004								
	Part no.													
Standard door set	956.1004													
<p><b>NOTE:</b> Due to various door weights and sizes, trial application recommended</p>														

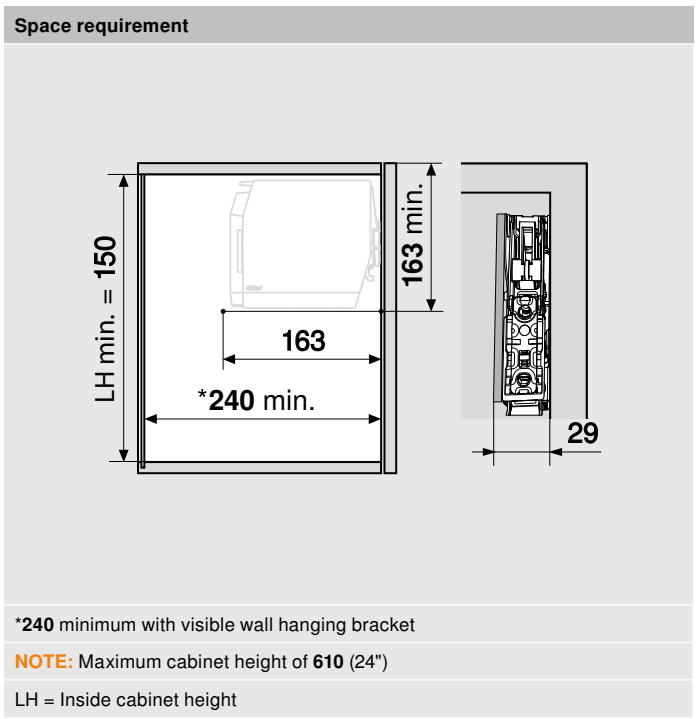
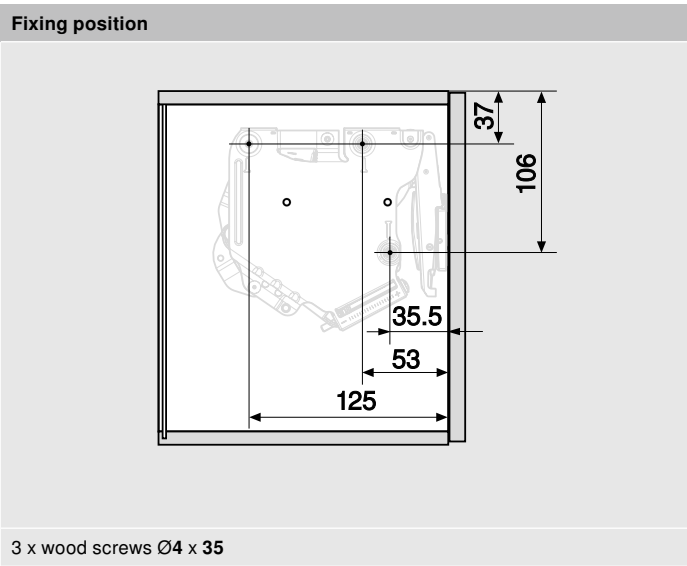
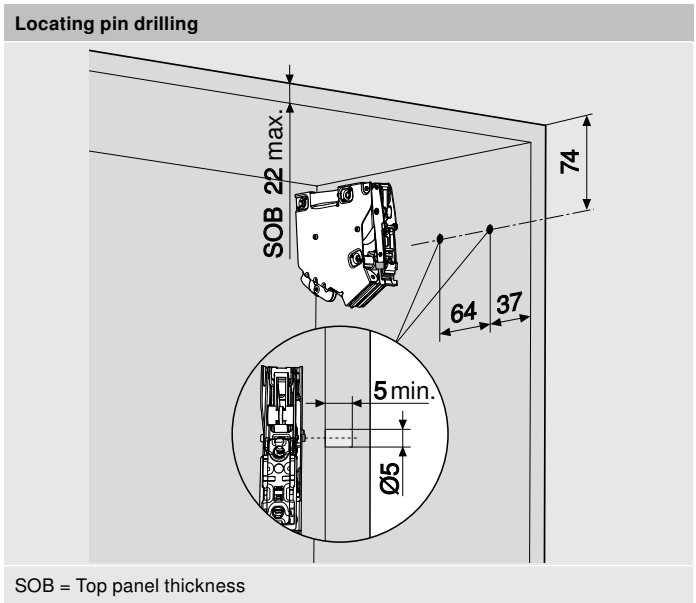
## Ordering Information

Adapter plate 	
<div style="border: 1px solid orange; padding: 2px; display: inline-block;">4</div> 	Straight adapter plate – short version
Specify color when ordering:	
 Carbon black (CS)	 Platinum gray (R7036)
 Silk white (SW)	 Nickel lacquered (NI-L)
Part no.	
Straight adapter plate	
<b>956.1201</b>	

Opening angle stop  	
	
	Part no.
<b>Opening angle</b>	<b>Color</b>
100°	Dark gray (TGR)
75°	Dust gray (R7037)
	<b>20K7A41</b>
	<b>20K7A11</b>

**Planning**

**Standard and TIP-ON**



Planning

Standard and TIP-ON – Door Assembly

**Wooden doors and wide aluminum frames**

SOB = Top panel thickness  
 SFA = Side door overlay  
 F = Gap

**Narrow aluminum frames**

SOB = Top panel thickness  
 SFA = Side door overlay  
 F = Gap

**Space requirement – cornice | crown molding**

Opening angle stop		Space requirement			
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	16      19	22	26	-	
X	70	59	49	35	-

FD = Door thickness  
 FH = Door height

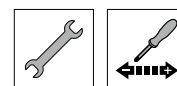
**Narrow aluminum frames**

For frame width 19, an SFA of 11–18 is possible.  
 \*When changing material thickness, adjust the assembly dimensions accordingly  
 SFA = Side door overlay

**Minimum gap**

Minimum gap (MF) is 2

Installation and Adjustment Instructions



Use QR code or link below for AVENTOS HK-S installation and adjustment instructions  
[www.blum.com/aventos-hks-assembly](http://www.blum.com/aventos-hks-assembly)

Further planning information for TIP-ON – see page 60

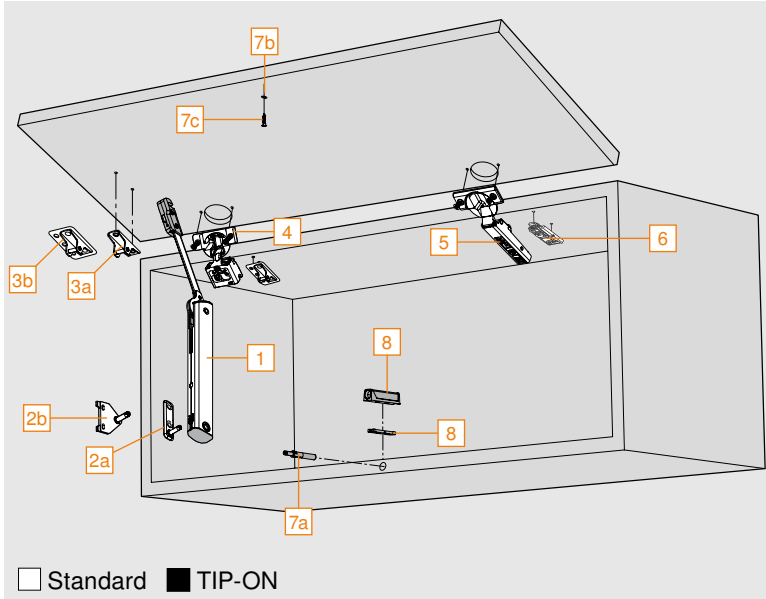
# AVENTOS HK-XS

Smaller, Cost-Effective Lift System



**Ordering Information**

**Standard and TIP-ON**



- Ideal for small applications in wall cabinets, tall cabinets and over the refrigerator
- Cabinet height **238** (9-3/8") to **610** (24")
- Inside cabinet depth minimum of **125** (4-7/8")
- An inside cabinet depth of **100** (3-7/8") 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 handleless stay lifts with CLIP top free swing hinges
- Light operating forces
- Harmonious quality of motion with a variable stop
- Simple, infinitely variable adjustment of the lift mechanism


**Note**

**Power factor** = cabinet height [inch] x door weight including double handle weight [lb]

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's power factor range.


**Lift mechanism**

1		<p>*For hinges with smaller opening angles, the opening angle will depend on the hinge used</p>

Power factor range	Opening angle	Part no.
18-88	105°*	20K1101
44-132	105°*	20K1301
70-158	105°*	20K1501

**NOTE:** Double power factor when using two lift mechanisms

**Lift mechanism for TIP-ON**

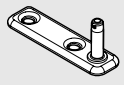
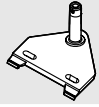

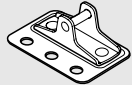
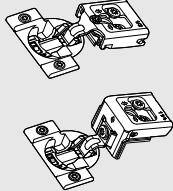
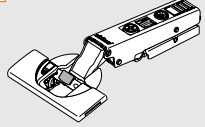
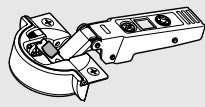
1		<p>*For hinges with smaller opening angles, the opening angle will depend on the hinge used</p>

Power factor range	Opening angle	Part no.
16-70	105°*	20K1101T
44-106	105°*	20K1301T
70-141	105°*	20K1501T

**NOTE:** Double power factor when using two lift mechanisms

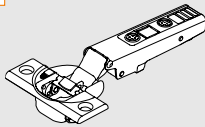
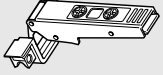
**Ordering Information**

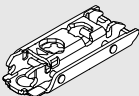
**Standard and TIP-ON**


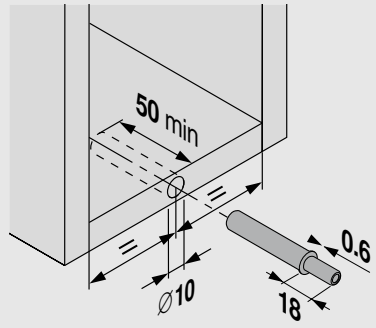
Cabinet mounting plate <input type="checkbox"/>			
2a		<b>Frameless</b>	Part no.
		Screw-on	20K5101
		EXPANDO	20K51E1
2b		<b>Face frame</b>	Part no.
		Screw-on	20K5501
Door mounting plate <input type="checkbox"/>			
3a		<b>Wooden doors and wide aluminum frames</b>	Part no.
		Screw-on	20K4101
		EXPANDO	20K41E1
3b		<b>Narrow aluminum frames</b>	Part no.
		Screw-on	20K4101A
		<b>NOTE:</b> For use with large overlay five-piece doors	Part no.
Screw-on	20K4501		
COMPACT CLIP hinge <input type="checkbox"/>			
4		<b>NOTE:</b> For more overlay options and application information, see Concealed Hinges brochure	
		<b>COMPACT CLIP 31C3</b>	Part no.
		32 (1-1/4") Overlay, Press-in	31C358B.20
		<b>COMPACT CLIP 30C2</b>	Part no.
13 (1/2") Overlay, Press-in	30C258B.08		
Hinge recommendations <input type="checkbox"/>			
5		3 hinges starting at cabinet width <b>900</b> and/or power factor 158 4 hinges with cabinet width <b>1200</b> and/or starting at power factor 238	
		<b>CLIP top BLUMOTION 110° hinge, self close</b>	Part no.
		INSERTA	71B3590
Screw-on	71B3550		
Narrow aluminum			
	<b>CLIP top BLUMOTION 95°, self close</b>	Part no.	
	Screw-on	71B950A	
Alternative hinges			
<ul style="list-style-type: none"> <li>– CLIP top BLUMOTION hinges: 107°, profile/thick door</li> <li>– CLIP top hinges: 107°, profile/thick door, 95° aluminum frame door hinge in combination with BLUMOTION 973A – for clip on and/or CLIP hinges: 100°</li> </ul>			

## Ordering Information

### Standard and TIP-ON

Hinge recommendations	
	3 hinges starting at cabinet width <b>900</b> and/or power factor 158 4 hinges with cabinet width <b>1200</b> and/or starting at power factor 238  <b>CLIP top 110° hinge, free swing</b>
	INSERTA <span style="float: right;">Part no.</span>
	Screw-on <span style="float: right;"><b>70T3590.TL</b></span>
<b>Narrow aluminum</b>	
	<b>CLIP top 120°, free swing</b> <span style="float: right;">Part no.</span>
	Screw-on <span style="float: right;"><b>72T550A.TL</b></span>
<b>Alternative hinges, free swing</b>	
<ul style="list-style-type: none"> <li>- CLIP top hinges: 107°, profile/thick door, 95° aluminum frame door hinge</li> <li>- CLIP 100°</li> </ul>	

Hinge mounting plate													
	<ul style="list-style-type: none"> <li>- Wooden doors and wide aluminum frames (qty 2)</li> <li>- All horizontal steel mounting plates with <b>0</b> spacing possible</li> </ul>												
	Use 2 wood screws (606N or 606P) per side for wooden doors. Use 2 countersunk self-tapping screws (660.0950) per side for wide aluminum frames.												
	<table border="1"> <thead> <tr> <th>Fixing method</th> <th>Spacing</th> <th>Part no.</th> </tr> </thead> <tbody> <tr> <td>Screw-on*</td> <td><b>0</b></td> <td><b>175H3100</b></td> </tr> <tr> <td>EXPANDO</td> <td><b>0</b></td> <td><b>177H3100E</b></td> </tr> <tr> <td>Knock-in</td> <td><b>0</b></td> <td><b>177H3100</b></td> </tr> </tbody> </table>	Fixing method	Spacing	Part no.	Screw-on*	<b>0</b>	<b>175H3100</b>	EXPANDO	<b>0</b>	<b>177H3100E</b>	Knock-in	<b>0</b>	<b>177H3100</b>
	Fixing method	Spacing	Part no.										
Screw-on*	<b>0</b>	<b>175H3100</b>											
EXPANDO	<b>0</b>	<b>177H3100E</b>											
Knock-in	<b>0</b>	<b>177H3100</b>											

TIP-ON set	
	<ul style="list-style-type: none"> <li>- Nylon gray unit with magnet tip</li> <li>- Adjustment range +4 to -1</li> <li>- Works for overlay and inset applications</li> <li>- Can be bored into the panel or used with an adapter plate</li> </ul>
	<b>Set includes:</b> <ul style="list-style-type: none"> <li><b>7a</b> TIP-ON (qty 1)</li> <li><b>7b</b> Screw-on catch plate (qty 1)</li> <li><b>7c</b> Wood screw 609.1500 (qty 1)</li> <li>- Glue-on catch plate (qty 1)</li> </ul>
<ul style="list-style-type: none"> <li>Carbon black (CS)</li> <li>Silk white (SW)</li> <li>Platinum gray (R7036)</li> </ul>	
<b>NOTE:</b> Due to various door weights and sizes, trial application recommended	Standard door set <span style="float: right;">Part no. <b>956.1004</b></span>

## Ordering Information

Adapter plate 	
 	Straight adapter plate – short version
	Specify color when ordering:  Carbon black (CS)  Platinum gray (R7036)  Silk white (SW)  Nickel lacquered (NI-L)
Part no.	
Straight adapter plate	
<b>956.1201</b>	

Planning

CLIP top Frameless Application

**Lift mechanism**

$Y = 137 + D + K$

CLIP top Face Frame Application

**Lift mechanism**

$Y = 169 + D + K$

COMPACT Face Frame Application

**Lift mechanism**

\*Location when using COMPACT 31C3  
\*\*Location when using COMPACT 30C2

**Door mounting plate**

Attach using #6 x 5/8" (606N/P) wood screw

**Door mounting plate**

When using large overlay mounting plate (20K4501) hole location is offset by 19 (15.5 + OL - 19)

Attach using #6 x 5/8" (606N/P) wood screw

**Door mounting plate**

When using large overlay mounting plate (20K4501) hole location is offset by 19 (15.5 + OL - 19)

Attach using #6 x 5/8" (606N/P) wood screw

**Space requirements**

\*Minimum top reveal based on hinge used. Please see minimum reveal specs in Concealed Hinges brochure

**Cornice and crown molding clearance**

Door thickness	16	19	22	24
X	45	34	23	15

K = Hinge arm crank	
Straight arm crank	= 0
Half-cranked arm	= 9.5
Full-cranked arm	= 18

**Abbreviations**

D	= Mounting plate height
K	= Hinge arm crank
OL	= Overlay

\*\*Minimal internal height: 216 for 110° with 20K5501

\*\*\*Minimal internal height: 225 for COMPACT with 20K5501

**NOTE:** Designed to be used in a lift-up application only

**Planning**

**Narrow Aluminum Frameless Applications**

**Lift mechanism**

$Y = 137 + D + K$

**Door mounting plate**

Attach using #6 x 11 (699.110) aluminum screw

K = Hinge arm crank	
Straight arm crank	= 0
Half-cranked arm	= 9.5
Full-cranked arm	= 18

**Abbreviations**

D	= Mounting plate height
K	= Hinge arm crank
OL	= Overlay

**Arm assembly mounting plate**

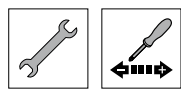
For frame width 19, an SFA of 11–18 is possible.

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

SFA = Side door overlay

**Hinge boring pattern**

**Installation and Adjustment Instructions**



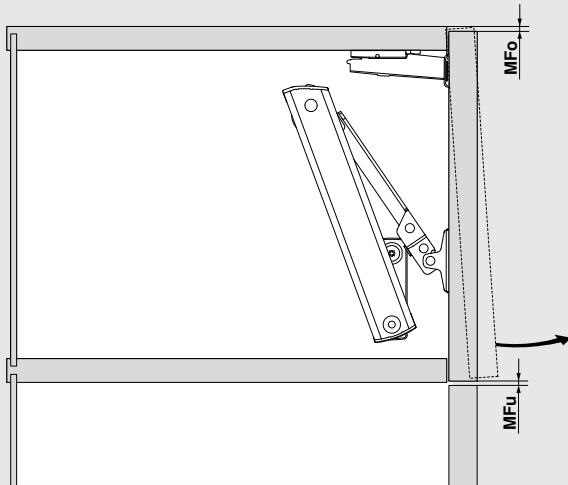
Use QR code or link below for AVENTOS HK-XS installation and adjustment instructions

[www.blum.com/aventos-hkxs-assembly](http://www.blum.com/aventos-hkxs-assembly)

Planning

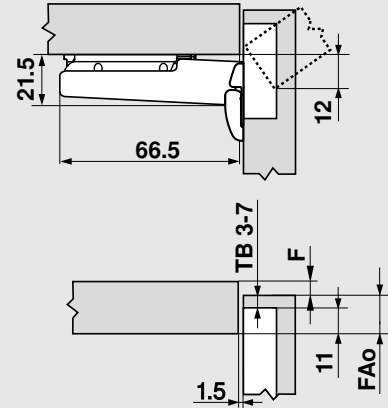
Standard and TIP-ON

Minimum gap



MFo = Minimum gap at the top depending on the hinge used  
 MFu = Minimum gap at the bottom 1.5

Overlay application



FA = Door overlay      TB = Drilling distance      F = Gap

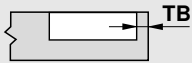
Drilling distance (TB)

MD	Door overlay (FA)													
	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

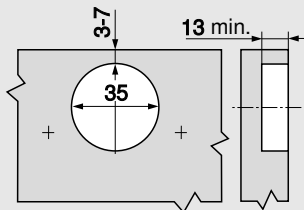
See Concealed Hinge Brochure for COMPACT CLIP specs

Minimum gap (F) for doors with a door edge radius (R = 1) based on the factory setting

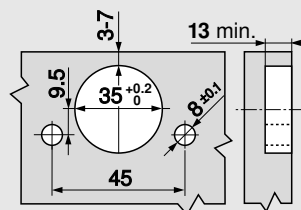


Drilling distance (TB)	Door thickness (FD)											
	16	18	19	20	21	22	23	24	25	26	28	30
3	0.5	0.8	1.0	1.2	1.5	1.8	2.2	2.7	3.5	4.3	-	-
4	0.5	0.8	1.0	1.2	1.4	1.7	2.0	2.5	3.1	3.8	-	-
5	0.5	0.8	0.9	1.2	1.4	1.7	2.0	2.4	2.9	3.4	-	-
6	0.5	0.8	0.9	1.2	1.3	1.6	1.9	2.3	2.7	3.2	-	-
7	0.5	0.8	0.9	1.1	1.3	1.6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

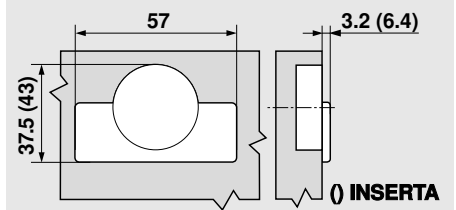
Screw-on assembly



INSERTA | knock-in assembly



Hinge cup dimensions

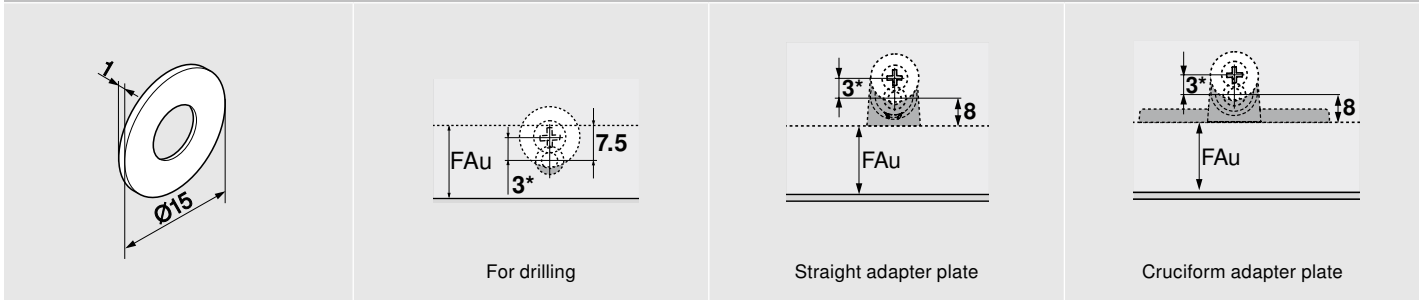


Further planning information for TIP-ON – see page 60

**Planning**

**TIP-ON**

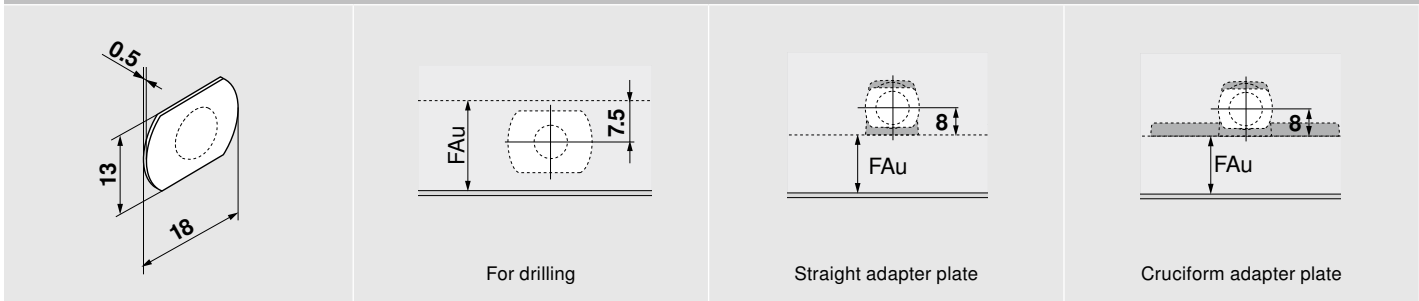
**Screw-on catch plate planning**



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

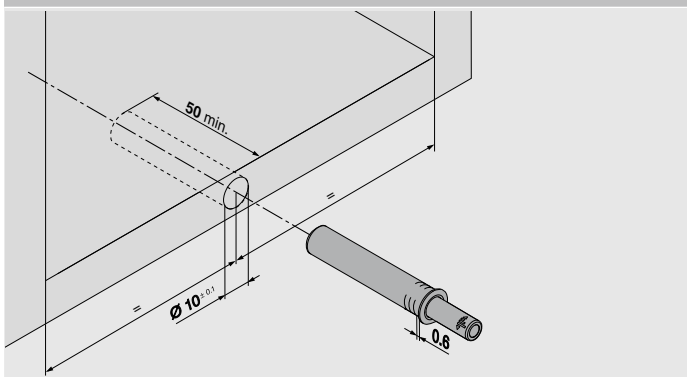
FAu = Bottom door overlay

**Glue-on catch plate planning**



FAu = Bottom door overlay

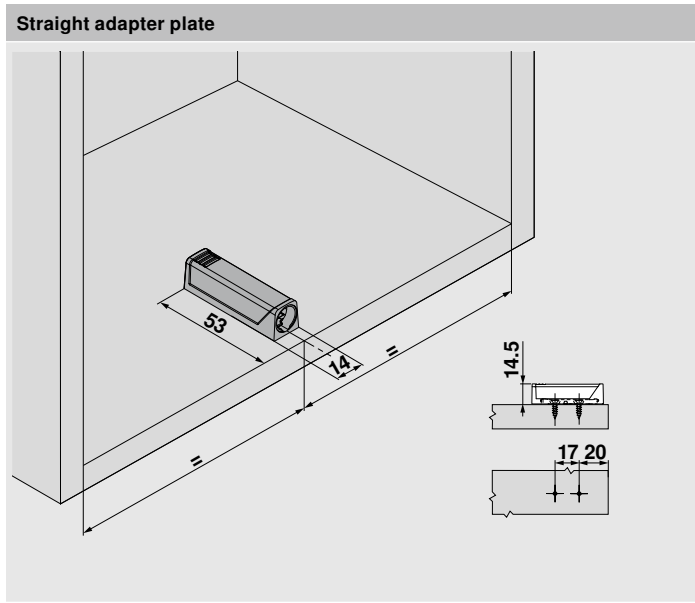
**TIP-ON for drilling fixing position**



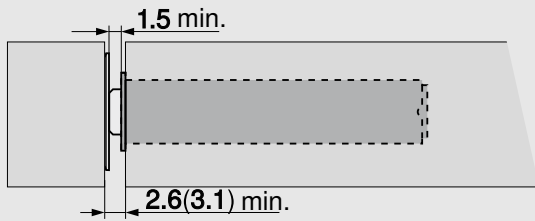
For stay lifts up to and including a height of 400

Planning

TIP-ON Adapter Plate Fixing Position



Installation dimensions for door gap



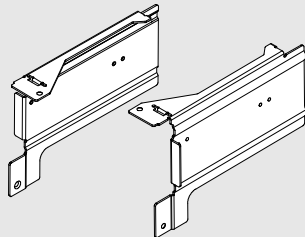
2.6 minimum with glue-on catch plate

() = 3.1 minimum with screw-on catch plate

AVENTOS face frame mounting brackets provide a fast and easy way to install AVENTOS in face frame cabinets without the need to block out. The brackets provide an accurate mounting location in the cabinet for the lift mechanism to simply mount to the bracket with the supplied mounting screws.


**AVENTOS HK top face frame mounting bracket set**

- Brackets for mounting AVENTOS HK top in face frame cabinet
- Minimum recess of **12.5** (1/2")
- Provides accurate mounting position for lift mechanism


**Set includes:**

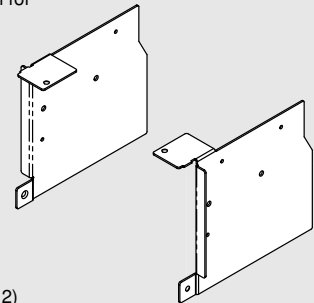
- Right and left brackets
- M4 x **30** lift mounting screws (qty 12)

Part no.

HK top frame mounting bracket set

**22K6001**
**AVENTOS HK-S face frame mounting bracket set**

- Brackets for mounting AVENTOS HK-S in face frame cabinet
- Minimum recess of **12.5** (1/2")
- Provides accurate mounting position for lift mechanism


**Set includes:**

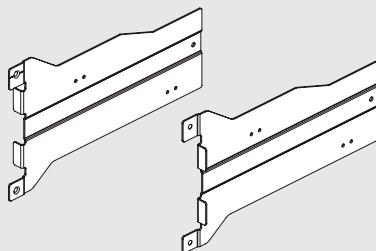
- Right and left brackets
- M4 X **30** lift mounting screws (qty 12)

Part no.

HK-S frame mounting bracket set

**20K6A01**
**AVENTOS HF top face frame mounting bracket set**

- Brackets for mounting AVENTOS HF top in face frame cabinet
- Minimum recess of **12.5** (1/2")
- Provides accurate mounting position for lift mechanism


**Set includes:**

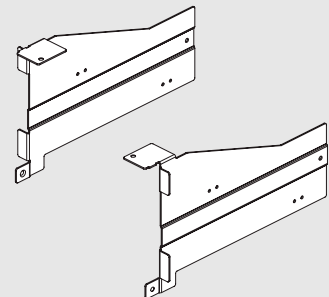
- Right and left brackets
- M4 x **30** lift mounting screws

Part no.

HF top frame mounting bracket set

**22F6001**
**AVENTOS HL top face frame mounting bracket set**

- Brackets for mounting AVENTOS HL top in face frame cabinet
- Minimum recess of **12.5** (1/2")
- Provides accurate mounting position for lift mechanism


**Set includes:**

- Right and left brackets
- M4 x **30** lift mounting screws

Part no.

HL top frame mounting bracket set

**22L6001**

**EXPANDO T**



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

**Door mounting plate for AVENTOS HS top | HL top | HK top**



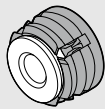
- Steel symmetrical door mounting plate
- Fixing positions as per the details in the respective planning information
- Thin fronts (qty 2)

EXPANDO T door mounting plate

Part no.

**20S42T1**

**EXPANDO T – single**



- Nylon/steel
- Dark gray

Dowel

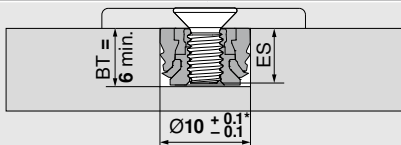
Part no.

**70T4532T**

Installation screw

**M4x8MM**

**Drilling depth | Screw selection – EXPANDO T**



\*Stone and ceramic **+0.2/-0.1**

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

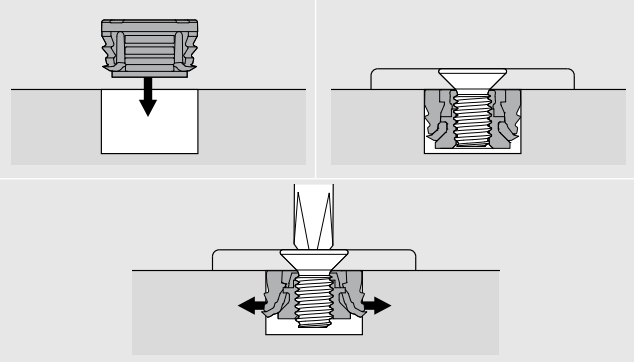
BT = Drilling depth

ES = 4 minimum

ES = Screw penetration depth

ES = 0.5 maximum drilling depth –

**Assembly – EXPANDO T**



**Area of application and assembly recommendation**

EXPANDO T is suitable for attaching Blum hardware to thin cabinet fronts of all types of materials. Front materials can be just **8** thick or more, provided they are sufficiently stable and strong.

Nm = Minimum tightening torque

Materials tested by Blum	Nm
Wood (transverse tensile strength > 0.4 N/mm <sup>2</sup> )	1.5
MDF (transverse tensile strength > 0.6 N/mm <sup>2</sup> )	1.5
HDF	2
HPL	2
Mineral composites	2
Granite stone	3
Artificial stone – quartz composite	3
Ceramic panels	3

**Limitation of liability**

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



Use QR code or link below for EXPANDO T installation and adjustment instructions

<https://www.blum.com/us/en/products/innovations/thin-doors/overview//>

### Door Assembly

**Universal drilling template**

Part no.  
**ZML.0040.02**

**Mounting plate template**

Part no.  
**65.5300**

**Marking template for AVENTOS HK top door mounting plate**

Part no.  
**ZML.2200**

### Cabinet Assembly

**Universal individual template**

Part no.  
**65.1051.02**

**Universal boring template**

Part no.  
**65.1000.01**

### Hinge Systems Assembly

**Mounting plate template**

Part no.  
**65.5300**

**ECOJIG**

Part no.  
**65.5070**

**INSERTA boring template**

Part no.  
**Ø8 | 2.5 65.059A**

**ECODRILL**

Part no.  
**M31.1000**

**QUICKFIX**

Part no.  
**65.7500.03**

**Knock-in tool**

Part no.  
**ZME.0710**

**Insertion tool for mounting plates**

Part no.  
**65.6100**

Mounting plate  
**ZME.0730**

Steel horizontal mounting plate  
**ZME.0730**

### SERVO-DRIVE Assembly

**Assembly – SERVO-DRIVE**

Part no.

Drilling template for the SERVO-DRIVE switch	<b>M31.2000</b>
----------------------------------------------	-----------------

**Assembly – TIP-ON**

Part no.

Drilling template for BLUMOTION   TIP-ON	<b>65.5010</b>
------------------------------------------	----------------

**Face frame adapter plate assembly**

adjustable

M4 x 25 mm spacer screws included

9.5

- Boring template for all Blum face frame adapter plates
- Clamps to the frame with cam lever
- Adjustment knob accommodates face frame thickness of 5/8" to 1"
- Spacer screws allow quick use without measuring

**Set includes:**

- 1** PLATEMATE template
- 2** Ø.35 pilot bit and extension
- 3** Ø5 stop collar

**Also includes:**

- Reversible bushing insert for **32** hole spacing for 175L6xxx
- Reversible bushing insert for **40** hole spacing for 175H6

Part no.

PLATEMATE	<b>65.5030.01</b>
Ø2.5 drill bit	<b>DB-2.5mm R</b>

**TORX DRIVER**

For AVENTOS HKI and AVENTOS top adjustments

Part no.

T20 TORX DRIVER	<b>TORX DRIVER</b>
T8 TORX DRIVER	<b>SR-DREH TX8</b>
T20 x 2" TORX bit insert	<b>TORX BIT T20X2</b>

**POZI DRIVER**

A POZI screwdriver (different from Phillips) is the most crucial tool you can use to assure that full torque is applied to all Blum mounting screws. POZI screws can be identified by the distinctive "tick" marks located in the center of the screwhead recess.

Phillips POZI

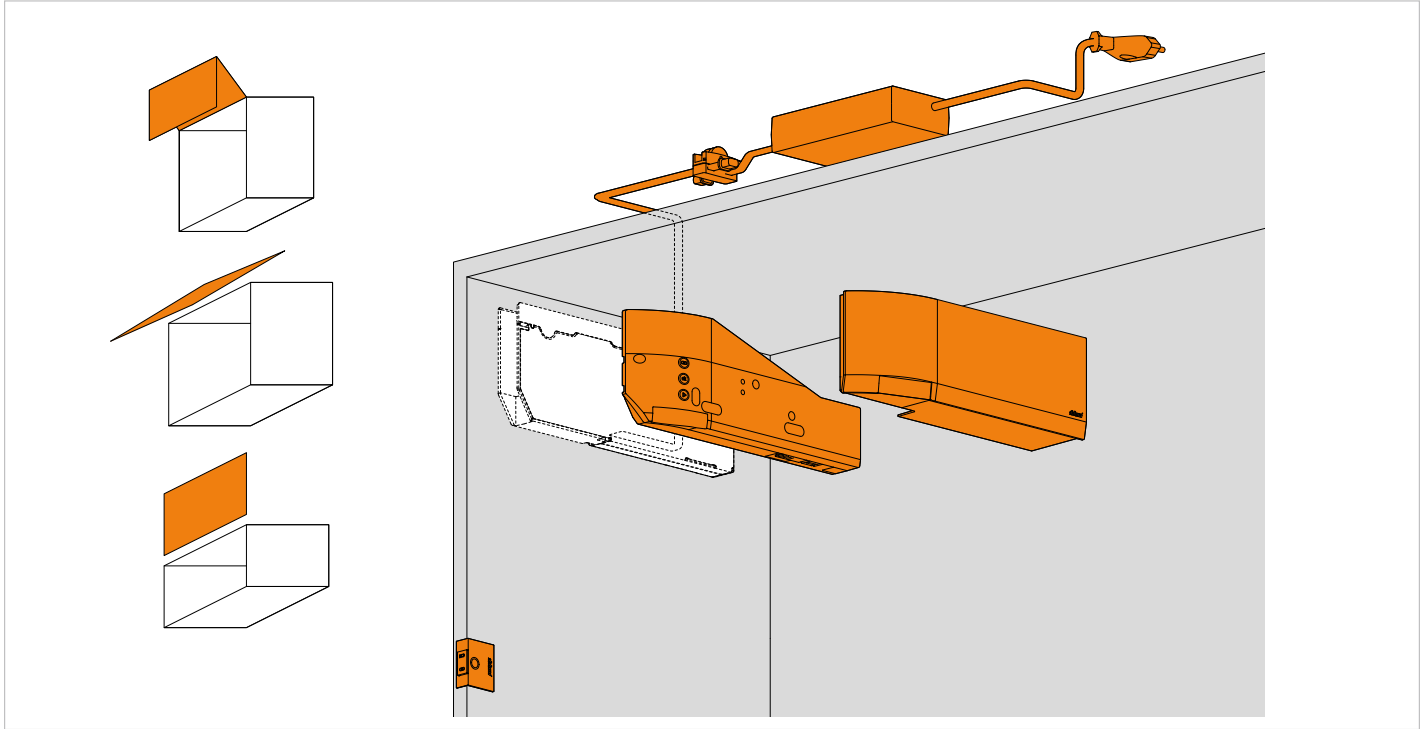
Tick marks

Part no.

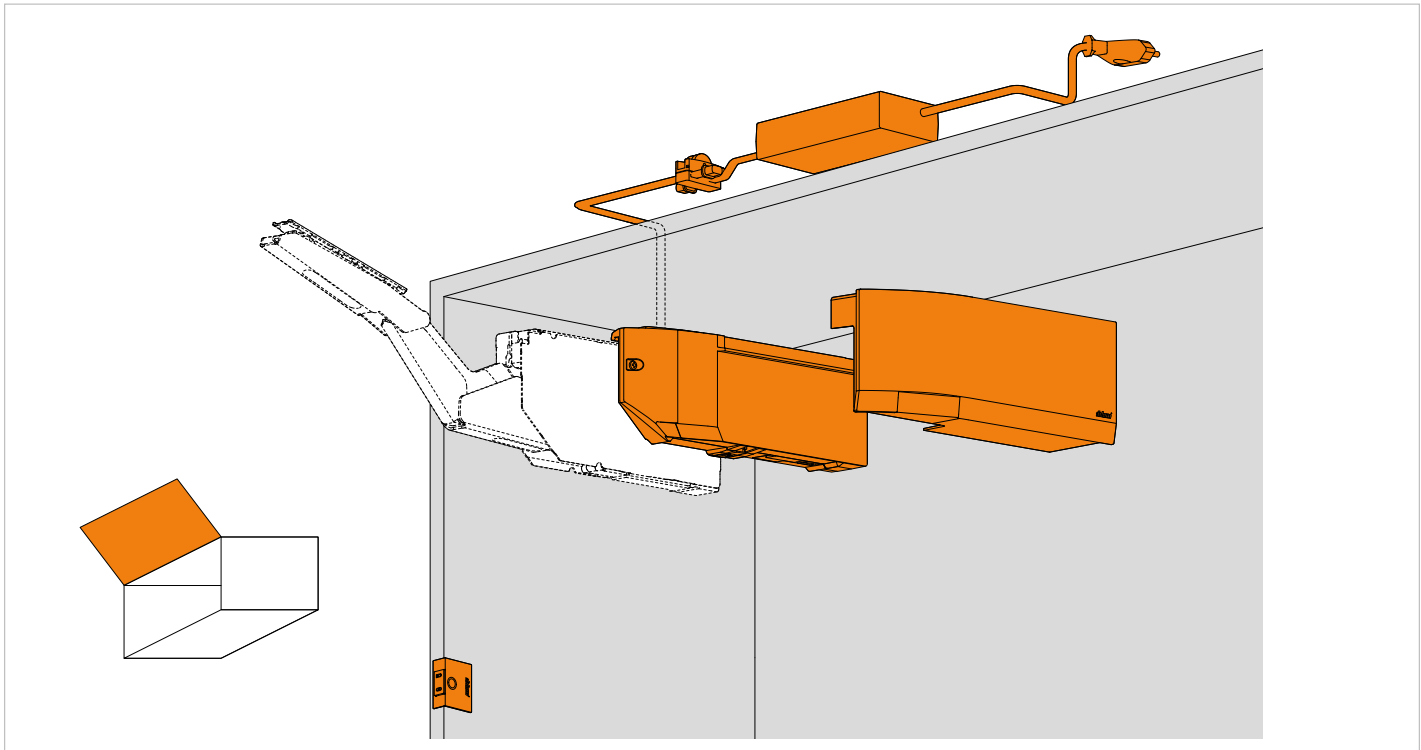
#2 POZI DRIVER	<b>POZI DRIVER</b>
1/4" Magnetic bit holder	<b>BIT HOLDER</b>
#2 x 1" POZI bit insert	<b>POZI BIT #2X1</b>
#2 x 2" POZI bit insert	<b>POZI BIT #2X2</b>

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

**SERVO-DRIVE Power Supply Unit and Accessories**



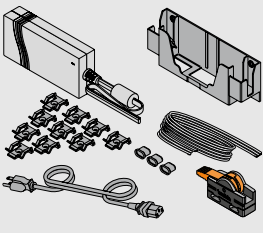
**SERVO-DRIVE for AVENTOS HK top**



Ordering Information

SERVO-DRIVE Power Supply Unit and Accessories

**Option 1: Power supply set**



**Set includes:**

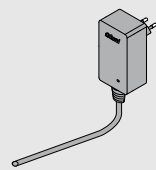
- Power supply
- Wall mount bracket
- Three-prong power cord
- Cable connector
- Cable end protector (qty 3)
- Cable clips (qty 10)
- 19 feet universal cable

Part no.

Power supply set **Z10NE04UG22**

**Option 2: SERVO-DRIVE uno plug-in power supply unit**

Only suitable for one drive unit



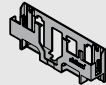
**Set includes:**

- SERVO-DRIVE plug-in power supply unit
- 1120 cable (with SERVO-DRIVE distribution cable extendable to maximum of 2000)

Part no.

Power supply unit **Z10NA40UG**

**Power supply unit housing**




– Nylon panel fixing  
– For SERVO-DRIVE power supply unit

White gray (WGR)

Part no.

Power supply unit housing **Z10NG120**

**SERVO-DRIVE switch**



For adding additional activation switches to a SERVO-DRIVE for AVENTOS application.

- Up to six switches can be added per drive unit


Silk white    Dark gray  
Light gray

Part no.

SERVO-DRIVE switch **23P5020**

**NOTE:** A switch can only be synchronized to one drive unit

**SERVO-DRIVE switch adapter**



– Used for face frame and frameless applications  
– Doesn't require boring into side of cabinet

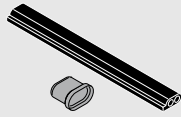
Silk white    Dark gray  
Light gray

Part no.

SERVO-DRIVE switch adapter **23P5216**

Accessories

**SERVO-DRIVE distribution cable and cable end protector**



For cutting to size – 8 m

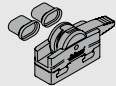
**Set includes:**

- SERVO-DRIVE distribution cable
- Cable end protector (qty 5)

Part no.

Distribution cable and cable end protector **Z10K800AE**

**Connecting node and cable end protector**



Nylon connecting node and cable end protector

**Set includes:**

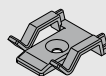
- Connecting node
- Cable end protector (qty 2)

Black (S)

Part no.

Connecting node and cable end protector **Z10V100E.01**

**Cable holder**



For attaching the SERVO-DRIVE distribution cable

White (W)

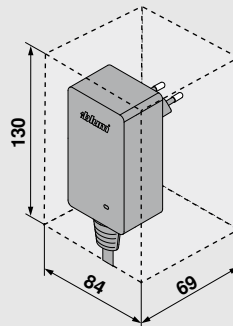
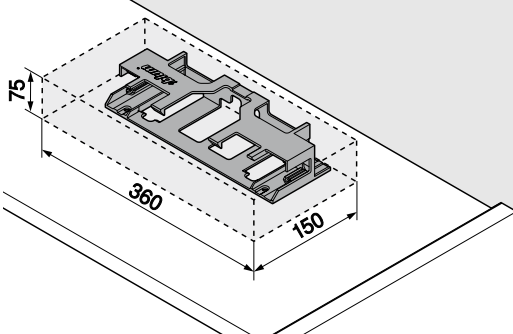
Part no.

Cable holder **Z10K0009**

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

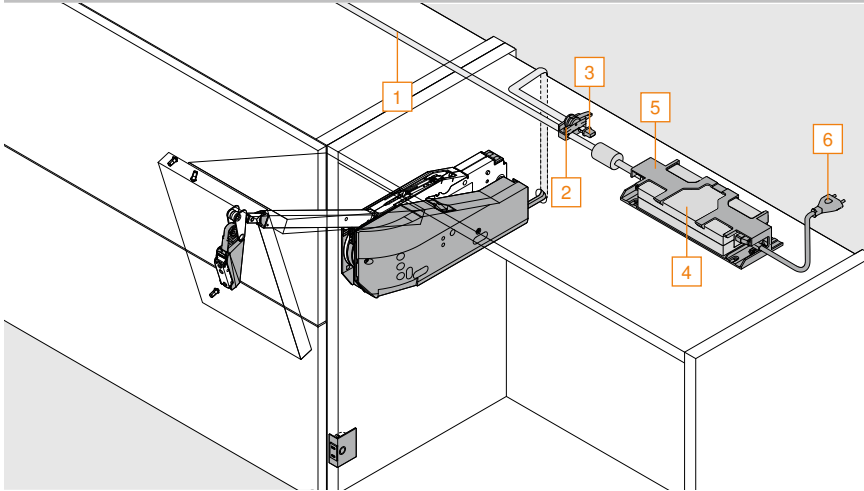
**SERVO-DRIVE Power Supply Unit and Accessories**

**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.

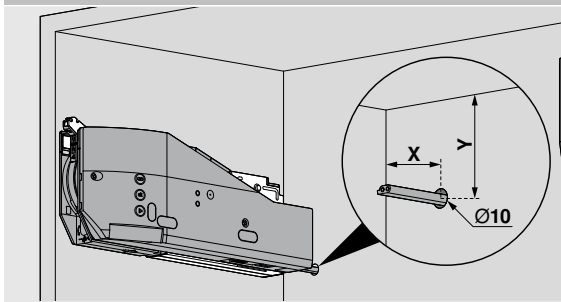
**Assembly on the cabinet top panel**



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

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

**Back cabling**

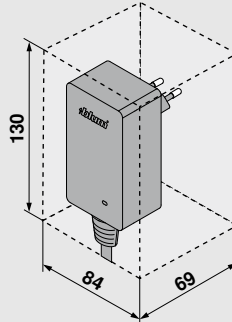
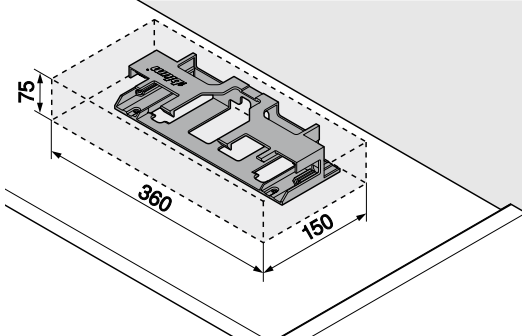


			X	Y
AVENTOS HF top	Cabinet height	480–519	38.5	102
		520–1219	38.5	124
AVENTOS HS top			38.5	45
AVENTOS HL top			38.5	71

## SERVO-DRIVE for AVENTOS HK top

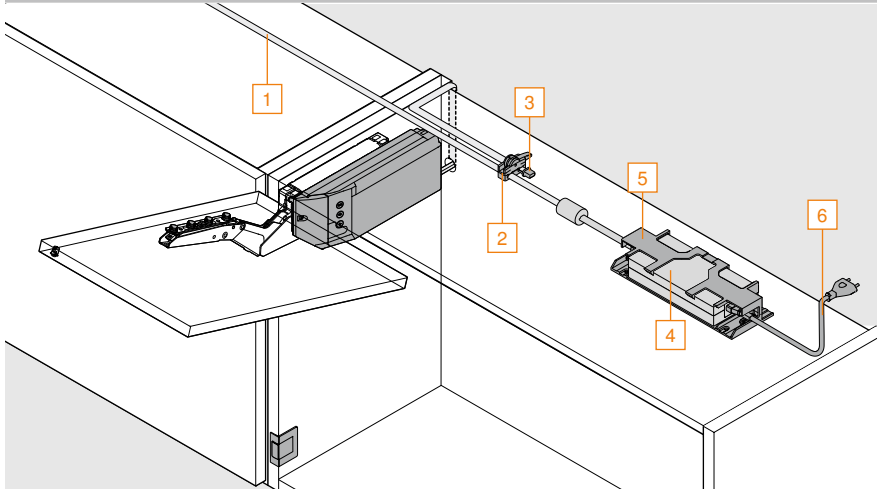
### SERVO-DRIVE Power Supply Unit and Accessories

#### 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.

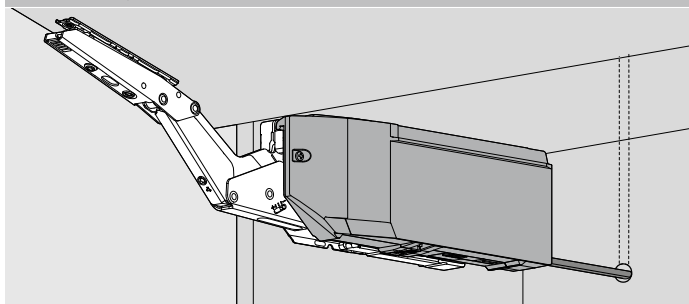
#### Assembly on the cabinet top panel



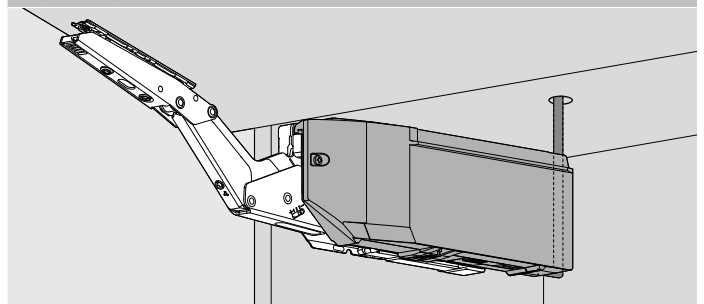
- 1 SERVO-DRIVE distribution cable
- 2 Connecting node
- 3 Cable end protector
- 4 SERVO-DRIVE power supply unit
- 5 Power supply unit housing
- 6 Three-prong power cord

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

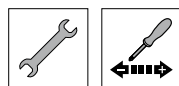
#### Back cabling



#### Top cabling



## Installation and Adjustment Instructions



Use QR code or link below for AVENTOS top SERVO-DRIVE installation and adjustment instructions

[www.blum.com/servodrive-aventos-assembly](http://www.blum.com/servodrive-aventos-assembly)

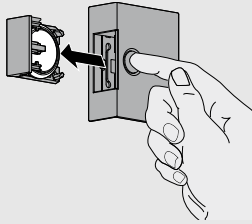
## SERVO-DRIVE for AVENTOS top

### Replacing the SERVO-DRIVE switch battery

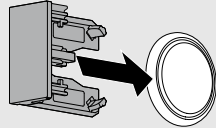
When the battery power begins to weaken, the battery display (LED) begins to flash red.  
If the battery is inserted incorrectly, the SERVO-DRIVE switch battery display will flash red.

- Open the SERVO-DRIVE switch and remove the battery
- Insert the new battery (type CR2032) and close the SERVO-DRIVE switch – note correct polarity +/-

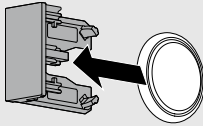
- 1 Press release button on switch and remove battery tray.



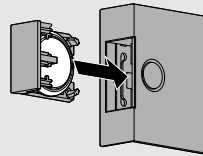
- 2 Remove old battery.



- 3 Replace with new battery.



- 4 Insert battery tray back into switch.



**NOTE:** The SERVO-DRIVE switch battery must not be recharged or discarded into fire.

# Our Services at a Glance

Our services support you throughout your entire process – from planning and design, all the way through to manufacturing. Take advantage of our tried-and-tested and user-friendly services for your projects with AVENTOS.



## Planning, design, quoting

Product Database offers specific product details, photos and CAD data. Our Product Configurator provides you with checked and complete parts lists specifically for your application.



## Ordering

To make it easy to order your AVENTOS parts, you can manage your different projects and order lists with ease under "My Projects" and "My Order Lists" in the Product Configurator.



## Manufacturing

CAM data can be downloaded from the Product Configurator to assist you during the cabinet manufacturing process. Have a Blum EASYSTICK? Transfer BXF files from the Product Configurator directly to your machine.



## Assembly, installation

Download our EASY ASSEMBLY App for quick access to assembly and installation instruction sheets and videos. The easy-to-use interface allows you to filter by product type. Save your most used products to your favorites to find the information again quickly.



## Marketing

Using our free Marketing Media Library, you can find photos, videos and logos to assist you in your own marketing efforts.



Sign up now for a free  
E-SERVICES account.  
[e-services.blum.com](https://e-services.blum.com)



Find out more about our  
E-SERVICES:  
[blum.com/e-services](https://blum.com/e-services)

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# moving ideas

At Blum, we pay attention to those small, but valuable, details. We're attentive in everything we do. With our carefully engineered hardware, innovative motion technologies and customized services, we help move your ideas forward. Let's move the world together.



## Quality of living

We engineer our products with your lifetime in mind. As your mobility needs change, Blum hardware keeps your cabinets accessible.



## Product range

Everything from a single source: Our wide range of products allows you to keep up with the trends of today and tomorrow.



## Inspiration

We monitor global trends and strive to create the solutions of tomorrow. We like to share our insights with you.



## Innovation

We stay in motion. Our curiosity and pioneering spirit drive us to develop new products and services for you.



## Services

We support your daily operations with customized services tailored to your processes.



## Quality

We continuously strive to improve our products, services and ourselves.



## Trust

It's our goal to build lasting relationships with our customers, employees and in our community.

Julius Blum started our journey in 1952 with horseshoe studs. Today we supply innovative hardware to customers in over 120 countries.

Please visit [blum.com](http://blum.com) for information on other Blum products  
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