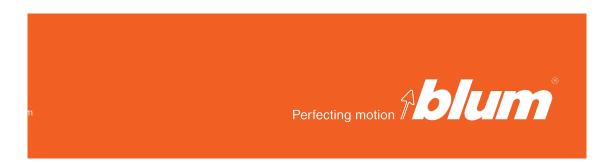


AVENTOS

An inspiring range of lift systems







Ease of

motion – multitude of options

The AVENTOS lift system brings ease of motion to the wall cabinet. Even large and heavy lift systems can be opened with the utmost ease. What makes AVENTOS especially practical is that it offers the furniture user full freedom of movement and provides the necessary cabinet access at all times. Your customers will be inspired.

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- 5 Ideas for practical kitchens
- 6 The lift system programme
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The lift system programme

They fold, lift and swing up and over with fasincating ease

AVENTOS is the ideal solution for any wall cabinet. Whether it is used in the kitchen or living area, whether there is lots of space available or only a little and whether it is used with small or large fronts, one thing never changes: the supreme ease of motion. Thanks to integrated BLUMOTION, lift systems always close silently and effortlessly. Combined with SERVO-DRIVE, lift systems will open with a light touch and close automatically with a press of a button.

In addition to their proven stability and elegant design AVENTOS lift systems offer a complete solution for all round high level movement.







Bi-fold lift system

AVENTOS HF

- Ideal for high wall cabinets
- - the lift system is open
- large cabinet heights, thanks to the
- two-part front

Up & over lift system **AVENTOS HS**

- Handle is easy to reach, even when Minimal space required thanks to fronts above or for recessed cabinets.
- swivel motion ■ Takes up mimimal space even w Can be combined with cornice or even low fronts
 - crown moulding
 - No hinges required
- Variable stop

Lift up **AVENTOS HL**

- Ideal for large, one-part fronts Ideal for tall or wall cabinets with

 - Suitable for smaller, one-piece and
 - Easy access to storage items
 - No hinges required
 - Variable stop



Stay lift AVENTOS HK

- Ideal for small and medium AVENTOS HK-S wall cabinets
- The space requirement above cabinathanks to the lift system motion
- No hinges required
- Variable stop



Small stay lift

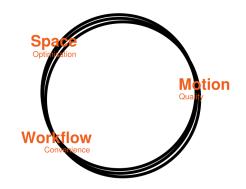
- Perfect for small cabinets,
- e.g. over refrigerators or larder units
- Harmonious proportions
- No hinges required
- Variable stop

DYNAMIC SPACE



DYNAMIC SPACE – Ideas from Blum for practical kitchens

Good workflows, enough storage space and top quality motion. For Blum, workflow, space and motion are the three essential features of a practical kitchen. With DYNAMIC SPACE, we offer helpful ideas, suggestions and solutions so that today's kitchens don't just look great, but are practical as well.





Workflow - Easy access

With AVENTOS, the front moves up, taking it right away from the work area. This makes the cabinet contents easy to access at all times. If the cabinet is placed near the dishwasher, clean glasses can be put back in their rightful place at lightning speed.



Space – Fits in with storage space requirements

Wall cabinets with lift systems are flexible with regard to size. The optimum size depends on your room layout, your individual storage space requirements and your aesthetic preferences.

Depending on the lift system type, heights of

approx. 185 mm to 1040 mm are possible, coupled with widths ranging from 300 mm to 1800 mm.



Motion – New effortlessness for lift systems

Even heavy and wide fronts have a feather-light glide. Regardless of the force applied, all AVENTOS lift systems always close silently and effortlessly – thanks to BLUMOTION.

With SERVO-DRIVE, the electrical motion support system, lift systems open with just a light touch and close at the touch of an easily accessible switch.



The lift system programme

Everything at a glance

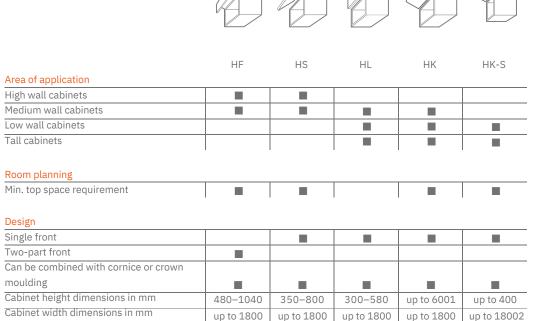
The graphic below shows how the five fittings from the AVENTOS range can be used in a common kitchen system.



AVENTOS HL AVENTOS HL AVENTOS HF AVENTOS HS AVENTOS HS AVENTOS HS AVENTOS HS AVENTOS HK AVENTOS



^{*}AVENTOS is flexible enough to be used in wall cabinets using 4-tier systems in addition to the 6-tier system shown above.



Ergonomics

Handles within easy reach		()	
Easy access to cabinet interior			

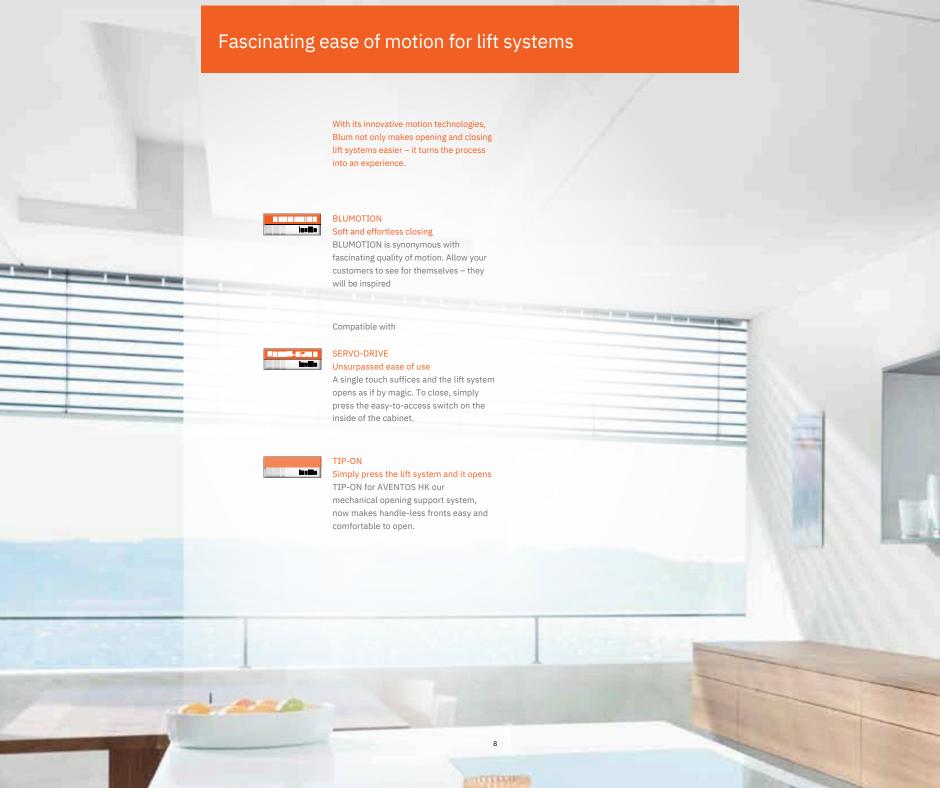
Motion technologies

BLUMOTION			
SERVO-DRIVE			
TIP-ON			

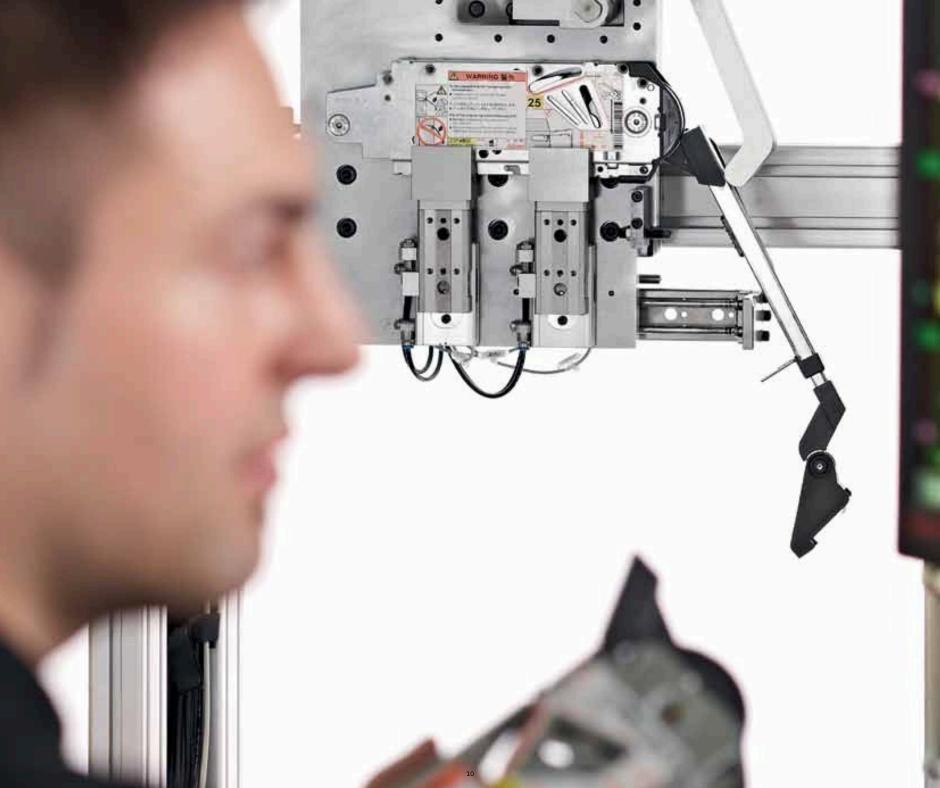
For ergonomic reasons, we recommend a maximum cabinet height of 600 mm. However, higher lift systems can also be implemented subject to the power factor limits (see page 54). Cannot be combined with BLUMOTION

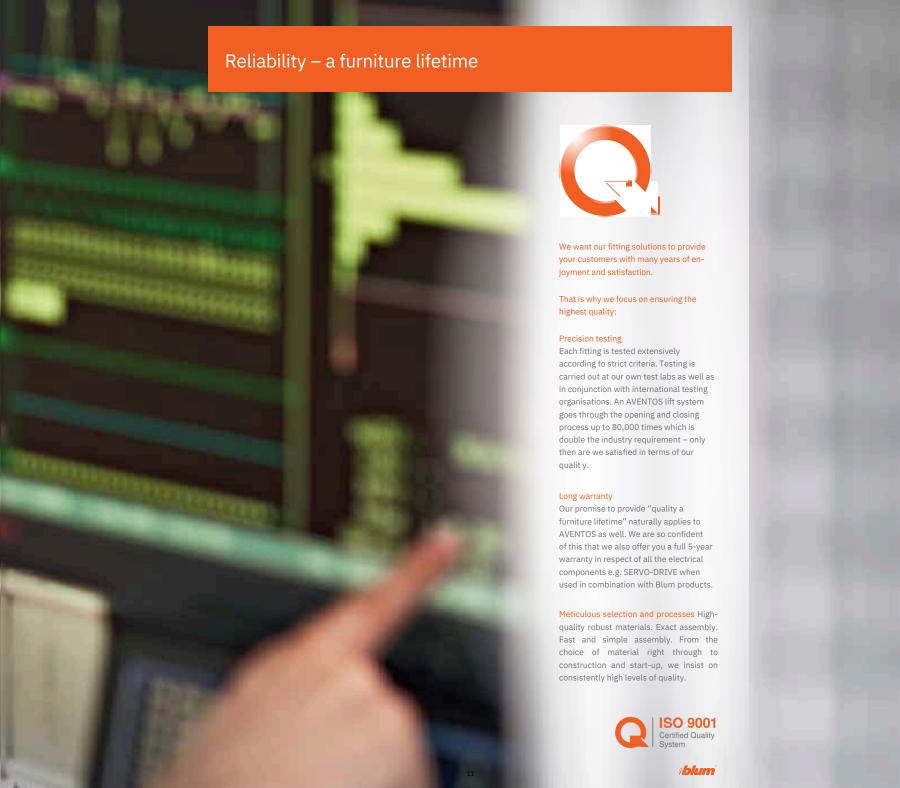
7

*îblum*î















AVENTOS

Why is it that the lift system rises or falls when you let go?

This occours when the lift mechanism has not been set correctly. The fine adjustment process involves using a power screwdriver and the integral calibration to adjust the lift mechanism in precise accordance with the front weight. The result: The front stays in the position required.

Is it also possible to use opening angle stops?

Yes, it is possible for AVENTOS HF, HK and HK-S. In the case of SERVO-DRIVE for AVENTOS, the drive unit must be mounted first and once the opening angle stop has been subsequently mounted, a reference run must be performed.

Can the AVENTOS concept be implemented without using handles?

Yes, you can equip the lift system with SERVO-DRIVE (an electrical motion support system) or TIP-ON (a mechanical opening support system). A single touch suffices and the lift systems appear to open by themselves.

SERVO-DRIVE for AVENTOS

Is it possible to synchronise multiple lift systems?

Yes. Up to three drive units can be set so that they move simultaneously. This is especially practical in cases where there is a shared front covering several cabinets. In addition, the "collision avoidance" function for corner solutions allows you to adjust the drive units so that only one front ever opens at a time.

What does my customer see when the wireless switch battery has to be replaced?

The SERVO-DRIVE switch contains a battery display. It flashes red when the battery power begins to weaken. Battery replacement is very simple. All you need is a conventional button cell battery (type CR 2032).

What happens when the power goes out?

When there is a power cut SERVO-DRIVE for AVENTOS is not activated. However, you can continue to open and close manually without restrictions.

Once the power has been restored, you can carry on using everything as normal without having to reset the SERVO-DRIVE unit.

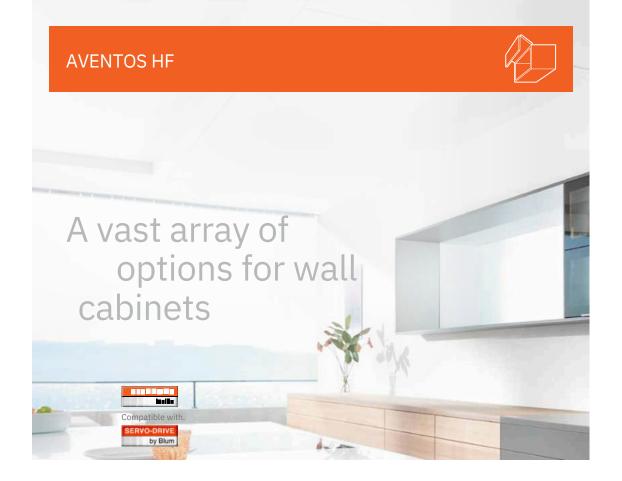
Can SERVO-DRIVE for AVENTOS be deactivated?

Your customers can deactivate SERVO-DRIVE for AVENTOS very easily. This is especially practical when cleaning the fronts, for example. We recommend a switched outlet for this. While deactivated, the lift systems can continue to be opened and closed manually.









The AVENTOS HF bi-fold lift system is the ideal solution for high and mid wall units. Thanks to the two-part front, even high cabinets can be accommodated. With AVENTOS HF, there is no limit to the variety of planning and design options available. Whether your customers want wooden fronts, narrow or wide aluminium frames, combinations of different materials or even fronts of different heights, you will always be able to meet their individual requirements. Handle-less fronts can be opened using SERVO-DRIVE technology.









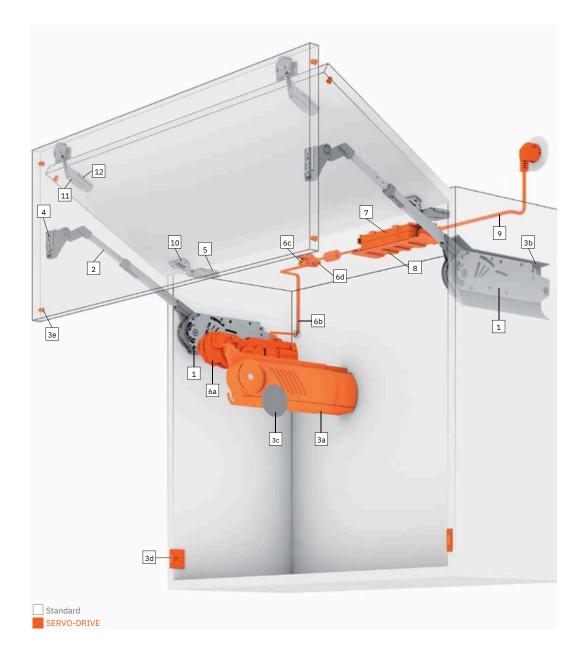


Innovative technology that offers protection: The CLIP top centre hinge prevents fingers getting caught.



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

AVENTOS HF



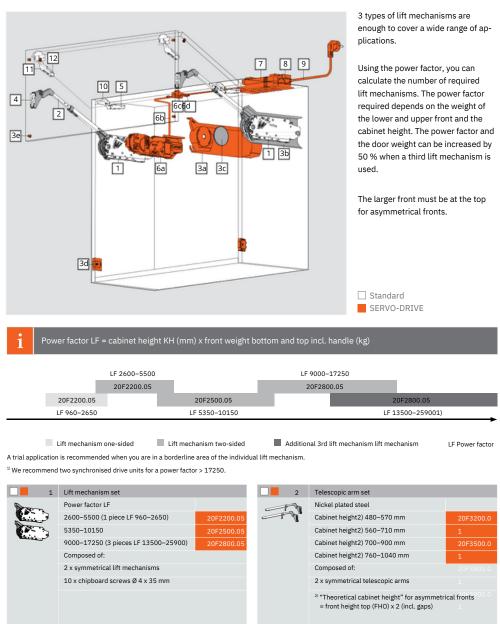


		1	Lift mechanism		6a	Drive unit The drive unit is attached without tools to the left lift mechanism. The same drive
		2	Telescopic arm			unit can be used for all lift mechanisms.
		За	Cover cap, left The left SERVO-DRIVE cover cap is used to cover the lift mechanism, drive unit and distribution cable. To cover the cabling, the cover cap can be expanded up to an internal depth of 350 mm.	•	6b	Distribution cable This cable is used to supply power to the drive unit. The maximum permitted operating power is 24 V.
		3b	Cover cap right		6c 6	Connecting node + cable end protector This node establishes the electrical connection between the distribution cable and the transformer. The cable end
		3c	Cover cap round			protector is inserted into the "open" end of the cable.
	•	3d	SERVO-DRIVE switch The SERVO-DRIVE switch is attached to the cabinet side at the bottom. The switch signals the drive unit via a wireless connection. The 2.4 GHz frequency is certified for international use.	•	7 9	Blum transformer + flex The Blum transformer can be used worldwide. It converts the country- specific mains voltage to 24 V direct current. You must use a flex with a regular plug for the respective country depending on the installation location.
	•	3e	Blum distance bumper The Blum distance bumper creates and maintains the required trigger path of 2 mm.		8	Transformer unit housing The transformer is easily and securely stored in the transformer unit housing.
		4	Mounting plate for telescopic arm		10	CLIP top 120° hinge (unsprung)
		5 12	Mounting plate for CLIP top 120° hinge CLIP top centre hinge		11	CLIP top centre hinge



Order information Standard and SERVO-DRIVE for AVENTOS HE

Wooden fronts and wide aluminium frames symmetrical/asymmetrical



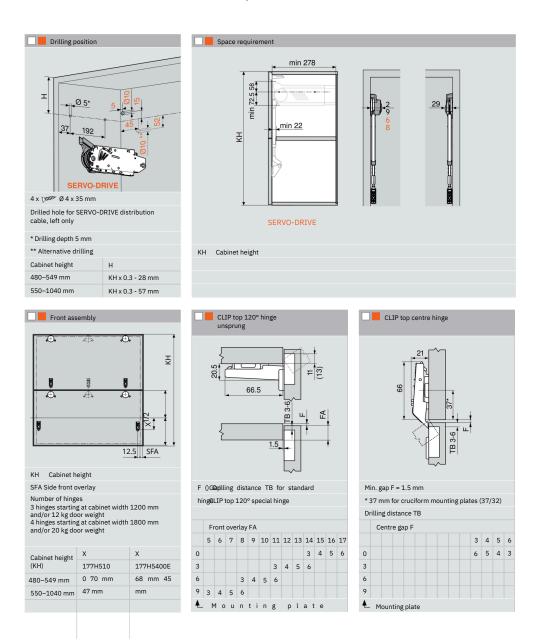


3	Cover cap set			Hinge set		
,0 O _x	Nylon		(2)	for wooden fronts		
	light grey, silk white,	20F8000		Fixing method: INSERTA/EXPANDO/knock in 78Z5530T10		
	Composed of:		DOM:			
3a	1 x cover cap large left		7.00	Comprising of:		
3	1 x cover cap large right		10 11	2 x CLIP top 120° hinge o. F.3) (70T5590BTL)		
b	2 x round cover caps		4, 5, 12	2 x CLIP top centre hinge (78Z5530T)		
3c			12	6 x Horizontal cam mounting plate (177H5100)		
3	Cover cap set for SERVO-DRIVE			2 x Cruciform mounting plate (174E6100.01)		
	Nylon			³⁾ o. F. = unsprung		
	light grey, silk white,					
		21F8 0 0 0				
				Hinge set		
	Composed of:		market Day	for wooden fronts and wide alu frames		
3a	1 x SERVO-DRIVE cover cap large left		mores - Sing	Fixing method: Screw-on4)		
3	1 x cover cap large right		[0]	78Z5500T11		
b	2 x round cover caps			Comprising of:		
3c	2 x SERVO-DRIVE switches		10 11	2 x CLIP top 120° hinge o. F.3) (70T5550.TL)		
3	6 x Blum distance bumpers, Ø 5 mm		4, 5, 12	2 x CLIP top centre hinge (78Z5500T)		
d			12	6 x Horizontal cam mounting plate (175H5400)		
3 6	SERVO-DRIVE set			2 x Cruciform cam mounting plate (173H7100)		
e	Nylon					
ANTE DE	RAL 7037 dust grey	21FA 0 0 0		³⁾ o. F. = unsprung		
				4) Use chipboard screws (609.1x00) for wooden fronts.		
~	Composed of:			Use self tapping screw, countersunk head (660.0950) for wide alu frames.		
6a	1 x drive unit			ioi wide ata iranies.		
6	1 x distribution cable, 1500 mm					
b	1 x connecting node			Bit PZ cross slot		
6c	2 x cable end protectors		-	Size 2, length 39 mm		
6				BIT-PZ KS2		
d						
	Opening angle stop		7, 8, 9	Blum transformer,		
	Nylon 104° 83°			flex and transformer unit housing		
	Dark grey 2 x	20F705				
	Dust grey 2 x	1		Page 74		
	5.7,	20F701		. ugo		

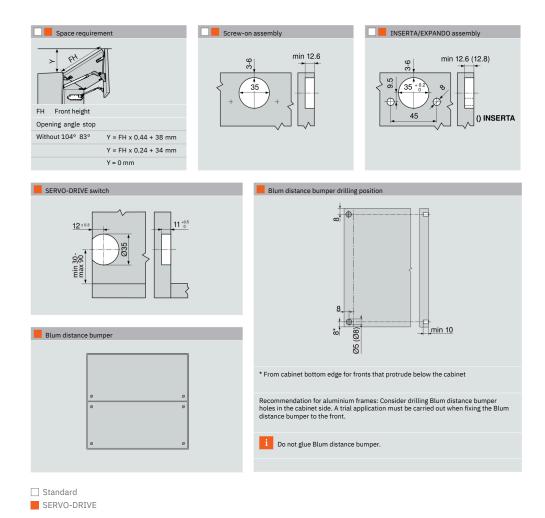


Planning information Standard and SERVO-DRIVE for AVENTOS HF

wooden nonts and wide attininium names symmetricat



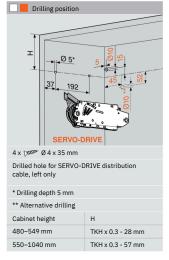




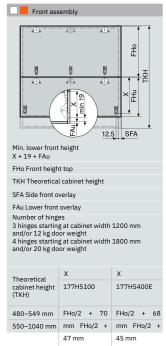
iblum

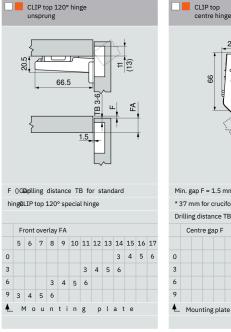
Planning information Standard and SERVO-DRIVE for AVENTOS HF

wooden nonts and wide atuminium names asymmetricat

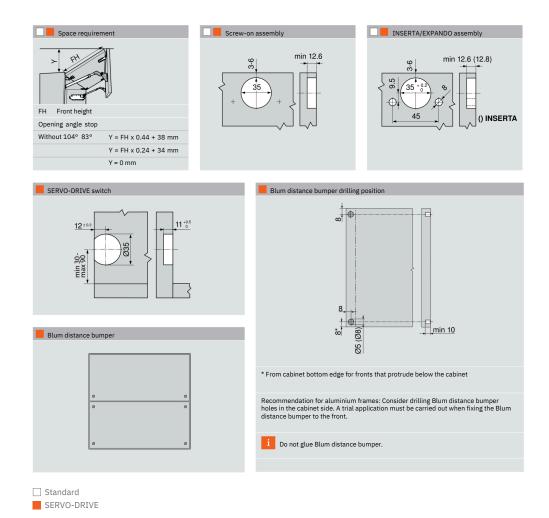








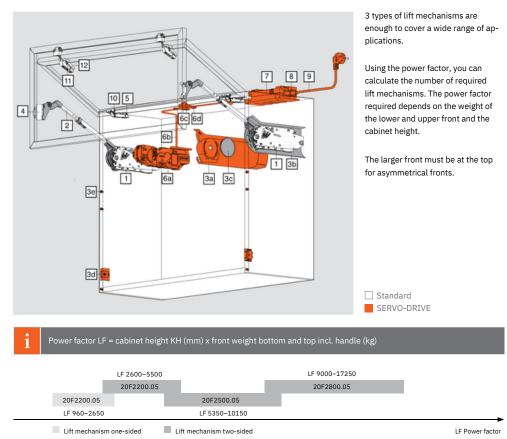




Ablum

Order information Standard and SERVO-DRIVE for AVENTOS HF

Narrow aluminium frames symmetrical/asymmetrical



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





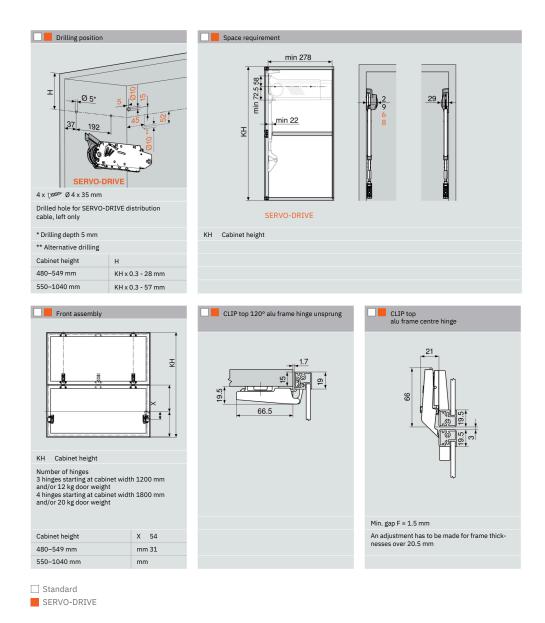
3	Cover cap set	6	SERVO-DRIVE set
	Nylon		Nylon
	light grey, silk white,		RAL 7037 dust grey 21FA 0 0 0
	20	DF8000	
		•	Composed of:
	Composed of:	6a	1 x drive unit
3a	1 x cover cap large left	6	1 x distribution cable, 1500 mm
3	1 x cover cap large right	b	1 x connecting node
b	2 x round cover caps	6c	2 x cable end protectors
3c		6	
		d	
3	Cover cap set for SERVO-DRIVE		Hinge set
	Nylon		for narrow alu frames
	light grey, silk white,	DECIMA TANK	Fixing method: screw-on
	23	LF8 0 0 C	78Z5500T11
			Comprising of:
	Composed of:	1	2 x CLIP top 120° alu frame hinge o. F.2) (72T550A.TL)
3a	1 x SERVO-DRIVE cover cap large left	0	2 x CLIP top alu frame centre hinge (78Z550AT)
3	1 x cover cap large right	1	2 x CLIP adapter plate symmetrical (175H5A00)
b	2 x round cover caps	1	2 x CLIP adapter plate left/right (175H5B00)
3c	2 x SERVO-DRIVE switches	1	2 x Horizontal cam mounting plate (175H5400)
3	6 x Blum distance bumpers, Ø 5 mm	2	
d		4	²⁾ o. F. = unsprung
3		5	
e	Bit PZ cross slot	7, 8, 9	Blum transformer,
	Size 2, length 39 mm		flex and transformer unit housing
	BIT-I	PZ KS2	



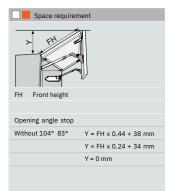
Side

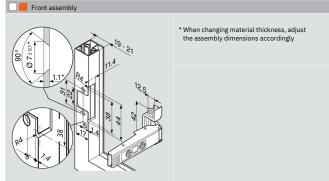
Planning information Standard and SERVO-DRIVE for AVENTOS HF

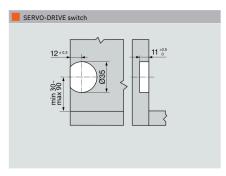
narrow atummum names symmetricat

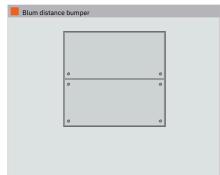


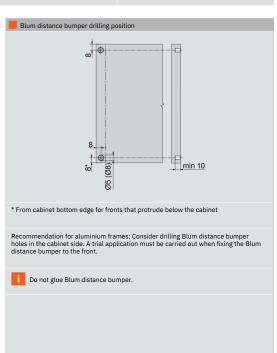








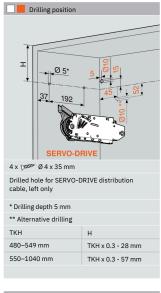




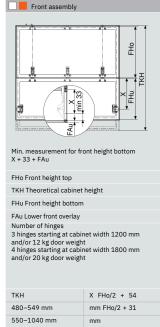


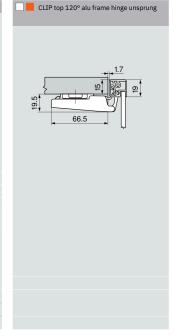
Planning information Standard and SERVO-DRIVE for AVENTOS HF

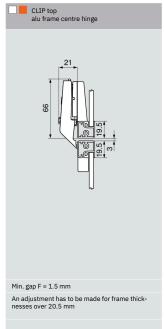
marrow atuminium frames asymmetrical



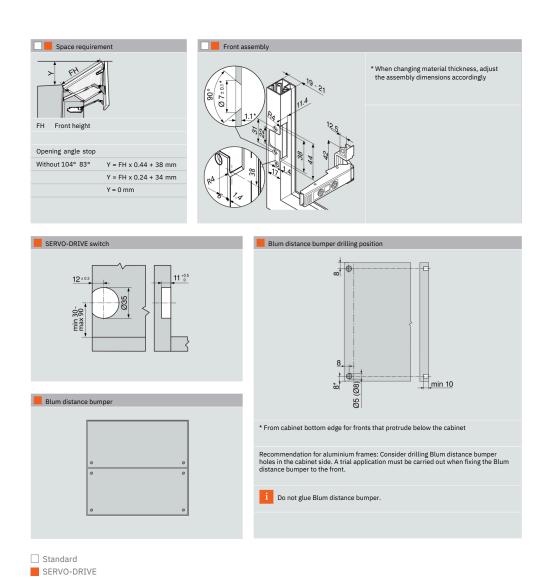




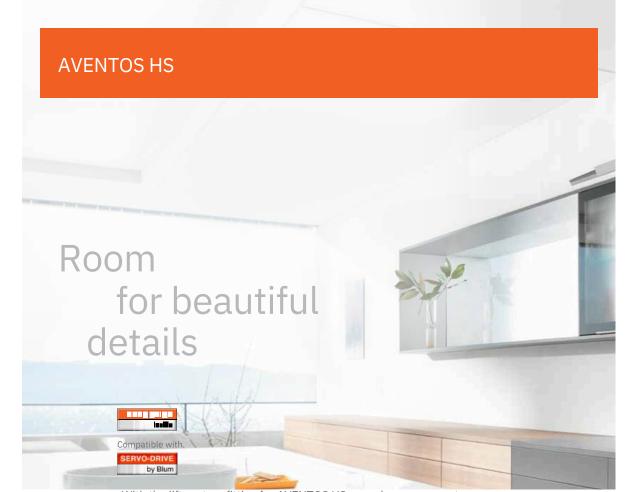








iblum



With the lift system fitting for AVENTOS HS, even large, one-part fronts appear to defy gravity by swinging up effortlessly. There is still enough space over the cabinet for a host of design options, such as beautiful details in the form of cornice or crown mouldings. As you would expect, this product is just as easy to assemble as the others and the process is almost entirely tool-free. Handle-less fronts can be opened using SERVO-DRIVE technology and without any need for hinges.





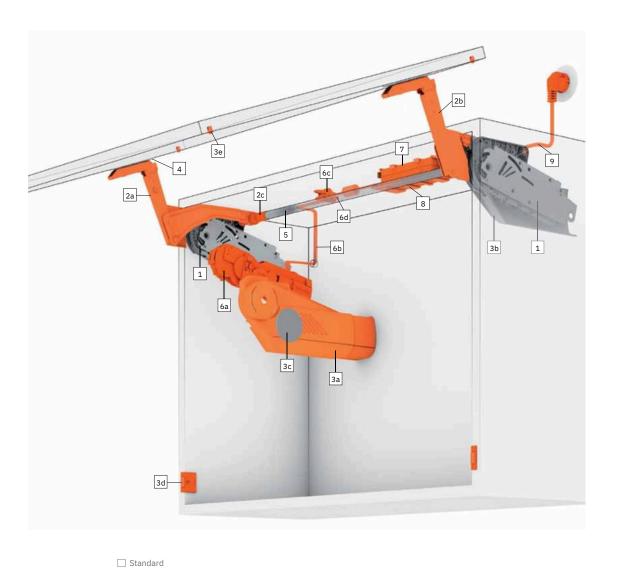


Tailored to your tastes: AVENTOS HS also allows wall cabinets to be decorated with cornice or crown mouldings.



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

AVENTOS HS

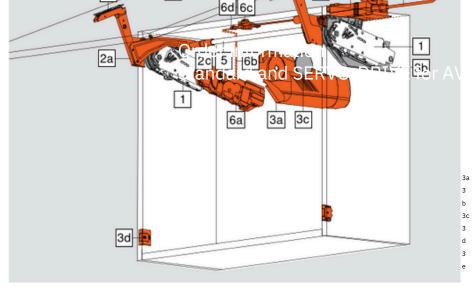


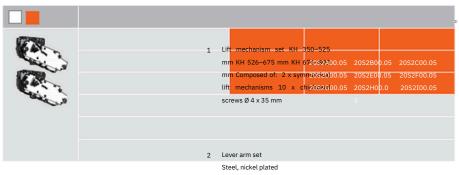
SERVO-DRIVE



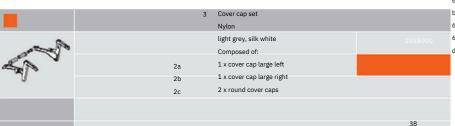
	1	Lift mechanism		4	Front fixing bracket
	2a 2 b	Lever arm		5	Cross stabiliser rod round
	2c	Cross stabiliser cover cap		6a	Drive unit The drive unit is attached without tools to the left lift mechanism. The same drive unit can be used for all lift mechanisms.
	3a	Cover cap, left The left SERVO-DRIVE cover cap is used to cover the lift mechanism, drive unit and distribution cable. To cover the cabling, the cover cap can be expanded up to an internal depth of 350 mm.	•	6b	Distribution cable This cable is used to supply power to the drive unit. The maximum permitted operating power is 24 V.
	3b	Cover cap right		6c 6	Connecting node + cable end protector This node establishes the electrical connection between the distribution
	3d	SERVO-DRIVE switch The SERVO-DRIVE switch is			cable and the transformer. The cable end protector is inserted into the "open" end of the cable.
		attached to the cabinet side at the bottom. The switch signals the drive unit via a wireless connection. The 2.4 GHz frequency is certified for international use.	•	7	Blum transformer + flex The Blum transformer can be used worldwide. It converts the country- specific mains voltage to 24 V direct current. You must use a flex with a regular plug for the respective country depending on the installation location.
	3e	Blum distance bumper The Blum distance bumper creates and maintains the required trigger path of 2 mm.		8	Transformer unit housing
					The transformer is easily and securely stored in the transformer unit housing.

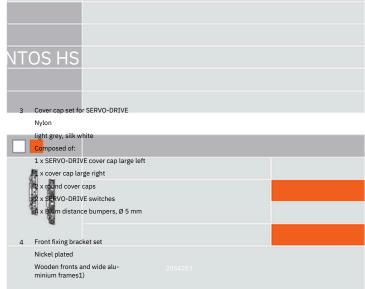






		Composed of:	
	2a	1 x lever arm left	
attend of the	2b	1 x lever arm right	
4	2c	2 x cross stabiliser cover caps	
U	2	Lever arm set for SERVO-DRIVE	
		Steel, nickel plated	
		Includes:	
	2a	1 x SERVO-DRIVE lever arm left	
	2b	1 x SERVO-DRIVE lever arm right	
	2c	2 x cross stabiliser cover caps	





Narrow alu frames

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

5 Cross stabiliser rod round
Aluminium, Ø 16 mm
For cutting to size, 1061 mm
Cutting: LW - 129 mm
SERVO-DRIVE: LW - 164 mm

Connecting piece set for cross stabiliser

	Aluminium, Ø 16 mm
ш	With LW of 1190 mm and up 20Q153ZN
	Cutting for 5: LW / 2 - 147 mm
	SERVO-DRIVE: LW / 2 - 165 mm
Ou	Composed of:
	1 x connecting piece
	1 x fixing
	2 x cross stabiliser cover caps
6	SERVO-DRIVE set
Ü	Nylon
	RAL 7037 dust grey 21FA 0 0 0
	Composed of:
	1 x drive unit
	1 x distribution cable, 1500 mm
	1 x connecting node
	2 x cable end protectors
	We recommend one SERVO-DRIVE drive unit per set for connected fronts!







7,8,9 Blum transformer, flex and transformer unit housing

The cabinet front and door weight is required in order to select the correct lift mechanism.

Example: KH = 600 mm, weight of front = 10 kg Lift mechanism selection = 20S2E00.05 KH = 602 mm -> 600 mm, KH = 603 mm -> 605 mm

Door weight (kg)

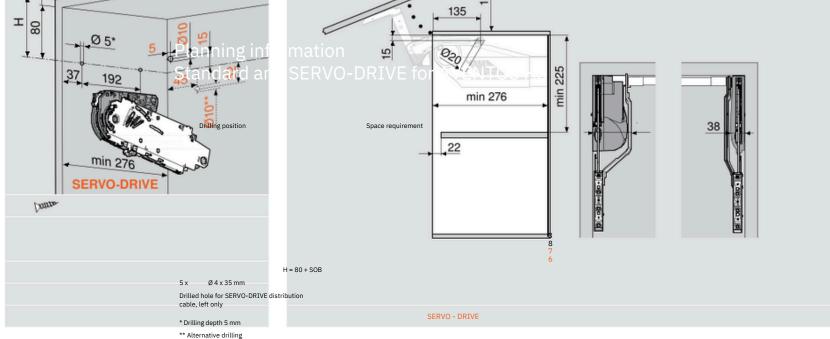
	Door weight (kg)		
KH (mm)	20S2G00.05	20S2H00.05	20S2I00.05
800	4.00-7.00	6.00-12.25	10.50-20.00
795	4.00-7.00	6.00-12.25	10.50-20.00
790	4.00-7.00	6.00-12.25	10.75-20.00
785	4.00-7.00	6.25-12.50	10.75-20.00
780	4.00-7.00	6.25-12.50	10.75-20.25
775	3.75-7.00	6.25-12.50	11.00-20.25
770	3.75-7.00	6.25-12.50	11.00-20.25
765	3.75-7.25	6.50-12.50	11.00-20.25
760	3.75-7.25	6.50 -12.75	11.25-20.25
755	3.75-7.25	6.50 -12.75	11.25-20.50
750	3.50-7.25	6.50 -12.75	11.50-20.50
745	3.50-7.25	6.50 -12.75	11.50-20.50
740	3.50-7.25	6.50 -12.75	11.75-20.75
735	3.50-7.50	6.50-13.00	11.75-20.75
730	3.50-7.50	6.75-13.00	11.75 - 21.00
725	3.50-7.50	6.75-13.00	12.00-21.00
720	3.50-7.50	6.75-13.00	12.00-21.25
715	3.50-7.50	6.75-13.00	12.00-21.25
710	3.50-7.75	6.75-13.25	12.25-21.25
705	3.50-7.75	6.75-13.25	12.25-21.50
700	3.50-7.75	6.75-13.25	12.50-21.50
695	3.50-7.75	6.75–13.25	12.50-21.50
690	3.50-7.75	6.75-13.25	12 .75 – 21. 5 0
685	3.50-8.00	7.00-13.25	12 .75 – 21. 5 0
680	3.50-8.00	7.00-13.50	13.00-21.50
676	3.50-8.00	7.00-13.50	13.00-21.50

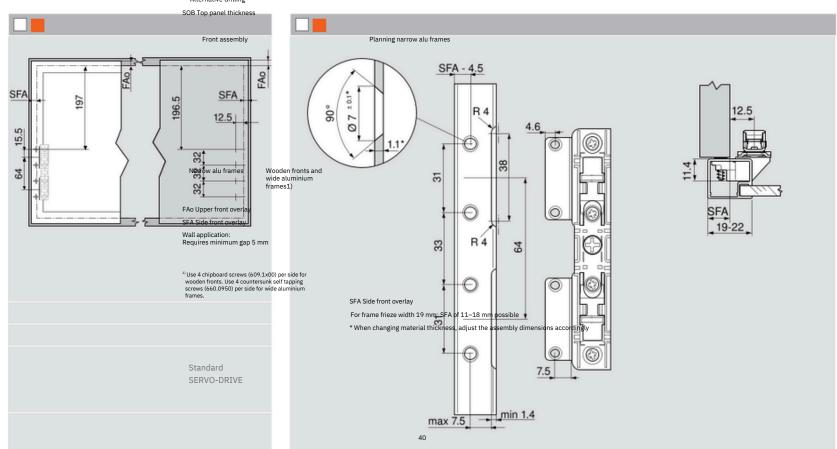
KH (mm)	20S2D00.05	20S2E00.05	20S2F00.05
675	3.00-5.25	5.00-11.00	0 9.75 -19.0 0
670	3.00-5.25	5.00-11.00	0 9.75 -19.0 0
665	3.00-5.25	5.00-11.00	0 9.75 -19.0 0
660	3.00-5.50	5.25-11.25	10.00-19.00
655	3.00-5.50	5.25-11.25	10.00-19.00
650	3.00-5.50	5.25-11.25	10.00-19.00
645	3.00-5.50	5.25-11.25	10.00-18.75
640	3.00-5.50	5.25-11.25	10.00-18.75
635	3.00-5.50	5.25-11.50	10. 25 -18 .75
630	3.00-5.75	5.50-11.50	10. 25 -18 .75
625	3.00-5.75	5.50-11.50	10. 25 –18 .75

62	3.00-5.75	5.50-11.50	10.25-18.75
0	3.00-5.75	5.50-11.50	10.25-18.75
61	3.00-6.00	5.50-11.75	10.50-18.50
5	3.00-6.00	5.50-11.75	10.50-18.50
61	3.00-6.00	5.50-11.75	10.50-18.50
0	3.00-6.00	5.50-11.75	10.50-18.50
60	3.00-6.00	5.50-12.00	10.75 -18. 25
5	3.00-6.25	5.75-12.00	10.75 -18. 25
60	3.00-6.25	5.75-12.00	11.00-18.00
0	3.00-6.25	5.75-12.00	11.00-18.00
59	3.00-6.25	5.75-12.25	11.25-17.75
5	3.00-6.25	5.75-12.25	11.25-17.75
59	3.00-6.50	6.00-12.25	11. 2 5 -17. 5 0
0	3.00-6.50	6.00-12.50	11.50-17.50
58	3.00-6.50	6.00-12.50	11.50-17.25
5	3.00-6.50	6.00-12.50	11.50-17.25
58	3.00-6.50	6.0 0 -12.75	11.75-17.00
0	3.00-6.75	6.25 -12.75	11.75-16.75
57	3.00-6.75	6.25 -12.75	11.75-16.75
5	3.00-6.75	6.25-13.00	12.00-16.50
57			

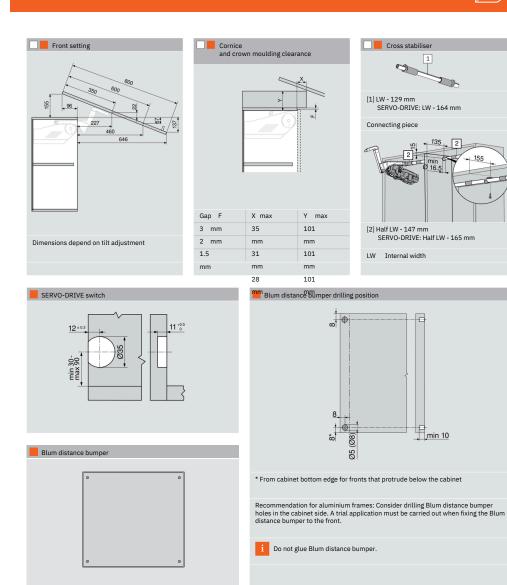
5	3.00-6.75	6.25-13.00	12.00-16.50
57			
KH (mm) 56	20S2A00.05	20S2B00.05	20S2C00.05
525	2.50-4.00	3.25-7.50	7.25-15.00
590	2.50-4.00	3.50-7.50	7.25-15.00
915	2.50-4.00	3.50-7.50	7.25-14.75
5 <u>5</u> 0	2.50-4.00	3.50-7.75	7.50-14.75
505	2.50-4.00	3.50-7.75	7.50-14.75
550	2.50-4.25	3.50-7.75	7.50-14.75
495	2.50-4.25	3.75-7.75	7.50-14.50
59 0	2.50-4.25	3.75-8.00	7.75-14.50
4 85	2.50-4.25	3.75-8.00	7.75-14.25
58 0	2.50-4.25	3.75-8.00	7.75-14.25
4 75	2.50-4.25	3.75-8.00	7.75-14.00
\$3 0	2.50-4.25	4.00-8.25	8.0 0 -14.0 0
5 65	2.25-4.25	4.00-8.25	8.0 0 -13.75
490	2.25-4.25	4.00-8.25	8.0 0 -13.75
4 55	2.25-4.25	4.00-8.50	8.25-13.50
\$5 0	2.25-4.25	4.00-8.50	8.25-13.50
4 45	2.25-4.50	4.25-8.50	8.25-13.25
440	2.25-4.50	4.25-8.50	8.25-13.00
435	2.25-4.50	4.25-8.75	8.50-13.00
430	2.25-4.50	4.25-8.75	8.50 –12.75
425	2.25-4.50	4.25-8.75	8.50 –12.75
420	2.25-4.50	4.25-8.75	8.50-12.50
415	2.25-4.50	4.25-8.75	8.50-12.50
410	2.25-4.50	4.25-9.00	8.75-12.25
405 400	2.25-4.50 2.0 0 - 4.75	4.25-9.00 4.25-9.00	8.75-12.00 8.75-12.00
395	2.00 - 4.75	4.50-9.00	8.75-12.00
390	2.00 - 4.75	4.50-9.00	8.75-11.75
385	2.00 - 4.75	4.50-9.25	9.00-11.50
380	2.00 - 4.75	4.50-9.25	9.00-11.25
375	2.00 - 4.75	4.50-9.25	9.00-11.25
370	2.0 0 - 4.75	4.50-9.25	9.00-11.00
365	2.0 0 - 4.75	4.50-9.25	9.00-11.00
360	2.0 0 - 4.75	4.50-9.50	9. 25 –10.75
355	2.0 0 - 4.75	4.50-9.50	9. 25 -10.5 0
350	2.00-5.00	4.50-9.50	9. 25 -10.5 0













This product is a brilliant combination of design and function. As its name suggests, the AVENTOS HL "lift up" lifts right up and out of the user's way so that everything is always within easy reach. As a result, even special installations are possible. For example, you can integrate electrical appliances into tall cabinets. Handle-less fronts can be opened using SERVO-DRIVE technology and without any need for hinges.





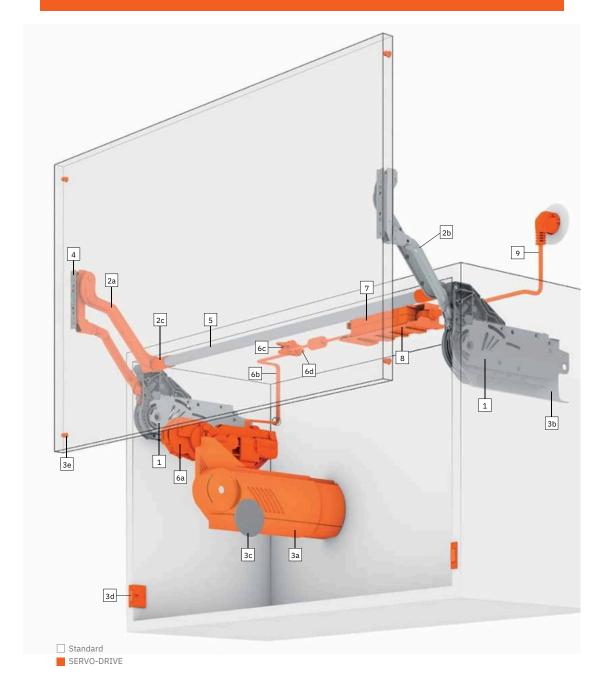


Sheer beauty: With AVENTOS HL, electrical appliances disappear behind a continuous cabinet front.



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

AVENTOS HL

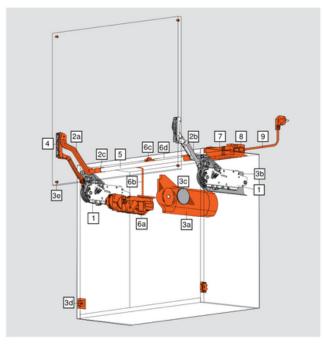




	1	Lift mechanism		4	Front fixing bracket
	2a	Lever arm left		5	Oval cross stabiliser
	2b	Lever arm right		6a	Drive unit The drive unit is attached without tools
	2c	Cross stabiliser cover cap			to the left lift mechanism. The same drive unit can be used for all lift mechanisms.
	За	Cover cap, left The left SERVO-DRIVE cover cap is used to cover the lift mechanism, drive unit and distribution cable. To cover the cabling, the cover cap can be expanded up to an internal depth of 350 mm.	•	6b	Distribution cable This cable is used to supply power to the drive unit. The maximum permitted operating power is 24 V.
	3b	Cover cap right Cover cap round	•	6c 6	Connecting node + cable end protector This node establishes the electrical connection between the distribution cable and the transformer. The cable end protector is inserted into the "open" end of the cable.
١	3d	SERVO-DRIVE switch The SERVO-DRIVE switch is at- tached to the cabinet side at the bottom. The switch signals the drive unit via a wireless connection. The 2.4 GHz frequency is certified for interna- tional use.		9	Blum transformer + flex The Blum transformer can be used worldwide. It converts the country-specific mains voltage to 24 V direct current. You must use a flex with a regular plug for the respective country depending on the installation location.
٠	3e	Blum distance bumper The Blum distance bumper creates and maintains the required trigger path of 2 mm.		8	Transformer unit housing The transformer is easily and securely stored in the transformer unit housing.



Order information Standard and SERVO-DRIVE for AVENTOS HL



5 types of lift mechanisms are enough to cover a wide range of applications.

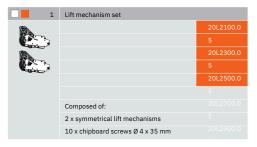
In order to select the correct lift mechanism, it is necessary to establish both the cabinet height and the weight of the front (including the handle).

Standard

SERVO-DRIVE

	Cabinet height					
	300-349 mm	350-399 mm	400-550 mm	450-580 mm		
	Lever arm set					
	20L3200.06	20L3500.06	20L3800.06	20L3900.06		
Lift mechanism set	21L3200.01	21L3500.01	21L3800.01	21L3900.01		
20L2100.05	1.25-4.25 kg	1.25-2.50 kg				
20L2300.05	3.50-7.25 kg	1.75-5.00 kg	1.75-3.50 kg			
20L2500.05	6.50-12.00 kg	4.25-9.00 kg	2.75-6.75 kg	2.00-5.25 kg		
20L2700.05	11.00-20.00 kg	8.00-14.75 kg	5.75-11.75 kg	4.25-9.25 kg		
- 20L2900.05		13.50-20.00 kg	10.50-20.00 kg	8.25-16.50 kg		

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

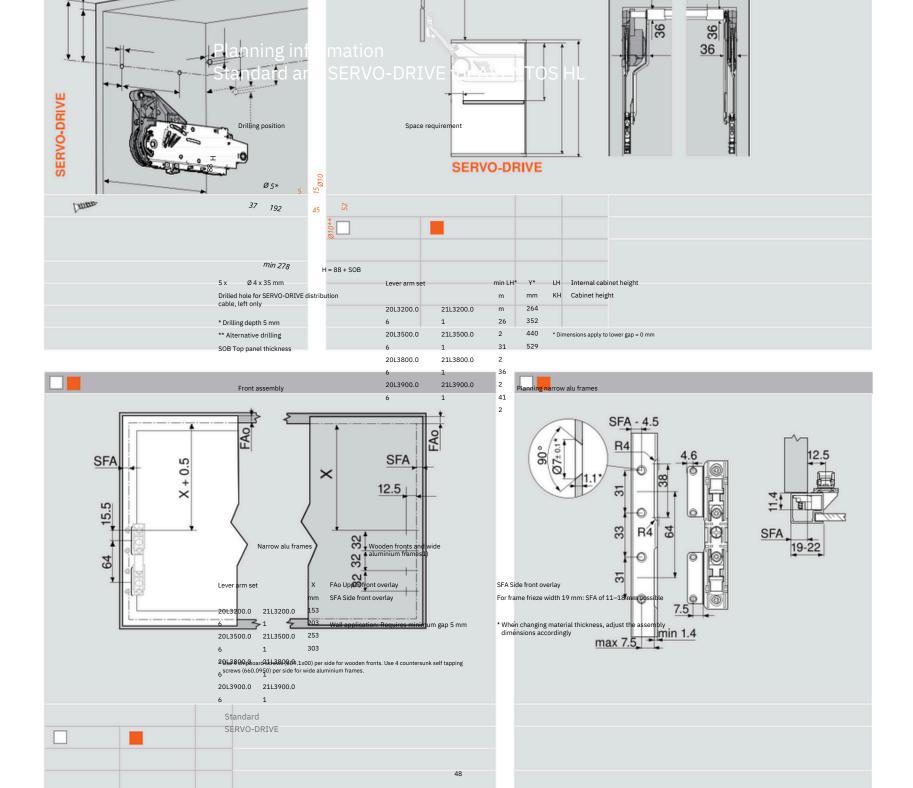


_ 2	Lever arm set Cabinet height	
FM AN	300-349 mm Cabinet height	20L3200.0
	350-399 mm Cabinet height	6
	400-550 mm Cabinet height	20L3500.0
· - ·	450-580 mm	6
	Composed of:	
2a	1 x lever arm left	
2b	1 x lever arm right	
2c	2 x cross stabiliser cover caps	

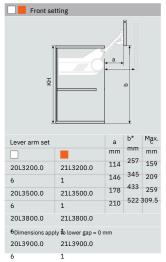


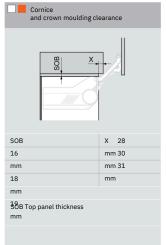
2	Lever arm set for SERVO-DRIVE	5	Cross stabiliser rod oval	
170 /2011	Cabinet height 300-349 mm 21L3200.0		Aluminium, Ø 16 mm	
Sept Sept Sept Sept Sept Sept Sept Sept	Cabinet height 350–399 mm 1		For cutting to size, 1061 mm	2 0 Q10 61UA
1	Cabinet height 400-550 mm 21L3500.0		Cutting: LW - 129 mm	
<i>y</i> — <i>y</i>	Cabinet height 450–580 mm 1		SERVO-DRIVE: LW - 164 mm	
	21L3800.0			
	Composed of:		LW Inner cabinet width	
2a	1 x SERVO-DRIVE lever arm left 21L3900.0			
2b	1 x lever arm right		Connecting piece set for	
2c	2 x cross stabiliser cover caps		cross stabiliser	
			Aluminium, Ø 16 mm	
		On S	With LW of 1190 mm and up	00045074
		₽ @		20Q153ZA
3	Cover cap set		Cutting for 5: LW / 2 - 147 mm	
Nº 90	Nylon		SERVO-DRIVE: LW / 2 - 165 mm	
	light grey, silk white			
	20L8000.01		Composed of:	
			1 x connecting piece	
	Composed of:		1 x fixing	
3a	1 x cover cap large left		2 x cross stabiliser cover caps	
3	1 x cover cap large right			
b	2 x round cover caps		LW Inner cabinet width	
3c				
3	Cover cap set for SERVO-DRIVE	6	SERVO-DRIVE set	
	Nylon	1	Nylon	
(O.N.)	light grey, silk white	ANTE TE	RAL 7037 dust grey	21FA 0 0 0
0 198	21L8000			
		~	Composed of:	
	Includes:	6a	1 x drive unit	
3a	1 x SERVO-DRIVE cover cap left	6	1 x distribution cable, 1500 mm	
3	1 x cover cap right	b	1 x connecting node	
b	2 x round cover caps	6c	2 x cable end protectors	
3c	2 x SERVO-DRIVE switches	6	We recommend one SERVO-DRIVE drive unit per se	t
3	4 x Blum distance bumpers, Ø 5 mm	d	for connected fronts!	
d	A Standarde Bumpers, D 3 mm	3		
3				
e 4	Front fixing bracket set		Bit PZ cross slot	
4	Nickel plated	-	Size 2, length 39 mm	
	Wooden fronts and wide aluminium 20S42E1 frames1)			BIT-PZ KS2
w 20	Harries 1)			
	Narrow alu frames 20S4200A			
	Composed of:	7, 8, 9	Blum transformer,	
	2 x symmetrical front fixing brackets		flex and transformer unit housing	
	¹⁾ Use 4 chipboard screws (609.1x00) per side for wooden fronts. Use			Page 74
	4 countersunk self tapping screws (660.0950) per side for wide aluminium frames.			

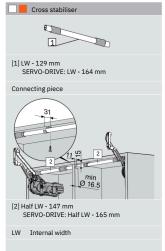


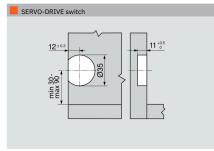


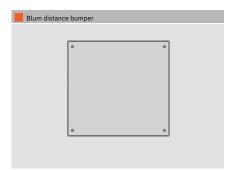


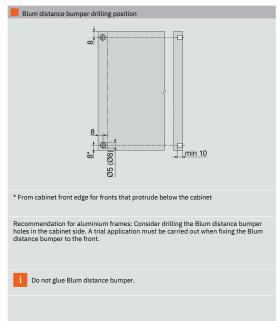




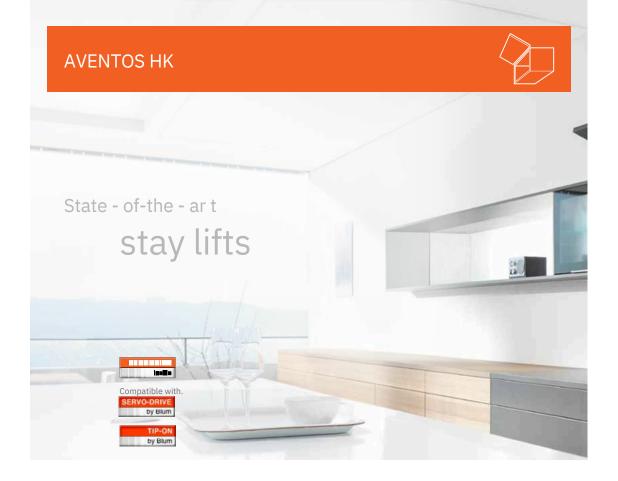












This convenient lift system fitting for mid wall units requires only a small amount of space at the top. The AVENTOS HK stay lift is another product that provides inspiration thanks to its consistently high quality of motion. Handle-less fronts can be opened using SERVO-DRIVE or TIP-ON technology and without any need for hinges.





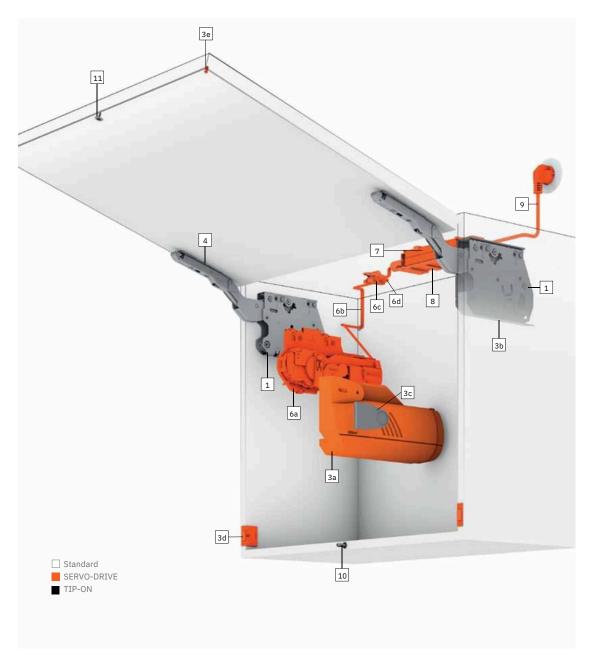


A single touch is all that is needed.
The TIP-ON mechanical opening support system makes opening cabinets easier and more convenient than ever before.



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

AVENTOS HK

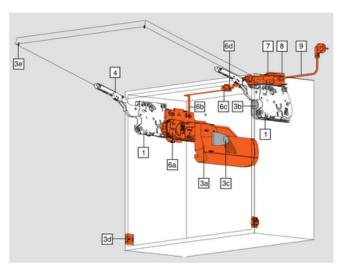




	1	Lift mechanism		6b	Distribution cable This cable is used to supply power to the drive unit. The max. permitted operating
	3a	Cover cap left The left SERVO-DRIVE cover cap is used to cover the lift mechanism, drive unit and distribution cable. To cover the cabling, the cover cap can be expanded up to an internal depth of 350 mm.	•	6c 6 d	voltage is 24 V. Connecting node + cable end protector This node establishes the electrical connection between the distribution cable and the transformer. The cable end protector is inserted into the "open" end
	3b	Cover cap right			of the cable.
	3c	Cover cap small		7	Blum transformer + flex The Blum transformer can be used worldwide. It converts the county-specific
•	3d	SERVO-DRIVE switch The SERVO- DRIVE switch is at- tached to the cabinet side at the bottom. The switch signals the drive unit via a wireless connection. The 2.4 GHz frequency is certified for interna- tional use.			mains voltage to 24 V direct current. You must use a flex with a regular plug for the respective country depending on the installation location.
٠	3e	Blum distance bumper The Blum distance bumper creates and maintains the required trigger path of 2 mm.		8	Transformer unit housing The transformer is easily and securely stored in the transformer unit housing.
		Front fixing bracket		10	TIP-ON
	4	Tront name blacket		11	Screw-on catch plate
	6a	Drive unit The drive unit is attached without tools to the left lift mechanism. A special drive unit with an adapter plate is required for AVENTOS HK.	_		



Order information Standard and SERVO-DRIVE for AVENTOS HK



4 types of lift mechanisms are enough to cover a wide range of applications.

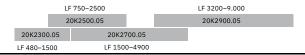
Using the power factor, you can calculate the number of required lift mechanisms. The power factor required depends on the weight of the front and the cabinet height.

The power factor and the door weight can be increased by 50 % when a third lift mechanism is used.

Standard

SERVO-DRIVE

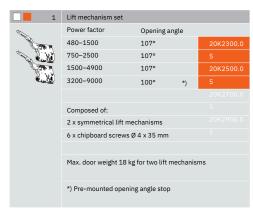
Power factor LF = cabinet height KH (mm) x front weight incl. double handle weight (kg)



Lift mechanism two-sided

LF Power factor

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





Note

We recommend a lift mechanism attached to the centre panel for wide cabinets. The reason for this is to prevent the middle of the front from sagging when open.





3	Cover cap set for SERVO-DRIVE	ľ
0.0	Nylon	
	light grey, silk white	21K8 0 0 C
E E	Composed of:	
3a	1 x SERVO-DRIVE cover cap large left	
3	1 x cover cap large right	
b	2 x cover caps small	
3c	2 x SERVO-DRIVE switches	
3	4 x Blum distance bumpers, Ø 5 mm	
d		
3 4	Front fixing bracket set	
e All m	Nickel plated	
B B	Wooden fronts and	2004254

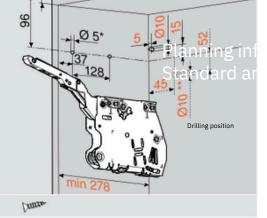
4	Front fixing bracket set	
hi	Nickel plated	
1.01.10	Wooden fronts and wide aluminium frames1)	20S42E1
	Narrow alu frames	20S4200A
	Composed of:	
	2 x symmetrical front fixing brackets	
	¹⁾ Use 4 chipboard screws (609.1x00) per side for w Use 4 countersunk self tapping screws (660.0950) wide aluminium frames.	poden fronts. per side for

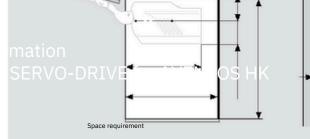
5	SERVO-DRIVE set	
10 · 10	Nylon	
	Dust grey	21K A0 0
1.8		
	Composed of:	
6a	1 x drive unit	
6	1 x distribution cable, 1500 mm	
b	1 x connecting node	
6c	2 x cable end protectors	
6	We recommend two synchronised drive units for a power factor > 9000.	
d		

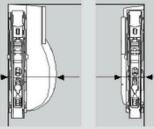
	Opening angle stop		
7	Nylon 100°E	Dark	
U	grey 75°Dust gr	ey 2 x	20K704
		2 x	1 2 0 K
	Bit PZ cross slot		
-	Size 2, length 39	mm	
			BIT-PZ KS2

7, 8, 9	Blum transformer, flex and transformer unit housing		
		Page	74









SERVO - DRIVE

min 261

3 x Ø 4 x 35 mm

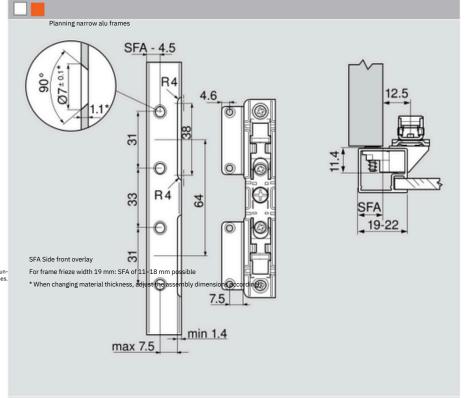
Drilled hole for SERVO-DRIVE distribution cable, left only

* Drilling depth 5 mm

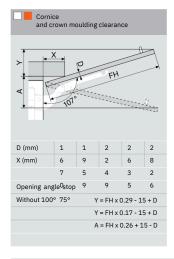
LH Internal cabinet height

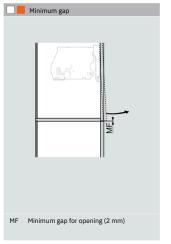
* Min. 261 mm with visible wall hanging bracket

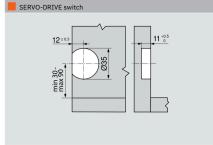
** Alternative drilling SOB Top panel thickness Front assembly SOB SOB (2) 15 32,32,32 69.5-F 12.5 Wooden fronts and wide SFA Narrow alu frames Wall application: Requires minimum gap ! SOB Top panel thickness F Gap SFA Side front overlay ¹⁾ Use 4 chipboard screws (609.1x00) per side for wooden fronts. Use 4 countersunk self tapping screws (660.0950) per side for wide aluminium frames. Dime Standard SERVO-DRIVE

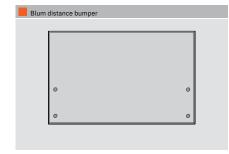


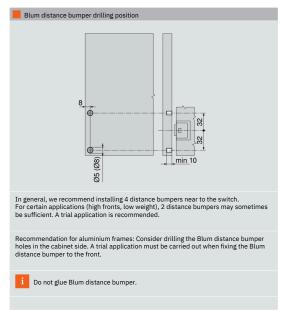




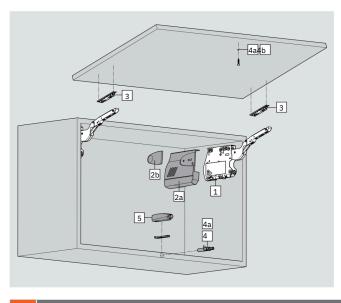








Order information TIP-ON for AVENTOS HK



4 types of lift mechanisms are enough to cover a wide range of applications.

Using the power factor, you can calculate the number of required lift mechanisms. The power factor required depends on the weight of the front and the cabinet height.

The power factor and the door weight can be increased by 50 % when a third lift mechanism is used.

TIP-ON

Power factor LF = cabinet height KH (mm) x front weight

LF 750-2500 LF 3200-9000
20K2500T 20K2900T

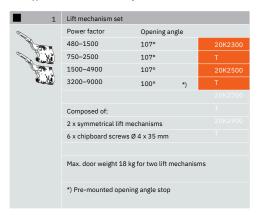
20K2300T 20K2700T

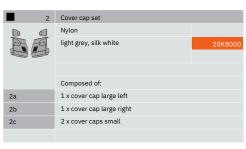
LF 480-1500 LF 1500-4900

Lift mechanism two-sided

LF Power factor

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





	Opening angle stop		
7	Nylon 100° 75°		
U	Dark grey	2 x	20K704
	Dust grey	2 x	1 2 0 K





	3	Front fixing bracket set	
4		Nickel plated	
		Wooden fronts	20S42E1
# 4		and wide aluminium frames1)	
		Narrow alu frames	20S4200A
		Includes:	
		2 x symmetrical front fixing brackets	
		³⁾ Use 4 chipboard screws (609.1x00) for wooden from Use 4 countersunk self tapping screws (660.0950) wide alu frames.	

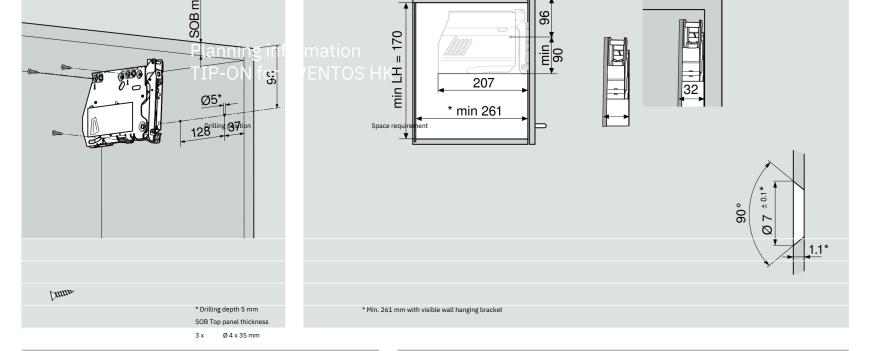
4b	TIP-ON long version set	
•	For front heights over 500 mm	
	For drilling Ø 10 x 76 mm	
0	RAL 7037 nylon, dust grey	
	With magnet	955A1004
	Output path approx. 38 mm	
	Composed of:	
	1 x TIP-ON	
	1 x screw-on catch plate3)	
	1 x chipboard screw 609.1500	
	³⁾ Note: The glue-on catch plate should not be used TIP-ON for AVENTOS HK	in combination with

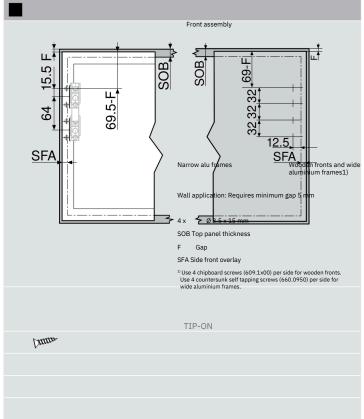
4a	TIP-ON set	
10	For fronts up to a height of 500 mm	
0	For drilling Ø 10 x 50 mm	
	RAL 7037 nylon, dust grey	
	With magnet	955.1004
	Output path approx. 18 mm	
Composed of:		
	1 x TIP-ON	
	1 x screw-on catch plate2)	
	1 x chipboard screw 609.1500	
²⁾ Note: The glue-on catch plate should n TIP-ON for AVENTOS HK		in combination with

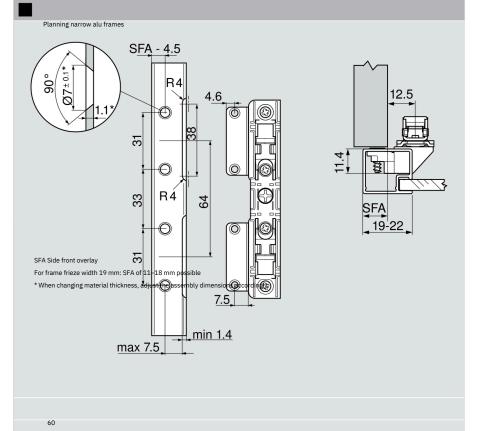
5	Adapter plate	
	Cruciform adapter plate	
	Nylon 7036 platinum grey	
1	Screws	955.1501
	EXPANDO	
	Assembly with Ø 3.5 mm or Ø 4 mm chipboard screen	ws 955.15E1

	Bit PZ cross slot	
-	Size 2, length 39 mm	BIT-PZ KS2

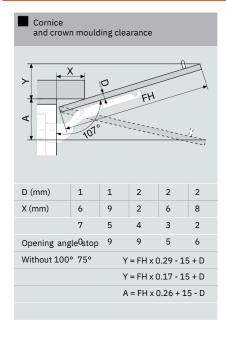


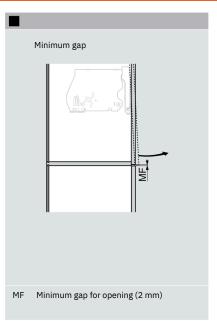




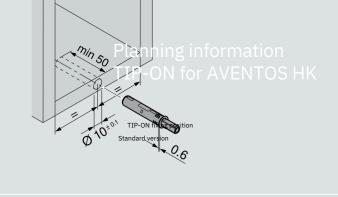


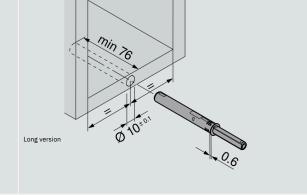


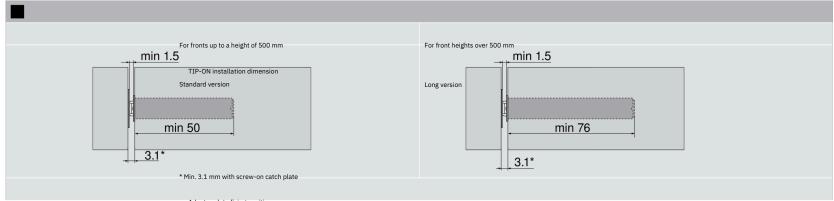




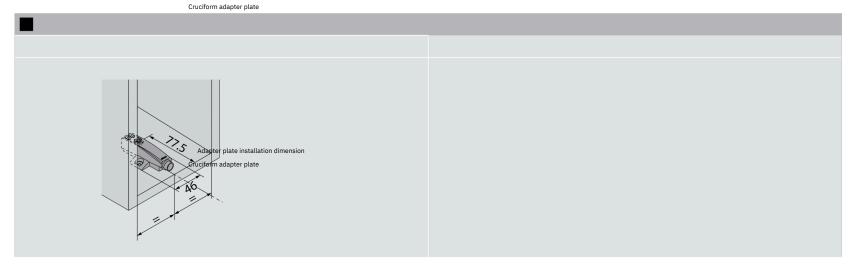




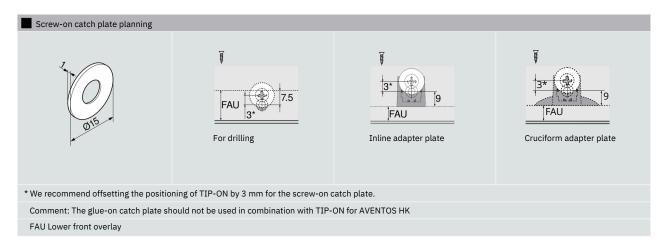




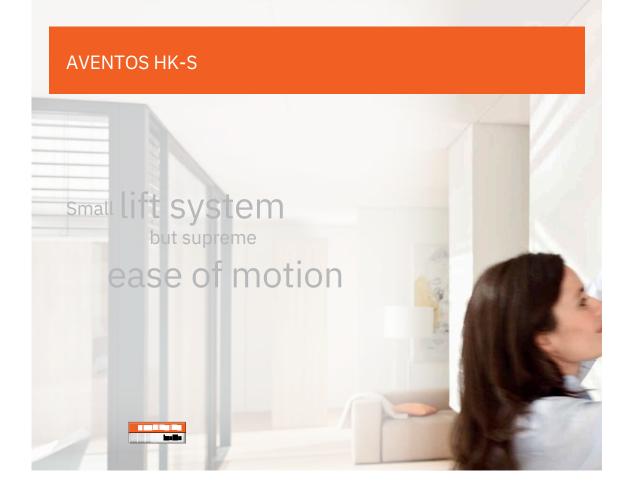
Adapter plate fixing position







TIP-ON



AVENTOS HK-S is the perfect choice for small lift systems in tall cabinets, e.g. above refrigerators. Thanks to its neat and tidy dimensions, the fitting can be perfectly integrated into small pieces of furniture, making the best possible use of the storage space.

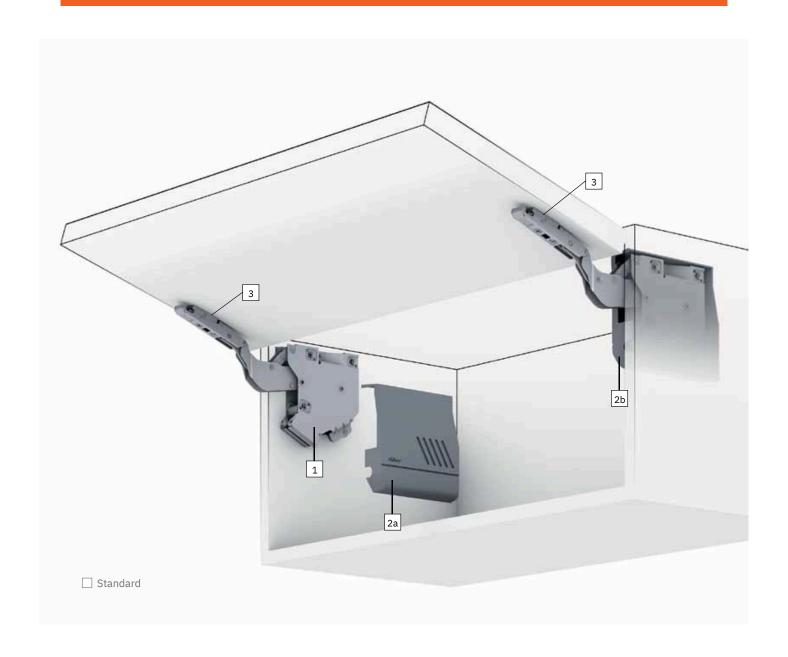






At the heart of this fitting solution is the lift mechanism with BLUMOTION and a robust spring package.

AVENTOS HK-S





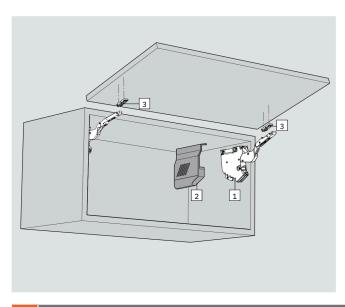
	1	Lift mechanism
--	---	----------------

2a Cover cap, left

2b Cover cap right

3 Front fixing bracket

Order information Standard AVENTOS HK-S



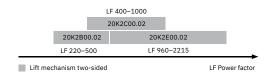
3 types of lift mechanisms are enough to cover a wide range of applications.

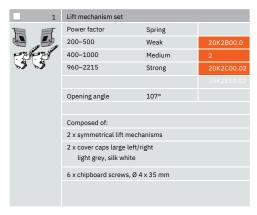
Using the power factor, you can calculate the number of required lift mechanisms. The power factor required depends on the weight of the front and the cabinet height. The power factor and the door weight can be increased by 50 % when a third lift mechanism is used.

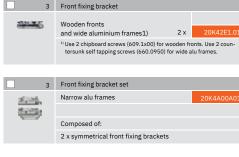
The maximum cabinet height for AVENTOS HK-S is 400 mm.

Standard

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







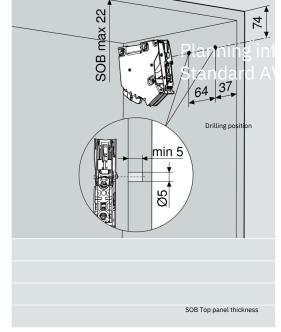


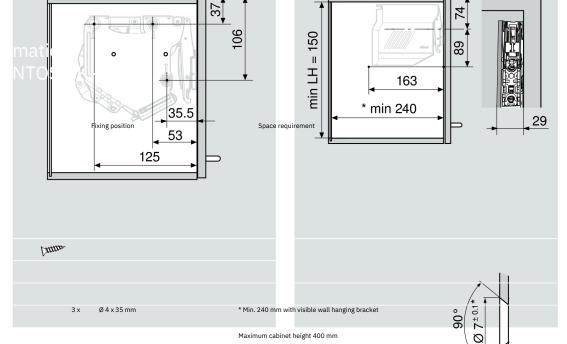


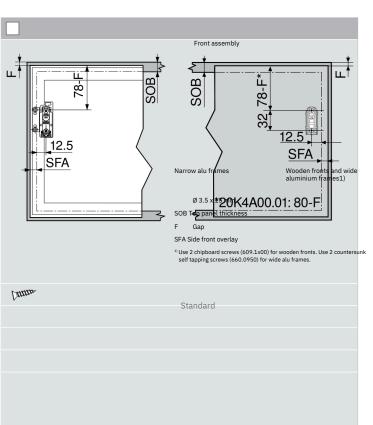
69

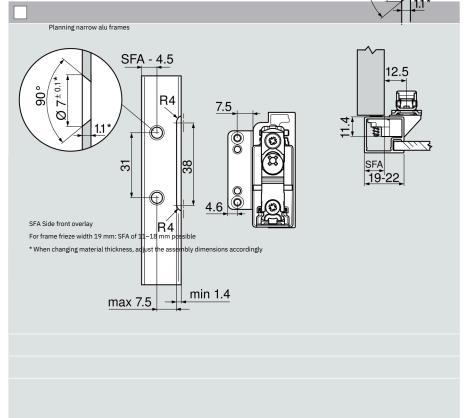
	Opening angle stop		
	Nylon 100° 75°		
	Dark grey	2 x	20K7A41
	Dust grey	2 x	2 0 K 7A11
	Bit PZ cross slot		
-	Size 2, length 39 mm		
			BIT-PZ KS2

Ablum

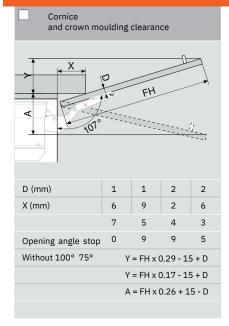


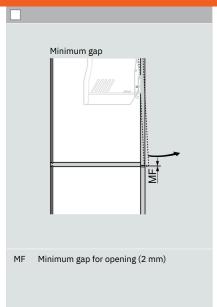




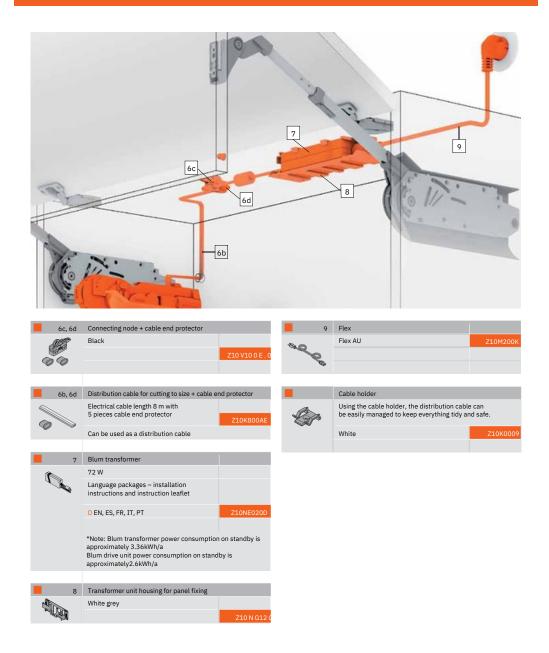


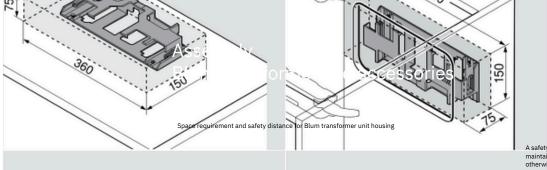




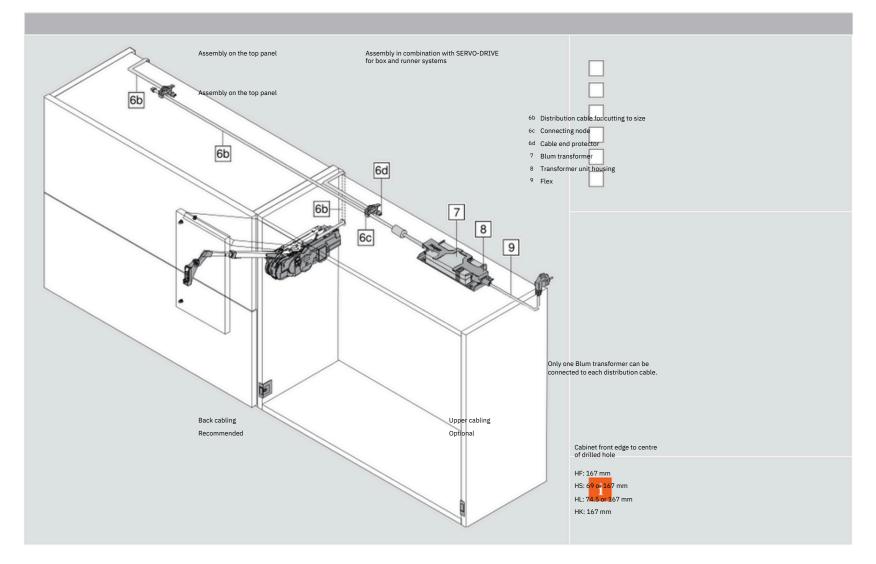


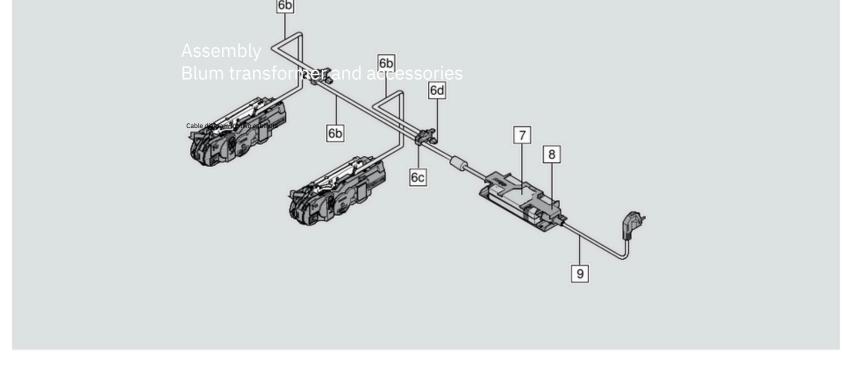
Order information Blum transformer and accessories

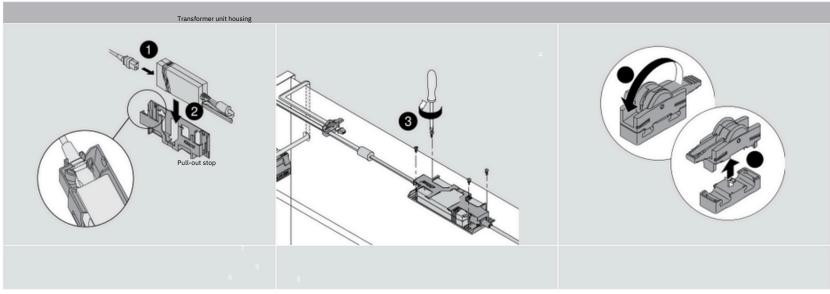




A safety distance of 30 mm must be maintained for air circulation (see graphic); otherwise, there is a risk that the Blum transformer could overheat.

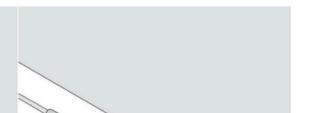


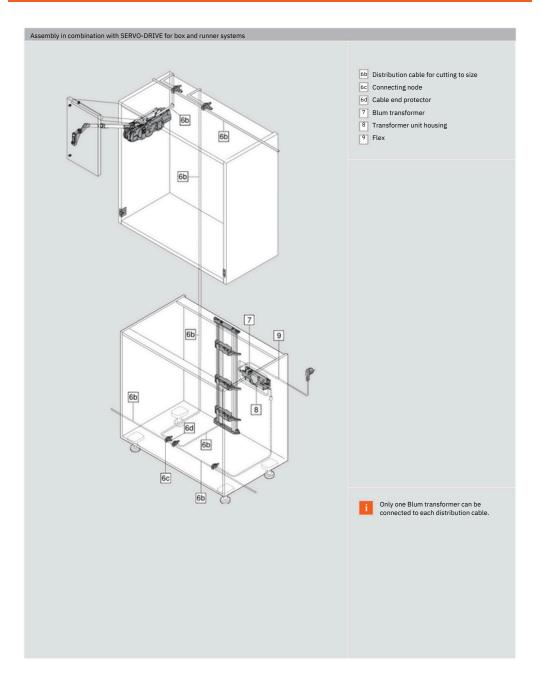






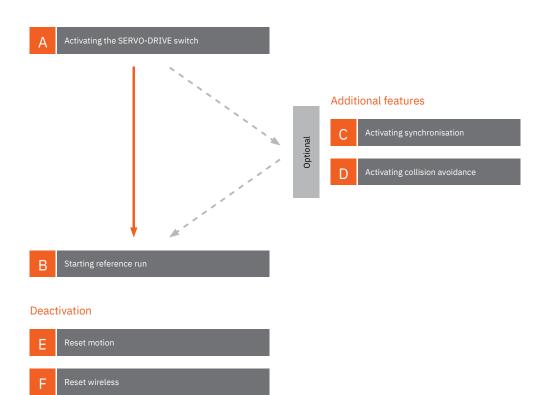


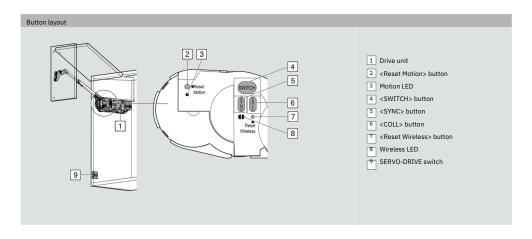




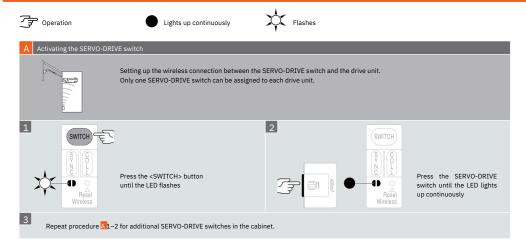
Overview of functions SERVO-DRIVE for AVENTOS

Star t- up



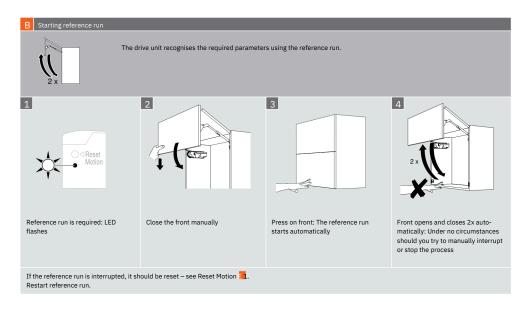


Star t- up SERVO-DRIVE for AVENTOS

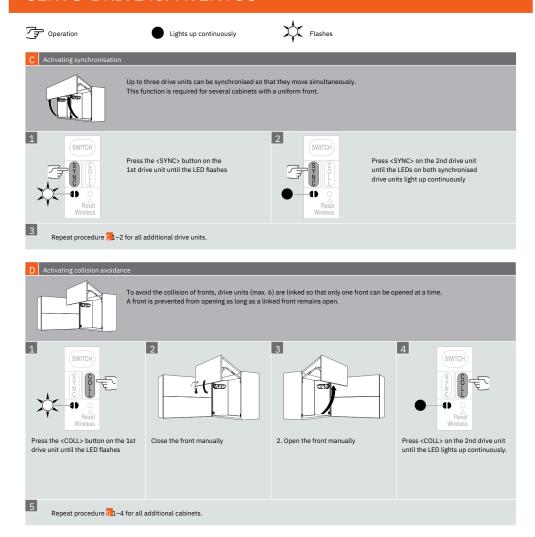


Additional features





Additional features SERVO-DRIVE for AVENTOS



Deactivation SERVO-DRIVE for AVENTOS





Resets the reference run and enables a new reference run to be started.

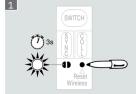
1



Press the <Reset Motion> button using a pen (at least 3 seconds) until the LED flashes quickly.

Reset wireless

Deactivates all functions:
All active SERVO-DRIVE switches, synchronisations and collision avoidance settings for the respective drive unit are deleted.



Press the <Reset Wireless> button using a pen (at least 3 seconds) until the LED flashes quickly.

Motion LED signals				
*	Flashes orange	Reference run is required		
•	Lights orange continuously	Power available		
		Operating mode display		
		Reference run successfully completed		
禁	Flashes orange quickly	Reset Motion confirmation		

Wireless LED signals				
苹	Flashes green	Activation mode		
•	Lights up green continuously	Activation confirmation		
禁	Flashes green quickly	Deactivation confirmation		
•	Lights red continuously	Last process was not completed successfully		



Blum



1952



The first product Studs are attached to horseshoes to stop horses slipping.

1958



The ANUBA hinge is Blum's first furniture fitting.

1964



Début in the furniture industry Production start Blum produces concealed furniture hinges.

1966



Roller runners Blum starts to produce roller runners.

1985



Assembly technology CLIP hinges can be mounted without tools thanks to CLIP technology.

Perfecting motion

Blum's fittings solutions are designed to make opening and closing furniture a mesmerising experience. That's why we make every effort to perfect the motion of our lift, hinge, box and runner systems.



DYNAMIC SPACE

Blum products help optimise workflows, produce extra storage space and provide enhanced user convenience - making kitchens extremely practical.

Blum in Austria and around the world

Over 5,000 employees work hard to

help us perfect motion. Our fittings are manufactured at ten plants. Seven are in Austria, the remaining are in the USA, Brazil and Poland. Thanks to international subsidiaries and sales agencies, Blum is on site to serve its customers all over the world.



Global customer benefits

Everyone should benefit from the advantages of Blum products – from furniture manufacturers right down to end

Top quality

Blum products have been developed for everyday kitchen use and are a pleasure to use a furniture lifetime.



Innovations

We want our fittings solutions to be innovative and make everyday kitchen use easier. That's why our developments are based on findings from requirement research and input from our customers.

Environment

Blum strives to minimise its environmental impact. We use environmentally-friendly processes, use raw materials intelligently and save energy wherever we can.

Our commitment to environmental protection is internationally recognised and rewarded. We endevour to maintain and are always looking to improve our environmental management systems







1987



BOX systems Blum's first BOX system goes into production with METABOX.

2001



Soft-close system BLUMOTION ensures that furniture closes softly and effortlessly.

2005



Lift systems AVENTOS lift systems are presented for the first time

2007



Electrical opening support SERVO-DRIVE has received

numerous awards for design and function.

2011



Runner systems With MOVENTO, a new generation of runner systems



Experience the mesmerising motion Blum showrooms

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Melbourne 4/245 Ferntree Gully Road Mount Waverley VIC 3149 Ph: 03 9982 1720

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