





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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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.





Ideal for high wall cabinets

Handle is easy to reach, even when the lift system is open

Takes up mimimal space even with large cabinet heights, thanks to the two-part front

- Can be used with fronts of different heights
- Variable stop

Up & over lift system

AVENTOS HS

- swivel motion
- Can be combined with cornice or
- 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 even low fronts
- Easy access to storage items
- No hinges required
- Variable stop





Stay lift AVENTOS HK Ideal for small and medium wall cabinets The space requirement above cabinet is low thanks to the lift system motion

No hinges required Variable stop

Small stay lift **AVENTOS HK-S**

Perfect for small cabinets,

e.g. over refrigerators or larder units

Δ

- Harmonious proportions
- No hinges required
- Variable stop





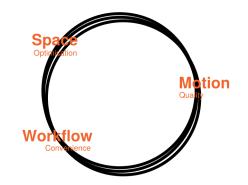


DYNAMIC SPACE



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.



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.



R System* *AVENTOS is flexible enough to be used in wall

cabinets using 4-tier systems in addition to the

6-tier system shown above.



	HF	HS	HL	НК	HK-S
Area of application					
High wall cabinets					
Medium wall cabinets					
Low wall cabinets					
Tall cabinets					
Room planning					
Min. top space requirement					
Design					
Single front		-			
Two-part front					
Can be combined with cornice or crown					
moulding		-			-
Cabinet height dimensions in mm	480-1040	350-800	300-580	up to 6001	up to 400
Cabinet width dimensions in mm	up to 1800	up to 1800	up to 1800	up to 1800	up to 18002
Ergonomics					

L180	Ligonomics										
Han	dles within easy reach				((
Easy	y access to cabinet interior										

Motion technologies

BLUMOTION			
SERVO-DRIVE			
TIP-ON			
		3	

¹ 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). $_{\rm 2}$ cannot be combined with BLUMOTION

3



Fascinating ease of motion for lift systems

With its innovative motion technologies, Blum not only makes opening and closing lift systems easier – it turns the process into an experience.



BLUMOTION Soft and effortless closing

BLUMOTION is synonymous with fascinating quality of motion. Allow your customers to see for themselves - they will be inspired

I NAME ADDRESS OF TAXABLE PARTY.

Compatible with



Unsurpassed ease of use

A single touch suffices and the lift system opens as if by magic. To close, simply press the easy-to-access switch on the inside of the cabinet.



TIP-ON

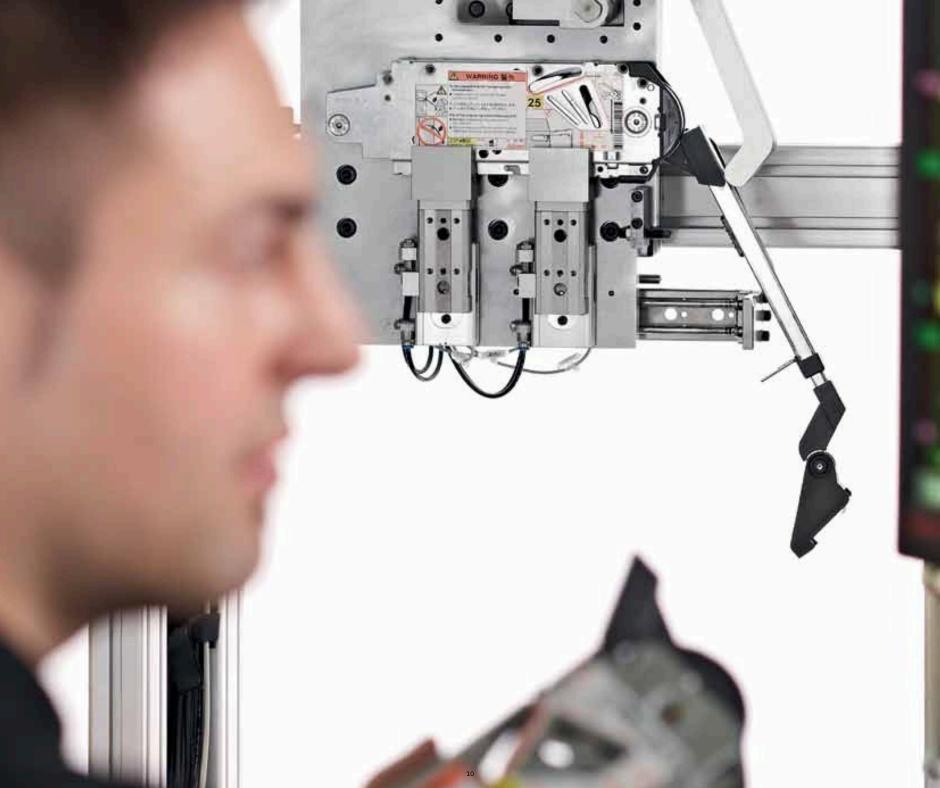
Simply press the lift system and it opens

TIP-ON for AVENTOS HK our mechanical opening support system, now makes handle-less fronts easy and comfortable to open.

8

APPETTE SALES





Reliability – a furniture lifetime





We want our fitting solutions to provide your customers with many years of enjoyment and satisfaction.

That is why we focus on ensuring the highest quality:

Precision testing

Each fitting is tested extensively according to strict criteria. Testing is carried out at our own test labs as well as in conjunction with international testing organisations. An AVENTOS lift system goes through the opening and closing process up to 80,000 times which is double the industry requirement – only then are we satisfied in terms of our qualit y.

Long warranty

Our promise to provide "quality a furniture lifetime" naturally applies to AVENTOS as well. We are so confident of this that we also offer you a full 5-year warranty in respect of all the electrical components e.g. SERVO-DRIVE when used in combination with Blum products.

Meticulous selection and processes Highquality robust materials. Exact assembly. Fast and simple assembly. From the choice of material right through to construction and start-up, we insist on consistently high levels of quality.





Easy insertion: Assembly of th cross stabiliser for AVENTOS HS and AVENTOS HL is now completely tool-free. 68

Just a few simple steps are required

Almost entirely tool-free AVENTOS can be assembled with ease and the proven CLIP technology makes the process almost entirely tool-free. The only tool required is a power screwdriver for adjusting the lift mechanism in precise accordance with the front weight. The fact that the cross stabiliser for AVENTOS HS is attached without tools significantly reduces the amount of effort required for assembly. Fronts can be conveniently adjusted in 3 dimensions to ensure perfect gap alignment.

SERVO-DRIVE: Start-up made easy

SERVO-DRIVE for AVENTOS only has a few components. These are easy to attach and can be precisely adjusted. In just a few simple steps, SERVO-DRIVE can be assembled, cable added, switch installed and the system can be put into operation.

> Find out more about SERVO-DRIVE





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.

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.

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.

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).

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.

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.

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Award-winning design

Enchanting Elegance

Along with high functionality, the AVENTOS range is sure to inspire through its simple yet elegant design. The fact that it is has received a number of international awards is testament to this.

> interzum award: intelligent material & design 2009

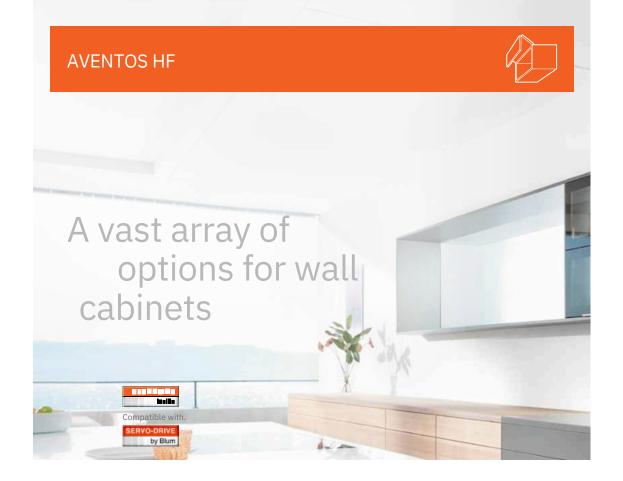






red<mark>dot</mark> design award winner 2009

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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.



Watch video of the assembly and adjustment processes

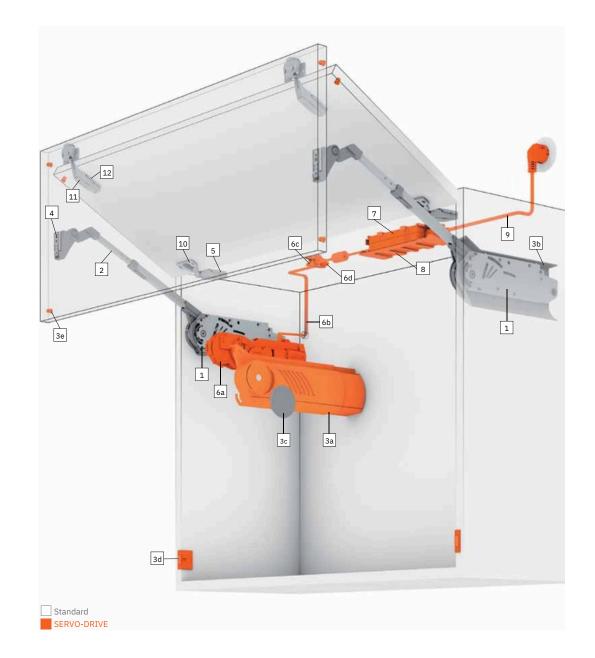




Greater freedom of design: AVENTOS HF allows you to combine different materials for the lift system front.

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



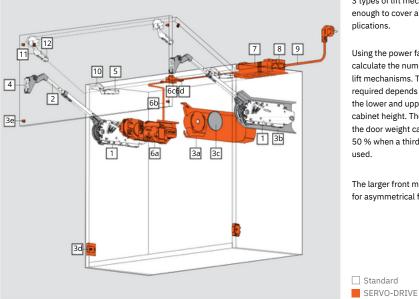


	1	Lift mechanism		6a	Drive unit The drive unit is attached without tools
	2	Telescopic arm			to the left lift mechanism. The same drive unit can be used for all lift mechanisms.
	3a	Cover cap, left The left SERVO-DRIVE cover cap is used to cover the lift mechanism, drive unit and distribution cable. 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 d	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.
1	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.	•	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

Ablum

Order information Standard and SERVO-DRIVE for AVENTOS HF

Wooden fronts and wide aluminium frames symmetrical/asymmetrical



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 lower and upper 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 larger front must be at the top for asymmetrical fronts.

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

	LF 2600-5500		LF 9000-1	17250	
	20F2200.05		20F2800	0.05	
20F2200.05		20F2500.05		2	0F2800.05
LF 960-2650		LF 5350-10150		LF 1	3500-259001)

Lift mechanism one-sided Lift mechanism two-sided Additional 3rd lift mechanism lift mechanism

LF Power factor

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

¹⁾ We recommend two synchronised drive units for a power factor > 17250.

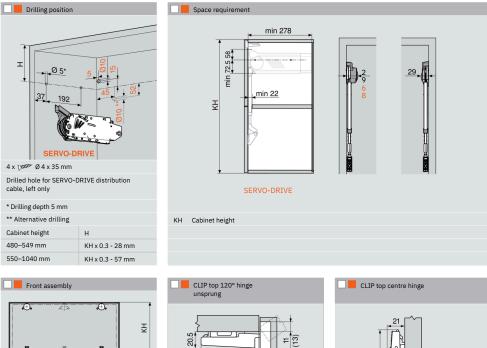


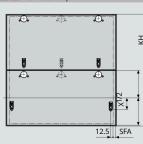


3	Cover cap set			Hinge set
0	Nylon			for wooden fronts
	light grey, silk white,			Fixing method:
		20F8000	10000	INSERTA/EXPANDO/knock in 78Z5530T10
	Composed of:		Distant	
3a	1 x cover cap large left			Comprising of:
3	1 x cover cap large right		10 11	2 x CLIP top 120° hinge o. F.3) (70T5590BTL)
b	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)
7	Nylon			³⁾ o. F. = unsprung
(0 m)	light grey, silk white,			
		21F8 0 0 0		
0 ,0				Hinge set
	Composed of:		and the second second	for wooden fronts and wide alu frames
3a	1 x SERVO-DRIVE cover cap large left			Fixing method: Screw-on4)
3	1 x cover cap large right			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)
<mark>3</mark> 6	SERVO-DRIVE set			2 x Cruciform cam mounting plate (173H7100)
e	Nylon			
A COLORED	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			for wide att frames.
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°		7, 3, 9	flex and transformer unit housing
		2 x 20F705		
		2 x 1		Page 74
		20F701		

Planning information Standard and SERVO-DRIVE for AVENTOS HF

wooden nonts and wide atuminium names symmetrical



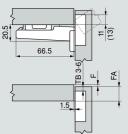


KH Cabinet height

SFA Side front overlay

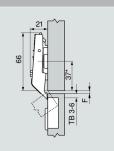
Number of hinges 3 hinges starting at cabinet width 1200 mm and/or 12 kg door weight 4 hinges starting at cabinet width 1800 mm and/or 20 kg door weight

Cabinet height	х	х			
(KH)	177H510	177H5400E			
480–549 mm	0 70 mm	68 mm 45			
550–1040 mm	47 mm	mm			



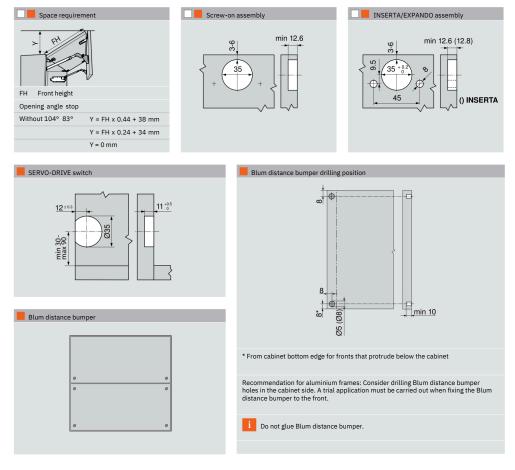
F ()GBpilling distance TB for standard hingeLIP top 120° special hinge

	Front overlay FA													
	5	6	7	8	9	10	11	12	13	14	15	16	17	
0										3	4	5	6	
3							3	4	5	6				
6				3	4	5	6							
9	3	4	5	6										
▲_	Ν	1 0	u	n	ti	n	g	р	ι	a t	e			



М	in. gap	F = 1.5 n	nm									
*3	37 mm	for cruci	form m	ounting	plat	es (37/	32)				
Dr	illing di	stance 1	гв									
	Centre gap F											
						3	4	5	e			
0						6	5	4	З			
3												
6												
9												
▲	A Mounting plate											

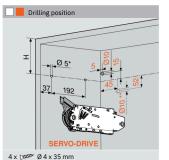




Standard

Planning information Standard and SERVO-DRIVE for AVENTOS HF

wooden nonts and wide atuminium names asymmetrica



Drilled hole for SERVO-DRIVE distribution

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TKH x 0.3 - 28 mm

TKH x 0.3 - 57 mm

cable, left only

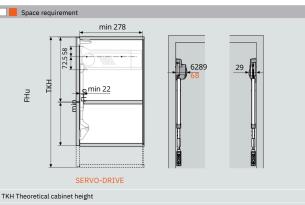
Cabinet height

480-549 mm

550–1040 mm

* Drilling depth 5 mm

** Alternative drilling

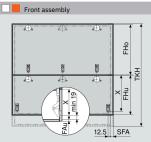


KH Cabinet height

FHo Front height top

FHu Front height bottom

Theoretical cabinet height (TKH) = front height top (FHo) x 2 (including gaps)



Min. lower front height X + 19 + FAu

FHo Front height top

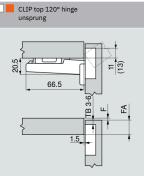
TKH Theoretical cabinet height

SFA Side front overlay

FAu Lower front overlay

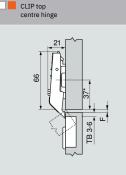
Number of hinges 3 hinges starting at cabinet width 1200 mm and/or 12 kg door weight 4 hinges starting at cabinet width 1800 mm and/or 20 kg door weight

Theoretical	х	х		
cabinet height (TKH)	177H5100	177H5400E		
480-549 mm	FHo/2 + 70	FHo/2 + 68		
550–1040 mm	mm FHo/2 +	mm FHo/2 ·		
	47 mm	45 mm		



F ()GBpilling distance TB for standard hing@LIP top 120° special hinge

	Fr	Front overlay FA													
	5	6	7	8	9	10	11	12	13	14	15	16	17		
0										3	4	5	6		
3							3	4	5	6					
6				3	4	5	6								
9	3	4	5	6											
▲_	Ν	1 0	u	n	ti	n	g	р	ι	a t	е				

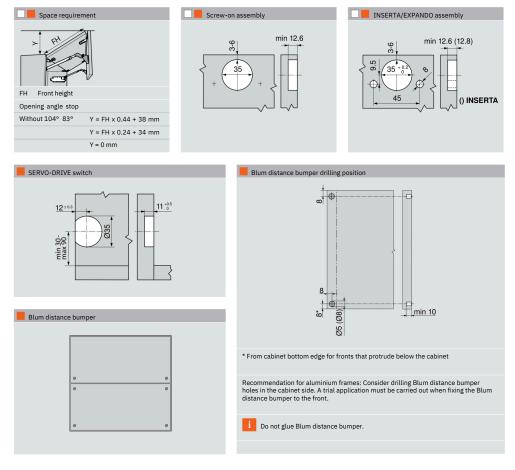


Min. gap F = 1.5 mm

* 37 mm for cruciform mounting plates (37/32)

DI	illing distance TB					
	Centre gap F					
		3	3	4	5	6
0		6	5	5	4	3
3						
6						
9						
▲	Mounting plate					

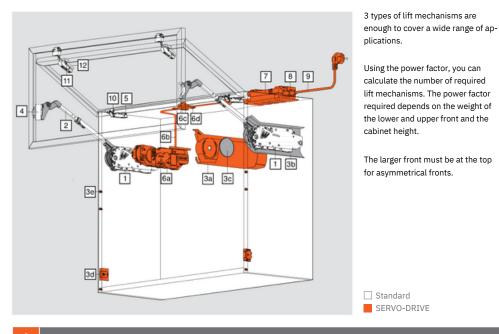




Standard

Order information Standard and SERVO-DRIVE for AVENTOS HF

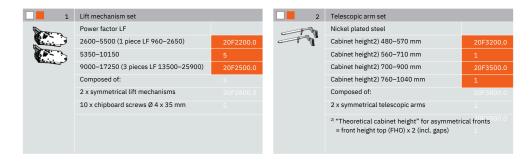
Narrow aluminium frames symmetrical/asymmetrical



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

		LF 2600-5500		LF 9000-17250	
		20F2200.05		20F2800.05	
	20F2200.05		20F2500.05		
	LF 960-2650	1	LF 5350-10150		
Lift mechanism one-sided		Lift mechanism two-sided		LF Power factor	

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



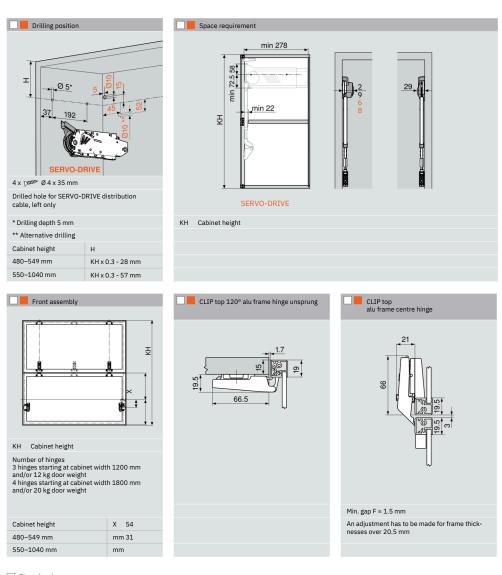


_					
3	Cover cap set		6	SERVO-DRIVE set	
$0 0_{\tau}$	Nylon			Nylon	
	light grey, silk white,			RAL 7037 dust grey 21FA 0 0 0	
	20F8000				
			~	Composed of:	
	Composed of:		6a	1 x drive unit	
3a	1 x cover cap large left		6	1 x distribution cable, 1500 mm	
3	1 x cover cap large right		b	1 x connecting 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		and Dam	for narrow alu frames	
	light grey, silk white,		Inclose - Sala	Fixing method: screw-on	
	21F8 0 0 0			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-PZ KS2			
				Side 74	



Planning information Standard and SERVO-DRIVE for AVENTOS HF

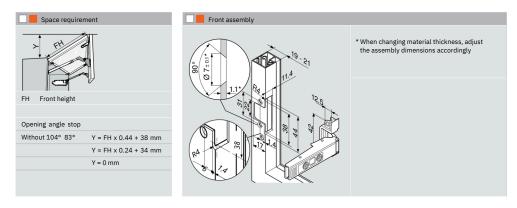
Narrow aturninum names Symmetrica



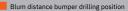
Standard

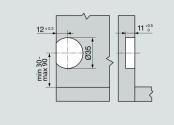
SERVO-DRIVE

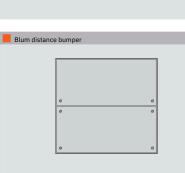


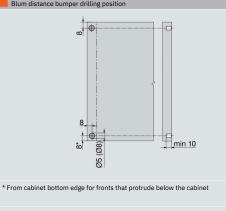










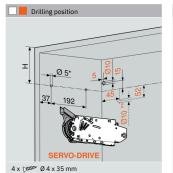


Recommendation for aluminium frames: Consider drilling Blum distance bumper holes in the cabinet side. A trial application must be carried out when fixing the Blum distance bumper to the front.

i Do not glue Blum distance bumper.

Ablum

Planning information Standard and SERVO-DRIVE for AVENTOS HF



Drilled hole for SERVO-DRIVE distribution

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TKH x 0.3 - 28 mm

TKH x 0.3 - 57 mm

cable, left only

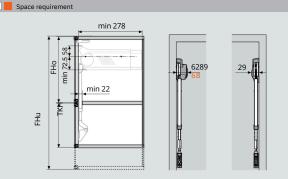
480-549 mm

550-1040 mm

ткн

* Drilling depth 5 mm ** Alternative drilling

Narrow aluminium frames asymmetrical



SERVO-DRIVE

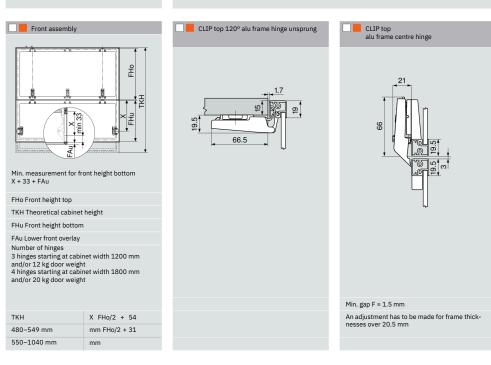
TKH Theoretical cabinet height

KH Cabinet height

FHo Front height top

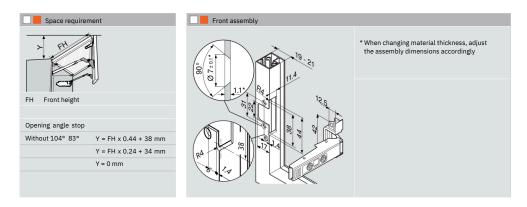
FHu Front height bottom

Theoretical cabinet height (TKH) = upper front height (FHO) x 2 (including gaps)

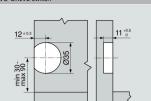


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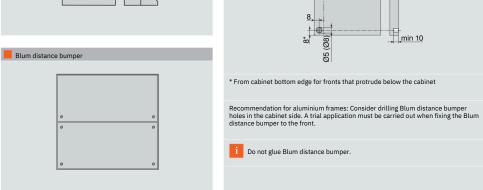






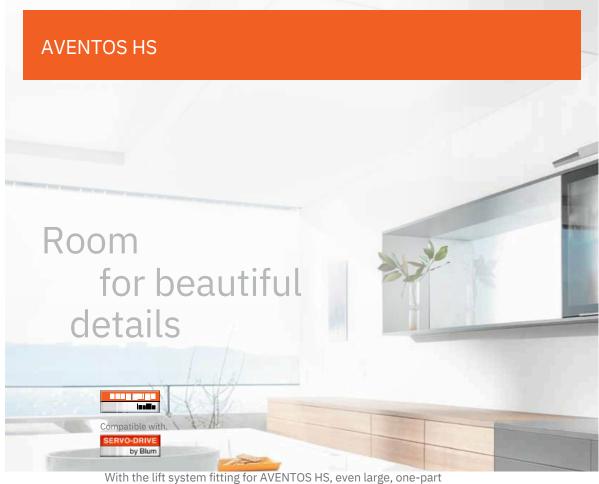












With the lift system fitting for AVENTOS HS, even large, one-part fronts appear to defy gravity by swinging up effortlessly. There is still enough space over the cabinet for a host of design options, such as beautiful details in the form of cornice or crown mouldings. As you would expect, this product 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.



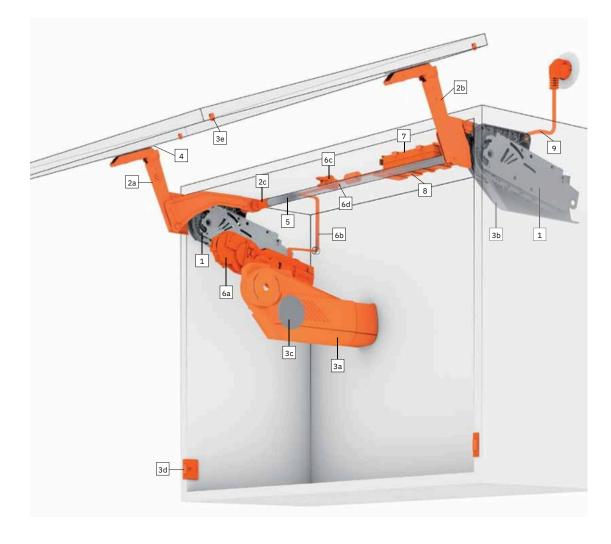
Watch video of the assembly and adjustment processes





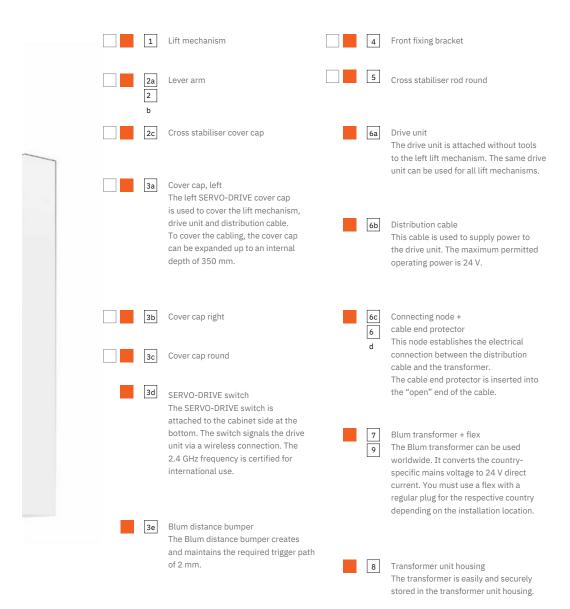
Tailored to your tastes: AVENTOS HS also allows wall cabinets to be decorated with cornice or crown mouldings. At the heart of this fitting solution is the lift mechanism with BLUMOTION and a robust spring package.

AVENTOS HS



Standard SERVO-DRIVE





6d 6c	- 8c
and SERVE and SERVE	r AV NTOS HS
6a 3a 3c	
	3 Cover cap set for SERVO-DRIVE
	Nylon
	light grey, silk white
	Composed of:
	3a 1 x SERVO-DRIVE cover cap large left
	3 A x cover cap large right b 2 x round cover caps
	3c 72 x SERVO-DRIVE switches 3 4 x Blum distance bumpers, Ø 5 mm
3d 🔁	d d
	4 Front fixing bracket set
	NICKEI plated
	Wooden fronts and wide alu- minium frames1)
	Narrow alu frames ¹⁾ Use 4 chipboard screws (609.1x00) per side for wooden fronts. Use 4 coun-
	tersunk self tapping screws (660.0950) per side for wide aluminium frames.
1 Lift mechanism set KH 350-525	
mm KH 526-675 mm KH 672052A00.05 2052B00.05 2052C00.	05 5 Cross stabiliser rod round
mm Composed of: 2 x symr205/28/00.05 2052E00.05 2052E00.05 2052E00.05	
lift mechanisms 10 x chi2092d00.05 2052H00.0 2052I00.	
screws Ø 4 x 35 mm 5	Cutting: LW - 129 mm
	SERVO-DRIVE: LW - 164 mm
	Connecting piece set for cross stabiliser
2 Lever arm set	
Steel, nickel plated	Aluminium, Ø 16 mm
	With LW of 1190 mm and up 20Q153ZN
Composed of:	Cutting for 5: LW / 2 - 147 mm
2a 1 x lever arm left	SERVO-DRIVE: LW / 2 - 165 mm
2b 1 x lever arm right	Composed of: 1 Connecting piece
2c 2 x cross stabiliser cover caps	1 x fixing
	2 x cross stabiliser cover caps
2 Lever arm set for SERVO-DRIVE Steel, nickel plated	
Steel, mokel plated	01 6 SERVO-DRIVE set
Includes:	Nylon
2a 1 x SERVO-DRIVE lever arm left	RAL 7037 dust grey 21FA 0 0 0
2b 1 x SERVO-DRIVE lever arm right	Composed of:
2c 2 x cross stabiliser cover caps	6a 1 x drive unit
	6 1 x distribution cable, 1500 mm
3 Cover cap set	b 1 x connecting node
Nutra	6c 2 x cable end protectors
Ight grey, silk white 20580 Composed of: 2 2a 1 x cover cap large left	6 We recommend one SERVO-DRIVE drive unit per set for connected fronts!
Composed of:	d
2a 1 x cover cap large left	
2b 1 k Cover cap targe right	Standard KH Cabinet height
2c 2 x round cover caps	SERVE LW Inner cabinet width
38	· · · · · · · · · · · · · · · · · · ·



10.25-18.75

10.25-18.75

10.50-18.50

10.50-18.50

10.50-18.50

10.75 - 18. 25

10.75 - 18.25

11.00-18.00

11.00-18.00

11.25-17.75

11.25-17.75

11.25-17.50

11.50-17.50

10.50-18.50

	Bit PZ cross slot		
	Size 2, length 39 mm		
		BIT	-PZ KS2
7, 8, 9	Blum transformer, flex and transformer unit housing		
		Page	74

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

= 602 mm –>	600 mm, KH = 603 mm	-> 605 mm		0	5.00-6.50	0.00-12.50	11.50-17.5
				58	3.00-6.50	6.00-12.50	11.50-17.2
				5	3.00-6.50	6.00-12.50	11.50-17.2
	Door weight (kg)			58	3.00-6.50	6.00-12.75	11.75-17.00
KH (mm)	20S2G00.05	20S2H00.05	20S2I00.05	0	3.00-6.75	6.25 - 12.75	11.75-16.75
i (i i i i i i i i i i i i i i i i i i	2002000.00	20321100.03	2002100.00	57	3.00-6.75	6.25 -12.75	11.75-16.75
800	4.00-7.00	6.00-12.25	10.50-20.00	5	3.00-6.75	6.25-13.00	12.00-16.50
795	4.00-7.00	6.00-12.25	10.50-20.00	57			
790	4.00-7.00	6.00-12.25	10.75-20.00	KH ⁰ (mm)	20S2A00.05	20S2B00.05	20S2C00.0
785	4.00-7.00	6.25-12.50	10.75-20.00	56	2032A00.03	2032000.03	2032000.0
780	4.00-7.00	6.25-12.50	10.75-20.25	525	2.50-4.00	3.25-7.50	7.25-15.00
775	3.75-7.00	6.25-12.50	11.00-20.25	520	2.50-4.00	3.50-7.50	7.25-15.00
770	3.75-7.00	6.25-12.50	11.00-20.25	815			
765	3.75-7.25	6.50-12.50	11.00-20.25	515	2.50-4.00	3.50-7.50	7.25-14.75
760	3.75-7.25	6.50 -12.75	11.25-20.25	510	2.50-4.00	3.50-7.75	7.50-14.75
755	3.75-7.25	6.50 -12.75	11.25-20.25	505 550	2.50-4.00	3.50-7.75	7.50-14.75
750	3.50-7.25	6.50 -12.75	11.50-20.50	495	2.50-4.25	3.50-7.75	7.50-14.75
745	3.50-7.25	6.50 -12.75	11.50-20.50	495 54	2.50-4.25	3.75-7.75	7.50-14.50
740	3.50-7.25	6.50 -12.75	11.75-20.75		2.50-4.25	3.75-8.00	7.75-14.50
735	3.50-7.50	6.50-13.00	11.75-20.75	4 85	2.50-4.25	3.75-8.00	7.75-14.25
		6.75-13.00		48 0	2.50-4.25	3.75-8.00	7.75-14.25
730 725	3.50-7.50 3.50-7.50	6.75-13.00	11.75 - 21.00 12.00-21.00	475	2.50-4.25	3.75-8.00	7.75-14.00
				43 0	2.50-4.25	4.00-8.25	8.00-14.0
720 715	3.50-7.50 3.50-7.50	6.75-13.00	12.00-21.25 12.00-21.25	4 65	2.25-4.25	4.00-8.25	8.00-13.75
		6.75-13.00		490	2.25-4.25	4.00-8.25	8.0 0 -13.75
710	3.50-7.75	6.75-13.25	12.25-21.25	4 55	2.25-4.25	4.00-8.50	8.25-13.50
705	3.50-7.75	6.75-13.25	12.25-21.50	\$20	2.25-4.25	4.00-8.50	8.25-13.50
700	3.50-7.75	6.75-13.25	12.50-21.50	8 45	2.25-4.50	4.25-8.50	8.25-13.25
695	3.50-7.75	6.75-13.25	12.50-21.50	440	2.25-4.50	4.25-8.50	8.25-13.00
690	3.50-7.75	6.75-13.25	12.75 - 21.50	435	2.25-4.50	4.25-8.75	8.50-13.00
685	3.50-8.00	7.00-13.25	12.75 - 21.50	430	2.25-4.50	4.25-8.75	8.50 -12.75
680	3.50-8.00	7.00-13.50	13.00-21.50	425	2.25-4.50	4.25-8.75	8.50 -12.75
676	3.50-8.00	7.00-13.50	13.00-21.50	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
KH (mm)	20S2D00.05	20S2E00.05	20S2F00.05	405	2.25-4.50	4.25-9.00	8.75-12.00
				400	2.00-4.75	4.25-9.00	8.75-12.00
675	3.00-5.25	5.00-11.00	0 9.75 - 19.0 0	395	2.00-4.75	4.50-9.00	8.75-11.75
670	3.00-5.25	5.00-11.00	0 9.75 -19.0 0	390	2.00-4.75	4.50-9.00	8 .75 –11. 5
665	3.00-5.25	5.00-11.00	0 9.75 - 19.0 0	385	2.00-4.75	4.50-9.25	9.00-11.50
660	3.00-5.50	5.25-11.25	10.00-19.00	380	2.00-4.75	4.50-9.25	9.00-11.25
655	3.00-5.50	5.25-11.25	10.00-19.00	375	2.00-4.75	4.50-9.25	9.00-11.25
650	3.00-5.50	5.25-11.25	10.00-19.00	370	2.0 0 - 4.75	4.50-9.25	9.00-11.00
645	3.00-5.50	5.25-11.25	10.00-18.75	365	2.0 0 - 4.75	4.50-9.25	9.00-11.00
	3.00-5.50	5.25-11.25	10.00-18.75	360	2.0 0 - 4.75	4.50-9.50	9.25-10.75
640							
640 635	3.00-5.50	5.25-11.50	10.25-18.75	355	2.0 0 - 4.75	4.50-9.50	9.25-10.5
			10.25-18.75 10.25-18.75	355 350	2.00-4.75 2.00-5.00	4.50-9.50 4.50-9.50	9.25-10.50 9.25-10.50

62

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5.75-12.00

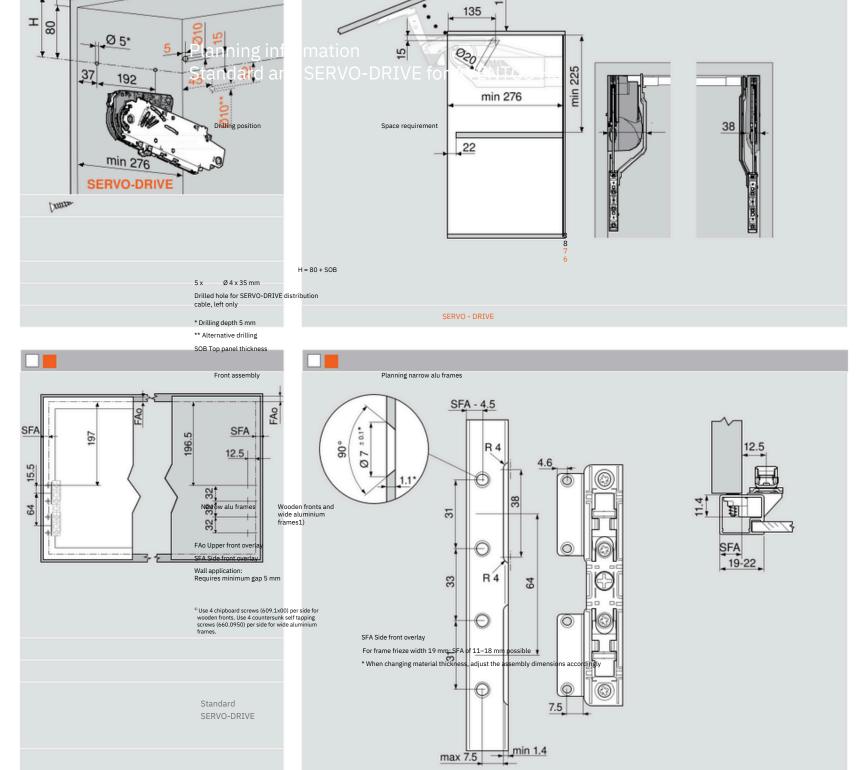
5.75-12.00

5.75-12.25

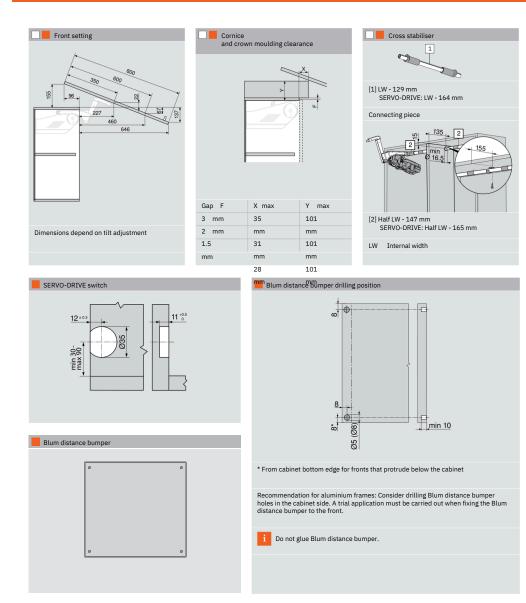
5.75-12.25

6.00-12.25

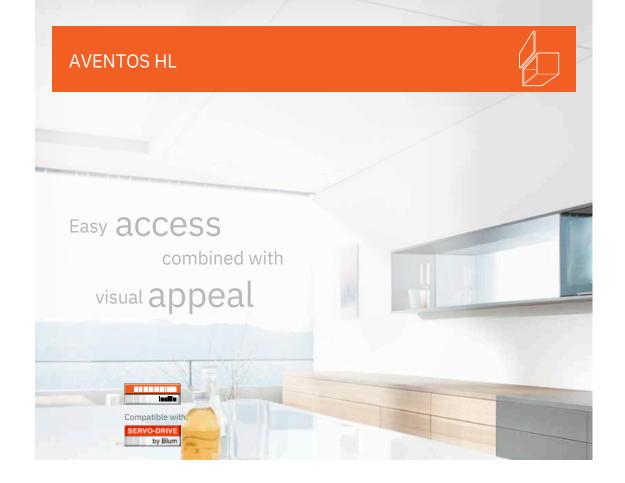
6.00-12.50







Ablum



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.



Watch video of the assembly and adjustment processes

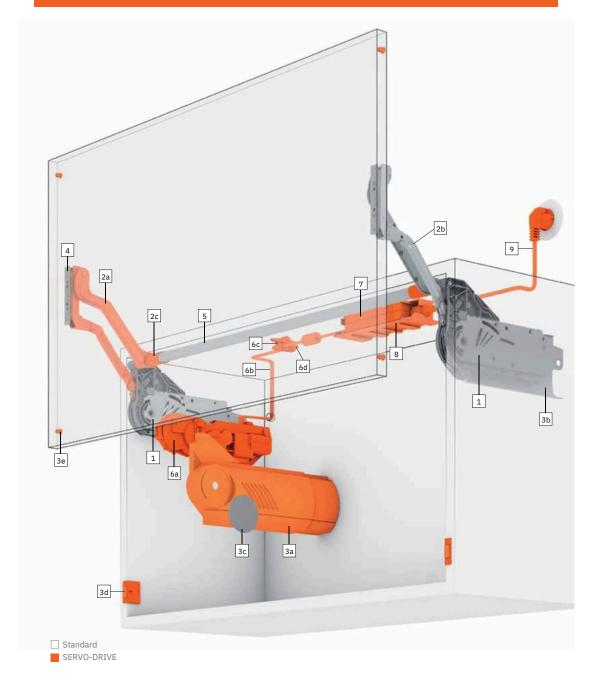


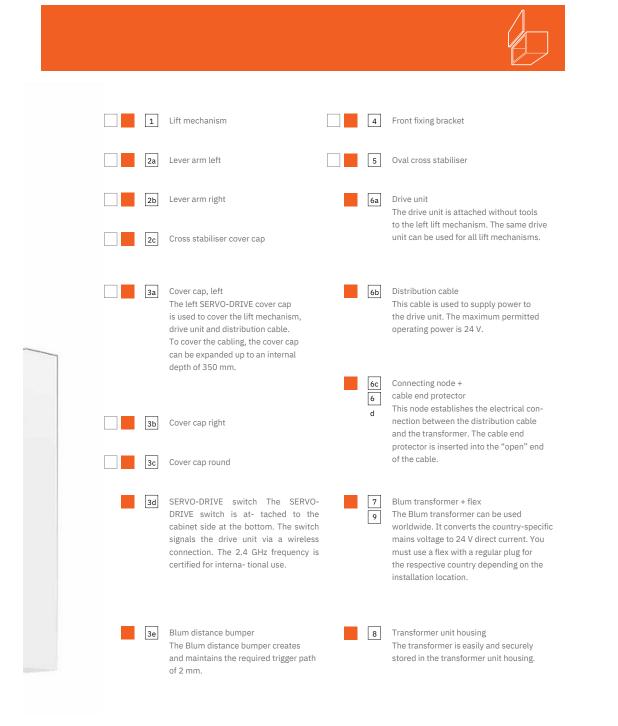


Sheer beauty: With AVENTOS HL, electrical appliances disappear behind a continuous cabinet front.

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

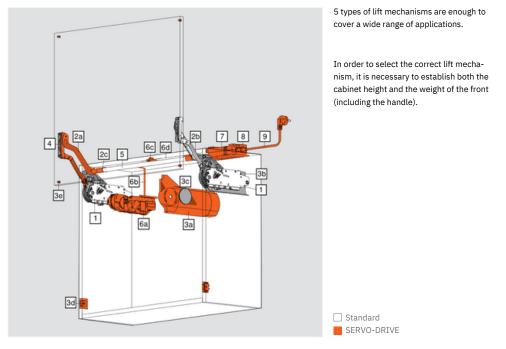
AVENTOS HL





Ablum

Order information Standard and SERVO-DRIVE for AVENTOS HL



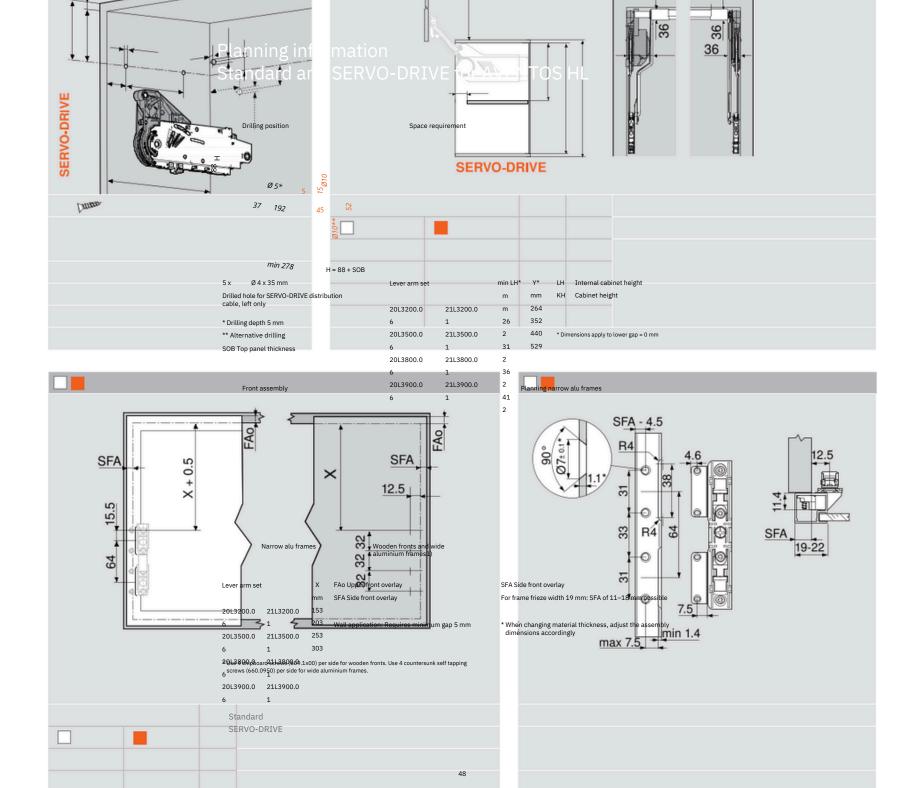
	Cabinet height	Cabinet height				
	300–349 mm	350–399 mm	400–550 mm	450-580 mm		
	Lever arm set					
	20L3200.06	20L3500.06	20L3800.06	20L3900.06		
Lift mechanism set	21L3200.01	21L3500.01	21L3800.01	21L3900.01		
20L2100.05	1.25–4.25 kg	1.25-2.50 kg				
20L2300.05	3.50-7.25 kg	1.75-5.00 kg	1.75-3.50 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.

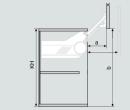
1	Lift mechanism set		2	Lever arm set Cabinet height	
		20L2100.0	1 11	300-349 mm Cabinet height	20L3200.0
		5		350-399 mm Cabinet height	6
		20L2300.0	121	400-550 mm Cabinet height	20L3500.0
		5	а — а	450–580 mm	6
		20L2500.0			20L3800.0
				Composed of:	
	Composed of:		2a	1 x lever arm left	
	2 x symmetrical lift mechanisms		2b	1 x lever arm right	
	10 x chipboard screws Ø 4 x 35 mm		2c	2 x cross stabiliser cover caps	



Ablum







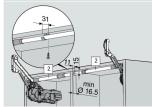
Lever arm set		a	b*	Max.
		mm	mm	mm
20L3200.0	21L3200.0	114	257	159
6	1	146	345	209
20L3500.0	21L3500.0	178	433	259
6	1	210	522	309.5
20L3800.0	21L3800.0			
6Dimensions app	oly t o lower gap = 0	mm		
20L3900.0	21L3900.0			
6	1			



16 mm 30 mm mm 31 18 mm mm

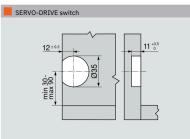
\$0B Top panel thickness mm





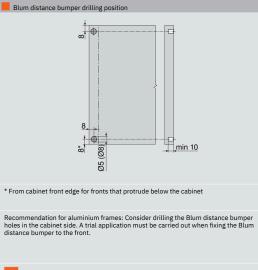
[2] Half LW - 147 mm SERVO-DRIVE: Half LW - 165 mm

LW Internal width



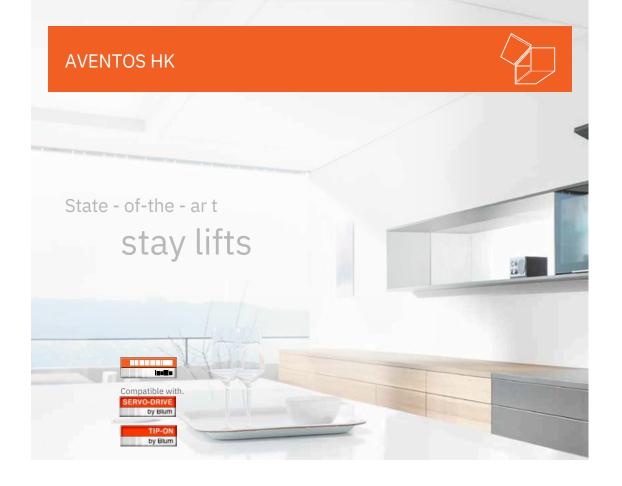
0

Blum distance bumper



i Do not glue Blum distance bumper.





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.



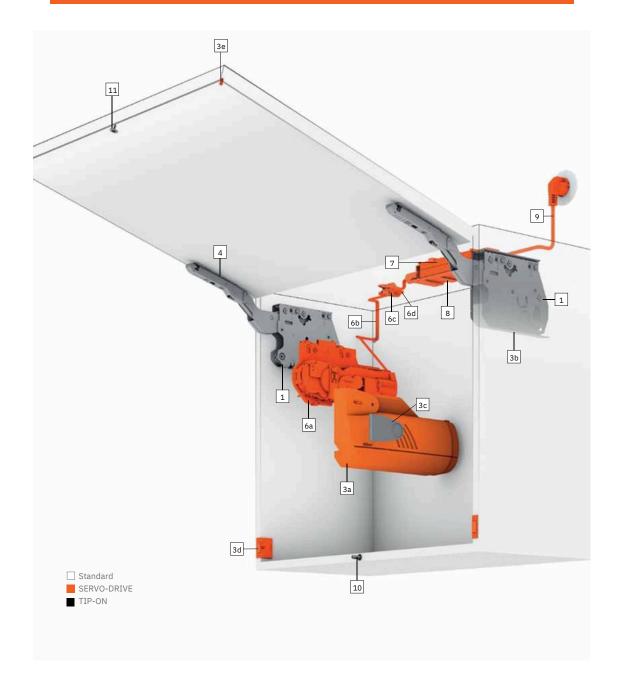
Watch video of the assembly and adjustment processes



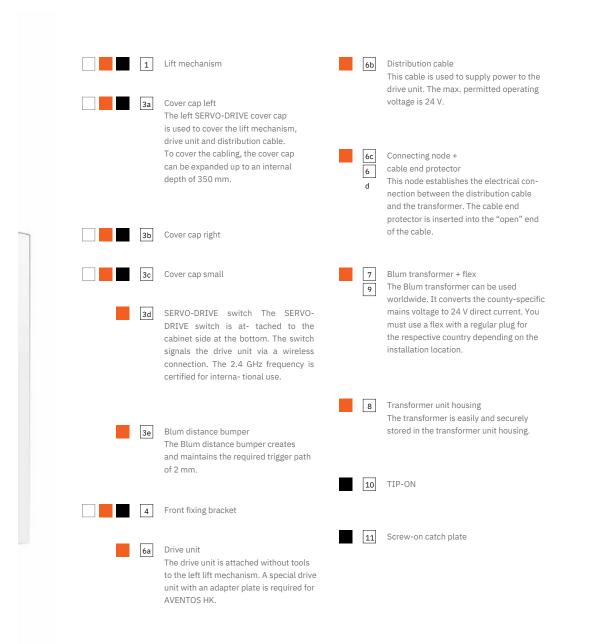


A single touch is all that is needed. The TIP-ON mechanical opening support system makes opening cabinets easier and more convenient than ever before. At the heart of this fitting solution is the lift mechanism with BLUMOTION and a robust spring package.

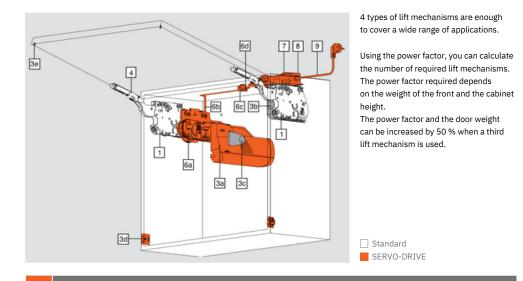
AVENTOS HK



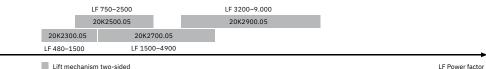




Order information Standard and SERVO-DRIVE for AVENTOS HK



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



Lift mechanism two-sided

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

1	Lift mechanism set				3	Cover cap set	
2	Power factor	Opening ar	ngle			Nylon	
1000	480-1500	107°		20K2300.0	P	light grey, silk white	20K8000
	750-2500	107°		5			
130 4	1500-4900	107°		20K2500.0			
(and)	3200-9000	100°	*)	5		Composed of:	
					3a	1 x cover cap large left	
	Composed of:				3	1 x cover cap large right	
	2 x symmetrical lift me	echanisms			b	2 x cover caps small	
	6 x chipboard screws Ø 4 x 35 mm				3c		
	Max. door weight 18 kg	g for two lift m	echanis	ms			
	*) Pre-mounted openir	ng angle stop					

Note

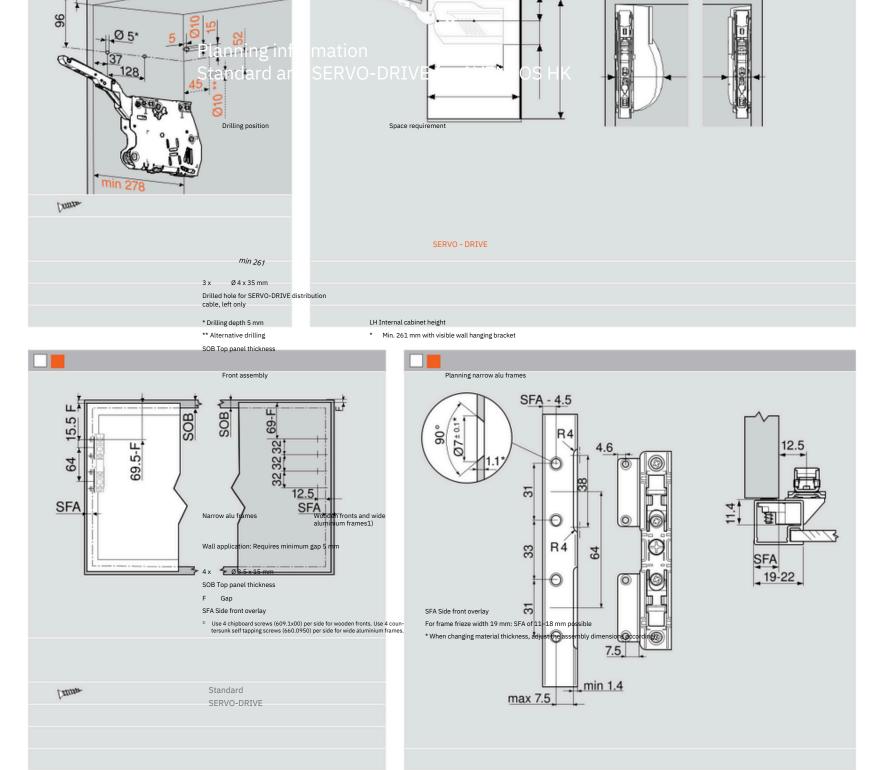
We recommend a lift mechanism attached to the centre panel for wide cabinets. The reason for this is to prevent the middle of the front from sagging when open.



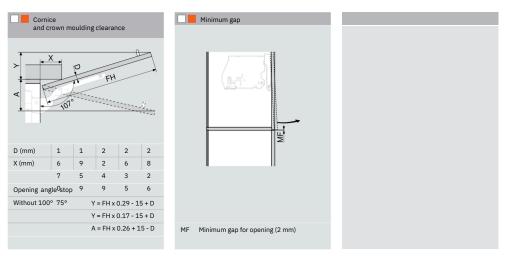


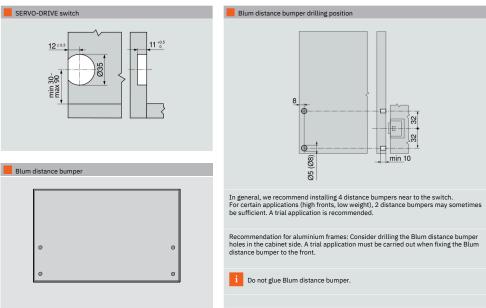
Nylon Nylon light grey, silk white 21K8 0 0 Composed of: 0 Composed of: 6a 1 x SERVO-DRIVE cover cap large left 6 3 1 x cover cap large right b 2 x cover caps small 3c 2 x SERVO-DRIVE switches 3 4 x Blum distance bumpers, Ø 5 mm d	_		_		
Composed of: Composed of: 3a 1 x SERVO-DRIVE cover cap large left 6a 1 x drive unit 3a 1 x servo-cap large right 6 1 x distribution cable, 1500 mm b 2 x cover cap large right b 1 x connecting node b 2 x cover caps small 6c 2 x cable end protectors 3c 2 x SERVO-DRIVE switches 6 3 4 x Blum distance bumpers, Ø 5 mm d	0.	Nylon De la companya de la company		Nylon	
Composed of: 6a 1 x drive unit 3a 1 x SERVO-DRIVE cover cap large left 6a 1 x drive unit 3 1 x cover cap large right b 1 x connecting node b 2 x cover caps small 6c 2 x cable end protectors 3c 2 x SERVO-DRIVE switches 6 We recommend two synchronised drive units for a power factor > 9000. d	J- M	light grey, silk white 21K8 0 C		Dust grey	21K A0 0 0
Composed of: 6a 1 x drive unit 3a 1 x SERVO-DRIVE cover cap large left 6a 1 x drive unit 3 1 x cover cap large right b 1 x connecting node b 2 x cover caps small 6c 2 x cable end protectors 3c 2 x SERVO-DRIVE switches 6 We recommend two synchronised drive units for a power factor > 9000. d			*		
Composed of: 6a 1 x drive unit 3a 1 x SERVO-DRIVE 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 cover caps small 6c 2 x cable end protectors 3c 2 x SERVO-DRIVE switches 6 We recommend two synchronised drive units for a power factor > 9000. d			, i i i i i i i i i i i i i i i i i i i	Composed of:	
3 1 x cover cap large right b 1 x connecting node 3 1 x cover caps small 6c 2 x cable end protectors 3c 2 x SERVO-DRIVE switches 6 We recommend two synchronised drive units for a power factor > 9000. 3 4 x Blum distance bumpers, Ø 5 mm d		Composed of:	6a	1 x drive unit	
b 2 x cover caps small 6c 2 x cable end protectors 3c 2 x SERVO-DRIVE switches 6 We recommend two synchronised drive units for a power factor > 9000. 3 4 x Blum distance bumpers, Ø 5 mm d	3a	1 x SERVO-DRIVE cover cap large left	6	1 x distribution cable, 1500 mm	
3c 2 x SERVO-DRIVE switches 6 We recommend two synchronised drive units for a power factor > 9000. 3 4 x Blum distance bumpers, Ø 5 mm d	3	1 x cover cap large right	b	1 x connecting node	
3c 2 x SERVO-DRIVE switches 6 power factor > 9000. 3 4 x Blum distance bumpers, Ø 5 mm d d	b	2 x cover caps small	6c		
d	3c	2 x SERVO-DRIVE switches	6		
	3	4 x Blum distance bumpers, Ø 5 mm	d		
3 4 Front fixing bracket set Opening angle stop	d				
	3 4	Front fixing bracket set		Opening angle stop	

4	Front fixing bracket set		Opening angle stop			
e 📲 🖷	Nickel plated	1	Nylon 100°Dark			
	Wooden fronts and 20S42E3 wide aluminium frames1)		grey 75°Dust grey	2 x	20	OK704
	wide auminium names1)			2 x		2 0 K
	Narrow alu frames 2054200/					
			Bit PZ cross slot			
	Composed of:		Size 2, length 39 mm			
	2 x symmetrical front fixing brackets				BIT-I	PZ KS2
	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.	7, 8, 9	Blum transformer, flex and transformer unit housing			
					Page	74

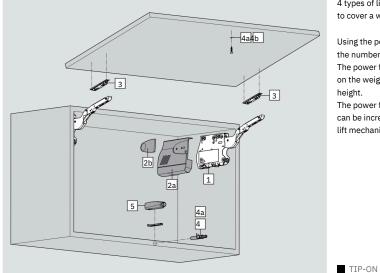








Order information **TIP-ON for AVENTOS HK**



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.

- [Ower lacior LF -	Cabinet neight KH (II		
	Lf	750-2500	LF 3200-9000	
	:	20K2500T	20K2900T	
	20K2300T	20K2700T		
	LF 480-1500	LF 1500-4900		

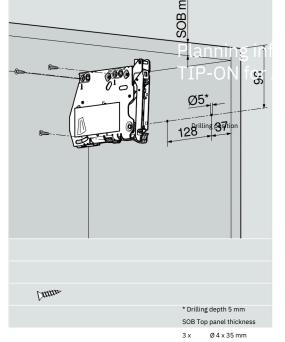
1 Lift mechanism set Cover cap set 2 Nylon Power factor Opening angle 6 480-1500 107° light grey, silk white 750-2500 107° 1500-4900 107° 3200-9000 100° Composed of: *) 1 x cover cap large left 2a 1 x cover cap large right 2b Composed of: 2c 2 x cover caps small 2 x symmetrical lift mechanisms 6 x chipboard screws Ø 4 x 35 mm Max. door weight 18 kg for two lift mechanisms Opening angle stop Nylon 100° 75° 9 Dark grey *) Pre-mounted opening angle stop 2 x 2 x Dust grey

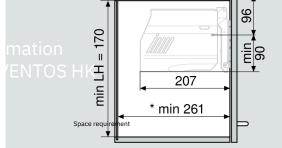
A trial application is recommended when you are in a borderline area of the individual lift mechanism.

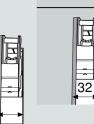


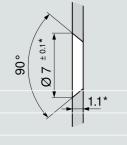


3	Front fixing bracket set	4 b	TIP-ON long version set				
đ	Nickel plated		For front heights over 500 mm				
	Wooden fronts 20542	E1	For drilling Ø 10 x 76 mm				
* 4	and wide aluminium frames1)		RAL 7037 nylon, dust grey				
	Narrow alu frames 205420	OA	With magnet	955A1004			
			Output path approx. 38 mm				
	Includes:		Composed of:				
	2 x symmetrical front fixing brackets		1 × TIP-ON				
			1 x screw-on catch plate3)				
	¹⁾ Use 4 chipboard screws (609.1x00) for wooden fronts.		1 x chipboard screw 609.1500				
	Use 4 countersunk self tapping screws (660.0950) for wide alu frames.		³⁾ Note: The glue-on catch plate should not be used TIP-ON for AVENTOS HK	l in combination with			
4 a	TIP-ON set	5	Adapter plate				
-	For fronts up to a height of 500 mm		Cruciform adapter plate				
			Nylon 7036 platinum grey				
	For drilling Ø 10 x 50 mm		Screws	955.1501			
0	RAL 7037 nylon, dust grey		EXPANDO	055 1551			
	With magnet 955.1	204	Assembly with Ø 3.5 mm or Ø 4 mm chipboard scr	ews 755.15L1			
	Output path approx. 18 mm	104					
	Composed of:	-	Bit PZ cross slot				
	1 x TIP-ON		Size 2, length 39 mm				
	1 x screw-on catch plate2)		Size 2, tength 39 mm	BIT-PZ KS2			
	1 x chipboard screw 609.1500						
	•						
	²⁾ Note: The glue-on catch plate should not be used in combination TIP-ON for AVENTOS HK	with					



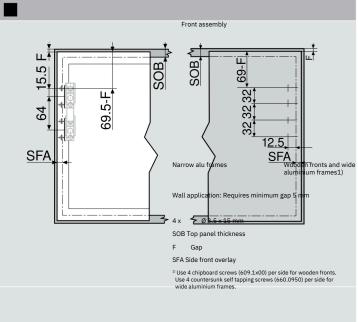






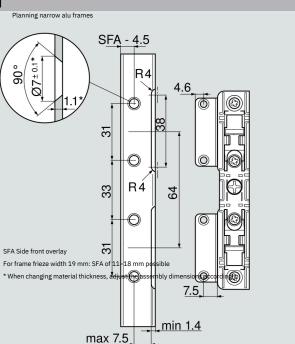
* Min. 261 mm with visible wall hanging bracket

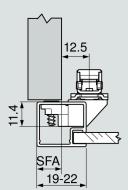
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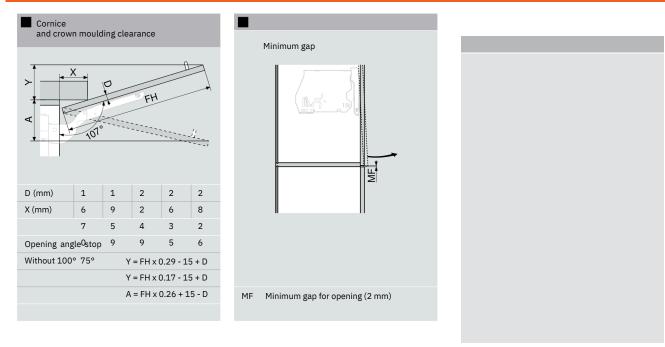


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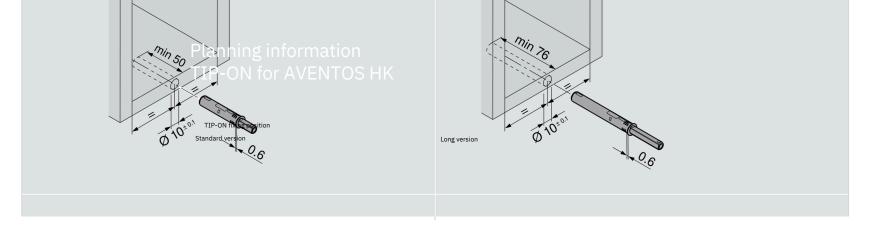


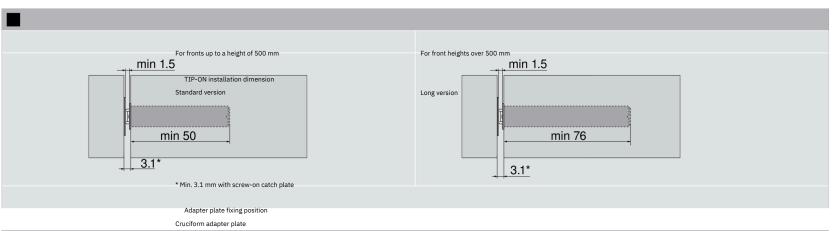


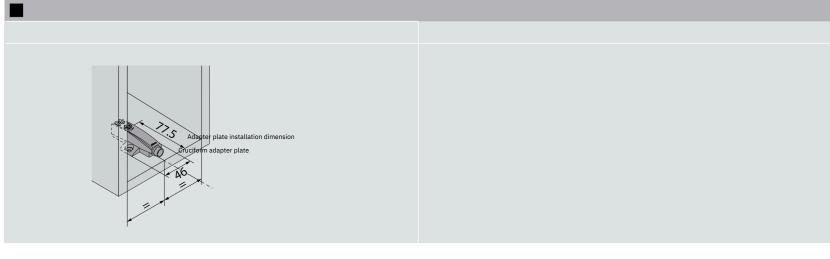












* Factory setting = 2 mm

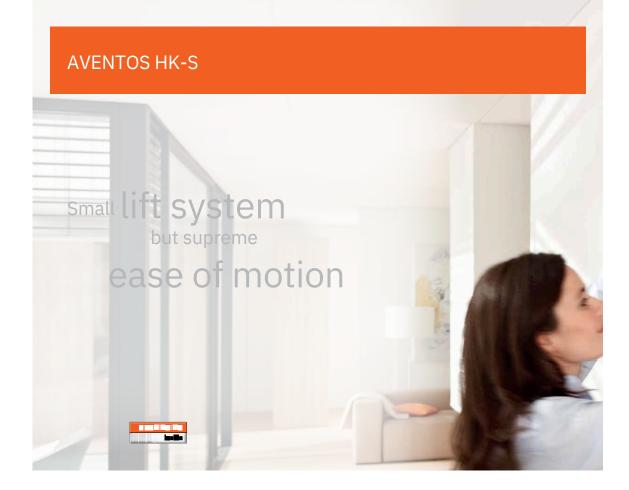
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TIP-ON





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.



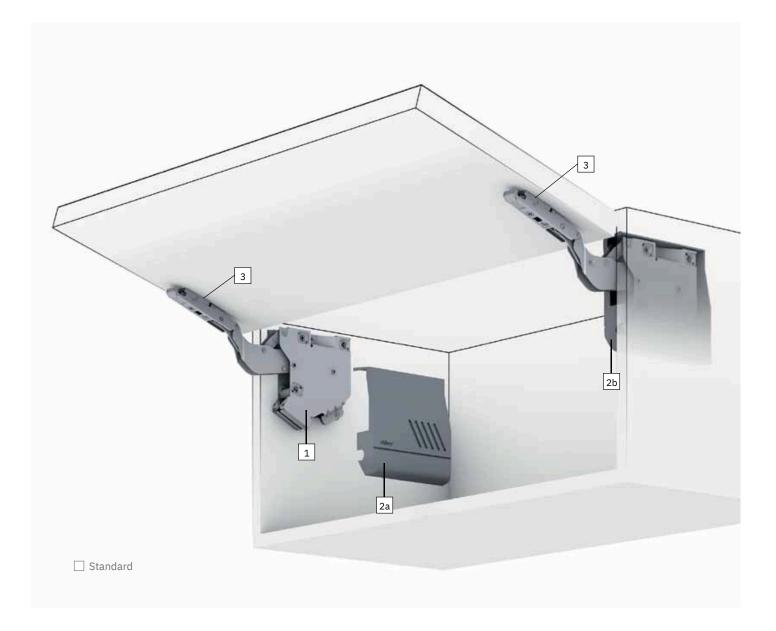
Watch video of the assembly and adjustment processes





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

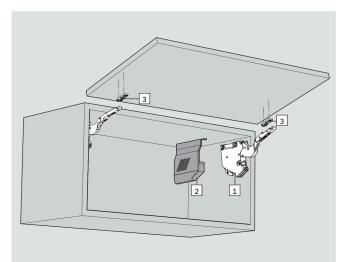
AVENTOS HK-S



	1 Lift mechanism
	2a Cover cap, left
	2b Cover cap right
	3 Front fixing bracket



Order information Standard AVENTOS HK-S



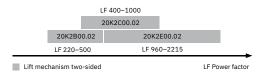
3 types of lift mechanisms are enough to cover a wide range of applications.

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

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

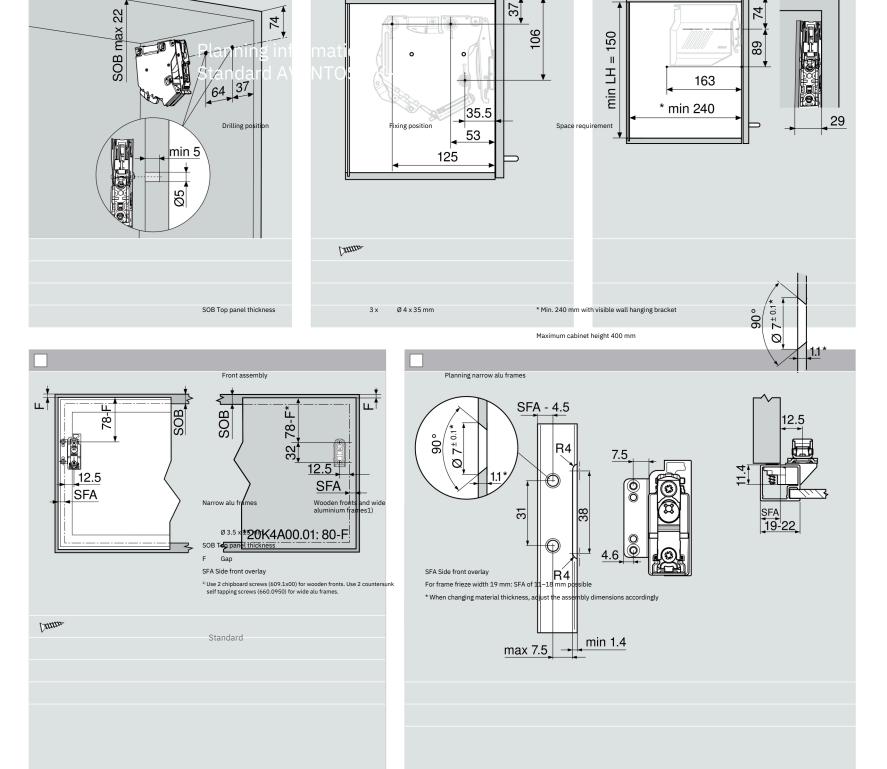


1	Lift mechanism set			3 Front fixing bracket		
i i T	Power factor	Spring		STREET.	Wooden fronts	
	200-500	Weak	20K2B00.0		and wide aluminium frames1) 2 x 20K42E1.01	
	400-1000	Medium	2		¹⁾ Use 2 chipboard screws (609.1x00) for wooden fronts. Use 2 coun-	
	960-2215	Strong	20K2C00.02		tersunk self tapping screws (660.0950) for wide alu frames.	
	Opening angle	107°		3	Front fixing bracket set	
				162105	Narrow alu frames 20K4A00A01	
	Composed of:					
	2 x symmetrical lift mechanisms				Composed of:	
	2 x cover caps large left/right				2 x symmetrical front fixing brackets	
	light grey, silk white					
	6 x chipboard screws, Ø 4 x 35 mm					

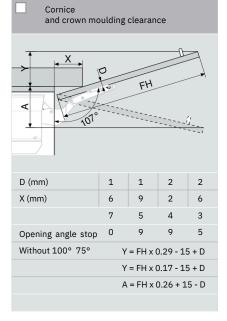


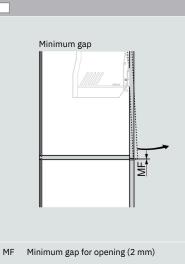


	Opening angle stop					
	Nylon 100° 75°					
"Je	Dark grey	2 x	20K7A41			
	Dust grey	2 x	2 0 K 7A11			
	Bit PZ cross slot					
	Size 2, length 39 mm					
			BIT-PZ KS2			



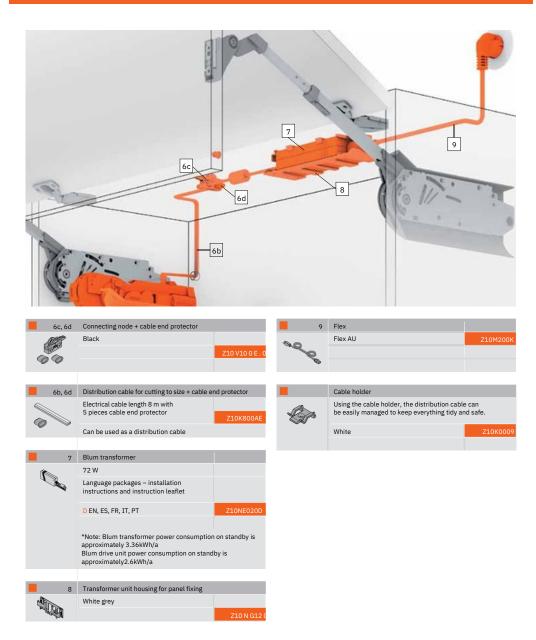


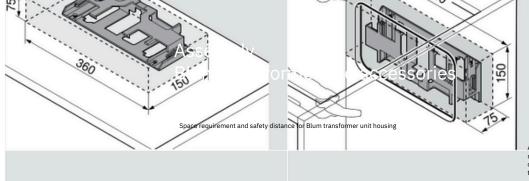




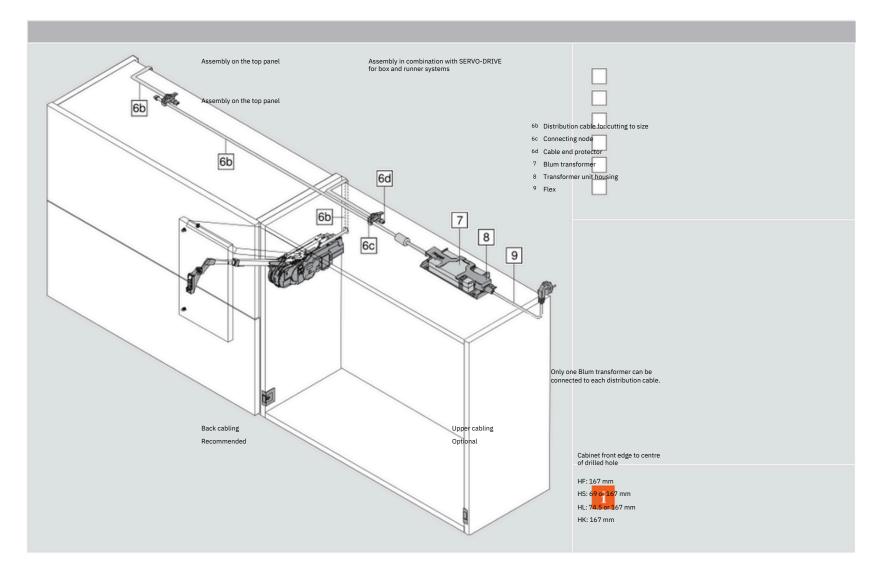


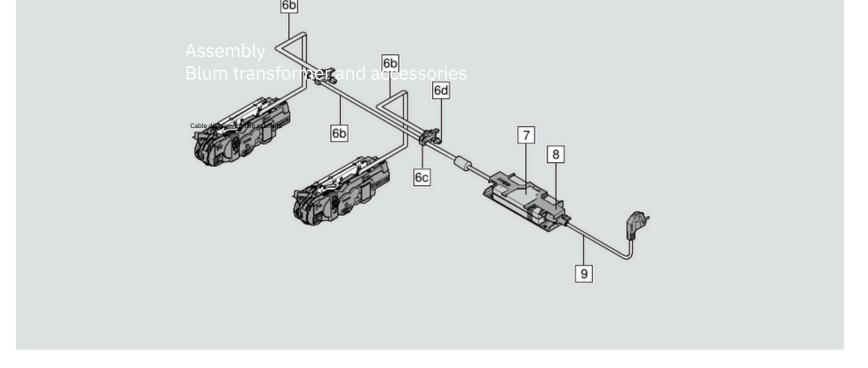
Order information Blum transformer and accessories

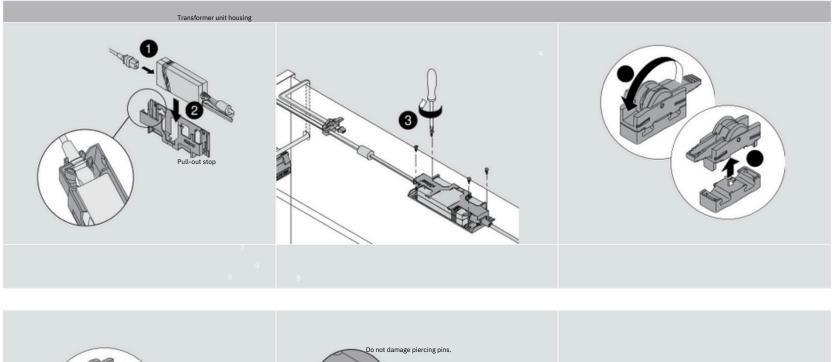




A safety distance of 30 mm must be maintained for air circulation (see graphic); otherwise, there is a risk that the Blum transformer could overheat.



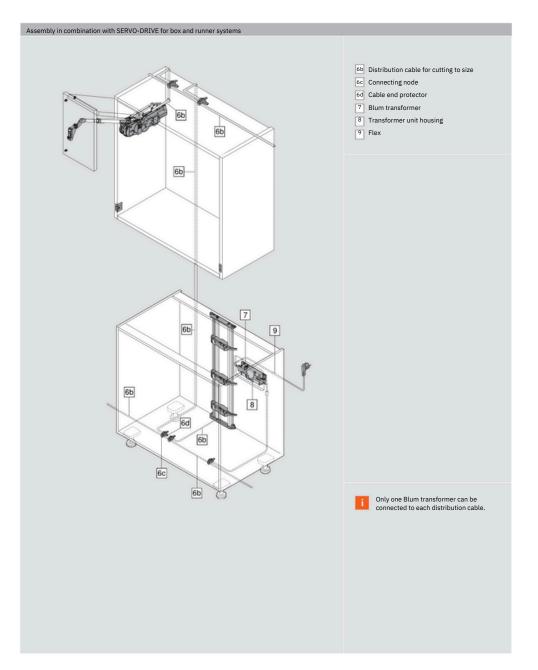








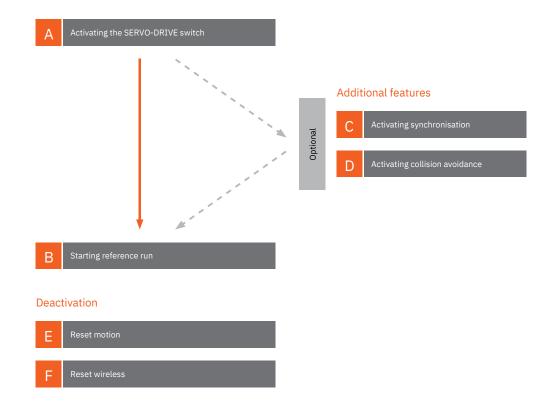


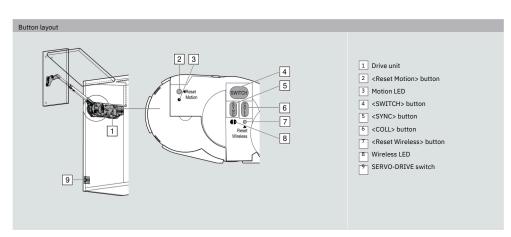


blum

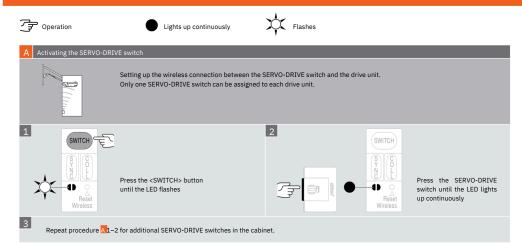
Overview of functions SERVO-DRIVE for AVENTOS

Star t- up

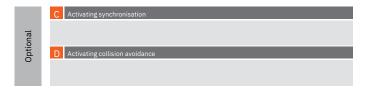


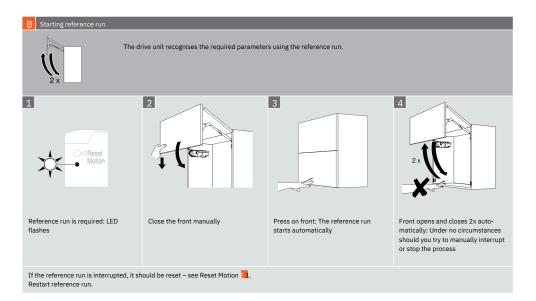


Star t- up SERVO-DRIVE for AVENTOS

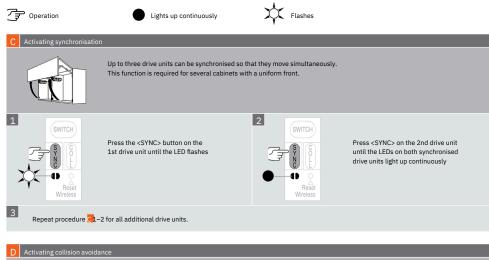


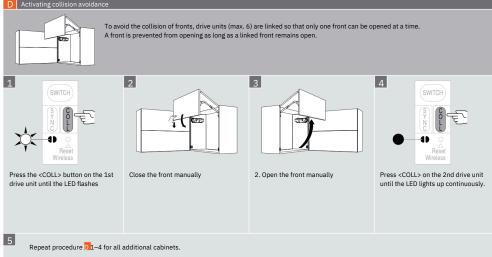
Additional features





Additional features SERVO-DRIVE for AVENTOS





Deactivation SERVO-DRIVE for AVENTOS

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AD CONCEPTION

Motion LED signals			Wireless LED signals		
ф.	Flashes orange	Reference run is required	\$	Flashes green	Activation mode
•	Lights orange continuously	Power available		Lights up green continuously	Activation confirmation
		Operating mode display			
		Reference run successfully completed	襟	Flashes green quickly	Deactivation confirmation
搽	Flashes orange quickly	Reset Motion confirmation	•	Lights red continuously	Last process was not completed successfully

Ablum

Blum





1958

1964



1966

1985





The first product

Studs are attached to horseshoes to stop horses slipping. Début in the furniture industry Production start

The ANUBA hinge is Blum's first furniture fitting.

Blum produces concealed furniture hinges.

Roller runners Blum starts to produce roller runners.

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.



blum

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 users.

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.



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 system





2011

With MOVENTO, a new generation of runner systems was born.

Runner systems



blum

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Experience the mesmerising motion Blum showrooms

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

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