

SERVO-DRIVE for AVENTOS

Opens, closes, automatically



connect.blum.com



So fascinating





New effortless opening and closing for lift systems

Lift systems open with just a light touch – and then close again with the press of a button: An Inspiring luxury you can use to impress your customers, thanks to SERVO-DRIVE for AVENTOS, our new electrical motion support system for lift systems.

Discover for yourself how easy the opening and closing of lift systems can be, along with the function and design opportunities available to you with SERVO-DRIVE for AVENTOS.

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So easy



A light touch on the front using your hand or elbow is all that's required to open lift systems with SERVO-DRIVE for AVENTOS.

Even large and heavy fronts open effortlessly with gravity-defying ease. For the kitchen user, this means easy access to the cabinet interior.



Comfortable and easy closing: Provided by the easy to reach switch on the cabinet side.

This enables lift systems to close easily and ergonomically. The proven BLUMOTION function also ensures silent and effortless closing.



The complete focus is on the kitchen user



Completely safe even when closing

Even when the switch has just been pressed for closing – the closing procedure is halted immediately if the kitchen user again reaches into the cabinet and/or an object is placed between the cabinet and the front.



Completely under control

Even though lift systems open and close automatically: The kitchen user can interrupt the motion at any time. In addition, lift systems with SERVO-DRIVE for AVENTOS can also be easily opened and closed manually at any time, e.g. when there is a power failure.



Completely synchronised

Up to three drive units can be set for synchronised motion. Synchronisation is ideal for several cabinets that share one wide frontal.



No danger of collision

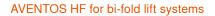
For corner solutions, it is especially important that lift system fronts do not open simultaneously. Thanks to the "collision avoidance" function, you can set drive units so that only one front opens at a time.



SERVO-DRIVE for AVENTOS – one system for all lift variants

SERVO-DRIVE for AVENTOS can be used with all four Blum lift system types: the bi-fold lift system, up & over lift system, lift up and stay lift. For inspirational ease-of-use for every lift system.





- The space requirement above the cabinet is minimised thanks to the two-part front.
- AVENTOS HF can also be used with fronts of different heights.



AVENTOS HS for up & over lift systems

- AVENTOS HS is ideal for large-area, single fronts.
- The space requirement above the cabinet is minimised due to the swivel motion.
- This system allows use of cornice or Crown moulding if desired.

Comfortable access

Because lift systems open upwards, this provides totally unhindered access to the cabinet interior.

Good accessibility

Pressing the easily accessible switch on the cabinet side is all that's required to close the lift system.

Many design options

Handle-less furniture, extra-wide fronts, Fronts constructed from heavy materials: SERVO-DRIVE for AVENTOS opens up many design opportunities for lift systems because opening and closing is always simple and comfortable.



interzum award: intelligent material & design 2009



AVENTOS HL for lift ups

- AVENTOS HL lift systems are ideal for mid height units, or tall units with further fronts above.
- AVENTOS HL is well-suited for small-area, single fronts.

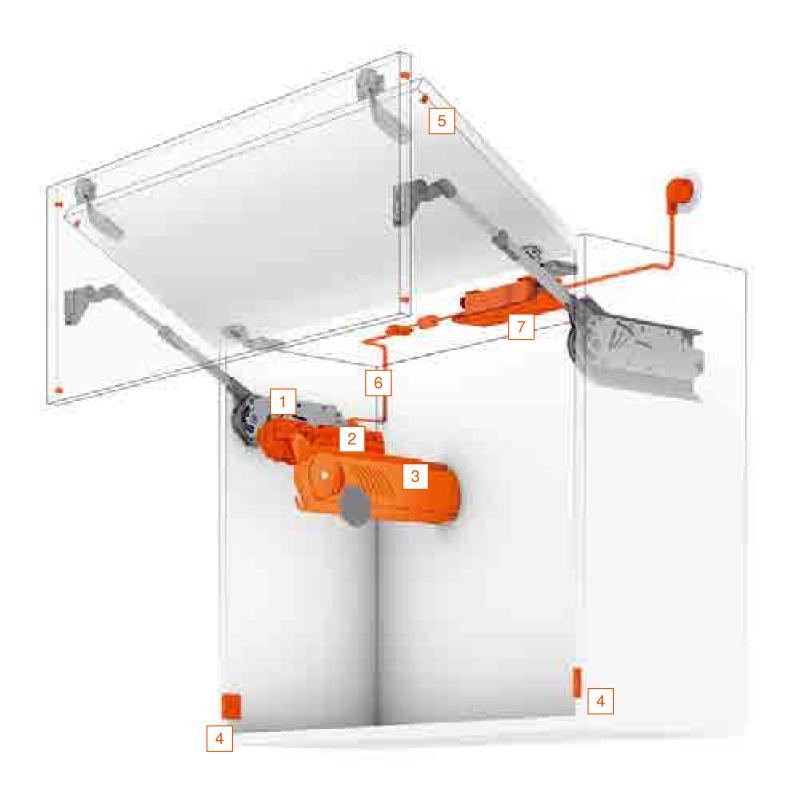


AVENTOS HK for stay lifts (schedule upon request)

- Ideal solution for wall cabinets with low frontal heights.
- Only a small amount of space is required above the cabinet due to lift system action.
- No hinges are required.



So well-coordinated with each other



SERVO-DRIVE – The individual components

After lift mechanism installation and adjustment, SERVO-DRIVE components are attached to the lift mechanism and cabinet.



* Available 2010



SERVO-DRIVE – one system for the **entire kitchen**

With SERVO-DRIVE, you will experience trouble free opening throughout the entire kitchen. Whether it's the base or wall cabinet – a single system automatically opens pull-outs & lift systems. Once installed, kitchen users will never again want to do without this level of comfort.

With SERVO-DRIVE for TANDEMBOX and TANDEM, there is also an electrical opening support system for pull-outs and drawers. The individual cabling components for the base and wall cabinet are the same. One transformer is all that's required for power supply to the entire kitchen.

SERVO-DRIVE can be deactivated easily – preferably via a switched outlet. This would be practical when cleaning fronts, for example.













Drilling made easy – with the drilling template for the SERVO-DRIVE switch

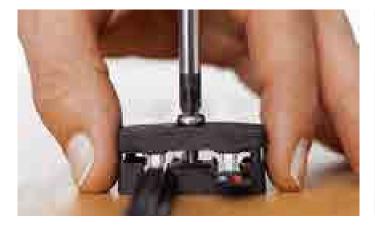
A ³/₄ drilling is required for the SERVO-DRIVE switch – either on the unattached or constructed cabinet side.



Assembly - practically tool-free

Most components can be attached tool-free, e.g. the drive unit, distance bumper or SERVO-DRIVE switch.

From assembly through to start-up



Cabling - quick and easy

The piercing technology makes cabling very easy. A few steps is all that's required to make the electrical connections. The cabling is very flexible, and can easily be customised to individual requirements.

Switch installation - fast & simple

The SERVO-DRIVE switch is attached to the cabinet side. Installation is very quick, simply locate switch in pre-drilled hole & apply hand pressure to inert.



Start-up – takes just a few seconds SERVO-DRIVE is easy to set up and operate thanks to the clearly defined function keys on the drive unit.

> When is the AVENTOS lift mechanism set correctly?

The lift mechanism must be set correctly in order to ensure optimal SERVO-DRIVE for AVENTOS functionality. If the lift system stops in any position when it is let go, then the lift mechanism is properly adjusted.

For more information, please see our complete AVENTOS brochure.



Frequently asked **QUESTIONS**

How is this different from the regular AVENTOS lift mechanism?

For the SERVO-DRIVE-compatible version, the lift mechanism has an additional elongated hole in which the drive unit can be inserted or clipped on during assembly.

? Can I retrofit SERVO-DRIVE for AVENTOS?

Yes, however you do require additional components depending on the lift system type:

- SERVO-DRIVE-compatible lift mechanism
- Special cover cap left (adjustable)
- Additional for AVENTOS HS and HL:
- Special lever arms
- Shorter cross stabiliser rod
- Modified stabiliser adapter



Do I need different drive units for different lift system types?

No. You can use the same drive unit for the following AVENTOS lift systems: the bi-fold lift system, up & over lift system and lift up.

Can I synchronise drive units?

Yes. Up to three drive units can be set so that they move simultaneously.

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Can I use asymmetrical fronts or fronts with aluminium frames?

Yes, these are both possible.

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Can SERVO-DRIVE for AVENTOS also be used with lift systems with handles?

Yes. You can use SERVO-DRIVE for AVENTOS with lift systems with or without handles. The handle is purely a design element in this case. Pulling the handle does not trigger the motion support system because SERVO-DRIVE for AVENTOS is only activated by a light touch on the front. In any event, the lift system can be opened manually at any time.

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Can I attached an opening angle stop?

Yes, this is possible – however only after drive unit installation and before start-up.

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Where are the SERVO-DRIVE switches located?

The SERVO-DRIVE switches are attached to the cabinet sides at the bottom. This makes them easy to reach for the kitchen user. This position also ensures that SERVO-DRIVE for AVENTOS functions optimally.

How does my customer know when the battery has to be replaced?

The SERVO-DRIVE switch contains a battery display. It flashes red when the battery needs to be replaced. Battery replacement is very simple. All you need is a common button cell battery (type CR 2032).

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What happens in the event of a power cut?

If the power fails, SERVO-DRIVE cannot be activated. However, you can continue to open and close manually. Once the power has been restored, SERVO-DRIVE for AVENTOS is again functional – no re-setting is required. If the power should fail while the lift system is in motion, it will stop in the in that position. Once the power has been restored, simply touch the SERVO-DRIVE switch to reactivate SERVO-DRIVE for AVENTOS. ?

Can SERVO-DRIVE for AVENTOS be deactivated?

Your customers can easily deactivate SERVO-DRIVE for AVENTOS, e.g. to clean the fronts. We recommend a switched outlet for this. While deactivated, the lift systems can continue to be opened and closed manually.

?

What if there is a warranty claim?

SERVO-DRIVE for AVENTOS underwent exhaustive testing in the Blum test lab: opening and closing 80.000 times.

When you combine SERVO-DRIVE with AVENTOS lift systems, you will benefit from a five-year warranty for all electrical components. In case of a warranty claim, please contact your Blum supplier.

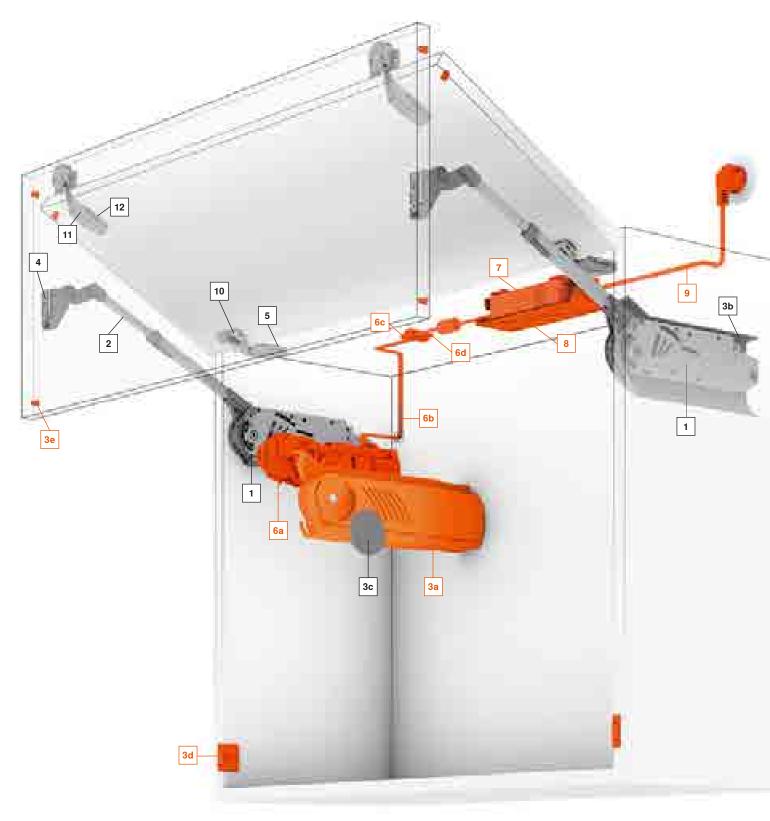
2

Where can I find additional documentation?

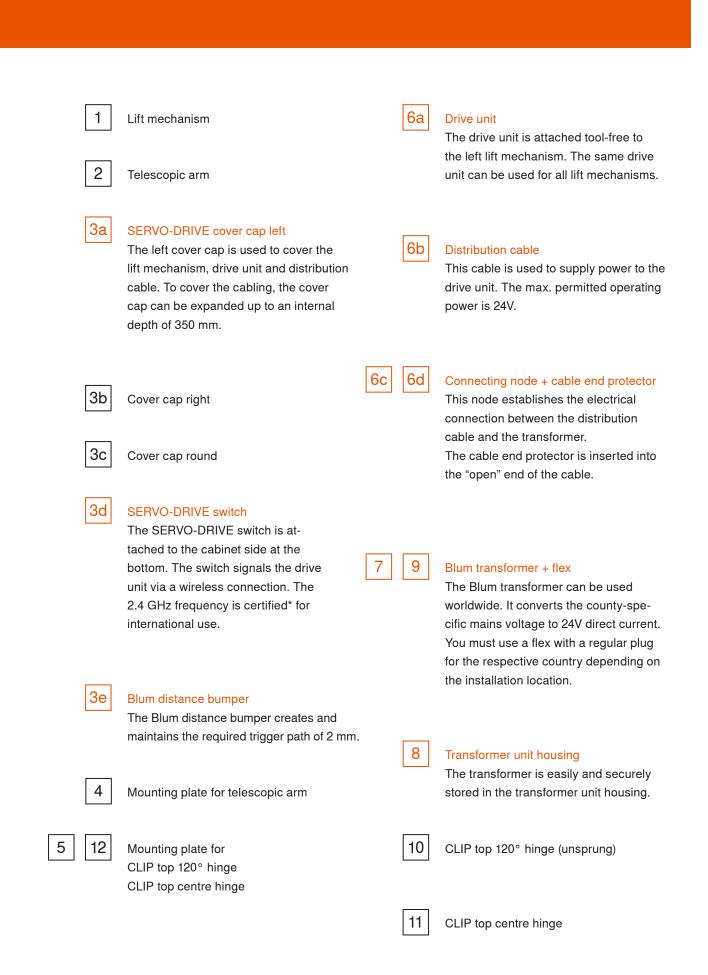
Documentation is available on our homepage at www.blum.com



AVENTOS HF

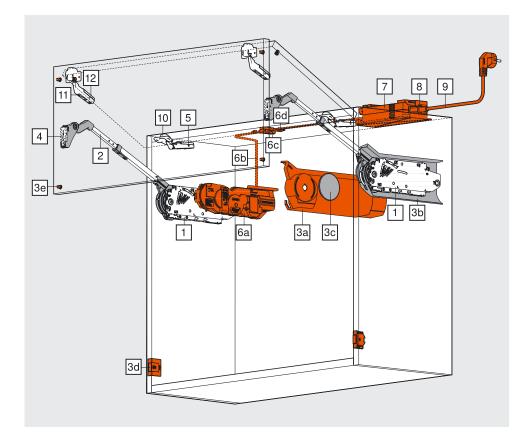


Standard SERVO-DRIVE



Order specifications

Wooden fronts and wide alu frames symmetrical/asymmetrical



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

Using the power factor, you can calculate which mechanisms you require. The power factor required depends on the combined weight of the two fronts 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.

i	This is how it's done!	Symmetrical fronts: Power factor = cabinet height (KH) [mm] x door weight
		Asymmetrical fronts: Theoretical cabinet height (TKH) = upper front height (FHo) x 2 (including gaps)

	LF 2.600-5.500		LF 9.000–17.250		
	20F2200.05		20F2800.05		
20F2200.05		20F2500.05		20F2800.0)5
LF 960-2.650		LF 5.350-10.150		LF 13.500–25	.9001)
Lift mechanisr	m one-sided	Lift mechanism two-sided	Additional 3rd lift mechanis	m	LF Power factor

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

¹⁾ We recommend two synchronised drive units for a power factor > 17.250.

1	Lift mechanism set for SERVO-DRIVE		2	Telescopic arm set		
A Care and	Power factor LF			Nickel plated steel		
	2.600-5.500	20F2200.05		Cabinet height ²⁾ 480-570 mm	20F3200	
	5.350-10.150	20F2500.05		Cabinet height ²⁾ 560-710 mm	20F3500	
Since 1	9.000–17.250	20F2800.05		Cabinet height ²⁾ 700-900 mm	20F3800	
	Composed of:			Cabinet height ²⁾ 760–1.040 mm	20F3900	
	2 x symmetrical lift mechanisms			Composed of:		
	10 x Chipboard screws Ø 4 x 35 mm			2 x symmetrical telescopic arms		
				²⁾ "Theoretical cabinet height" for asymmetrical fronts		



3	Cover cap set						
0	light grey, silk w	vhite					
			21F8000				
	Composed of:	:					
3a	1 x SERVO-DR	IVE cover cap left					
3b	1 x cover cap ri	ight					
3c	2 x round cover	r caps					
3d	2 x SERVO-DR	2 x SERVO-DRIVE switches					
3e	6 x Blum distan	6 x Blum distance bumpers Ø 5 mm					
4		e for telescopic arm					
		nounting plates with 0 mm dist	tance				
	Recommenda						
	Screws ³⁾	Spacing 0 mm	175H5400				
	EXPANDO	Spacing 0 mm	177H5400E				
	Knock-in	Spacing 0 mm	177H5100				
-							
5		e for CLIP top 120° hinge					
	Standard mour	nting plates, spacing depends	on the top gap				
	Recommenda	tion:					
	Screws ³⁾	Spacing 0 mm	175H5400				
	EXPANDO, knock	k-in, see position 4					
6	SERVO-DRIVE	set					
1052			21FA000				
No.	Composed of:	:					
6a	1 x drive unit						
6b	1 x distribution	cable, 1.500 mm					
6c	1 x connecting	node					
6d	2 x cable end p	rotectors					
	L						
10	CLIP top 120°	hinge					
	Boss: Steel boss	Screws ³⁾	70T5550.TL				
	Steel boss	Unsprung					
-	Boss:	INSERTA	70T5590BTL				
	Steel boss	Unsprung					
11	CLIP top centr	re hinge					
	Boss: Zing boog	Screws ³⁾	78Z5500T				
	Zinc boss	Unsprung					
			70755057				
	Boss:	EXPANDO	78Z553ET				
	Boss: Zinc boss	EXPANDO Unsprung	782553ET				
			782953E1				
		Unsprung	782553ET				
	Zinc boss	Unsprung lot	782553E1				

2	Mounting plate for CLIP top centre hinge					
	Standard mountin	ng plates with 0 mm distance				
	Recommendatio	n:				
	Screws ³⁾	Spacing 0 mm	175H5400			
	Only use a cruciform mounting plate for wide alu frames under a 55 mm frame width					
	EXPANDO, knock-in, see position 4					
	Opening angle s	top				
	Nylon, dark grey					
The second	104°		20F7051			
	83°		20F7011			

Instruction leaflet and installation instructions

Including documentation for the Machine Directive

MA-400	German	MA-021/01 DE
MA-400	English	MA-021/01 EN
MA-400	French	MA-021/01 FR
MA-400	Italian	MA-021/01 IT
MA-400	Spanish	MA-021/01 ES
MA-400	Bulgarian	MA-021/01 BG*
MA-400	Chinese	MA-021/01 ZH*
MA-400	Danish	MA-021/01 DA*
MA-400	Estonian	MA-021/01 ET*
MA-400	Finnish	MA-021/01 FI*
MA-400	Greek	MA-021/01 EL*
MA-400	Japanese	MA-021/01 JA*
MA-400	Croatian	MA-021/01 HR*
MA-400	Latvian	MA-021/01 LV*
MA-400	Lithuanian	MA-021/01 LT*
MA-400	Dutch	MA-021/01 NL*
MA-400	Norwegian	MA-021/01 NO*
MA-400	Polish	MA-021/01 PL*
MA-400	Portuguese	MA-021/01 PT*
MA-400	Romanian	MA-021/01 RO*
MA-400	Russian	MA-021/01 RU*
MA-400	Swedish	MA-021/01 SV*
MA-400	Serbian	MA-021/01 SR*
MA-400	Slovakian	MA-021/01 SK*
MA-400	Slovenian	MA-021/01 SL*
MA-400	Czech	MA-021/01 CS*
MA-400	Turkish	MA-021/01 TR*
MA-400	Hungarian	MA-021/01 HU*
* Available sta	arting 01/2010	

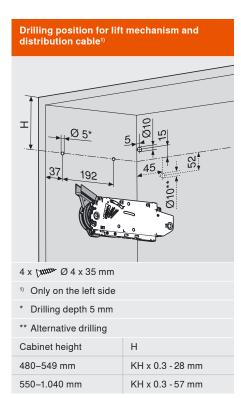
	7, 8, 9	Blum transformer, flex and transformer unit housing	
BIT-PZ KS2		Page	47

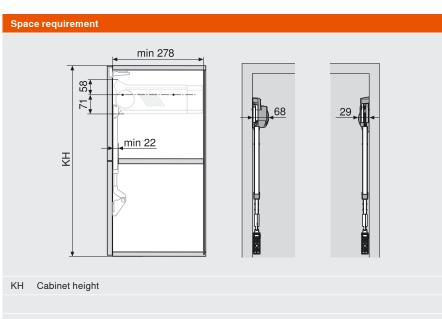
³⁾ Use chipboard screws (609.1x00) for wooden fronts. Use self tapping screws (608.085) for wide alu frames.



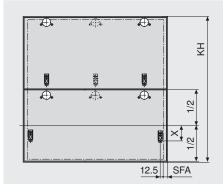
Planning Information

Wooden fronts and wide alu frames symmetrical





Front assembly



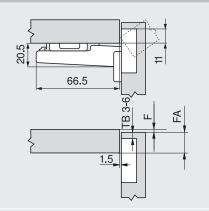
- KH Cabinet height
- SFA Side front overlay

Number of Hinges

3 hinges starting at cabinet width 1.200 mm and/or 12 kg door weight 4 hinges starting at cabinet width 1.800 mm and/or 20 kg door weight

Cabinet height	X Screw-on/ EXPANDO	X Knock-in
480–549 mm	68 mm	70 mm
550–1.040 mm	45 mm	47 mm

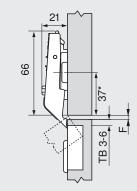
CLIP top 120° hinge unsprung



F Gap

Drilling distance TB Front overlay FA 5 6 7 8 9 10 11 12 13 14 15 16 17 0 3 4 5 6 3 4 5 6 3 6 3 4 5 6 9 4 5 6 3 A Mounting plate

CLIP top centre hinge



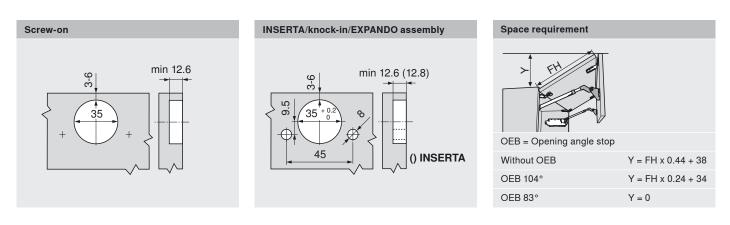
* 37 mm for cruciform mounting plates (37/32)

Min. gap F = 1.5 mm

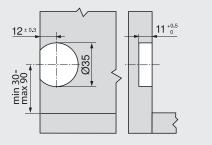
Drilling distance TB

	Centre gap F						
		3		5			
0		6	5	4	3		
3							
6							
9							
A Mounting plate							

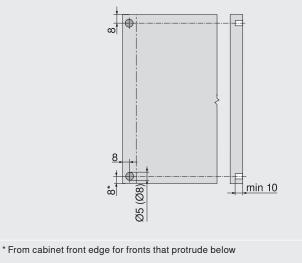




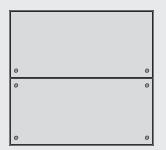
SERVO-DRIVE switch



Blum distance bumper drilling position



Blum distance bumper

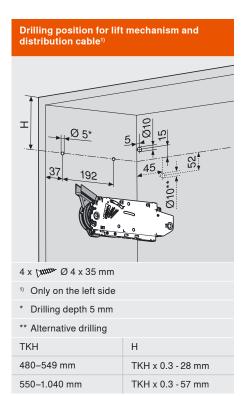


Recommendation for aluminium frames: consider drilling the Blum distance bumper into the cabinet end panel. A trial application must be carried out when fixing the Blum distance bumper to the front. Do not glue Blum distance bumper. Blum distance bumper assembly, see page 46

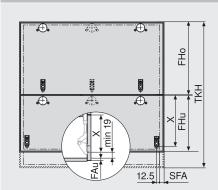


Planning Information

Wooden fronts and wide alu frames asymmetrical



Front assembly



Min. lower front height X + 19 + FAu

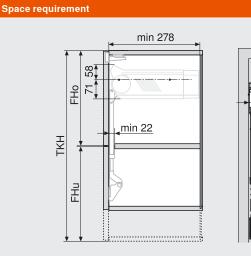
- FHo Upper front height
- TKH Theoretical cabinet height
- SFA Side front overlay

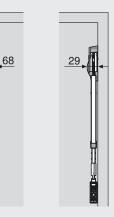
FAu Lower front overlay

Number of Hinges

3 hinges starting at cabinet width 1.200 mm and/or 12 kg door weight 4 hinges starting at cabinet width 1.800 mm and/or 20 kg door weight

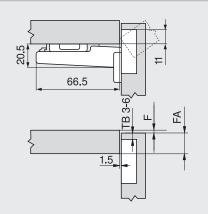
ТКН	X Screw-on/ EXPANDO	X Knock-in		
480–549 mm	FHo/2 + 68 mm	FHo/2 + 70 mm		
550–1.040 mm	FHo/2 + 45 mm	FHo/2 + 47 mm		





- TKH Theoretical cabinet height
- KH Cabinet height
- FHo Upper front height
- FHu Lower front height

CLIP top 120° hinge unsprung

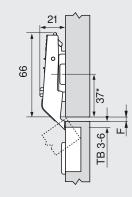


F Gap

Drilling distance TB

	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									
	Mounting plate												

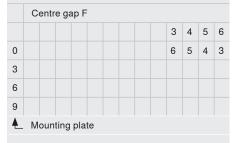
CLIP top centre hinge



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

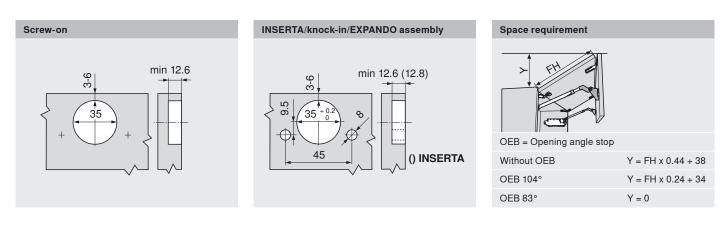
Min. gap F = 1.5 mm

Drilling distance TB

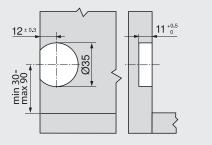


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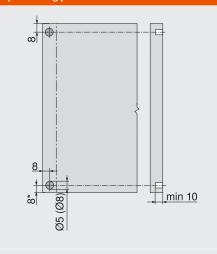




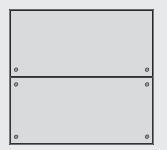
SERVO-DRIVE switch



Blum distance bumper drilling position



Blum distance bumper



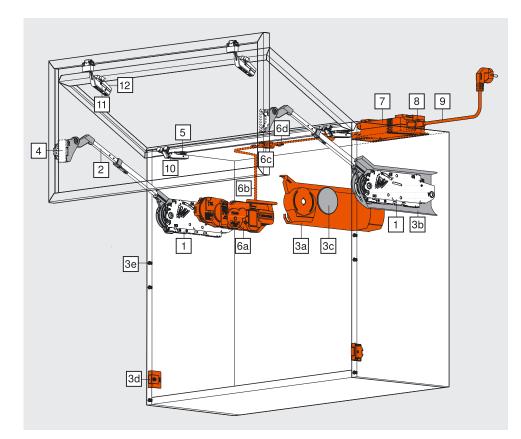
* From cabinet front edge for fronts that protrude below
Recommendation for aluminium frames: consider drilling the Blum distance bumper into the cabinet end panel. A trial application must be carried out when fixing the Blum distance bumper to the front.
i Do not glue Blum distance bumper.

Blum distance bumper assembly, see page

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Narrow alu 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 larger front must be at the top for asymmetrical fronts.

i	This is how it's done!	ne! Symmetrical fronts: Power factor = cabinet height (KH) [mm] x door weight						
	Asymmetrical fronts: Theoretical cabinet height (TKH) = upper front height (FHo) x 2 (including gaps)							
	LF 2.600 20F2 2		LF 9.000–17.250 20F2800.05					

	20F2800.05		20F2200.05		
		20F2500.05		20F2200.05	
	-	LF 5.350-10.150		LF 960-2.650	
LF Power factor		ift mechanism two-sided	one-sided	Lift mechanis	

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

1	Lift mechanism set for SERVO-DRIVE		2	Telescopic arm set	
And a	Power factor LF			Nickel plated steel	
	2.600-5.500	20F2200.05	A.	Cabinet height ¹⁾ 480–570 mm	20F3200
Contraction of the second	5.350-10.150	20F2500.05		Cabinet height ¹⁾ 560-710 mm	20F3500
Same -	9.000–17.250	20F2800.05		Cabinet height ¹⁾ 700–900 mm	20F3800
	Composed of:			Cabinet height ¹⁾ 760-1.040 mm	20F3900
	2 x symmetrical lift mechanisms			Composed of:	
	10 x chipboard screws Ø 4 x 35 mm		10 x chipboard screws Ø 4 x 35 mm	2 x symmetrical telescopic arms	
				¹⁾ "Theoretical cabinet height" for asymmetrical	fronts



BIT-PZ KS2

3	Cover cap set	
	light grey, silk white	21F8000
	Composed of:	
3a	1 x SERVO-DRIVE cover cap left	
3b	1 x cover cap right	
3c	2 x round cover caps	
3d	2 x SERVO-DRIVE switches	
3e	6 x Blum distance bumpers Ø 5 mm	
4	CLIP adapter plate for telescopic arms	
	Spacing 0 mm left/right	175H5B00
5	Mounting plate for CLIP top 120° hinge	

5	Mounting plate for CLIP top 120° hinge		
	Standard mounting the top gap	ng plates, spacing depends or	ı
	Recommendation	on:	
	Screw-on	Spacing 0 mm	175H5400
	EXPANDO	Spacing 0 mm	177H5400E
	Knock-in	Spacing 0 mm	177H5100

6	SERVO-DRIVE set	
		21FA000
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
Ň	Composed of:	
6a	1 x drive unit	
6b	1 x distribution cable, 1.500 mm	
6c	1 x connecting node	
6d	2 x cable end protectors	

10	CLIP top 120°	alu frame hinge	
	Boss: Zinc boss	Screw-on Unsprung	72T550A.TL

11	CLIP top alu fra	me centre hinge	
	Boss: Zinc boss	Screw-on Unsprung	78Z550AT

12	CLIP adapter plate for centre hinges	
	Symmetrical	
		175H5A00

	Opening angle stop	
	Nylon, dark grey	
7	104°	20F7051
	83°	20F7011

# Bit PZ cross slot Size 2, length 39 mm

### Instruction leaflet and installation instructions

Including documentation for the Machine Directive

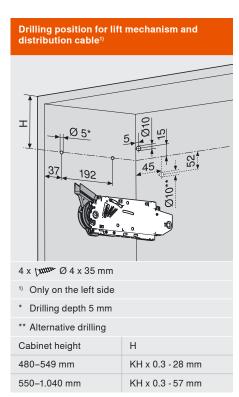
MA-400	German	MA-021/01 DE
MA-400	English	MA-021/01 EN
MA-400	French	MA-021/01 FR
MA-400	Italian	MA-021/01 IT
MA-400	Spanish	MA-021/01 ES
MA-400	Bulgarian	MA-021/01 BG*
MA-400	Chinese	MA-021/01 ZH*
MA-400	Danish	MA-021/01 DA*
MA-400	Estonian	MA-021/01 ET*
MA-400	Finnish	MA-021/01 FI*
MA-400	Greek	MA-021/01 EL*
MA-400	Japanese	MA-021/01 JA*
MA-400	Croatian	MA-021/01 HR*
MA-400	Latvian	MA-021/01 LV*
MA-400	Lithuanian	MA-021/01 LT*
MA-400	Dutch	MA-021/01 NL*
MA-400	Norwegian	MA-021/01 NO*
MA-400	Polish	MA-021/01 PL*
MA-400	Portuguese	MA-021/01 PT*
MA-400	Romanian	MA-021/01 RO*
MA-400	Russian	MA-021/01 RU*
MA-400	Swedish	MA-021/01 SV*
MA-400	Serbian	MA-021/01 SR*
MA-400	Slovakian	MA-021/01 SK*
MA-400	Slovenian	MA-021/01 SL*
MA-400	Czech	MA-021/01 CS*
MA-400	Turkish	MA-021/01 TR*
MA-400	Hungarian	MA-021/01 HU*
* Available st	arting 01/2010	

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



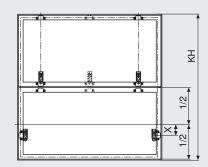
# **Planning Information**

### Narrow alu frames symmetrical



# <section-header>Space requirementImage: Space require

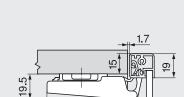
### Front assembly



### KH Cabinet height

Number of Hinges 3 hinges starting at cabinet width 1.200 mm and/or 12 kg door weight 4 hinges starting at cabinet width 1.800 mm and/or 20 kg door weight

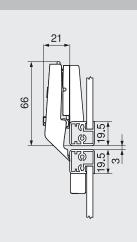
Cabinet height X	
480–549 mm 54 mm	
550–1.040 mm 31 mm	



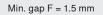
66.5

CLIP top 120° alu frame hinge

unsprung



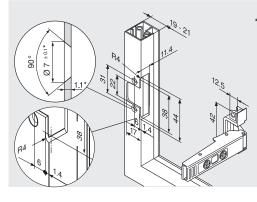
CLIP top alu frame centre hinge



An adjustment has to be made for frame thicknesses over 20.5 mm

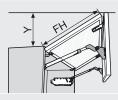


### Front assembly



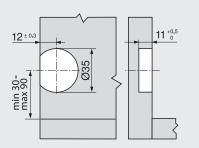
* When changing material thickness, adjust the assembly dimensions accordingly

### Space requirement

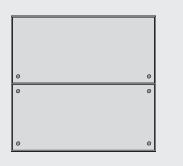


OEB = Opening angle stop	
Without OEB	Y = FH x 0.44 + 38
OEB 104°	Y = FH x 0.24 + 34
OEB 83°	Y = 0

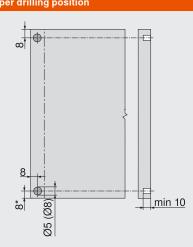
### SERVO-DRIVE switch



### Blum distance bumper



### Blum distance bumper drilling position



* From cabinet front edge for fronts that protrude below

Recommendation for aluminium frames: consider drilling the Blum distance bumper into the cabinet end panel. A trial applica-tion must be carried out when fixing the Blum distance bumper to the front.

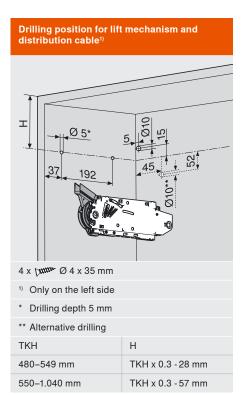
i Do not glue Blum distance bumper.

Blum distance bumper assembly, see page

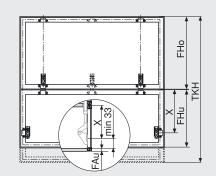


# **Planning Information**

### Narrow alu frames asymmetrical



### Front assembly



Min. lower front height X + 33 + FAu

FHo Upper front height

- TKH Theoretical cabinet height
- FHu Lower front height

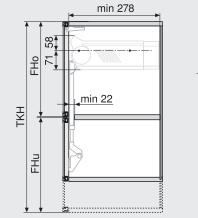
### FAu Lower front overlay

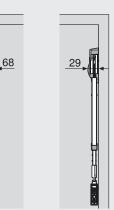
Number of Hinges

3 hinges starting at cabinet width 1.200 mm and/or 12 kg door weight 4 hinges starting at cabinet width 1.800 mm and/or 20 kg door weight

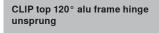
ТКН	Х
480–549 mm	FHo/2 + 54 mm
550–1.040 mm	FHo/2 + 31 mm

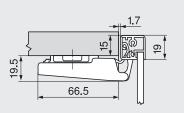


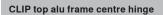


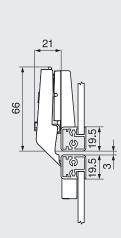


- TKH Theoretical cabinet height
- KH Cabinet height
- FHo Upper front height
- FHu Lower front height







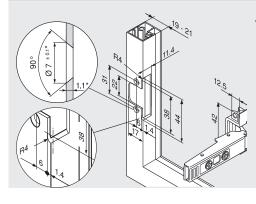




An adjustment has to be made for frame thicknesses over 20.5 mm

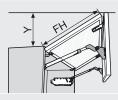


### Screw-on



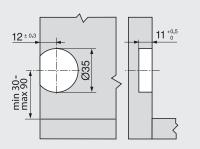
* When changing material thickness, adjust the assembly dimensions accordingly

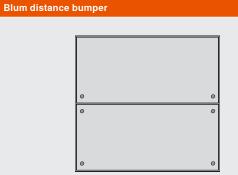
### Space requirement



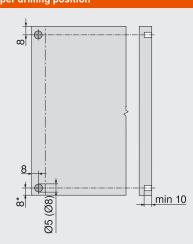
OEB = Opening angle stop	
Without OEB	Y = FH x 0.44 + 38
OEB 104°	Y = FH x 0.24 + 34
OEB 83°	Y = 0

### SERVO-DRIVE switch



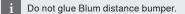


### Blum distance bumper drilling position



* From cabinet front edge for fronts that protrude below

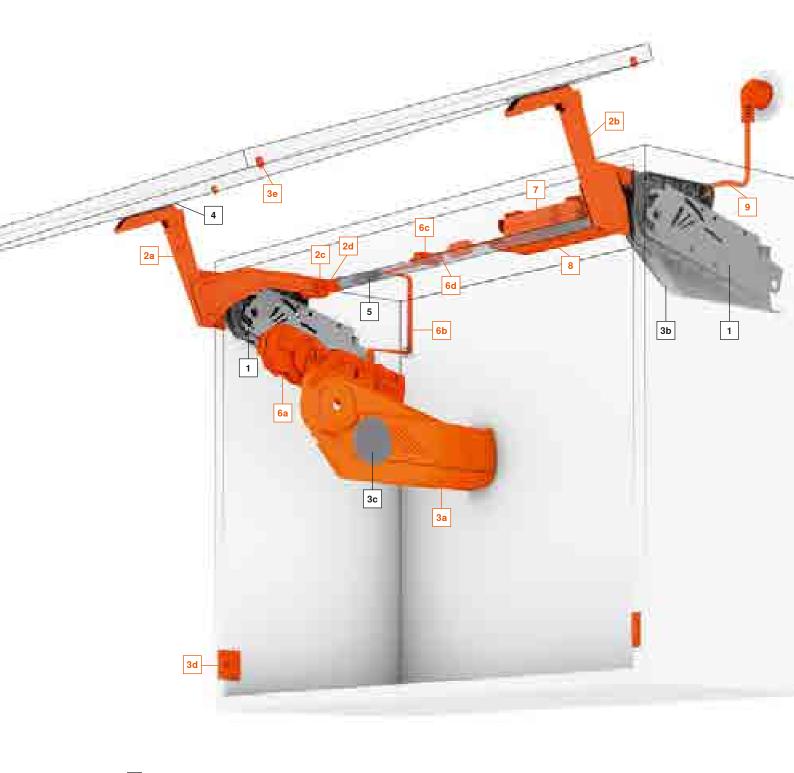
Recommendation for aluminium frames: consider drilling the Blum distance bumper into the cabinet end panel. A trial applica-tion must be carried out when fixing the Blum distance bumper to the front.



Blum distance bumper assembly, see page



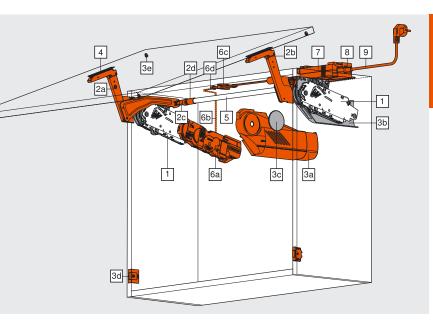
# AVENTOS HS



Standard SERVO-DRIVE







1

2a C Ċ

4

Lift mechanism set for SERVO-DRIVE		
Cabinet height 350-525	20S2A00.05	20S2B0

Cabinet height 350–525	20S2A00.05	20S2B00.05	20S2C00.05
Cabinet height 526-675	20S2D00.05	20S2E00.05	20S2F00.05
Cabinet height 676-800	20S2G00.05	20S2H00.05	20S2I00.05

2 x symmetrical lift mechanisms

Composed of:

10 x chipboard screws, Ø 4 x 35 mm

a + 2b	SERVO-DRIVE lever arm set	
	Steel, nickel plated	21S3500
	Composed of:	
	2 x SERVO-DRIVE lever arms left/right	
	2 x stabiliser adapters (steel)	
	2 x cross stabiliser cover caps	

3	Cover cap set	
(O)	light grey, silk white	
		21S8000
	Composed of:	
3a	1 x SERVO-DRIVE cover cap left	
3b	1 x cover cap right	
3c	2 x round cover caps	
3d	2 x SERVO-DRIVE switches	
3e	4 x Blum distance bumpers	

		Front fixing bracket set	
	Nickel plated		
	Wooden fronts and wide alu frames ¹⁾	20\$4200	
	Narrow alu frames	20S4200A	
		Composed of: 2 x symmetrical front fixing brackets	
		¹⁾ Use 4 chipboard screws (609.1x00) for wooden fronts.	

Use 4 self tapping screws (608.085) for wide alu frames.



### Connecting piece for cross stabiliser set Alu, Ø 16 mm, cabinet width 1.219 mm and higher 21Q126Z Composed of:

1 x connecting piece, 1 x fixing, 2 x connectors (steel), 2 x cover caps

# Order specifications

5	Cross stabiliser rod round	
0	Alu, Ø 16 mm	
	For cutting to size, 1.061 mm	20Q1061U

6	SERVO-DRIVE set	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		21FA000
Ň	Composed of:	
6a	1 x drive unit	
6b	1 x distribution cable, 1.500 mm	
6c	1 x connecting node	
6d	2 x cable end protectors	

Instruction leaflet and installation instructions

Including documentation for the Machine Directive

MA-400	German	MA-021/01 DE
MA-400	English	MA-021/01 EN
MA-400	French	MA-021/01 FR
MA-400	Italian	MA-021/01 IT
MA-400	Spanish	MA-021/01 ES
MA-400	Bulgarian	MA-021/01 BG*
MA-400	Chinese	MA-021/01 ZH*
MA-400	Danish	MA-021/01 DA*
MA-400	Estonian	MA-021/01 ET*
MA-400	Finnish	MA-021/01 FI*
MA-400	Greek	MA-021/01 EL*
MA-400	Japanese	MA-021/01 JA*
MA-400	Croatian	MA-021/01 HR*
MA-400	Latvian	MA-021/01 LV*
MA-400	Lithuanian	MA-021/01 LT*
MA-400	Dutch	MA-021/01 NL*
MA-400	Norwegian	MA-021/01 NO*
MA-400	Polish	MA-021/01 PL*
MA-400	Portuguese	MA-021/01 PT*
MA-400	Romanian	MA-021/01 RO*
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MA-400	Swedish	MA-021/01 SV*
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MA-400	Slovenian	MA-021/01 SL*
MA-400	Czech	MA-021/01 CS*
MA-400	Turkish	MA-021/01 TR*
MA-400	Hungarian	MA-021/01 HU*
* Available st	arting 01/2010	

7, 8, 9	Blum transformer, flex and transformer unit housing	
	Page	47



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

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

Example: Cabinet height KH = 600 mm Weight of front = 10 kg Lift mechanism selection =



Cabinet height KH = 602 mm rounded to KH = 600 mm Cabinet height KH = 603 mm rounded to KH = 605 mm

	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	12.75–21.50
685	3.50-8.00	7.00–13.25	12.75–21.50
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
(1111) (1111)	2032000.03	2052200.05	20321-00.05
675	3.00-5.25	5.00-11.00	09.75–19.00
670	3.00-5.25	5.00-11.00	09.75–19.00
665	3.00-5.25	5.00-11.00	09.75–19.00
660	3.00-5.50	5.25-11.25	10.00–19.00

655

650

645

640

635

630

625

3.00-5.50

3.00-5.50

3.00-5.50

3.00-5.50

3.00-5.50

3.00-5.75

3.00-5.75

5.25-11.25

5.25-11.25

5.25-11.25

5.25-11.25

5.25-11.50

5.50-11.50

5.50-11.50

10.00–19.00

10.00-19.00

10.00–18.75

10.25-18.75

10.00-18.75

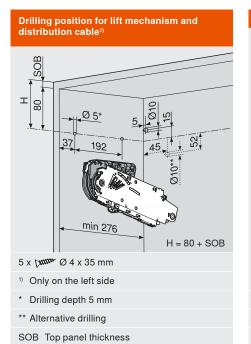
10.25-18.75

10.25-18.75

620	3.00-5.75	5.50-11.50	10.25–18.75
615	3.00-5.75	5.50-11.50	10.25–18.75
610	3.00-6.00	5.50-11.75	10.50–18.50
605	3.00-6.00	5.50-11.75	10.50–18.50
600	3.00-6.00	5.50-11.75	10.50-18.50
595	3.00-6.00	5.50-11.75	10.50–18.50
590	3.00-6.00	5.50-12.00	10.75–18.25
585	3.00-6.25	5.75-12.00	10.75–18.25
580	3.00-6.25	5.75-12.00	11.00-18.00
575	3.00-6.25	5.75-12.00	11.00–18.00
570	3.00-6.25	5.75-12.25	11.25–17.75
565	3.00-6.25	5.75-12.25	11.25–17.75
560	3.00-6.50	6.00-12.25	11.25–17.50
555	3.00-6.50	6.00-12.50	11.50–17.50
550	3.00-6.50	6.00-12.50	11.50–17.25
545	3.00-6.50	6.00-12.50	11.50–17.25
540	3.00-6.50	6.00-12.75	11.75–17.00
535	3.00-6.75	6.25-12.75	11.75–16.75
530	3.00-6.75	6.25-12.75	11.75–16.75
526	3.00-6.75	6.25-13.00	12.00-16.50

KH (mm)	20S2A00.05	20S2B00.05	20S2C00.05
525	2.50-4.00	3.25-7.50	7.25–15.00
520	2.50-4.00	3.50-7.50	7.25-15.00
515	2.50-4.00	3.50-7.50	7.25–14.75
510	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
500	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
490	2.50-4.25	3.75-8.00	7.75–14.50
485	2.50-4.25	3.75-8.00	7.75–14.25
480	2.50-4.25	3.75-8.00	7.75–14.25
475	2.50-4.25	3.75-8.00	7.75–14.00
470	2.50-4.25	4.00-8.25	8.00-14.00
465	2.25-4.25	4.00-8.25	8.00-13.75
460	2.25-4.25	4.00-8.25	8.00-13.75
455	2.25-4.25	4.00-8.50	8.25-13.50
450	2.25-4.25	4.00-8.50	8.25-13.50
445	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	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
395	2.00-4.75	4.50-9.00	8.75–11.75
390	2.00-4.75	4.50-9.00	8.75–11.50
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	2.00-4.75	4.50-9.25	9.00-11.00
365	2.00-4.75	4.50-9.25	9.00-11.00
360	2.00-4.75	4.50-9.50	9.25-10.75
355	2.00-4.75	4.50-9.50	9.25-10.50
350	2.00-5.00	4.50-9.50	9.25-10.50

Planning Information



<image>

Planning narrow alu frames

Ă

<u>SFA</u>

12.5

196.5

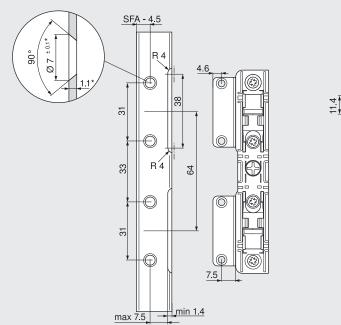
32

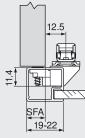
32

32

Wooden fronts and

wide alu frames²⁾





Narrow alu frames

Front assembly

197

SFA

15.5

FAo Upper front overlay

SFA Side front overlay

If cabinet is mounted against wall on left/right, then a 5 mm (min.) gap between edge of frontal & wall is required.

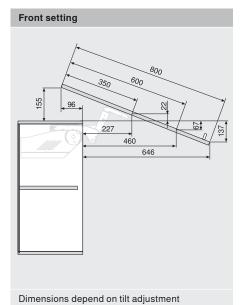
²) Use 4 chipboard screws (609.1x00) for wooden fronts. Use 4 self tapping screws (608.085) for wide alu frames.

SFA Side front overlay

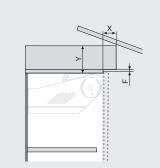
For frame width 19 mm: SFA of 11-18 mm possible

* When changing material thickness, adjust the assembly dimensions accordingly



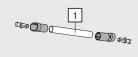


Cornice and crown moulding clearance



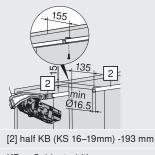
Gap F	X max	Y max
3 mm	35 mm	101 mm
2 mm	31 mm	101 mm
1.5 mm	28 mm	101 mm

Cross stabiliser



[1] KB (KS 16-19 mm) -193 mm and/or inner width -155 mm

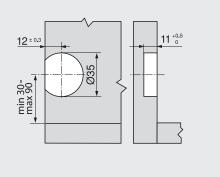
Connecting piece



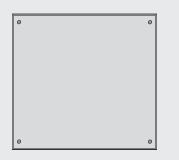
KB Cabinet width

KS Cabinet thickness

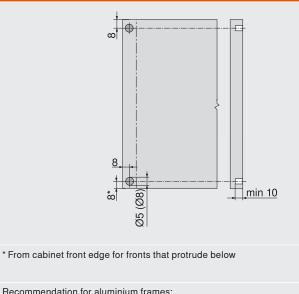
SERVO-DRIVE switch



Blum distance bumper



Blum distance bumper drilling position



Recommendation for aluminium frames: consider drilling the Blum distance bumper into the cabinet end panel. A trial application must be carried out when fixing the Blum distance bumper to the front.

Do not glue Blum distance bumper.

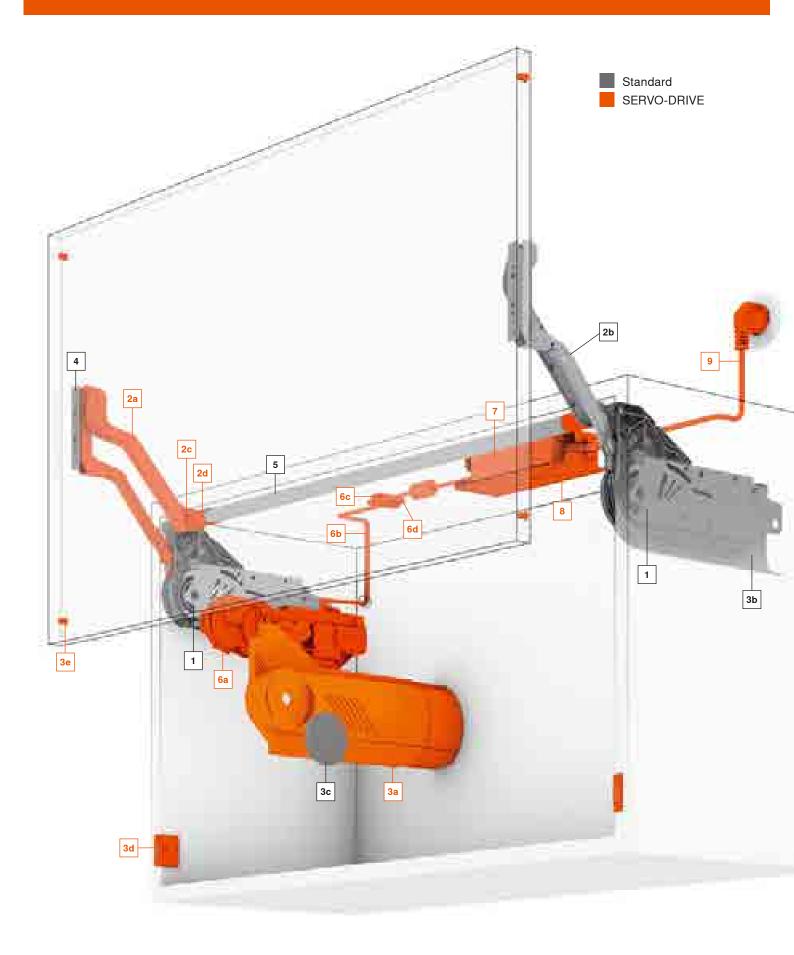
Blum distance bumper assembly, see page



46

i

AVENTOS HL

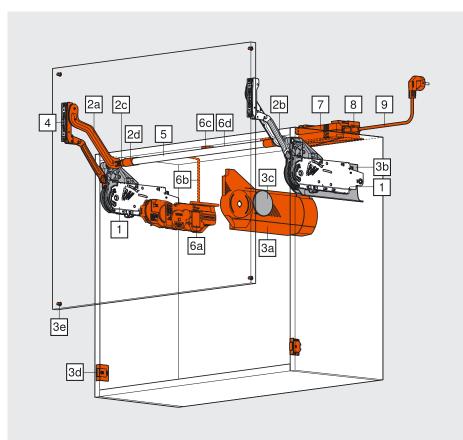




* Available 2010

Ablum

Order specifications



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

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

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

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

20L2500.05 Cabinet height 350–399 mm 21 20L2700.05 Cabinet height 400–550 mm 21 Composed of: Composed of: Composed of:	1	Lift mechanism set for SERVO-DRIVE	2	SERVO-DRIVE lever arm set	
20L2300.05 Cabinet height 300–349 mm 21 20L2500.05 Cabinet height 350–399 mm 21 Cabinet height 400–550 mm 21 Composed of: Composed of: Composed of:		20L2100.05		Nickel plated steel	
20L2700.05 Cabinet height 400–550 mm 21 20L2900.05 Cabinet height 450–580 mm 21 Composed of: Composed of: Composed of:		20L2300.05		Cabinet height 300-349 mm	21L3200
20L2700.05 Cabinet height 400–550 mm 21 20L2900.05 Cabinet height 450–580 mm 21 Composed of: Composed of: Composed of:		20L2500.05	200	Cabinet height 350–399 mm	21L3500
Composed of: Composed of:		20L2700.05	ସର ୩୦ ୩୦	Cabinet height 400-550 mm	21L3800
	States .	20L2900.05		Cabinet height 450–580 mm	21L3900
2 x symmetrical lift machanisms 2a 1 x SERVO DRIVE layor arm laft		Composed of:		Composed of:	
		2 x symmetrical lift mechanisms	2a	1 x SERVO-DRIVE lever arm left	
10 x chipboard screws, Ø 4 x 35 mm 2b 1 x lever arm right		10 x chipboard screws, Ø 4 x 35 mm	2b	1 x lever arm right	
6b 2 x oval stabiliser adapters (steel)			6b	2 x oval stabiliser adapters (steel)	
6c 2 x oval cross stabiliser cover caps			6c	2 x oval cross stabiliser cover caps	



3	Cover cap set
	light grey, silk white
	Composed of:
3a	1 x SERVO-DRIVE cover cap left
3b	1 x cover cap right
3c	2 x round cover caps
3d	2 x SERVO-DRIVE switches
3e	4 x Blum distance bumpers Ø 5 mm



Connecting piece for cross stabiliser set

	Alu, Ø 16 mm,	
	cabinet width 1.219 mm and higher	21Q126ZA
Õ		
7	Composed of:	
	1 x connecting piece	
	1 x fixing	
	2 x attachments (steel)	
	2 x cover caps	

Instruction leaflet and installation instructions

Including documentation for the Machine Directive

MA-400	German	MA-021/01 DE
MA-400	English	MA-021/01 EN
MA-400	French	MA-021/01 FR
MA-400	Italian	MA-021/01 IT
MA-400	Spanish	MA-021/01 ES
MA-400	Bulgarian	MA-021/01 BG*
MA-400	Chinese	MA-021/01 ZH*
MA-400	Danish	MA-021/01 DA*
MA-400	Estonian	MA-021/01 ET*
MA-400	Finnish	MA-021/01 FI*
MA-400	Greek	MA-021/01 EL*
MA-400	Japanese	MA-021/01 JA*
MA-400	Croatian	MA-021/01 HR*
MA-400	Latvian	MA-021/01 LV*
MA-400	Lithuanian	MA-021/01 LT*
MA-400	Dutch	MA-021/01 NL*
MA-400	Norwegian	MA-021/01 NO*
MA-400	Polish	MA-021/01 PL*
MA-400	Portuguese	MA-021/01 PT*
MA-400	Romanian	MA-021/01 RO*
MA-400	Russian	MA-021/01 RU*
MA-400	Swedish	MA-021/01 SV*
MA-400	Serbian	MA-021/01 SR*
MA-400	Slovakian	MA-021/01 SK*
MA-400	Slovenian	MA-021/01 SL*
MA-400	Czech	MA-021/01 CS*
MA-400	Turkish	MA-021/01 TR*
MA-400	Hungarian	MA-021/01 HU*
* Available s	tarting 01/2010	

4	Front fixing bracket set	
4	Nickel plated	
	Wooden fronts and wide alu frames ¹⁾	
		20S4200
	Narrow alu frames	20S4200A
	Composed of:	
	2 x symmetrical front fixing brackets	
	¹⁾ Use 4 chipboard screws (609.1x00) for wooden front Use 4 self tapping screws (608.085) for wide alu fran	

5	Cross stabiliser rod oval	
	Alu	
	For cutting to size, 1.061 mm	20Q1061UA

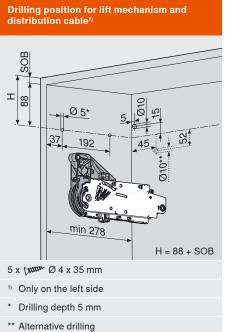
6	SERVO-DRIVE set	
**		21FA000
	Composed of:	
6a	1 x drive unit	
6b	1 x distribution cable, 1.500 mm	
6c	1 x connecting node	
6d	2 x cable end protectors	

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

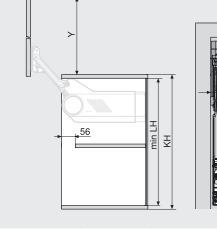
7, 8, 9	Blum transformer, flex and transformer unit housing	
	Page	47



Planning Information



Space requirement

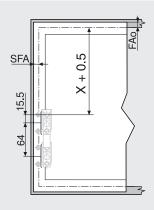


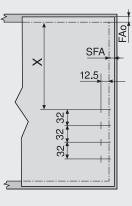


Lever arm	min LH (mm)*	Y (mm)*	LH	Internal cabinet height
21L3200	262	264	КН	Cabinet height
21L3500	312	352		
21L3800	362	440	* Dim	ensions apply to lower gap = 0 mm
21L3900	412	529		

Front assembly

SOB Top panel thickness





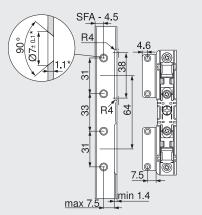
Narrow alu frames

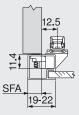
Wooden fronts and wide alu $\ensuremath{\mathsf{frames}}^{\ensuremath{\mathsf{2}}\xspace}$

Lever arm	X (mm)	FAo Upper front overlay	
21L3200	153	SFA Side front overlay	
21L3500	203	If cabinet is mounted against wall on left/righ then a 5 mm (min.) gap between edge of fror & wall is required.	
21L3800	253		
21L3900	303		

²⁾ Use 4 chipboard screws (609.1x00) for wooden fronts. Use 4 self tapping screws (608.085) for wide alu frames.

Planning narrow alu frames





SFA Side front overlay

For frame width 19 mm: SFA of 11-18 mm possible

* When changing material thickness, adjust the assembly dimensions accordingly

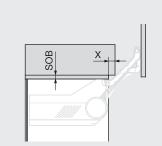


Front setting

Lever arm	a (mm)*	b (mm)*
21L3200	114	257
21L3500	146	345
21L3800	178	433
21L3900	210	522

* Dimensions apply to lower gap = 0 mm

Cornice/Crown moulding clearance



SOB (mm)	X (mm)
16	28
18	30
19	31

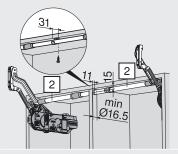
SOB Top panel thickness

Cross stabiliser



[1] KB (KS 16–19 mm) -193 mm and/or inner width -155 mm

Connecting piece

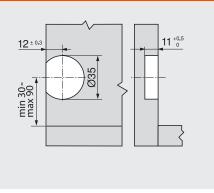


[2] half KB (KS 16-19 mm) -193 mm

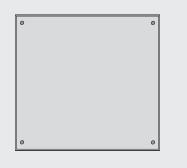
KB Cabinet width

KS Cabinet thickness

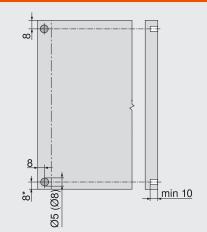
SERVO-DRIVE switch



Blum distance bumper



Blum distance bumper drilling position



* From cabinet front edge for fronts that protrude below

Recommendation for aluminium frames: consider drilling the Blum distance bumper into the cabinet end panel. A trial application must be carried out when fixing the Blum distance bumper to the front.

Do not glue Blum distance bumper.

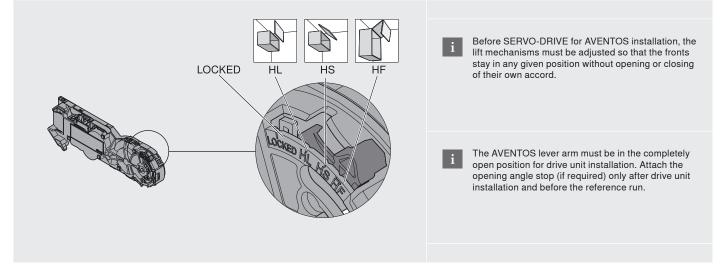
Blum distance bumper assembly, see page



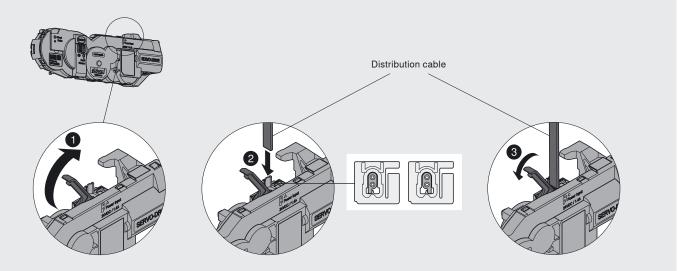
46

Assembly

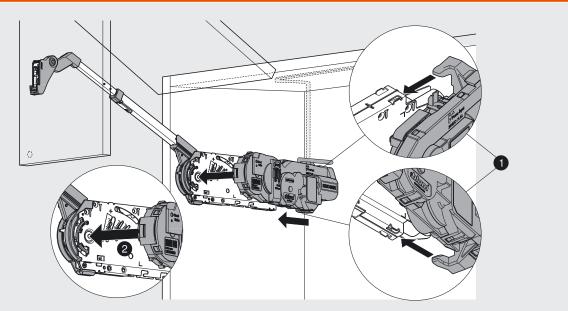
Drive unit adjustment

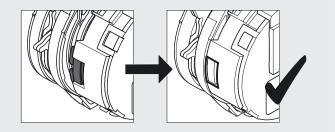


Distribution cable installation



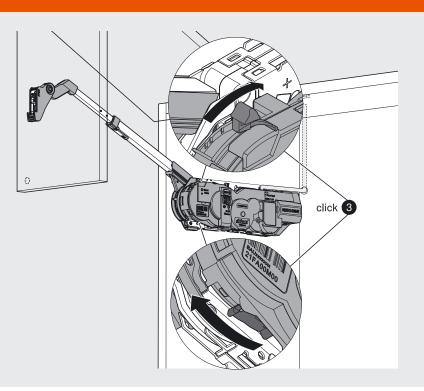
Drive unit installation





The drive unit can be locked when the orange slide is no longer visible in the view window.

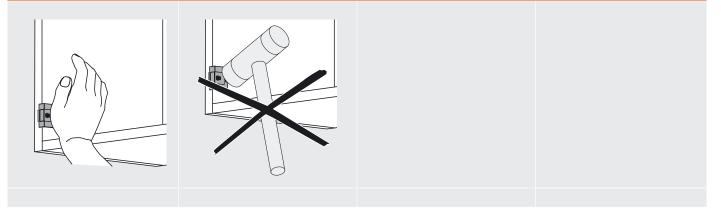
Drive unit lock



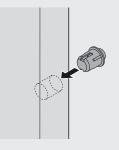


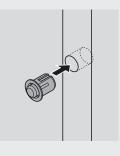


SERVO-DRIVE switch installation



Blum distance bumper assembly

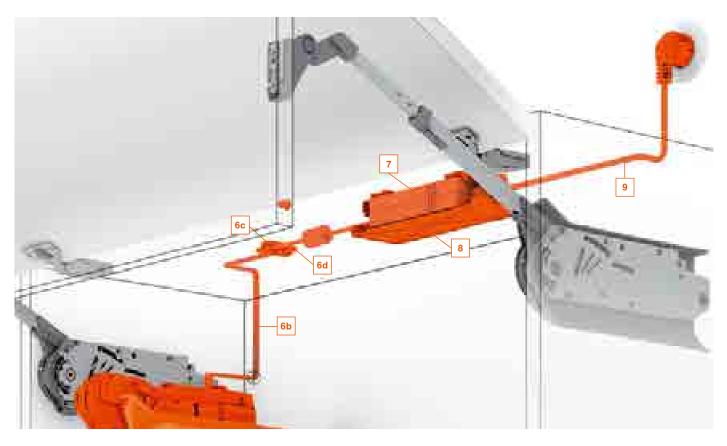




Installation in the front Aluminium frame: Installation in the cabinet side i Do not glue the Blum distance bumper.

Order specification

Blum transformer and accessories



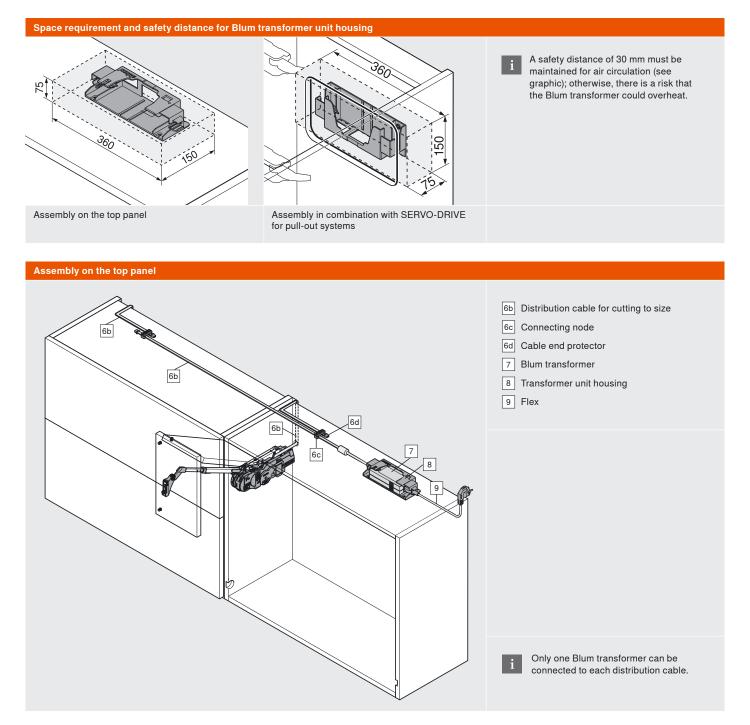
6c, 6d	Connecting node + cable end protector	9	Flex	
	Black	0.10		
		Z10V100E	Flex Europe	Z10M200E
		Y	Flex CH	Z10M200C
6b, 6d	Distribution cable for cutting to size + cable	end protector	Flex US, CA	Z10M200U
	Electrical cable length 8 m with 5 pcs		Flex JP	Z10M200J
	cable end protector Z10K800AE	Z10K800AE	Flex BR	Z10M200S
\bigcirc ${}$	Can be used as a distribution cable		Flex BR	Z10M200S.01
			Flex UK	Z10M200B
			Flex DK	Z10M200D
7	Blum transformer		Flex IL	Z10M200I
			Flex AU	Z10M200K
NR.		Z10NE050.01	Flex CN	Z10M200N
			Flex AR	Z10M200A
8	Transformer unit housing for panel fixing		Flex IN	Z10M200H
A	RAL 7037 dust grey		Flex CL	Z10M200L
		Z10NG100	Flex TW	Z10M200T
			Flex ZA	Z10M200Z
	Cable holder		Flex Europe without plug	Z10M200E.OS
	Using the cable holder, the distribution cable ca easily managed to keep everything tidy and saf		Flex US, CA without plug	Z10M200U.OS
	White	Z10K0009		

The instruction leaflet and installation instructions will be provided with each order through your Blum supplier.



Assembly

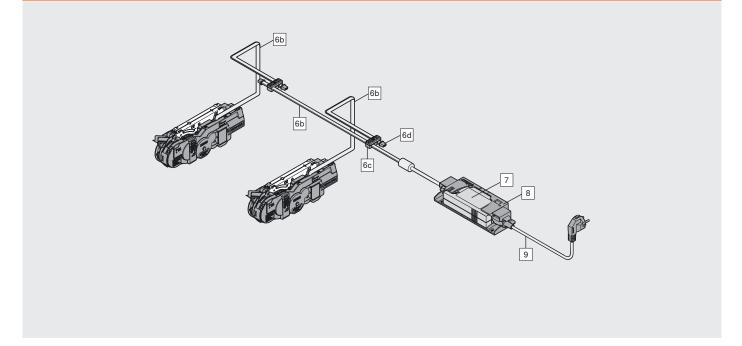
Blum transformer and accessories



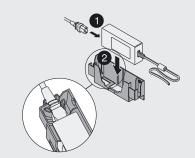


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Cable diagram for two cabinets

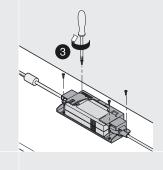


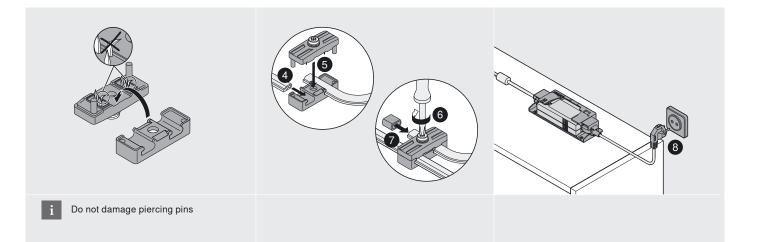
Transformer unit housing





Pull-out stop



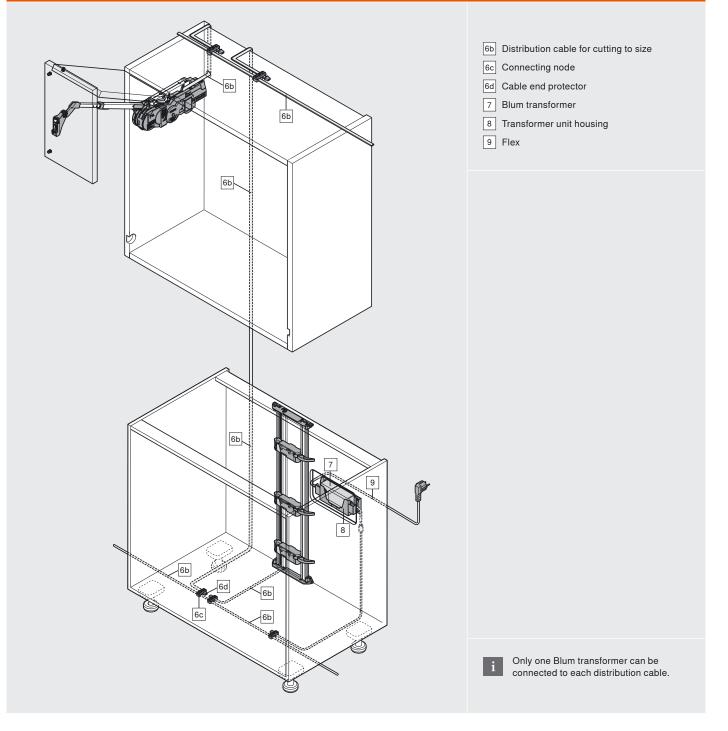




Assembly

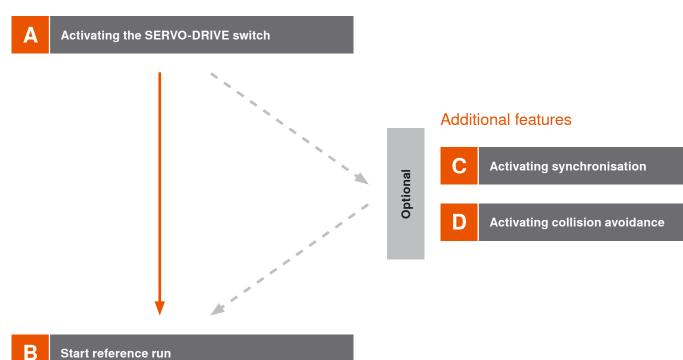
Blum transformer and accessories





Overview of functions for SERVO-DRIVE for AVENTOS

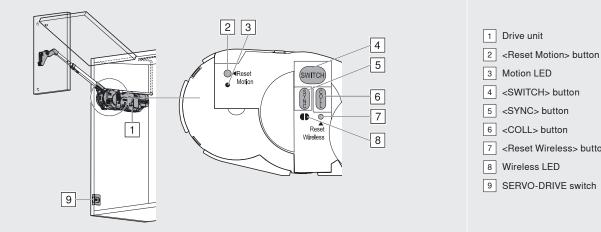
Start-up



Deactivation



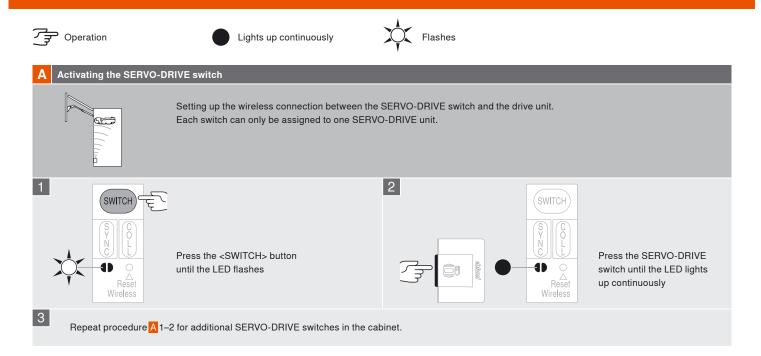
Button layout





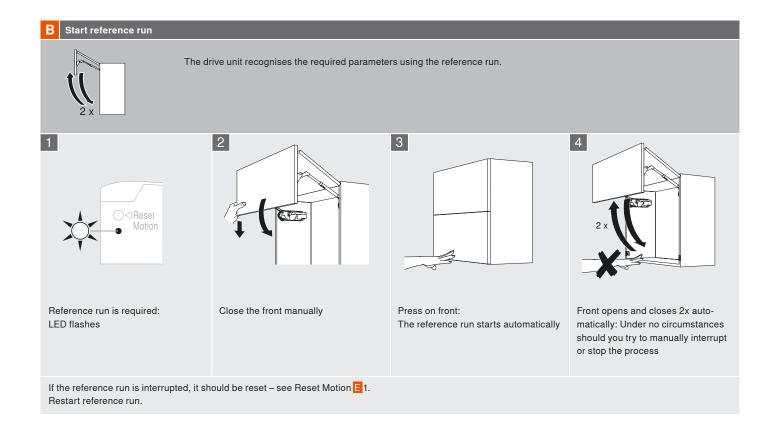


SERVO-DRIVE for AVENTOS start-up



Additional features



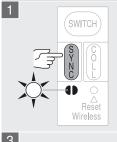


SERVO-DRIVE for AVENTOS additional features

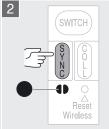
Activating synchronisation С



Up to three drive units can be synchronised with one transformer allowing them to move simultaneously. This function is required for several cabinets with a shared front.



Press the <SYNC> button on the 1st drive unit until the LED flashes



Press <SYNC> on the 2nd drive unit until the LEDs on both synchronised drive units light up continuously

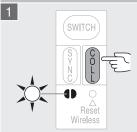
Repeat procedure C 1-2 for all additional drive units.

Activating collision avoidance D



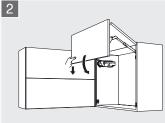
To avoid the collision of fronts, drive units (max. 6) are linked so that only one front can be opened at a time. A front is prevented from opening as long as a linked front remains open.

3



Press the <COLL> button on the

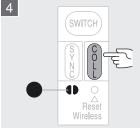
5



Close the front manually 1st drive unit until the LED flashes

T

Manually open the front of the unit to be linked



Press <COLL> on the 2nd drive unit until the LED lights up continuously (the same will happen in the first cabinet).

Repeat procedure D 1-4 for all additional cabinets.



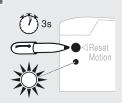
Deactivating SERVO-DRIVE for AVENTOS

Flashes quickly

E Reset Motion

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



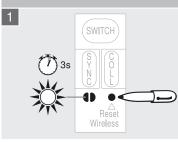


Press the <Reset Motion> button using a pen (at least 3 seconds) until the LED flashes quickly.

F Reset Wireless

Deactivates all functions.

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



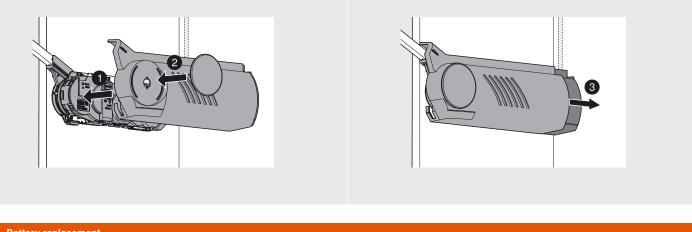
Press the <Reset Wireless> button using a pen (at least 3 seconds) until the LED flashes quickly.

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

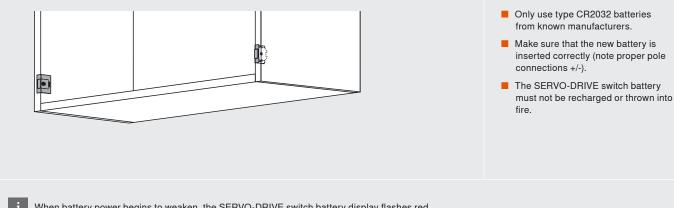
Wireless LED signals			
XXX	Flashes green	Activation mode	
•	Lights up green continuously	Activation confirmation	
×	Flashes green quickly	Deactivation confirmation	
•	Lights up continuously red	Last process was not completed successfully	

Cover cap assembly, Battery replacement

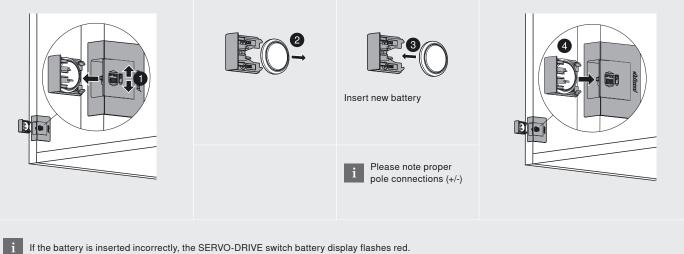
Cover cap



Battery replacement



i When battery power begins to weaken, the SERVO-DRIVE switch battery display flashes red.

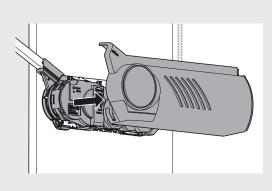


If the battery is inserted incorrectly, the SERVO-DRIVE switch battery display flashes red.





Drive unit removal

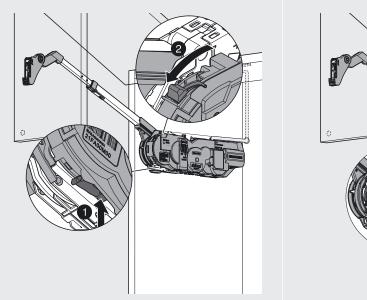


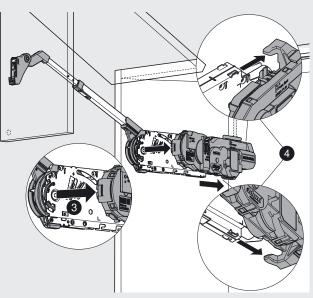


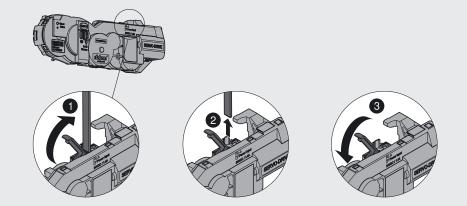
DANGER

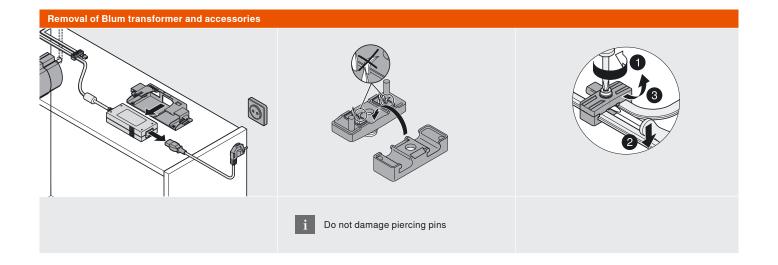
Before starting repair or maintenance work, unplug the Blum transformer to disconnect the power.

Never open a Blum transformer. There is a danger of electric shock.











Perfecting motion



Our understanding of perfect **Motion**

Blum turns the opening and closing of furniture into an experience that significantly improves this experience within the kitchen. Several thousand employees are continually working worldwide implementing our concept of perfect motion. Within this process, we place the needs of the kitchen user as the focus of our actions. We are only satisfied when the kitchen user is satisfied. All of our partners who participate in the furniture making process profit from this focus.

For over 50 years, quality has been the highest principle for the development and manufacture of our products. Our fittings systems shout "high quality" with their superbly engineered function, recognised design and high durability. They are designed to inspire and trigger fascination for perfect motion. We also set the bar very high for the services we offer. They must provide the best possible support to our partners. So that we can target our efforts at all levels, we are in a constant dialogue with kitchen users and regularly exchange information with furniture manufacturers, joiners and distributors.









Blum Fittings For the lifetime of your kitchen

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