



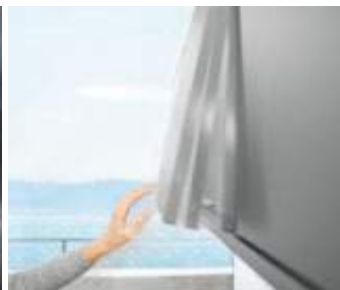
BLUMOTION	SERVO-DRIVE	TIP-ON
by Blum	by Blum	by Blum

AVENTOS lift systems provide ease of use in the wall cabinet. Even wide lift systems open easily, remain in any desired position and – thanks to BLUMOTION – close silently and effortlessly.

- BLUMOTION – silent and effortless closing action
- Quick, easy assembly and removal due to CLIP technology
- Easy, 3-dimensional front adjustment
- Perfectly balanced – fronts remain in any desired position
- No protruding parts
- Optimised ergonomic handle position
- With SERVO-DRIVE, the electrical motion support system for wall cabinets
- With TIP-ON, the mechanical opening support system for stay lifts



SERVO-DRIVE, the electrical motion support system for AVENTOS HF, AVENTOS HS, AVENTOS HL and AVENTOS HK top



TIP-ON, the mechanical opening support, is available for the lift systems AVENTOS HK top, AVENTOS HK-S and AVENTOS HK-XS



The symmetrical lift mechanism of AVENTOS HK-XS can be used on one or two sides



AVENTOS lift systems offer many opportunities for creating cabinets that are even more individual – in all areas of the home

▶ **AVENTOS HF – bi-fold lift system**



Symbolic image

▶ AVENTOS HF – bi-fold lift system	22
▶▶ Overview	23
▶▶ Standard SERVO-DRIVE	24
▶▶ Accessories	32

▶ **AVENTOS HS – up and over lift system**



Symbolic image

▶ AVENTOS HS – up and over lift system	34
▶▶ Overview	35
▶▶ Standard SERVO-DRIVE	36

▶ **AVENTOS HL – lift up**



Symbolic image

▶ AVENTOS HL – lift up	40
▶▶ Overview	41
▶▶ Standard SERVO-DRIVE	42

▶ **AVENTOS HK top – stay lift**



Symbolic image

▶ AVENTOS HK top – stay lift	46
▶▶ Overview	47
▶▶ Standard SERVO-DRIVE	48
▶▶ TIP-ON	52
▶▶ Accessories	55

▶ **AVENTOS HK-S – stay lift**



Symbolic image

▶ AVENTOS HK-S – stay lift	56
▶▶ Overview	57
▶▶ Standard	58
▶▶ TIP-ON	58
▶▶ Accessories	61

▶ **AVENTOS HK-XS – stay lift**



Symbolic image

▶ AVENTOS HK-XS – stay lift	62
▶▶ Overview	63
▶▶ Standard	64
▶▶ TIP-ON	64
▶▶ Accessories	69

▶ **AVENTOS – mitred and rebated applications**



Symbolic image

▶ AVENTOS – mitred and rebated applications	20
---	----

▶ **Accessories**



Symbolic image

Screws	70
Centre bit	70
Door buffer	70
Screwdriver	71
Cross slot bit	71

An inspiring range of lift systems in motion



The fascinating motion quality of the AVENTOS fittings is also available for lift systems designed with mitres or rebates. The situation here is that the standard fittings can still be used with minor positional adjustment.

Using the new application options, creative design ideas can be implemented to best effect. Lift systems are particularly convenient as the smooth action and access to the cabinet are always achieved.

AVENTOS lift systems also remain in any position when they are being opened and are therefore within easy reach to close. Extra convenience is provided by the SERVO-DRIVE or TIP-ON opening support systems.



Mitred applications



Rebated applications

Page instructions

AVENTOS – mitred and rebated applications

Short-URL

www.blum.com/mitresrebates



Mitred applications



AVENTOS HF – bi-fold lift system

Rebated applications



AVENTOS HF – bi-fold lift system



AVENTOS HS – up and over lift system



AVENTOS HS – up and over lift system



AVENTOS HL – lift up



AVENTOS HL – lift up



AVENTOS HK top – stay lift



AVENTOS HK top – stay lift

Lift systems



▶ AVENTOS HF – bi-fold lift system

A bi-fold lift system has never been so smooth



The AVENTOS HF has a two-part front that folds together in the centre when opening. The bi-fold lift system is ideal for higher wall cabinets with large fronts because the handle remains easy to reach in any position. AVENTOS HF can also be used with fronts of different heights.

- Silent and effortless closing, thanks to **BLUMOTION**
- Easy to open
- Stops at any opening position
- Provides excellent access to the cabinet interior
- Small programme, huge application variety
- Easy assembly and adjustment
- Stability, even with wide fronts
- Excellent durability
- Free positioning of handles
- No protruding parts
- Optional: SERVO-DRIVE for AVENTOS, the electrical motion support system for wall cabinets

Opening and closing – easy and comfortable



Lift systems open effortlessly with AVENTOS HF. Even heavy fronts only require light operating forces. The variable stop ensures that fronts always remain in the desired position

Thanks to the integrated BLUMOTION, both heavy and light fronts close silently and effortlessly

Other advantages that will inspire both you and your customers

**Excellent durability**

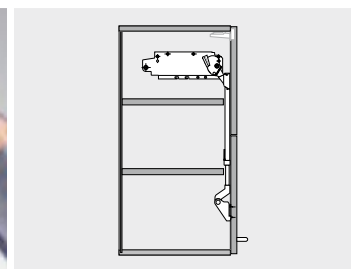
The core element of the lift mechanism is a robust spring package. The result: excellent durability

**No protruding parts**






Removable telescopic arm – an advantage for furniture manufacturing and kitchen installation

**Includes a finger safety feature**

The CLIP top centre hinge with innovative technology ensures finger safety

**Similar shelves possible**

Depending on the height of the cabinet, 2 identical shelves can be used

Applications		Webcode	Page
>> Standard SERVO-DRIVE			
	Wooden fronts and wide alu frames		
Symbolic image		DQD8YM	24
	Narrow alu frames		
Symbolic image		DQD9NY	28
>> Accessories			
	Opening angle stop	25	Door buffer
	Hinge set	32	Screwdriver
	Mounting plates	156	Cross slot bit
	Hinge arm cover cap	164	
	Screws	70	
	Centre bit	70	
Symbolic image			
>> Assembly, removal and adjustment			
	Assembly, removal and adjustment		Machine directive
			Detailed information on the Machine Directive
	Short-URL		665
	www.blum.com/a110		Short-URL
Symbolic image			www.blum.com/sd/guideline

Pictograph		
	Item Available Upon Request	

Lift systems



- ▶ AVENTOS HF – bi-fold lift system
- ▶▶ Standard | SERVO-DRIVE

Wooden fronts and wide alu frames



- Ideal for wall cabinets with divided fronts
- Cabinet height KH 480–1040 mm
- Cabinet width KB up to 1800 mm
- Silent and effortless closing, thanks to **BLUMOTION**
- Light operating forces
- Variable stop
- Tool-free assembly
- 3-dimensional adjustment of both fronts
- Simple, infinitely variable lift mechanism
- Centre hinge with finger safety feature

Webcode

DQD8YM

Power factor LF

Cabinet height KH (mm) x combined weight of top and bottom fronts FG including handle (kg)

Theoret. cabinet height TKH

Front height top FHo (mm) x 2 + gaps

We recommend the more powerful lift mechanism for overlapping areas.

 Standard SERVO-DRIVE

Order information

1	<input type="checkbox"/>	Lift mechanism set	
		Power factor LF	Part no.
		2600–5500 (1 pc LF 960–2650)	20F2200.05
		5350–10150	20F2500.05
		9000–17250 (3 pc LF 13500–25900)	20F2800.05

Composed of:

- 1 2 x Lift mechanism (symmetrical)
- 8 x Chipboard screws Ø 4 x 35 mm

2	<input type="checkbox"/>	Telescopic arm set	
		Cabinet height KH (mm)	Part no.
		480–570	20F3200.01
		560–710	20F3500.01
		700–900	20F3800.01
		760–1040	20F3900.01

Composed of:

- 2 2 x Telescopic arm (symmetrical)
- ¹ Theoretical cabinet height TKH for asymmetrical fronts

3	<input type="checkbox"/>	Cover cap set	
		Colour	Material
		HGR SW TGR	Nylon
			Part no.
			20F8000

Composed of:

- 3a 1 x Cover cap large left
- 3b 1 x Cover cap large right
- 3c 2 x Round cover cap stamped with Blum logo

3	<input checked="" type="checkbox"/>	Cover cap set for SERVO-DRIVE	
		Colour	Material
		HGR SW TGR	Nylon
			Part no.
			21F8000

Composed of:

- 3a 1 x SERVO-DRIVE cover cap large left
- 3b 1 x Cover cap large right
- 3c 2 x Round cover cap stamped with Blum logo
- 3d 2 x SERVO-DRIVE switch
- 3e 6 x Blum distance bumper, Ø 5 mm

4	<input type="checkbox"/>	Mounting plate for telescopic arm	
		Fixing method	Spacing (mm)
		Screw-on	0
		EXPANDO	0
		Knock-in	0
			Part no.
			175H3100
			177H3100E
			177H3100

All horizontal steel mounting plates with 0 mm spacing possible

¹ Use 2 chipboard screws (609.1x00) per side for wooden fronts¹ Use 2 counter sunk self tapping screws (660.0950) per side for wide alu frames

6	<input checked="" type="checkbox"/>	SERVO-DRIVE set	
		Colour	Material
		R7037	Nylon
			Part no.
			21FA000

Composed of:

- 6a 1 x Drive unit
- 6b 1 x Distribution cable, 1500 mm
- 6c 1 x Connecting node
- 6d 2 x Cable end protector

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

7	<input checked="" type="checkbox"/>	Blum transformer 24 W	
		Language package	Part no.
		A	Z10NE030A
		B	Z10NE030B
		C	Z10NE030C
		D	Z10NE030D
		E	Z10NE030E

Incl. instruction leaflet and installation instructions

Without flex

Language package

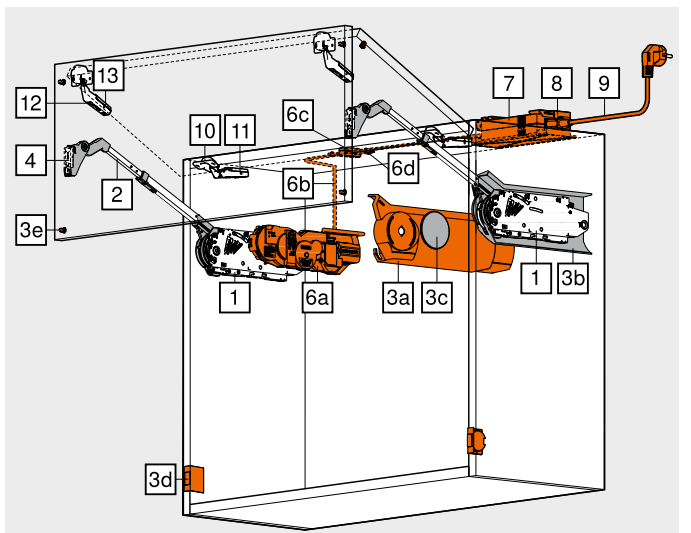
A	DE EN FR IT NL	F	BG ET LT LV RO RU
B	DA EN FI NO SV	G	EN ES FR
C	EL EN HR SL SR TR	H	EN ZH
D	EN ES FR IT PT	J	JA
E	CS HU PL SK		

Language descriptions as per ISO-639

8	<input checked="" type="checkbox"/>	Transformer unit housing	
		Colour	Material
		WGR	Nylon
			Part no.
			Z10NG120

For Blum transformer 24 W

9	<input checked="" type="checkbox"/>	Flex	
		Market	Part no.
		AR	Z10M200A
		UK	Z10M200B
		CH	Z10M200C
		DK	Z10M200D
		Europe	Z10M200E
		Europe	Z10M200E.OS
		IN	Z10M200H
		IL	Z10M200I
		JP	Z10M200J
		AU	Z10M200K
		CL	Z10M200L
		CN	Z10M200N
		BR	Z10M200S.01
		TW	Z10M200T
		US CA	Z10M200U
		ZA	Z10M200Z

¹ Without plug

Wooden fronts and wide alu frames

Webcode

DQD8YM

Order information

Alternative to 7 | 8 | 9

– Blum plug-in transformer 12 W

Only suitable for one drive unit

Network adapter	Language package	Part no.	Network adapter	Language package	Part no.
E	A	Z10NA30EAF	E	F	Z10NA30EFF
E	B	Z10NA30EBF	B	A	Z10NA30BAF
E	C	Z10NA30ECF	K	D	Z10NA30KDF
E	D	Z10NA30EDF	U	G	Z10NA30UGF
E	E	Z10NA30EEF			

Network adapter



Composed of:

- 1 x Blum plug-in transformer 12 W
- Incl. cable, 1120 mm (with distribution cable extendible to max. 2000 mm)

Other combinations available upon request

¹ See the Information chapter for a detailed market list

10 CLIP top 120° hinge

Boss	Spring	Part no.
INSERTA	Unsprung	70T5590BTL
Screw-on	Unsprung	70T5550.TL

Boss overlay TO (fixed dimension)

- 11 mm
- 3 hinges at cabinet width KB 1200 mm and/or starting from 12 kg front weight FG
- 4 hinges at cabinet width KB 1800 mm and/or starting from 20 kg front weight FG
- ² Use chipboard screws (609.1x00) for wooden fronts
- ² Use counter sunk self tapping screws (660.0950) for wide alu frames

Alternative to 10

10 CLIP top 120° special hinge for larger front overlay

Boss	Spring	Part no.
INSERTA	Unsprung	72T5590BTL
Screw-on	Unsprung	72T5550.TL

Boss overlay TO (fixed dimension)

- 13 mm
- 3 hinges at cabinet width KB 1200 mm and/or starting from 12 kg front weight FG
- 4 hinges at cabinet width KB 1800 mm and/or starting from 20 kg front weight FG

11 Mounting plate for CLIP top 120° hinge

Recommendation

Fixing method	Spacing (mm)	Part no.
Screw-on	0	175H3100
EXPANDO	0	177H3100E
Knock-in	0	177H3100

Standard mounting plates, spacing depends on the upper front overlay FAo

12 CLIP top centre hinge

Boss	Spring	Part no.
EXPANDO	Unsprung	78Z553ET
Screw-on	Unsprung	78Z5500T

- 3 hinges at cabinet width KB 1200 mm and/or starting from 12 kg front weight FG
- 4 hinges at cabinet width KB 1800 mm and/or starting from 20 kg front weight FG

13 Mounting plate for CLIP top-centre hinge

Recommendation

Fixing method	Spacing (mm)	Part no.
Screw-on	0	175H3100
EXPANDO	0	177H3100E
Knock-in	0	177H3100

Standard mounting plates with 0 mm distance
Only use cruciform mounting plates for wide aluminium frames under a 57 mm frame frieze width

Accessories

– Opening angle stop

Opening angle	Colour	Part no.
104°	TGR	20F7051
83°	R7037	20F7011

– Distribution cable and cable end protector

Colour	Length (m)	Part no.
S	8	Z10K800AE

Composed of:

- 6b 1 x Distribution cable
- 6d 5 x Cable end protector

For cutting to size
Can be used as a distribution cable

– Connecting node and cable end protector

Colour	Material	Part no.
S	Nylon	Z10V100E.01

Composed of:

- 6c 1 x Connecting node
- 6d 2 x Cable end protector

Tool-free assembly

– Cable holder

Colour	Material	Part no.
W	Nylon	Z10K0009

For example, for securing the distribution cable

Colour

HGR	Light grey	WGR	White grey
SW	Silk white	S	Black
TGR	Dark grey	W	White
R7037	RAL 7037 dust grey		

Page instructions

Overview – AVENTOS HF	23	Planning – SERVO-DRIVE switch	33
Accessories – hinge set	32	SERVO-DRIVE uno – market list	682
Mounting plates	156	Overview – assembly devices	561
Accessories – general	70	Reference values for front weight FG (kg)	668
Planning – symmetrical	26	Machine directive	665
Planning – asymmetrical	27	More technical details	662
Planning – Blum distance bumper	33		

Assembly, removal and adjustment

Short-URL
www.blum.com/a110



Lift systems



- ▶ AVENTOS HF – bi-fold lift system
- ▶▶ Standard | SERVO-DRIVE

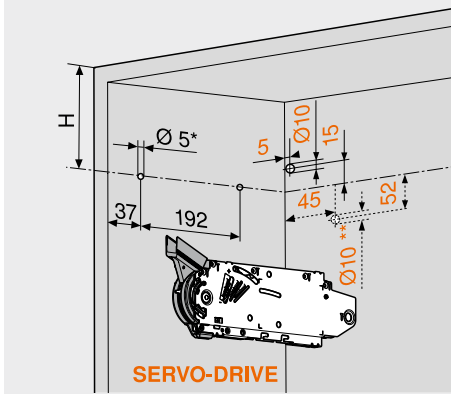
Wooden fronts and wide alu frames

Webcode
DQD8YM

Planning

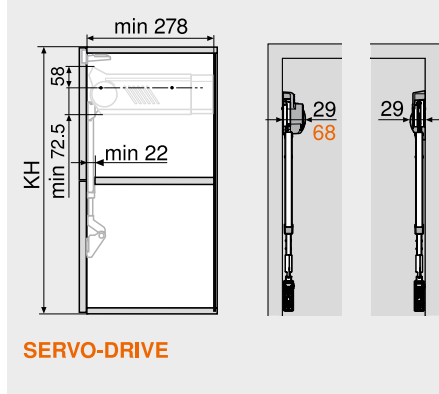
Symmetrical

Drilling position

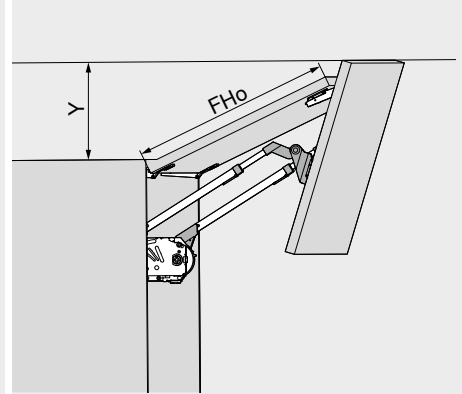


Cabinet height KH (mm)	H (mm)
480–549	KH x 0.3 – 28
550–1040	KH x 0.3 – 57
4 x chipboard screws Ø 4 x 35 mm	
Drilling for SERVO-DRIVE distribution cable, left only	
* Drilling depth 5 mm	
** Alternative drilling	

Space requirement

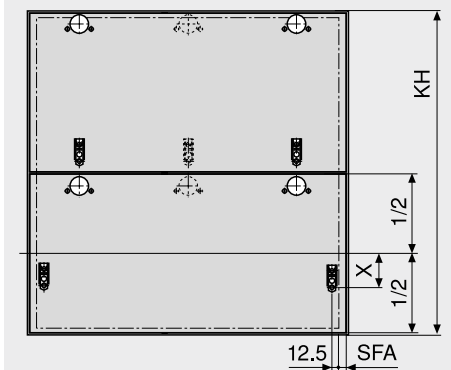


KH	Cabinet height
-----------	----------------



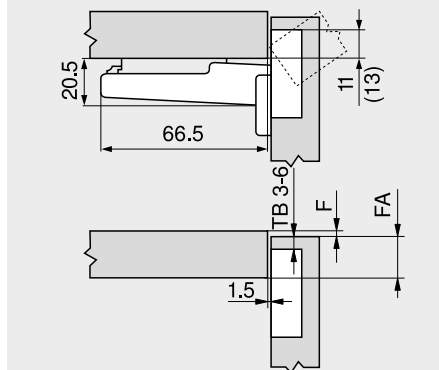
Opening angle stop	Y (mm)
Without	FHo x 0.44 + 38
104°	FHo x 0.24 + 34
83°	0
FHo	Upper front height

Front assembly



Cabinet height KH (mm)	X (mm)	
480–549	70	68
550–1040	47	45
SFA	Front overlay of the side panel	

CLIP top 120° hinge



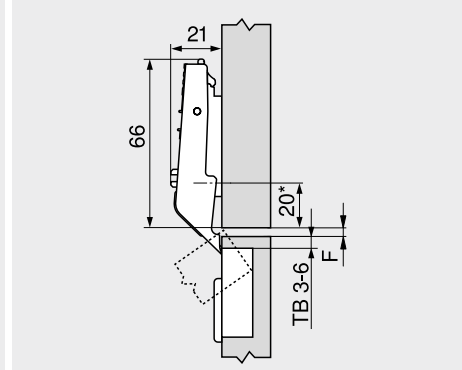
TB	Drilling distance
F	Gap
FA	Front overlay
()	CLIP top 120° special hinge

Drilling distance TB

MD	Front overlay FA (mm)																
	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													

MD Mounting plate spacing (mm)
With the CLIP top 120° special hinge, the front overlay FA is always 2 mm larger

CLIP top centre hinge



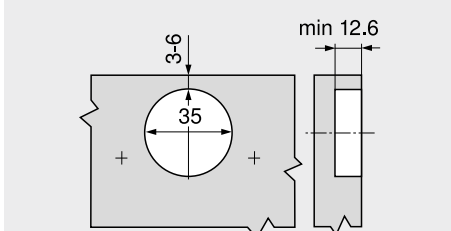
TB	Drilling distance
F	Min. gap 1.5 mm
*	37 mm for cruciform mounting plates (37/32)

Drilling distance TB

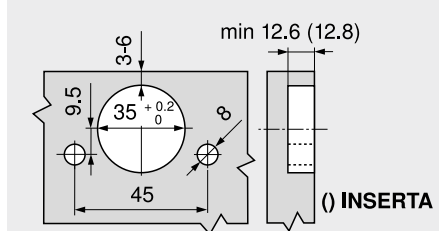
MD	Horizontal gap F (mm) between fronts					
	3	4	5	6		
0						
3						
6						
9						

MD Mounting plate spacing (mm)

Screw-on



INSERTA | EXPANDO



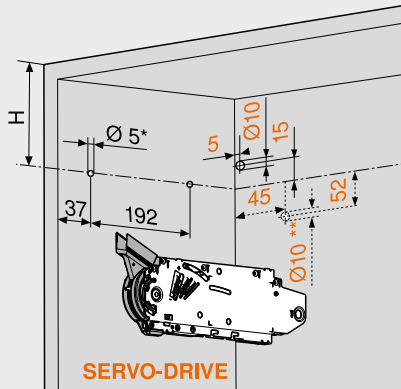
Wooden fronts and wide alu frames

Webcode
DQD8YM

Planning

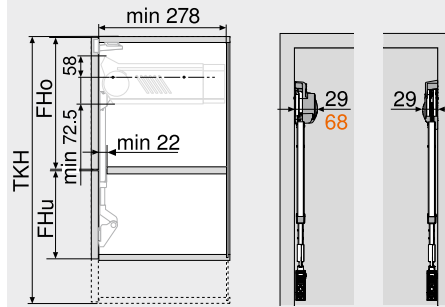
Asymmetrical

Drilling position



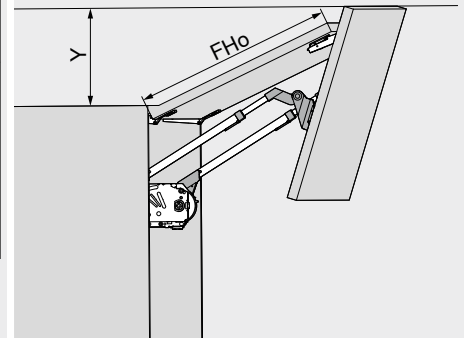
Theoret. cabinet height TKH (mm) H (mm)
480–549 TKH x 0.3 – 28
550–1040 TKH x 0.3 – 57
4 x chipboard screws Ø 4 x 35 mm
Drilling for SERVO-DRIVE distribution cable, left only
* Drilling depth 5 mm
** Alternative drilling

Space requirement



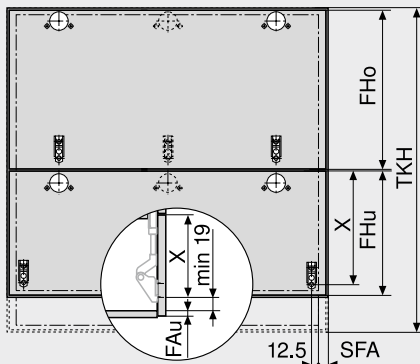
SERVO-DRIVE

TKH = FHo (mm) x 2 + gaps
TKH Theoretical cabinet height
FHo Upper front height
FHu Lower front height



Opening angle stop Y (mm)
Without FHo x 0.44 + 38
104° FHo x 0.24 + 34
83° 0
FHo Upper front height
The larger front must be at the top!

Front assembly

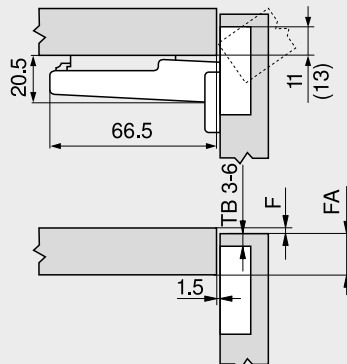


Theoret. cabinet height TKH (mm) X (mm)

177H3100 177H3100E 177H3100E10 177H5100 175H3100 175H4100	175H5400 177H5400E
---	----------------------

480–549 FHo / 2 + 70 FHo / 2 + 68
550–1040 FHo / 2 + 47 FHo / 2 + 45
FHo Upper front height
FHu Lower front height
FAu Bottom front overlay
SFA Front overlay of the side panel

CLIP top 120° hinge



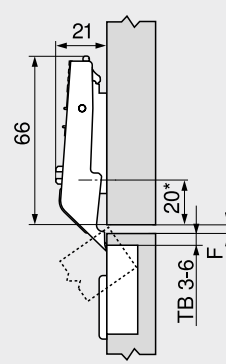
TB Drilling distance
F Gap
FA Front overlay
(I) CLIP top 120° special hinge

Drilling distance TB

MD	Front overlay FA (mm)												
	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									

MD Mounting plate spacing (mm)
With the CLIP top 120° special hinge, the front overlay FA is always 2 mm larger

CLIP top centre hinge



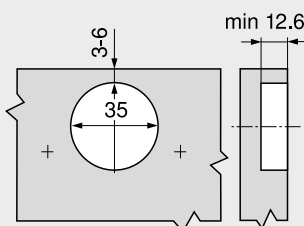
TB Drilling distance
F Min. gap 1.5 mm
* 37 mm for cruciform mounting plates (37/32)

Drilling distance TB

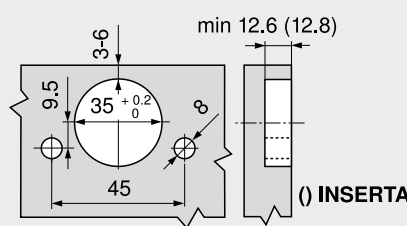
MD	Horizontal gap F (mm) between fronts					
	3	4	5	6		
0					3	4
3				6	5	4
6						
9						

MD Mounting plate spacing (mm)

Screw-on



INSERTA | EXPANDO



Page instructions

Overview – AVENTOS HF	23
Order specification – wooden fronts and wide alu frames	24
Planning – Blum distance bumper	33
Planning – SERVO-DRIVE switch	33
Machine directive	665

Assembly, removal and adjustment



Short-URL
www.blum.com/a110

Lift systems



- ▶ AVENTOS HF – bi-fold lift system
- ▶▶ Standard | SERVO-DRIVE

Narrow alu frames



- Ideal for wall cabinets with divided fronts
- Cabinet height KH 480–1040 mm
- Cabinet width KB up to 1800 mm
- Silent and effortless closing, thanks to **BLUMOTION**
- Light operating forces
- Variable stop
- Tool-free assembly
- 3-dimensional adjustment of both fronts
- Simple, infinitely variable lift mechanism
- Centre hinge with finger safety feature

Webcode

DQD9NY

Power factor LF

Cabinet height KH (mm) x combined weight of top and bottom fronts FG including handle (kg)

Theoret. cabinet height TKH

Front height top FHo (mm) x 2 + gaps

We recommend the more powerful lift mechanism for overlapping areas.

 Standard SERVO-DRIVE

Order information

1	<input type="checkbox"/>	Lift mechanism set	
		Power factor LF	Part no.
		2600–5500 (1 pc LF 960–2650)	20F2200.05
		5350–10150	20F2500.05
		9000–17250	20F2800.05

Composed of:

- 1 2 x Lift mechanism (symmetrical)
- 8 x Chipboard screws Ø 4 x 35 mm

2	<input type="checkbox"/>	Telescopic arm set	
		Cabinet height KH (mm)	Part no.
		480–570	20F3200.01
		560–710	20F3500.01
		700–900	20F3800.01
		760–1040	20F3900.01

Composed of:

- 2 2 x Telescopic arm (symmetrical)
- ¹ Theoretical cabinet height TKH for asymmetrical fronts

3	<input type="checkbox"/>	Cover cap set	
		Colour	Material
		HGR SW TGR	Nylon
			Part no.
			20F8000

Composed of:

- 3a 1 x Cover cap large left
- 3b 1 x Cover cap large right
- 3c 2 x Round cover cap stamped with Blum logo

3	<input checked="" type="checkbox"/>	Cover cap set for SERVO-DRIVE	
		Colour	Material
		HGR SW TGR	Nylon
			Part no.
			21F8000

Composed of:

- 3a 1 x SERVO-DRIVE cover cap large left
- 3b 1 x Cover cap large right
- 3c 2 x Round cover cap stamped with Blum logo
- 3d 2 x SERVO-DRIVE switch
- 3e 6 x Blum distance bumper, Ø 5 mm

4	<input type="checkbox"/>	CLIP adapter plate for telescopic arms	
		Version	Spacing (mm)
		Left right	0
			Part no.
			175H5B00

6	<input checked="" type="checkbox"/>	SERVO-DRIVE set	
		Colour	Material
		R7037	Nylon
			Part no.
			21FA000

Composed of:

- 6a 1 x Drive unit
- 6b 1 x Distribution cable, 1500 mm
- 6c 1 x Connecting node
- 6d 2 x Cable end protector

7	<input checked="" type="checkbox"/>	Blum transformer 24 W	
		Language package	Part no.
		A	Z10NE030A
		B	Z10NE030B
		C	Z10NE030C
		D	Z10NE030D
		E	Z10NE030E

Incl. instruction leaflet and installation instructions

Without flex

Language package

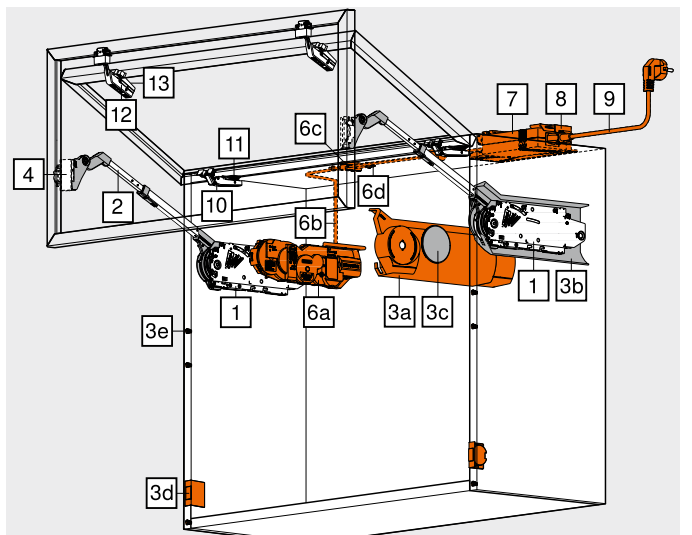
A	DE EN FR IT NL	F	BG ET LT LV RO RU
B	DA EN FI NO SV	G	EN ES FR
C	EL EN HR SL SR TR	H	EN ZH
D	EN ES FR IT PT	J	JA
E	CS HU PL SK		

Language descriptions as per ISO-639

8	<input checked="" type="checkbox"/>	Transformer unit housing	
		Colour	Material
		WGR	Nylon
			Part no.
			Z10NG120

For Blum transformer 24 W

9	<input checked="" type="checkbox"/>	Flex	
		Market	Part no.
		AR	Z10M200A
		UK	Z10M200B
		CH	Z10M200C
		DK	Z10M200D
		Europe	Z10M200E
		Europe	Z10M200E.OS
		IN	Z10M200H
		IL	Z10M200I
		JP	Z10M200J
		AU	Z10M200K
		CL	Z10M200L
		CN	Z10M200N
		BR	Z10M200S.01
		TW	Z10M200T
		US CA	Z10M200U
		ZA	Z10M200Z

¹ Without plug

Narrow alu frames

Webcode
DQD9NY

Order information

Alternative to 7 | 8 | 9

– Blum plug-in transformer 12 W

Only suitable for one drive unit

Network adapter	Language package	Part no.	Network adapter	Language package	Part no.
E	A	Z10NA30EAF	E	F	Z10NA30EFF
E	B	Z10NA30EBF	B	A	Z10NA30BAF
E	C	Z10NA30ECF	K	D	Z10NA30KDF
E	D	Z10NA30EDF	U	G	Z10NA30UGF
E	E	Z10NA30EEF			

Network adapter



Composed of:

- 1 x Blum plug-in transformer 12 W
- Incl. cable, 1120 mm (with distribution cable extendible to max. 2000 mm)

Other combinations available upon request

¹ See the Information chapter for a detailed market list

10 CLIP top 120° aluminium frame door hinge

Boss	Spring	Part no.
Screw-on	Unsprung	72T550A.TL

3 hinges at cabinet width KB 1200 mm and/or starting from 12 kg front weight FG
4 hinges at cabinet width KB 1800 mm and/or starting from 20 kg front weight FG

11 Mounting plate for CLIP top 120° hinge

Recommendation

Fixing method	Spacing (mm)	Part no.
Screw-on	0	175H3100
EXPANDO	0	177H3100E
Knock-in	0	177H3100

Standard mounting plates, spacing depends on the top gap F

12 CLIP top aluminium centre hinge

Boss	Spring	Part no.
Screw-on	Unsprung	78Z550AT

3 hinges at cabinet width KB 1200 mm and/or starting from 12 kg front weight FG
4 hinges at cabinet width KB 1800 mm and/or starting from 20 kg front weight FG

13 CLIP adapter plate for centre hinges

Version	Spacing (mm)	Part no.
Symmetrical	0	175H5A00

Accessories

– Opening angle stop

Opening angle	Colour	Part no.
104°	TGR	20F7051
83°	R7037	20F7011

– Distribution cable and cable end protector

Colour	Length (m)	Part no.
S	8	Z10K800AE

Composed of:

- 6b 1 x Distribution cable
- 6d 5 x Cable end protector

For cutting to size

Can be used as a distribution cable

– Connecting node and cable end protector

Colour	Material	Part no.
S	Nylon	Z10V100E.01

Composed of:

- 6c 1 x Connecting node
- 6d 2 x Cable end protector

Tool-free assembly

– Cable holder

Colour	Material	Part no.
W	Nylon	Z10K0009

For example, for securing the distribution cable

Colour

HGR	Light grey
SW	Silk white
TGR	Dark grey
R7037	RAL 7037 dust grey

Colour

WGR	White grey
S	Black
W	White

Page instructions

Overview – AVENTOS HF	23	Planning – SERVO-DRIVE switch	33
Accessories – hinge set	32	SERVO-DRIVE uno – market list	682
Mounting plates	156	Overview – assembly devices	561
Accessories – general	70	Reference values for front weight FG (kg)	668
Planning – symmetrical	30	Machine directive	665
Planning – asymmetrical	31	More technical details	662
Planning – Blum distance bumper	33		

Assembly, removal and adjustment

Short-URL
www.blum.com/a110



Lift systems



- ▶ AVENTOS HF – bi-fold lift system
- ▶▶ Standard | SERVO-DRIVE

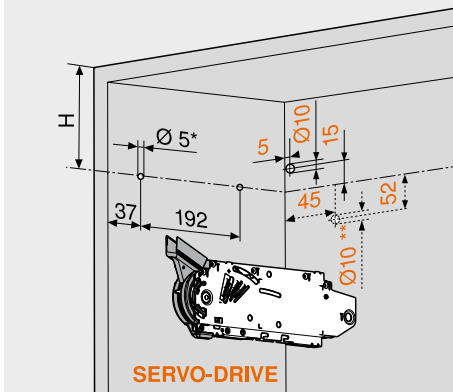
Narrow alu frames

Webcode
DQD9NY

Planning

Symmetrical

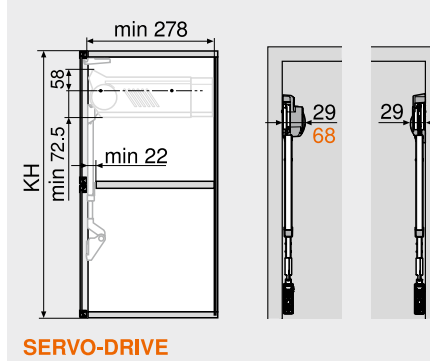
Drilling position



Cabinet height KH (mm)	H (mm)
480–549	KH x 0.3 – 28
550–1040	KH x 0.3 – 57

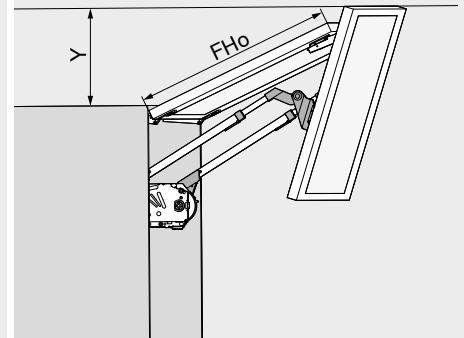
4 x chipboard screws $\varnothing 4 \times 35$ mm
Drilling for SERVO-DRIVE distribution cable, left only
* Drilling depth 5 mm
** Alternative drilling

Space requirement



SERVO-DRIVE

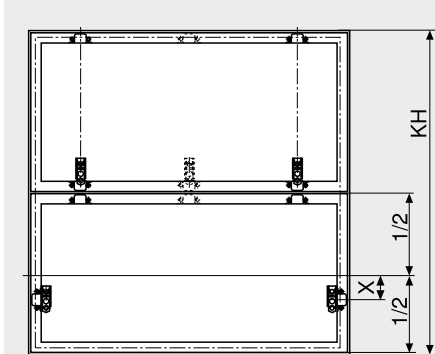
KH Cabinet height



Opening angle stop	Y (mm)
Without	FHo x 0.44 + 38
104°	FHo x 0.24 + 34
83°	0

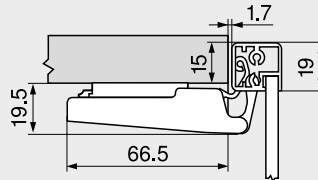
FHo Upper front height

Front assembly

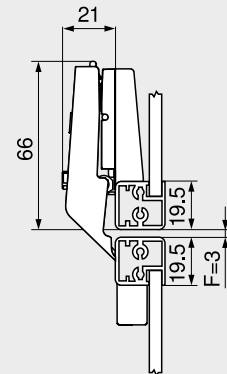


Cabinet height KH (mm)	X (mm)
480–549	54
550–1040	31

CLIP top 120° aluminium frame door hinge

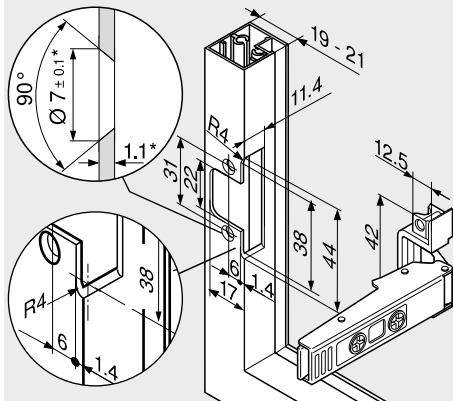


CLIP top aluminium centre hinge



F Min. gap 1.5 mm
The gap F needs to be adjusted for frame thicknesses over 20.5 mm

Screw-on (hinge | adapter plate)



* When changing material thickness, adjust the assembly dimensions accordingly

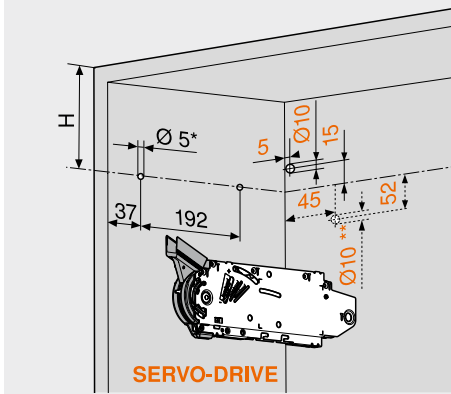
Narrow alu frames

Webcode
DQD9NY

Planning

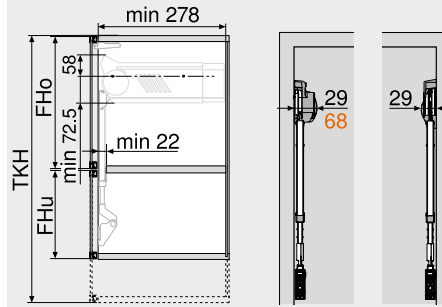
Asymmetrical

Drilling position



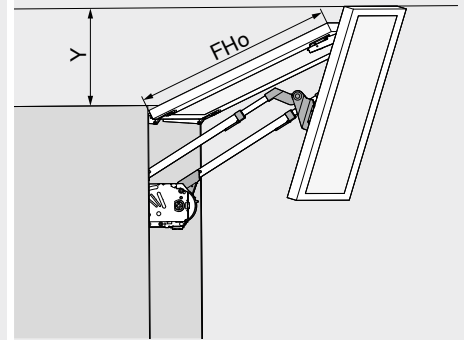
Theoret. cabinet height TKH (mm) H (mm)
480–549 TKH x 0.3 – 28
550–1040 TKH x 0.3 – 57
4 x chipboard screws Ø 4 x 35 mm
Drilling for SERVO-DRIVE distribution cable, left only
* Drilling depth 5 mm
** Alternative drilling

Space requirement



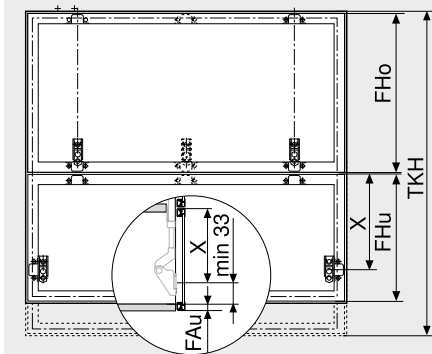
SERVO-DRIVE

TKH = FHo (mm) x 2 + gaps
TKH Theoretical cabinet height
FHo Upper front height
FHu Lower front height



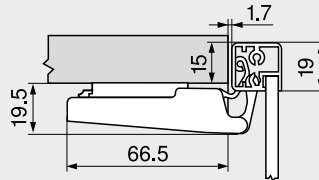
Opening angle stop Y (mm)
Without FHo x 0.44 + 38
104° FHo x 0.24 + 34
83° 0
FHo Upper front height
The larger front must be at the top!

Front assembly

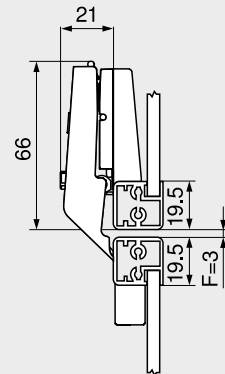


Theoret. cabinet height TKH (mm) X (mm)
480–549 FHo / 2 + 54
550–1040 FHo / 2 + 31
FHo Upper front height
FHu Lower front height
FAu Bottom front overlay

CLIP top 120° aluminium frame door hinge

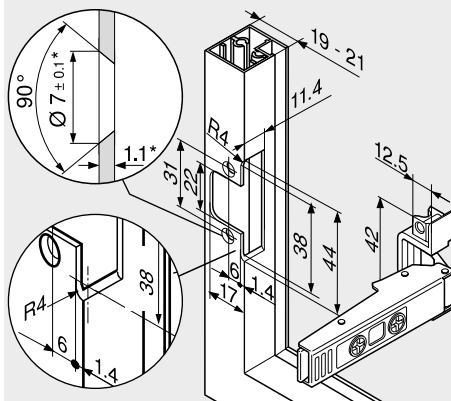


CLIP top aluminium centre hinge



F Min. gap 1.5 mm
The gap F needs to be adjusted for frame thicknesses over 20.5 mm

Screw-on (hinge | adapter plate)



* When changing material thickness, adjust the assembly dimensions accordingly

Page instructions

Overview – AVENTOS HF	23
Order specification – narrow alu frames	28
Planning – Blum distance bumper	33
Planning – SERVO-DRIVE switch	33
Machine directive	665

Assembly, removal and adjustment



Short-URL

www.blum.com/a110

Lift systems



- ▶ AVENTOS HF – bi-fold lift system
- ▶▶ Accessories

Hinge set – wooden fronts



- Hinge-set

Order information

Fixing method	Part no.
INSERTA Knock-in EXPANDO	☎ 78Z5530T11
Composed of:	
2 x CLIP top 120° hinge unsprung 70T5590BTL	
2 x CLIP top centre hinge without spring 78Z5530T	
6 x Horizontal cam mounting plate 177H3100	

Hinge set – wooden fronts and wide aluminium frames

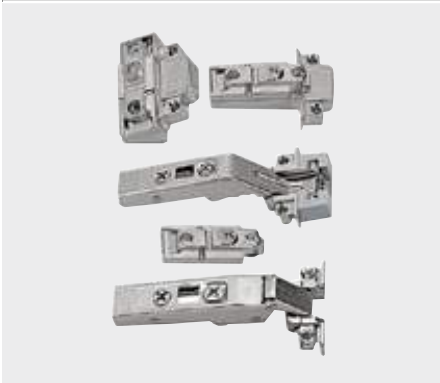


- Hinge-set

Order information

Fixing method	Part no.
Screw-on	☎ 78Z5500T12
Composed of:	
2 x CLIP top 120° hinge unsprung 70T5550.TL	
2 x CLIP top centre hinge without spring 78Z5500T	
6 x Horizontal cam mounting plate 175H3100	
For wide alu frames, an additional cruciform mounting plate is required for the CLIP top centre hinge	
¹	Use chipboard screws (609.1x00) for wooden fronts
¹	Use counter sunk self tapping screws (660.0950) for wide alu frames

Hinge set – narrow aluminium frames



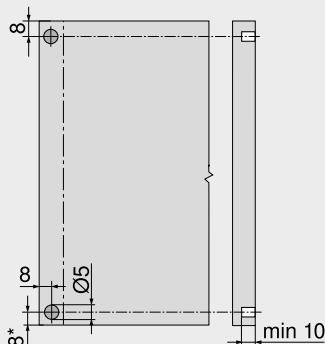
- Hinge-set

Order information

Fixing method	Part no.
Screw-on	☎ 78Z550AT11
Composed of:	
2 x CLIP top 120° aluminium frame hinge without spring 72T550A.TL	
2 x CLIP top alu centre hinge without spring 78Z550AT	
2 x Horizontal cam mounting plate 175H5400	
2 x CLIP adapter plate symmetric 175H5A00	
2 x CLIP adapter plate left/right 175H5B00	

Planning

Blum distance bumper (SERVO-DRIVE application only)



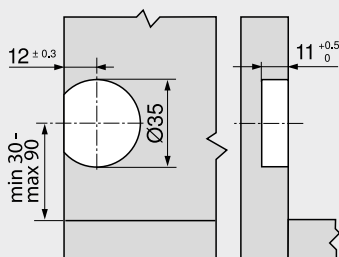
Insert Blum distance bumper (do not glue)

Recommendation for aluminium frames

Consider drilling for the Blum distance bumper in the cabinet side
 A trial application must be carried out when fixing to the front

* From cabinet bottom edge for fronts that protrude below

SERVO-DRIVE switch



Page instructions

Overview – AVENTOS HF	23	Assembly, removal and adjustment Short-URL www.blum.com/a110
Order specification – wooden fronts and wide alu frames	24	
Order specification – narrow alu frames	28	
Overview – assembly devices	561	
Machine directive	665	
More technical details	662	



Lift systems



▶ AVENTOS HS – up and over lift system

Can an up & over lift system close more smoothly?



With AVENTOS HS, the single front swings over the cabinet and is therefore ideal for large fronts. The up and over lift system is also the perfect choice for cabinets with cornices.

- Silent and effortless closing, thanks to **BLUMOTION**
- Easy to open
- Stops at any opening position
- Provides excellent access to the cabinet interior
- Suitable for wall cabinets with cornice or crown moulding
- Small programme, huge application variety
- Easy assembly and adjustment
- Stability, even with wide fronts
- Excellent durability
- No protruding parts
- Optional: SERVO-DRIVE for AVENTOS, the electrical motion support system for wall cabinets

BLUMOTION

by Blum

SERVO-DRIVE

by Blum

Opening and closing – easy and comfortable



AVENTOS HS provides ease of use that inspires. Even heavy fronts are easy to open thanks to the light operating forces. The variable stop ensures that the front always remains in the desired position

Thanks to the integrated BLUMOTION, both heavy and light fronts close silently and effortlessly

Other advantages that will inspire both you and your customers

**Excellent durability**

The core element of the lift mechanism is a robust spring package. The result: excellent durability

**No protruding parts**

Removable lever arm – an advantage for furniture manufacturing and kitchen installation

**Cornice and crown moulding**

You can easily combine cabinets with cornice or crown moulding with AVENTOS HS. This provides more design freedom for kitchen planning

Applications

Webcode Page

▶▶ **Standard | SERVO-DRIVE**



Wooden fronts, wide and narrow alu frames

Symbolic image

DQDADA 36

▶▶ **Accessories**



Screws	70
Centre bit	70
Door buffer	70
Screwdriver	71
Cross slot bit	71

Symbolic image

▶▶ **Assembly, removal and adjustment**



Assembly, removal and adjustment



Machine directive
Detailed information on the Machine Directive 665

Short-URL
www.blum.com/a120

Short-URL
www.blum.com/sd/guideline

Symbolic image

Pictograph



Item Available Upon Request

Lift systems



- ▶ AVENTOS HS – up and over lift system
- ▶▶ Standard | SERVO-DRIVE

Wooden fronts, wide and narrow alu frames



- Ideal for large-area, single fronts
- Cabinet height KH 350–800 mm
- Cabinet width KB up to 1800 mm
- Silent and effortless closing, thanks to **BLUMOTION**
- Light operating forces
- Perfect motion with a variable stop
- Tool-free assembly
- 3-dimensional front adjustment
- Simple, infinitely variable lift mechanism

Webcode
DQDADA

Lift mechanism
In order to select the correct lift mechanism, it is necessary to determine both the cabinet height KH and the front weight FG (including the handle)

Example
Cabinet height KH = 600 mm
Front weight FG = 10 kg
Lift mechanism selection = 20S2E00.05
KH = 602 mm → 600 mm
KH = 603 mm → 605 mm
We recommend the more powerful lift mechanism for overlapping areas.

- Standard
- SERVO-DRIVE

Order information

1 Lift mechanism set

Cabinet height KH 350–525 mm			
KH (mm)	20S2A00.05	20S2B00.05	20S2C00.05
Weight of front incl. handle (kg)	20S2A00.05	20S2B00.05	20S2C00.05
350	2.00–5.00	4.50–9.50	9.25–10.50
355	2.00–4.75	4.50–9.50	9.25–10.50
360	2.00–4.75	4.50–9.50	9.25–10.75
365	2.00–4.75	4.50–9.25	9.00–11.00
370	2.00–4.75	4.50–9.25	9.00–11.00
375	2.00–4.75	4.50–9.25	9.00–11.25
380	2.00–4.75	4.50–9.25	9.00–11.25
385	2.00–4.75	4.50–9.25	9.00–11.50
390	2.00–4.75	4.50–9.00	8.75–11.50
395	2.00–4.75	4.50–9.00	8.75–11.75
400	2.00–4.75	4.25–9.00	8.75–12.00
405	2.25–4.50	4.25–9.00	8.75–12.00
410	2.25–4.50	4.25–9.00	8.75–12.25
415	2.25–4.50	4.25–8.75	8.50–12.50
420	2.25–4.50	4.25–8.75	8.50–12.50
425	2.25–4.50	4.25–8.75	8.50–12.75
430	2.25–4.50	4.25–8.75	8.50–12.75
435	2.25–4.50	4.25–8.75	8.50–13.00

Cabinet height KH 526–675 mm			
KH (mm)	20S2D00.05	20S2E00.05	20S2F00.05
Weight of front incl. handle (kg)	20S2D00.05	20S2E00.05	20S2F00.05
526	3.00–6.75	6.25–13.00	12.00–16.50
530	3.00–6.75	6.25–12.75	11.75–16.75
535	3.00–6.75	6.25–12.75	11.75–16.75
540	3.00–6.50	6.00–12.75	11.75–17.00
545	3.00–6.50	6.00–12.50	11.50–17.25
550	3.00–6.50	6.00–12.50	11.50–17.25
555	3.00–6.50	6.00–12.50	11.50–17.50
560	3.00–6.50	6.00–12.25	11.25–17.50
565	3.00–6.25	5.75–12.25	11.25–17.75
570	3.00–6.25	5.75–12.25	11.25–17.75
575	3.00–6.25	5.75–12.00	11.00–18.00
580	3.00–6.25	5.75–12.00	11.00–18.00
585	3.00–6.25	5.75–12.00	10.75–18.25
590	3.00–6.00	5.50–12.00	10.75–18.25
595	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

Cabinet height KH 676–800 mm			
KH (mm)	20S2G00.05	20S2H00.05	20S2I00.05
Weight of front incl. handle (kg)	20S2G00.05	20S2H00.05	20S2I00.05
676	3.50–8.00	7.00–13.50	13.00–21.50
680	3.50–8.00	7.00–13.50	13.00–21.50
685	3.50–8.00	7.00–13.25	12.75–21.50
690	3.50–7.75	6.75–13.25	12.75–21.50
695	3.50–7.75	6.75–13.25	12.50–21.50
700	3.50–7.75	6.75–13.25	12.50–21.50
705	3.50–7.75	6.75–13.25	12.25–21.50
710	3.50–7.75	6.75–13.25	12.25–21.25
715	3.50–7.50	6.75–13.00	12.00–21.25
720	3.50–7.50	6.75–13.00	12.00–21.25
725	3.50–7.50	6.75–13.00	12.00–21.00
730	3.50–7.50	6.75–13.00	11.75–21.00
735	3.50–7.50	6.50–13.00	11.75–20.75

Composed of:
1 2 x Lift mechanism (symmetrical)
– 10 x Chipboard screws Ø 4 x 35 mm
KH Cabinet height

2 Lever arm set

Colour	Material	Part no.
NI	Steel	20S3500.06

Composed of:
2a 1 x Lever arm left
2b 1 x Lever arm right
2c 2 x Cross stabiliser cover cap

2 Lever arm set for SERVO-DRIVE

Colour	Material	Part no.
NI	Steel	21S3500.01

Composed of:
2a 1 x SERVO-DRIVE lever arm left
2b 1 x SERVO-DRIVE lever arm right
2c 2 x Cross stabiliser cover cap

3 Cover cap set

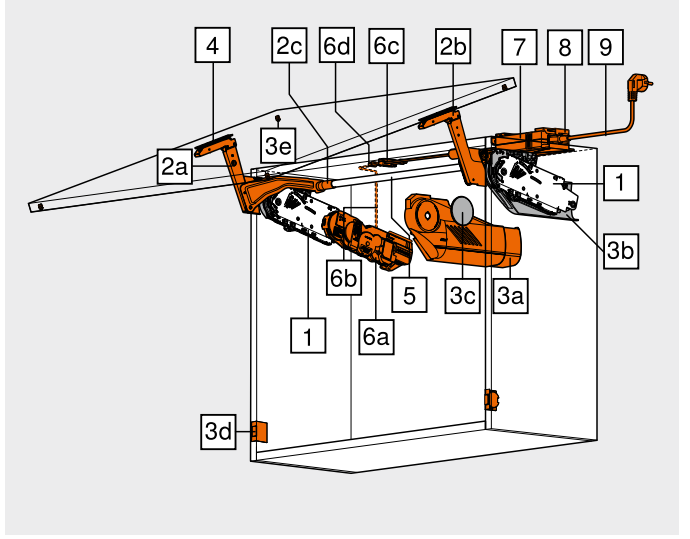
Colour	Material	Part no.
HGR SW TGR	Nylon	20S8000

Composed of:
3a 1 x Cover cap large left
3b 1 x Cover cap large right
3c 2 x Round cover cap stamped with Blum logo

3 Cover cap set for SERVO-DRIVE

Colour	Material	Part no.
HGR SW TGR	Nylon	21S8000

Composed of:
3a 1 x SERVO-DRIVE cover cap large left
3b 1 x Cover cap large right
3c 2 x Round cover cap stamped with Blum logo
3d 2 x SERVO-DRIVE switch
3e 4 x Blum distance bumper, Ø 5 mm



Wooden fronts, wide and narrow alu frames

Webcode

DQDADA

Order information

4		Front fixing bracket set	
		Version	Part no.
		Wooden fronts and wide alu frames	20S4200
		Narrow alu frames	20S4200A
1		Use 4 chipboard screws (609.1x00) per side for wooden fronts	
1		Use 4 counter sunk self tapping screws (660.0950) per side for wide alu frames	

4		Front fixing bracket	
		Version	Part no.
		Thin fronts	20S42T1

EXPANDO T suitable for thin fronts – see page instructions

5		Cross stabiliser rod round	
		Length (mm)	Diameter (mm)
		1061	Ø 16
			Part no.
			20Q1061UN

For cutting to size

Cutting

Internal cabinet width LW – 129 mm

Internal cabinet width LW – 164 mm

		Connecting piece set for cross stabiliser	
		Internal cabinet width LW 1190 mm and higher	
		Material	Diameter (mm)
		Aluminium	Ø 16
			Part no.
			20Q153ZN

Composed of:

- 1 x Connecting piece
- 1 x Fixing
- 2 x Cross stabiliser cover cap

Cutting for 5

Internal cabinet width LW / 2 – 147 mm

Internal cabinet width LW / 2 – 165 mm

6		SERVO-DRIVE set	
		Colour	Material
		R7037	Nylon
			Part no.
			21FA000

Composed of:

6a 1 x Drive unit

6b 1 x Distribution cable, 1500 mm

6c 1 x Connecting node

6d 2 x Cable end protector

We recommend one SERVO-DRIVE drive unit per set for connected fronts

7		Blum transformer 24 W	
		Language package	Part no.
		A	Z10NE030A
		B	Z10NE030B
		C	Z10NE030C
		D	Z10NE030D
		E	Z10NE030E
		F	Z10NE030F
		G	Z10NE030G
		H	Z10NE030H
		J	Z10NE030J

Incl. instruction leaflet and installation instructions

Without flex

Language package

A	DE EN FR IT NL	F	BG ET LT LV RO RU
B	DA EN FI NO SV	G	EN ES FR
C	EL EN HR SL SR TR	H	EN ZH
D	EN ES FR IT PT	J	JA
E	CS HU PL SK		

Language descriptions as per ISO-639

8		Transformer unit housing	
		Colour	Material
		WGR	Nylon
			Part no.
			Z10NG120

For Blum transformer 24 W

9		Flex	
		Market	Part no.
		AR	Z10M200A
		UK	Z10M200B
		CH	Z10M200C
		DK	Z10M200D
		Europe	Z10M200E
		Europe	Z10M200E.OS
		IN	Z10M200H
		IL	Z10M200I
		JP	Z10M200J
		AU	Z10M200K
		CL	Z10M200L
		CN	Z10M200N
		BR	Z10M200S.01
		TW	Z10M200T
		US CA	Z10M200U
		ZA	Z10M200Z

1 Without plug

Alternative to 7 | 8 | 9

– **Blum plug-in transformer 12 W**

Only suitable for one drive unit

Network adapter	Language package	Part no.	Network adapter	Language package	Part no.
E	A	Z10NA30EAF	E	F	Z10NA30EFF
E	B	Z10NA30EBF	B	A	Z10NA30BAF
E	C	Z10NA30ECF	K	D	Z10NA30KDF
E	D	Z10NA30EDF	U	G	Z10NA30UGF
E	E	Z10NA30EEF			

Network adapter

E B K U

Composed of:

- 1 x Blum plug-in transformer 12 W
- Incl. cable, 1120 mm (with distribution cable extendible to max. 2000 mm)

Other combinations available upon request

1 See the Information chapter for a detailed market list

Accessories

– **Distribution cable and cable end protector**

Colour	Length (m)	Part no.
S	8	Z10K800AE

Composed of:

6b 1 x Distribution cable

6d 5 x Cable end protector

For cutting to size

Can be used as a distribution cable

– **Connecting node and cable end protector**

Colour	Material	Part no.
S	Nylon	Z10V100E.01

Composed of:

6c 1 x Connecting node

6d 2 x Cable end protector

Tool-free assembly

– **Cable holder**

Colour	Material	Part no.
W	Nylon	Z10K0009

For example, for securing the distribution cable

Colour	Colour
HGR Light grey	R7037 RAL 7037 dust grey
SW Silk white	WGR White grey
TGR Dark grey	S Black
NI Nickel plated	W White

Page instructions

Overview – AVENTOS HS	35	Planning – Blum distance bumper	39	Assembly, removal and adjustment
Fixing system for thin fronts – EXPANDO T	554	Planning – SERVO-DRIVE switch	39	
Assembly recommendation and limitation of liability – EXPANDO T	555	SERVO-DRIVE uno – market list	682	
		Overview – assembly devices	561	
Accessories – general	70	Reference values for front weight FG (kg)	668	
Planning	38	Machine directive	665	
		More technical details	662	Short-URL
				www.blum.com/a120

Lift systems



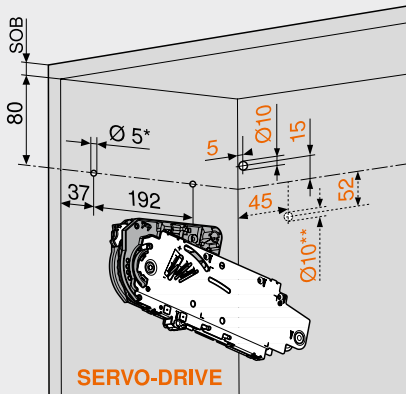
- ▶ AVENTOS HS – up and over lift system
- ▶▶ Standard | SERVO-DRIVE

Wooden fronts, wide and narrow alu frames

Webcode
DQDADA

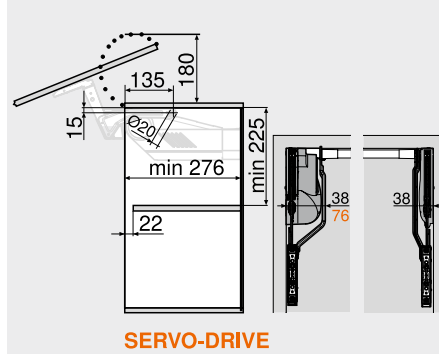
Planning

Drilling position

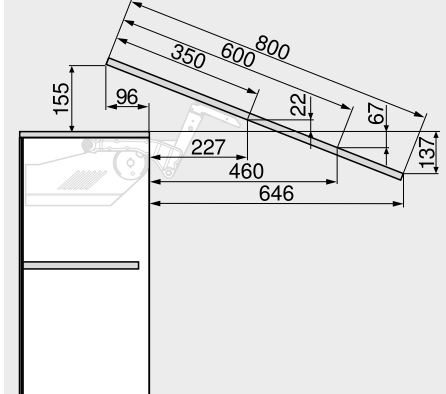


5 x chipboard screws Ø 4 x 35 mm
Drilling for SERVO-DRIVE distribution cable, left only
SOB Top panel thickness
* Drilling depth 5 mm
** Alternative drilling

Space requirement

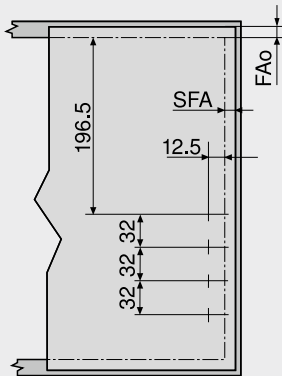


SERVO-DRIVE



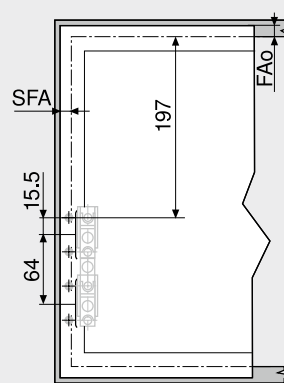
Dimensions depend on tilt adjustment

Front assembly – wooden fronts and wide alu frames



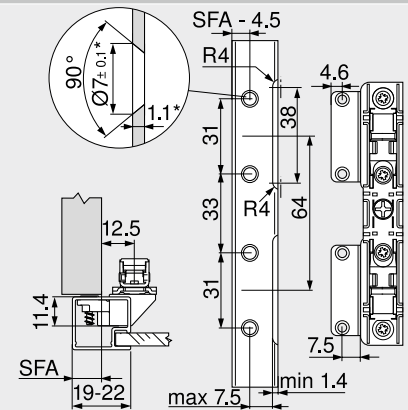
Use 4 chipboard screws (609.1x00) for wooden fronts
Use 4 counter sunk self tapping screws (660.0950) for wide alu frames
FAo Upper front overlay
SFA Front overlay of the side panel
Wall application: min. gap required 5 mm

Front assembly – narrow alu frames



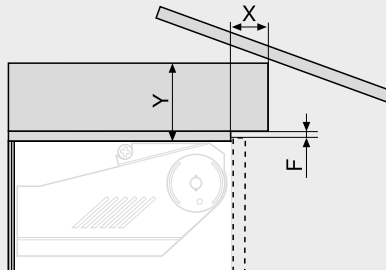
FAo Upper front overlay
SFA Front overlay of the side panel
Wall application: min. gap required 5 mm

Narrow alu frames



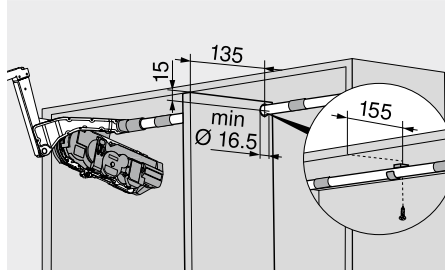
For frame width 19 mm, a side front overlay SFA of 11–18 mm is possible
* When changing material thickness, adjust the assembly dimensions accordingly

Space requirement – cornice | crown



Gap F (mm)	X max. (mm)	Y max. (mm)
3.0	35	101
2.0	31	101
1.5	28	101

Connecting piece

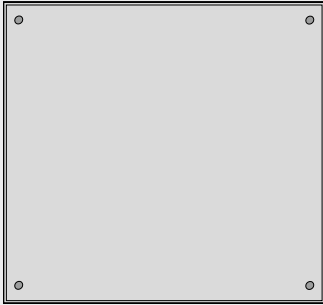


Wooden fronts, wide and narrow alu frames

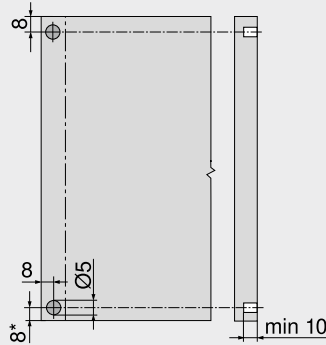
Webcode
 DQDADA

Planning

Blum distance bumper (SERVO-DRIVE application only)



Insert Blum distance bumper (do not glue)

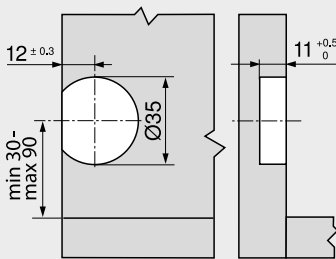


Recommendation for aluminium frames

Consider drilling for the Blum distance bumper in the cabinet side
 A trial application must be carried out when fixing to the front

* From cabinet bottom edge for fronts that protrude below

SERVO-DRIVE switch



Page instructions

Overview – AVENTOS HS	35	Assembly, removal and adjustment
Order specification – wooden fronts, wide and narrow alu frames	36	
Overview – assembly devices	561	Short-URL
Machine directive	665	www.blum.com/a120
More technical details	662	



Lift systems



▶ AVENTOS HL – lift up

Smooth motion for the lift up



With AVENTOS HL, the front lifts up parallel to the cabinet front edge. This lift system is ideal for applications in high and wall cabinets with fronts above or in larger unit installations as well as recessed cabinets, e.g. to conceal electrical appliances.

- Silent and effortless closing, thanks to **BLUMOTION**
- Easy to open
- Stops at any opening position
- Provides excellent access to the cabinet interior
- Suitable for cabinets with cabinets above, as well as cornice and crown moulding
- Small programme, huge application variety
- Easy assembly and adjustment
- Stability, even with wide fronts
- Excellent durability
- No protruding parts
- Optional: SERVO-DRIVE for AVENTOS, the electrical motion support system for wall cabinets

Opening and closing – easy and comfortable



Regardless of the weight and size, AVENTOS HL only requires light operating forces for easy opening and closing. The variable stop ensures that the front always remains in the desired position

Thanks to the integrated BLUMOTION, both heavy and light fronts close silently and effortlessly

Other advantages that will inspire both you and your customers

**Excellent durability**

The core element of the lift mechanism is a robust spring package. The result: excellent durability

**No protruding parts**

Removable lever arm – an advantage for furniture manufacturing and kitchen installation

**Cornice and crown moulding**

AVENTOS HL is suitable for cabinets with cabinets above, as well as those with cornice and crown moulding

Applications

Webcode Page

▶▶ **Standard | SERVO-DRIVE**



Wooden fronts, wide and narrow alu frames

Symbolic image

DQDB2M

42

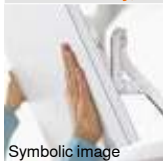
▶▶ **Accessories**



Screws	70
Centre bit	70
Door buffer	70
Screwdriver	71
Cross slot bit	71

Symbolic image

▶▶ **Assembly, removal and adjustment**



Assembly, removal and adjustment



Machine directive

Detailed information on the Machine Directive

665

Short-URL

www.blum.com/a130

Short-URL

www.blum.com/sd/guideline

Symbolic image

Pictograph



Item Available Upon Request

Lift systems



- ▶ AVENTOS HL – lift up
- ▶▶ Standard | SERVO-DRIVE

Wooden fronts, wide and narrow alu frames

Webcode

DQDB2M



- Well-suited to small-area, single fronts
- Cabinet height KH 300–580 mm
- Cabinet width KB up to 1800 mm
- Silent and effortless closing, thanks to **BLUMOTION**
- Light operating forces
- Perfect motion with a variable stop
- Tool-free assembly
- 3-dimensional front adjustment
- Simple, infinitely variable lift mechanism

Lift mechanism

In order to select the correct lift mechanism, it is necessary to determine both the cabinet height KH and the front weight FG (including the handle)

Example

Cabinet height KH = 390 mm

Front weight FG = 6 kg

Lift mechanism selection = 20L2500.05

Lever arm selection = 20L3500.06

Lever arm for SERVO-DRIVE = 21L3500.01

We recommend the more powerful lift mechanism for overlapping areas.

 Standard

 SERVO-DRIVE

Order information

1 <input type="checkbox"/> <input checked="" type="checkbox"/> Lift mechanism set					Part no.
Cabinet height KH (mm)					
	300–349	350–399	400–550	450–580	
Lever arm set					
<input type="checkbox"/>	20L3200.06	20L3500.06	20L3800.06	20L3900.06	
<input checked="" type="checkbox"/>	21L3200.01	21L3500.01	21L3800.01	21L3900.01	
Weight of front incl. handle (kg)	1.25–4.25	1.25–2.50			20L2100.05
	3.50–7.25	1.75–5.00	1.75–3.50		20L2300.05
	6.50–12.00	4.25–9.00	2.75–6.75	2.00–5.25	20L2500.05
	11.00–20.00	8.00–14.75	5.75–11.75	4.25–9.25	20L2700.05
		13.50–20.00	10.50–20.00	8.25–16.50	20L2900.05
1	2 x Lift mechanism (symmetrical)				
-	10 x Chipboard screws Ø 4 x 35 mm				

2 <input type="checkbox"/> Lever arm set		Part no.
Cabinet height KH (mm)		
	300–349	20L3200.06
	350–399	20L3500.06
	400–550	20L3800.06
	450–580	20L3900.06

Composed of:

- 2a 1 x Lever arm left
- 2b 1 x Lever arm right
- 2c 2 x Cross stabiliser cover cap oval

3 <input type="checkbox"/> Cover cap set				Part no.
Colour	Material			
HGR SW TGR	Nylon			20L8000.01

Composed of:

- 3a 1 x Cover cap large left
- 3b 1 x Cover cap large right
- 3c 2 x Round cover cap stamped with Blum logo

2 <input checked="" type="checkbox"/> Lever arm set for SERVO-DRIVE		Part no.
Cabinet height KH (mm)		
	300–349	21L3200.01
	350–399	21L3500.01
	400–550	21L3800.01
	450–580	21L3900.01

Composed of:

- 2a 1 x SERVO-DRIVE lever arm left
- 2b 1 x Lever arm right
- 2c 2 x Cross stabiliser cover cap oval

3 <input checked="" type="checkbox"/> Cover cap set for SERVO-DRIVE				Part no.
Colour	Material			
HGR SW TGR	Nylon			21L8000

Composed of:

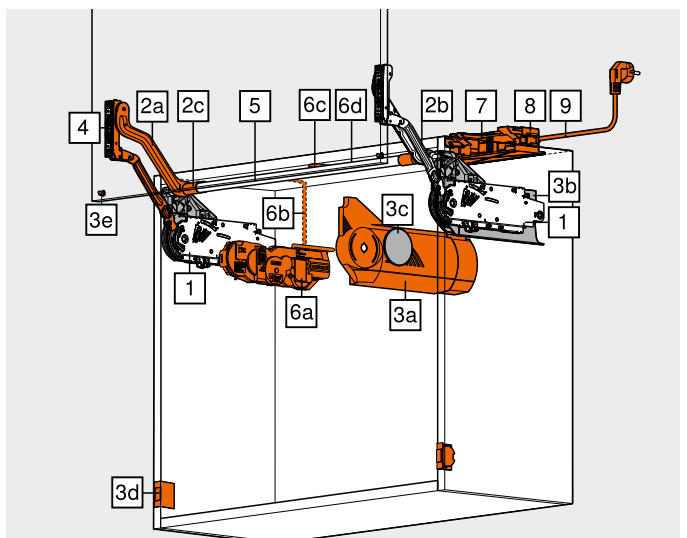
- 3a 1 x SERVO-DRIVE cover cap large left
- 3b 1 x Cover cap large right
- 3c 2 x Round cover cap stamped with Blum logo
- 3d 2 x SERVO-DRIVE switch
- 3e 4 x Blum distance bumper, Ø 5 mm

4 <input type="checkbox"/> <input checked="" type="checkbox"/> Front fixing bracket set			Part no.
Version			
Wooden fronts and wide alu frames	1		20S4200
Narrow alu frames			20S4200A
1 Use 4 chipboard screws (609.1x00) per side for wooden fronts			
1 Use 4 counter sunk self tapping screws (660.0950) per side for wide alu frames			

4 <input type="checkbox"/> <input checked="" type="checkbox"/> Front fixing bracket			Part no.
Version			
Thin fronts			20S42T1
EXPANDO T suitable for thin fronts – see page instructions			

5 <input type="checkbox"/> <input checked="" type="checkbox"/> Cross stabiliser rod oval			Part no.
Length (mm)	Version		
1061	Oval	20Q1061UA	
For cutting to size			
Cutting	<input type="checkbox"/> Internal cabinet width LW – 129 mm		
	<input checked="" type="checkbox"/> Internal cabinet width LW – 164 mm		

- <input type="checkbox"/> <input checked="" type="checkbox"/> Connecting piece set for cross stabiliser			Part no.
Internal cabinet width LW 1190 mm and higher			
Diameter (mm)	Material		
Ø 16	Aluminium	20Q153ZA	
Composed of:			
- 1 x Connecting piece			
- 1 x Fixing			
- 2 x Cross stabiliser cover cap			
Cutting for 5	<input type="checkbox"/> Internal cabinet width LW / 2 – 147 mm		
	<input checked="" type="checkbox"/> Internal cabinet width LW / 2 – 165 mm		



Wooden fronts, wide and narrow alu frames

Webcode
DQDB2M

Order information

6		SERVO-DRIVE set		
	Colour	Material	Part no.	
	R7037	Nylon	Z1FA000	
Composed of:				
6a	1 x Drive unit			
6b	1 x Distribution cable, 1500 mm			
6c	1 x Connecting node			
6d	2 x Cable end protector			
We recommend one SERVO-DRIVE drive unit per set for connected fronts				

7		Blum transformer 24 W		
	Language package	Part no.	Language package	Part no.
	A	Z10NE030A	F	Z10NE030F
	B	Z10NE030B	G	Z10NE030G
	C	Z10NE030C	H	Z10NE030H
	D	Z10NE030D	J	Z10NE030J
	E	Z10NE030E		

Incl. instruction leaflet and installation instructions
Without flex
Language package
A DE | EN | FR | IT | NL F BG | ET | LT | LV | RO | RU
B DA | EN | FI | NO | SV G EN | ES | FR
C EL | EN | HR | SL | SR | TR H EN | ZH
D EN | ES | FR | IT | PT J JA
E CS | HU | PL | SK
Language descriptions as per ISO-639

8		Transformer unit housing		
	Colour	Material	Part no.	
	WGR	Nylon	Z10NG120	
For Blum transformer 24 W				

9		Flex		
	Market	Part no.	Market	Part no.
	AR	Z10M200A	JP	Z10M200J
	UK	Z10M200B	AU	Z10M200K
	CH	Z10M200C	CL	Z10M200L
	DK	Z10M200D	CN	Z10M200N
	Europe	Z10M200E	BR	Z10M200S.01
	Europe	Z10M200E.OS	TW	Z10M200T
	IN	Z10M200H	US CA	Z10M200U
	IL	Z10M200I	ZA	Z10M200Z

¹ Without plug

Alternative to 7 | 8 | 9

–		Blum plug-in transformer 12 W				
Only suitable for one drive unit						
	Network adapter	Language package	Part no.	Network adapter		
				Language package		
	E	A	Z10NA30EAF	E	F	Z10NA30EFF
	E	B	Z10NA30EBF	B	A	Z10NA30BAF
	E	C	Z10NA30ECF	K	D	Z10NA30KDF
	E	D	Z10NA30EDF	U	G	Z10NA30UGF
	E	E	Z10NA30EEF			
Network adapter						
	E	B	K	U		
Composed of:						
– 1 x Blum plug-in transformer 12 W						
Incl. cable, 1120 mm (with distribution cable extendible to max. 2000 mm)						
Other combinations available upon request						
¹ See the Information chapter for a detailed market list						

Accessories

–		Distribution cable and cable end protector		
	Colour	Length (m)	Part no.	
	S	8	Z10K800AE	

Composed of:
6b 1 x Distribution cable
6d 5 x Cable end protector
For cutting to size
Can be used as a distribution cable

–		Connecting node and cable end protector		
	Colour	Material	Part no.	
	S	Nylon	Z10V100E.01	

Composed of:
6c 1 x Connecting node
6d 2 x Cable end protector
Tool-free assembly

–		Cable holder		
	Colour	Material	Part no.	
	W	Nylon	Z10K0009	

For example, for securing the distribution cable

Colour		Colour	
HGR	Light grey	WGR	White grey
SW	Silk white	S	Black
TGR	Dark grey	W	White
R7037	RAL 7037 dust grey		

Page instructions

Overview – AVENTOS HL	41	Planning – Blum distance bumper	45	Assembly, removal and adjustment	
Fixing system for thin fronts – EXPANDO T	554	Planning – SERVO-DRIVE switch SERVO-DRIVE uno – market list	45 682		
Assembly recommendation and limitation of liability – EXPANDO T	555	Overview – assembly devices	561	Short-URL	
Accessories – general	70	Reference values for front weight FG (kg)	668		
Planning	44	Machine directive	665		
		More technical details	662		

Lift systems



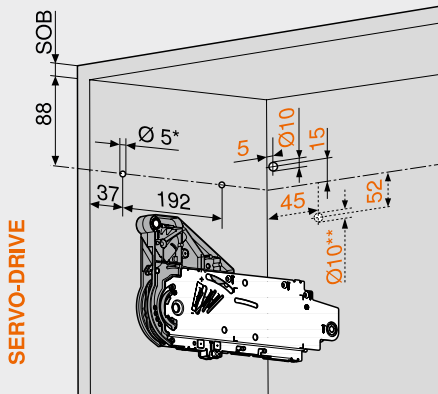
- ▶ AVENTOS HL – lift up
- ▶▶ Standard | SERVO-DRIVE

Wooden fronts, wide and narrow alu frames

Webcode
DQDB2M

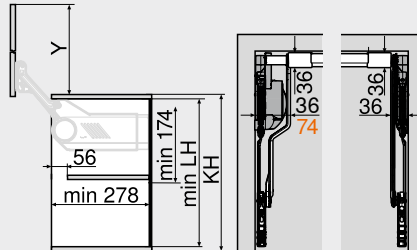
Planning

Drilling position

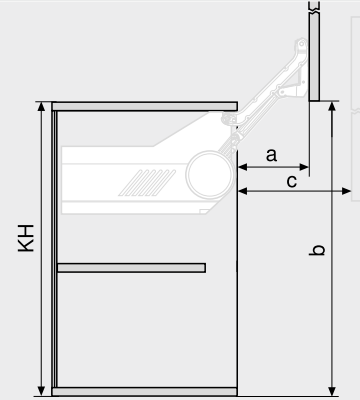


5 x chipboard screws Ø 4 x 35 mm
Drilling for SERVO-DRIVE distribution cable, left only
SOB Top panel thickness
* Drilling depth 5 mm
** Alternative drilling

Space requirement



SERVO-DRIVE



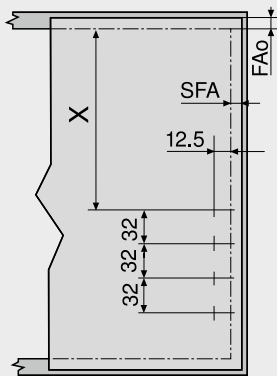
Lever arm set		LH min.	Y (mm) ¹
Standard	SERVO-DRIVE	(mm) ¹	
20L3200.06	21L3200.01	262.0	264.0
20L3500.06	21L3500.01	312.0	352.0
20L3800.06	21L3800.01	362.0	440.0
20L3900.06	21L3900.01	412.0	529.0

¹ Dimensions based on lower gap F = 0 mm
LH Internal cabinet height
KH Cabinet height

Lever arm set		a (mm)	b (mm) ¹	c max.
Standard	SERVO-DRIVE			(mm)
20L3200.06	21L3200.01	114.0	257.0	159.0
20L3500.06	21L3500.01	146.0	345.0	209.0
20L3800.06	21L3800.01	178.0	433.0	259.0
20L3900.06	21L3900.01	210.0	522.0	309.5

¹ Dimensions based on lower gap F = 0 mm
KH Cabinet height

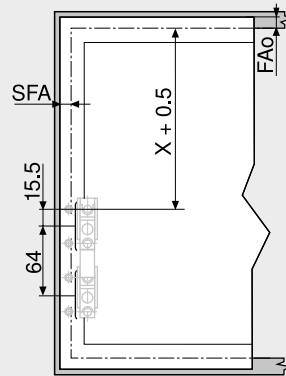
Front assembly – wooden fronts and wide alu frames



Lever arm set		X (mm)
Standard	SERVO-DRIVE	
20L3200.06	21L3200.01	153
20L3500.06	21L3500.01	203
20L3800.06	21L3800.01	253
20L3900.06	21L3900.01	303

FAo Upper front overlay
SFA Front overlay of the side panel
Wall application: min. gap required 5 mm

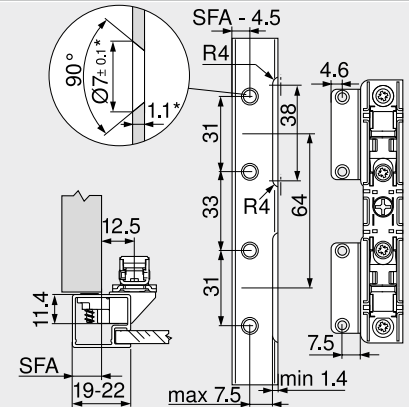
Front assembly – narrow alu frames



Lever arm set		X (mm)
Standard	SERVO-DRIVE	
20L3200.06	21L3200.01	153
20L3500.06	21L3500.01	203
20L3800.06	21L3800.01	253
20L3900.06	21L3900.01	303

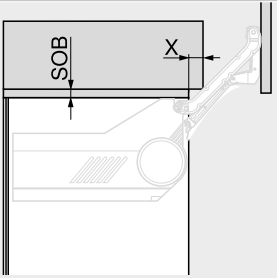
FAo Upper front overlay
SFA Front overlay of the side panel
Wall application: min. gap required 5 mm

Narrow alu frames



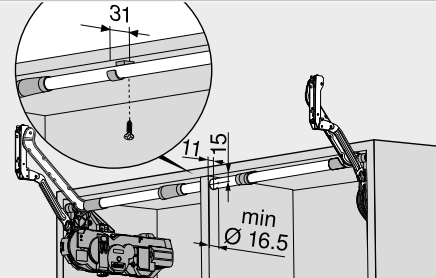
For frame width 19 mm, a side front overlay SFA of 11–18 mm is possible
* When changing material thickness, adjust the assembly dimensions accordingly

Space requirement – cornice | crown



Top panel thickness SOB (mm)	X (mm)
16	28
18	30
19	31

Connecting piece

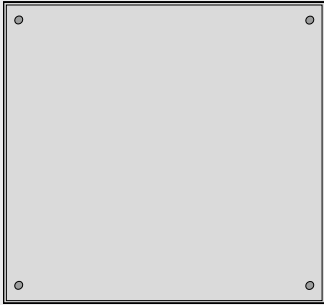


Wooden fronts, wide and narrow alu frames

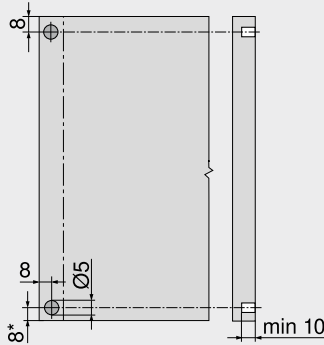
Webcode
 DQDB2M

Planning

Blum distance bumper (SERVO-DRIVE application only)



Insert Blum distance bumper (do not glue)

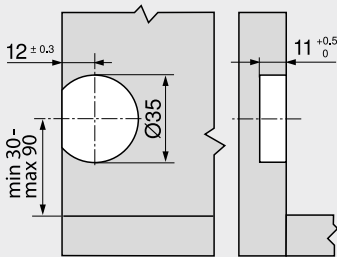


Recommendation for aluminium frames

Consider drilling for the Blum distance bumper in the cabinet side
 A trial application must be carried out when fixing to the front

* From cabinet bottom edge for fronts that protrude below

SERVO-DRIVE switch



Page instructions

Overview – AVENTOS HL	41	Assembly, removal and adjustment
Order specification – wooden fronts, wide and narrow alu frames	42	
Overview – assembly devices	561	Short-URL www.blum.com/a130
Machine directive	665	
More technical details	662	



Lift systems



▶ AVENTOS HK top – stay lift

Experience unprecedented ease of use



AVENTOS HK top is compact, minimalistic and highly functional. It is suitable for both small and large lift systems in tall and wall cabinets. Opening angle stop and safety mechanism are integrated. Cornices were also taken into account during development.

- Silent and effortless closing, thanks to **BLUMOTION**
- Easy to open
- Stops at any opening position
- Provides excellent access to the cabinet interior
- Suitable for wall cabinets with cornice or crown moulding
- Small programme, huge application variety
- Easy assembly and adjustment
- Stability, even with wide fronts
- Excellent durability
- No protruding parts
- Optional: SERVO-DRIVE for AVENTOS HK top
- Optional: TIP-ON for AVENTOS



Opening and closing – easy and comfortable



Small installation size, straight lines, harmonious proportions, smooth surfaces: AVENTOS HK top has already won multiple awards for its design



Thanks to its minimalist design, the stay lift fits harmoniously into furniture in all areas of the home



Choose between two symmetrical lift mechanism types – and two types of assembly. The lift mechanism with the integrated positioning system can be installed without pre-drilling. The lift mechanism with pre-mounted system screws can also be installed to the unattached cabinet side. Four drill holes in the 32 tier system are required for this



Other advantages that will inspire both you and your customers

**Excellent durability**

The core element of the lift mechanism is a robust spring package. The result: high durability combined with light operating forces

**Motion technologies**








Whether with SERVO-DRIVE or TIP-ON: combined with the right motion technology, they make opening and closing a memorable experience

**Integrated safety mechanism**

The innovative mechanism prevents the lever arm from opening unintentionally

**Integrated opening angle stop**

The distance the front should open is infinitely variable and can therefore be set exactly as required

Applications		Webcode	Page
▶▶ Standard SERVO-DRIVE			
	Wooden fronts, wide and narrow alu frames		
		DQHFJY	48
▶▶ TIP-ON			
	Wooden fronts, wide and narrow alu frames – TIP-ON		
		DQHS7Y	52
	TIP-ON 956. – short version with magnet		54
	TIP-ON 956A – long version with magnet		54
▶▶ Accessories			
	Adapter plates		55
	Screws		70
	Centre bit		70
	Door buffer		70
	Screwdriver		71
	Cross slot bit		71
Symbolic image			
▶▶ Assembly, removal and adjustment			
	Assembly, removal and adjustment		Machine directive Detailed information on the Machine Directive
			665
	Short-URL www.blum.com/a170		Short-URL www.blum.com/sd/guideline
Symbolic image			

Pictograph		
	Item Available Upon Request	

Lift systems



- ▶ AVENTOS HK top – stay lift
- ▶▶ Standard | SERVO-DRIVE

Wooden fronts, wide and narrow alu frames

Webcode

DQHFJY



- Well-suited for low frontal heights in the wall cabinet, the high cabinet and over the refrigerator
- Cabinet height KH 205–600 mm
- Cabinet width KB up to 1800 mm
- Silent and effortless closing, thanks to **BLUMOTION**
- Light operating forces
- Perfect motion with a variable stop
- Tool-free assembly
- 3-dimensional front adjustment
- Simple, infinitely variable lift mechanism
- No hinges are necessary
- Integrated safety mechanism
- Integrated infinitely variable opening angle stop

Power factor LF

Cabinet height KH (mm) x front weight FG incl. double handle weight (kg)

We recommend the more powerful lift mechanism for overlapping areas.

 Standard

 SERVO-DRIVE

Order information

1 <input type="checkbox"/> <input checked="" type="checkbox"/> Lift mechanism set			
Fixing with pre-mounted system screws			
Power factor LF	Opening angle	Part no.	
420–1610	107°	22K2310	
930–2800	107°	22K2510	
1730–5200	107°	22K2710	
3200–9000	107°	22K2910	

Composed of:

- 1 2 x Symmetrical lift mechanism with pre-mounted system screws

Note

Max. front weight FG 18 kg for two lift mechanisms

The power factor LF can be increased by 50 % when a third lift mechanism is used. The power factor LF and the front weight can be increased by 50 % when a third lift mechanism is used. The reason for this is to prevent the middle of the front from sagging when open

1 <input type="checkbox"/> <input checked="" type="checkbox"/> Lift mechanism set			
Fixing with chipboard screws with positioning system			
Power factor LF	Opening angle	Part no.	
420–1610	107°	22K2300	
930–2800	107°	22K2500	
1730–5200	107°	22K2700	
3200–9000	107°	22K2900	

Composed of:

- 1 2 x Lift mechanism (symmetrical)

Incl. positioning system

- 8 x Chipboard screws Ø 4 x 35 mm

Note

Max. front weight FG 18 kg for two lift mechanisms

The power factor LF can be increased by 50 % when a third lift mechanism is used. The power factor LF and the front weight can be increased by 50 % when a third lift mechanism is used. The reason for this is to prevent the middle of the front from sagging when open

3 <input type="checkbox"/> <input checked="" type="checkbox"/> Cover cap set			
Colour	Material	Part no.	
HGR SW TGR	Nylon	22K8000	

Composed of:

- 1 x Cover cap left
- 3b 1 x Cover cap right
- 3c 2 x Branding element, stamped with Blum logo
- IN-G

3 <input checked="" type="checkbox"/> <input type="checkbox"/> Cover cap set for SERVO-DRIVE			
Colour	Material	Part no.	
HGR SW TGR	Nylon	23K8000	

Composed of:

- 3a 1 x SERVO-DRIVE cover cap left
- 3b 1 x Cover cap right
- 3c 2 x Branding element, stamped with Blum logo
- IN-G
- 3d 2 x SERVO-DRIVE switch
- 3e 2 x Blum distance bumper, Ø 5 mm

4 <input type="checkbox"/> <input checked="" type="checkbox"/> Front fixing bracket set			
Version			Part no.
Wooden fronts and wide alu frames	1	20S4200	
Narrow alu frames		20S4200A	

1 Use 4 chipboard screws (609.1x00) per side for wooden fronts

1 Use 4 counter sunk self tapping screws (660.0950) per side for wide alu frames

4 <input type="checkbox"/> <input checked="" type="checkbox"/> Front fixing bracket		
Version	Part no.	
Thin fronts	20S4211	

EXPANDO T suitable for thin fronts – see page instructions

6 <input checked="" type="checkbox"/> SERVO-DRIVE set			
Colour	Material	Part no.	
R7037	Nylon	23KA000	

Composed of:

- 6a 1 x Drive unit
- 6b 1 x Distribution cable, 1500 mm
- 6c 1 x Connecting node
- 6d 2 x Cable end protector

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

7 <input checked="" type="checkbox"/> Blum transformer 24 W			
Language package	Part no.	Language package	Part no.
A	Z10NE030A	F	Z10NE030F
B	Z10NE030B	G	Z10NE030G
C	Z10NE030C	H	Z10NE030H
D	Z10NE030D	J	Z10NE030J
E	Z10NE030E		

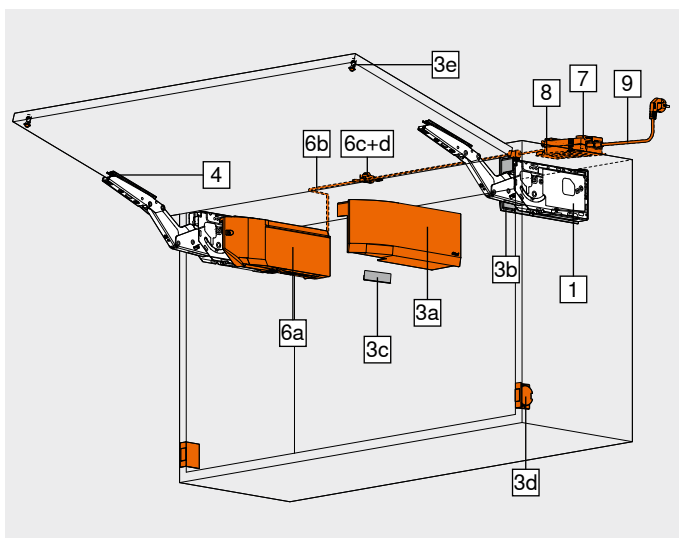
Incl. instruction leaflet and installation instructions

Without flex

Language package

A	DE EN FR IT NL	F	BG ET LT LV RO RU
B	DA EN FI NO SV	G	EN ES FR
C	EL EN HR SL SR TR	H	EN ZH
D	EN ES FR IT PT	J	JA
E	CS HU PL SK		

Language descriptions as per ISO-639




Wooden fronts, wide and narrow alu frames

Webcode

DQHFJY

Order information


8		Transformer unit housing		
	Colour	Material	Part no.	
	WGR	Nylon	Z10NG120	

For Blum transformer 24 W

9		Flex		
	Market	Part no.	Market	Part no.
	AR	Z10M200A	JP	Z10M200J
	UK	Z10M200B	AU	Z10M200K
	CH	Z10M200C	CL	Z10M200L
	DK	Z10M200D	CN	Z10M200N
	Europe	Z10M200E	BR	Z10M200S.01
	Europe	Z10M200E.OS	TW	Z10M200T
	IN	Z10M200H	US CA	Z10M200U
	IL	Z10M200I	ZA	Z10M200Z

¹ Without plug

Alternative to 7 | 8 | 9

–		Blum plug-in transformer 12 W		
Only suitable for one drive unit				
	Network adapter	Language package	Part no.	Network adapter
	E	A	Z10NA30EAF	E
	E	B	Z10NA30EBF	B
	E	C	Z10NA30ECF	K
	E	D	Z10NA30EDF	U
	E	E	Z10NA30EEF	

Network adapter	1
E	B
K	U


Composed of:

- 1 x Blum plug-in transformer 12 W
- Incl. cable, 1120 mm (with distribution cable extendible to max. 2000 mm)

Other combinations available upon request

¹ See the Information chapter for a detailed market list


Accessories

–		Distribution cable and cable end protector		
	Colour	Length (m)	Part no.	
	S	8	Z10K800AE	

Composed of:

- 6b 1 x Distribution cable
- 6d 5 x Cable end protector

For cutting to size
Can be used as a distribution cable

–		Connecting node and cable end protector		
	Colour	Material	Part no.	
	S	Nylon	Z10V100E.01	

Composed of:

- 6c 1 x Connecting node
- 6d 2 x Cable end protector


Tool-free assembly

–		Cable holder		
	Colour	Material	Part no.	
	W	Nylon	Z10K0009	

For example, for securing the distribution cable

Colour		Colour	
HGR	Light grey	WGR	White grey
SW	Silk white	S	Black
TGR	Dark grey	W	White
R7037	RAL 7037 dust grey	IN-G	Inmold brushed stainless steel

Page instructions

Overview – AVENTOS HK top	47	Planning – Blum distance bumper	51	Assembly, removal and adjustment
Fixing system for thin fronts – EXPANDO T	554	Planning – SERVO-DRIVE switch	51	
Assembly recommendation and limitation of liability – EXPANDO T	555	SERVO-DRIVE uno – market list	682	
		Overview – assembly devices	561	
Accessories – general	70	Reference values for front weight FG (kg)	668	
Planning	50	Machine directive	665	
		More technical details	662	Short-URL
				www.blum.com/a170

Lift systems



- ▶ AVENTOS HK top – stay lift
- ▶▶ Standard | SERVO-DRIVE

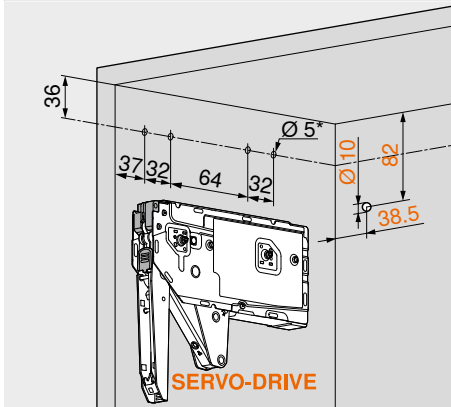
Wooden fronts, wide and narrow alu frames

Webcode

DQHFJY

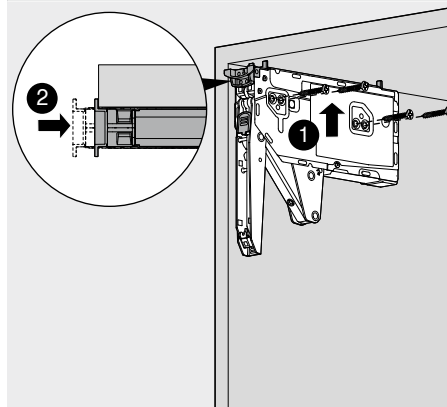
Planning

Drilling position – system screws



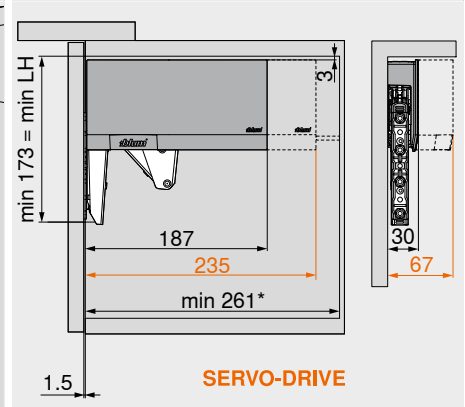
* Drilling depth 11.5 mm

Drilling position – chipboard screws



4 x chipboard screws Ø 4 x 35 mm

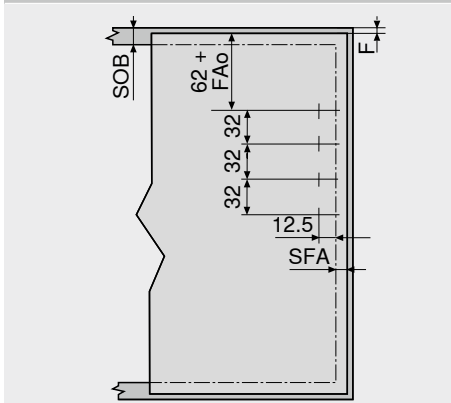
Space requirement



LH Internal cabinet height

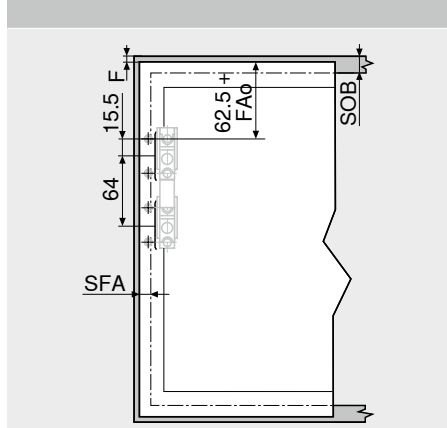
* Min. 261 mm with visible wall hanging bracket

Front assembly – wooden fronts and wide alu frames

Use 4 chipboard screws (609.1x00) for wooden fronts
Use 4 counter sunk self tapping screws (660.0950) for wide alu frames

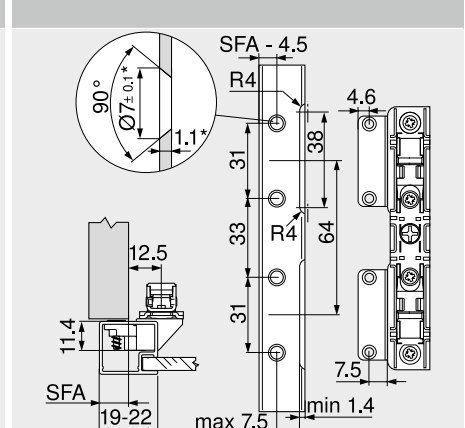
SOB Top panel thickness
FAo Upper front overlay
Max. 25.4 mm
SFA Front overlay of the side panel
F Gap

Front assembly – narrow alu frames



SOB Top panel thickness
FAo Upper front overlay
Max. 25.4 mm
SFA Front overlay of the side panel
F Gap

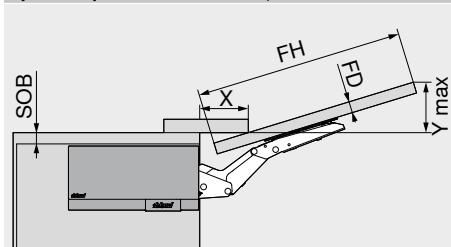
Narrow alu frames



For frame width 19 mm, a side front overlay SFA of 11–18 mm is possible

* When changing material thickness, adjust the assembly dimensions accordingly

Space requirement – cornice | crown



Space requirement (mm)

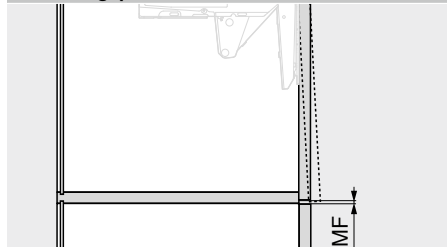
At max. opening angle

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

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

SOB Top panel thickness
FH Front height
FD Front thickness

Minimum gap



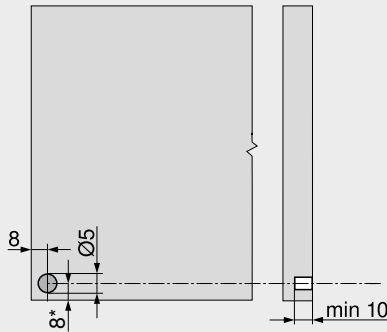
MF Minimum gap 2 mm

Wooden fronts, wide and narrow alu frames

Webcode
DQHFJY

Planning

Blum distance bumper (SERVO-DRIVE application only)



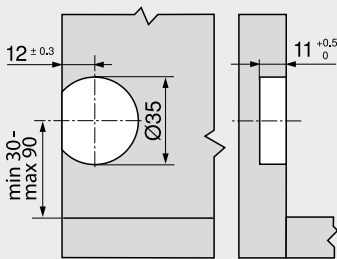
Insert Blum distance bumper (do not glue)
Do not use bumpers in the upper third

Recommendation for aluminium frames

Consider drilling for the Blum distance bumper in the cabinet side
A trial application must be carried out when fixing to the front

* From cabinet bottom edge for fronts that protrude below

SERVO-DRIVE switch



Page instructions

Overview – AVENTOS HK top	47	AVENTOS HK top
Order specification – wooden fronts, wide and narrow alu frames	48	
Overview – assembly devices	561	Short-URL
Machine directive	665	www.blum.com/i014
More technical details	662	



Assembly, removal and adjustment

Short-URL	www.blum.com/a170
-----------	--



Lift systems



- ▶ AVENTOS HK top – stay lift
- ▶▶ TIP-ON

Wooden fronts, wide and narrow alu frames – TIP-ON

Webcode

DQHS7Y



- TIP-ON for handle-less lift systems
- Cabinet height KH 205–600 mm
- Cabinet width KB up to 1800 mm
- For drilling or in combination with adapter plates

Power factor LF

Cabinet height KH (mm) x front weight FG incl. double handle weight (kg)

We recommend the more powerful lift mechanism for overlapping areas.

TIP-ON

Order information

1 ■ Lift mechanism set for TIP-ON			
Fixing with pre-mounted system screws			
Power factor LF	Opening angle	Part no.	
420–1610	107°	22K2310T	
930–2800	107°	22K2510T	
1730–5200	100°	22K2710T	
3200–9000	100°	22K2910T	

Composed of:

- 1 2 x Symmetrical lift mechanism with pre-mounted system screws

Note

Max. front weight FG 18 kg for two lift mechanisms

The power factor LF can be increased by 50 % when a third lift mechanism is used. The power factor LF and the front weight can be increased by 50 % when a third lift mechanism is used. The reason for this is to prevent the middle of the front from sagging when open

1 ■ Lift mechanism set for TIP-ON			
Fixing with chipboard screws with positioning system			
Power factor LF	Opening angle	Part no.	
420–1610	107°	22K2300T	
930–2800	107°	22K2500T	
1730–5200	100°	22K2700T	
3200–9000	100°	22K2900T	

Composed of:

- 1 2 x Lift mechanism (symmetrical) incl. positioning system
- 8 x Chipboard screws Ø 4 x 35 mm

Note

Max. front weight FG 18 kg for two lift mechanisms

The power factor LF can be increased by 50 % when a third lift mechanism is used. The power factor LF and the front weight can be increased by 50 % when a third lift mechanism is used. The reason for this is to prevent the middle of the front from sagging when open

3 ■ Cover cap set			
Colour	Material	Part no.	
HGR SW TGR	Nylon	22K8000	

Composed of:

- 1 x Cover cap left
- 3b 1 x Cover cap right
- 3c 2 x Branding element, stamped with Blum logo
- IN-G

4 ■ Front fixing bracket set			
Version	Part no.		
Wooden fronts and wide alu frames	20S4200		
Narrow alu frames	20S4200A		

1 Use 4 chipboard screws (609.1x00) per side for wooden fronts

1 Use 4 counter sunk self tapping screws (660.0950) per side for wide alu frames

4 ■ Front fixing bracket			
Version	Part no.		
Thin fronts	20S42T1		

EXPANDO T suitable for thin fronts – see page instructions

6 ■ TIP-ON set			
Version	Cabinet height KH (mm)	Part no.	
Short version	Up to 500	956.1004	
Extended version	Starting at 501	956A1004	

Composed of:

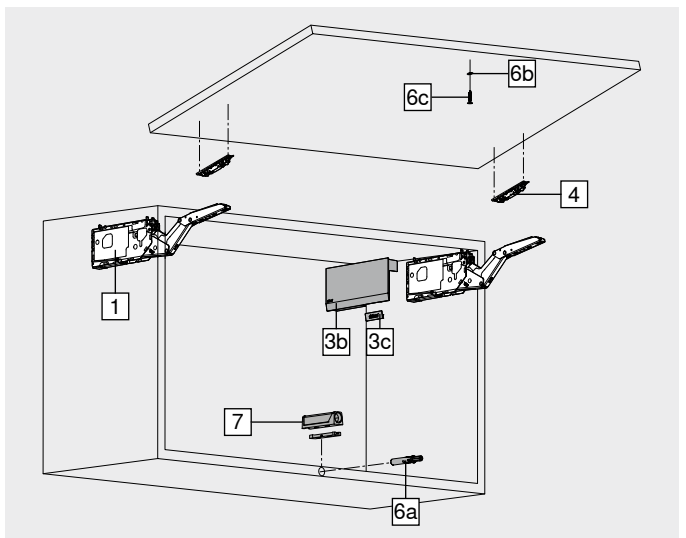
- 6a 1 x TIP-ON
- 6b 1 x Screw-on catch plate
- 6c 1 x Chipboard screw 609.1500
- 1 x Glue-on catch plate

Accessories

7 ■ Adapter plate			
Version	Colour	Part no.	
Inline adapter plate – short version	SW TS R7036 NI-L	956.1201	
Inline adapter plate – long version	SW TS R7036 NI-L	956A1201	
Cruciform adapter plate – long version	R7036	956A1501	

Colour

HGR	Light grey	R7036	RAL 7036 platinum grey
SW	Silk white	NI-L	Nickel lacquered
TGR	Dark grey	IN-G	Inmold brushed stainless steel
TS	Terra black		

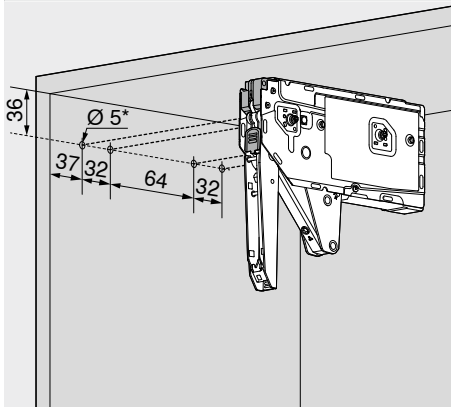


Wooden fronts, wide and narrow alu frames – TIP-ON

Webcode
DQHS7Y

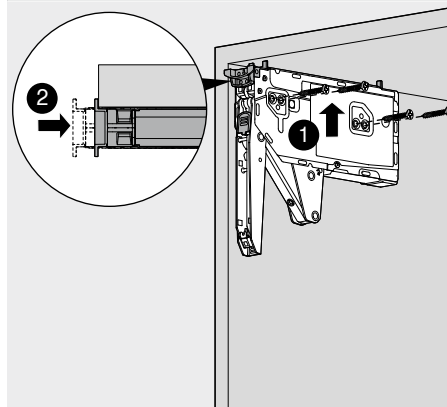
Planning

Drilling position – system screws



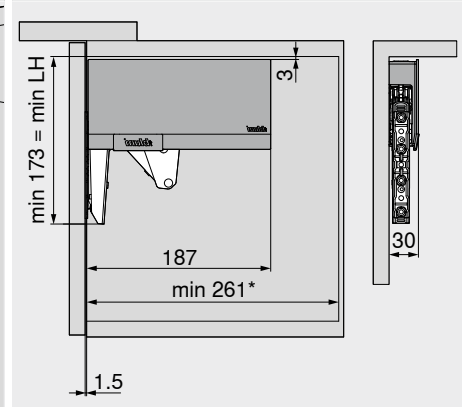
* Drilling depth 11.5 mm

Drilling position – chipboard screws



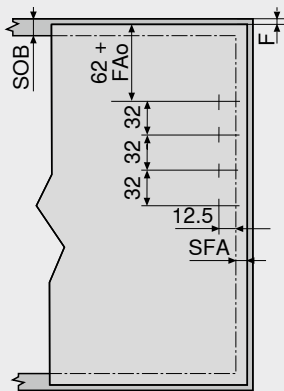
4 x chipboard screws Ø 4 x 35 mm

Space requirement



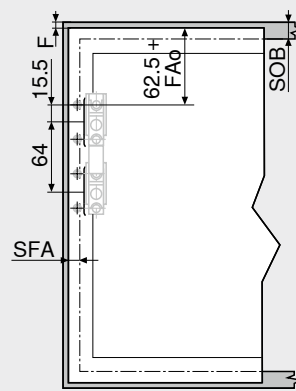
LH Internal cabinet height
* Min. 261 mm with visible wall hanging bracket

Front assembly – wooden fronts and wide alu frames



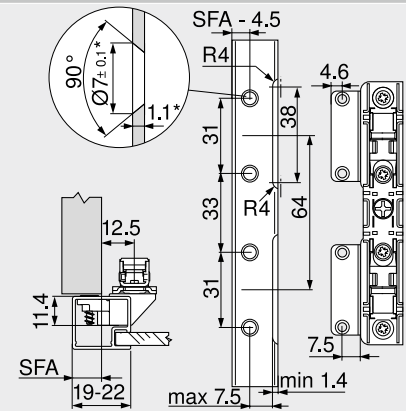
Use 4 chipboard screws (609.1x00) for wooden fronts
Use 4 counter sunk self tapping screws (660.0950) for wide alu frames
SOB Top panel thickness
FAo Upper front overlay
Max. 25.4 mm
SFA Front overlay of the side panel
F Gap

Front assembly – narrow alu frames



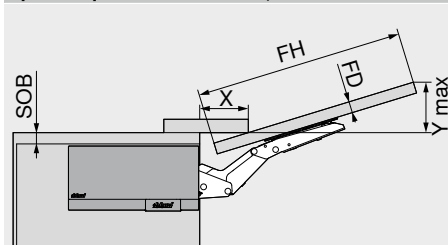
SOB Top panel thickness
FAo Upper front overlay
Max. 25.4 mm
SFA Front overlay of the side panel
F Gap

Narrow alu frames



For frame width 19 mm, a side front overlay SFA of 11–18 mm is possible
* When changing material thickness, adjust the assembly dimensions accordingly

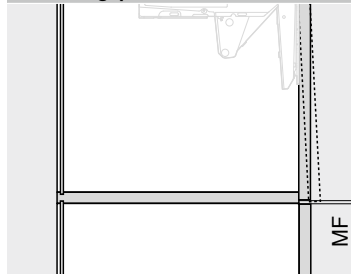
Space requirement – cornice | crown



Space requirement (mm)

At max. opening angle
 $Y = FH \times 0.29 + FD - SOB$
FD (mm) 16 19 22 26 28
X (mm) 68 57 47 33 27
SOB Top panel thickness
FH Front height
FD Front thickness

Minimum gap



MF Minimum gap 2 mm

Page instructions

Overview – AVENTOS HK top	47
TIP-ON 956x	54
Fixing system for thin fronts – EXPANDO T	554
Assembly recommendation and limitation of liability – EXPANDO T	555
Overview – assembly devices	561
More technical details	662

AVENTOS HK top

Short-URL

www.blum.com/i014

Assembly, removal and adjustment

Short-URL

www.blum.com/a170



Lift systems



- ▶ AVENTOS HK top – stay lift
- ▶▶ TIP-ON

TIP-ON 956. – short version with magnet



- For stay lifts up to a height of 500 mm
- For drilling or in combination with adapter plates
- Output path approx. 17 mm
- Setting +4/–1 mm

Order information

Colour	Material	Part no.
SW TS R7036	Nylon	956.1004

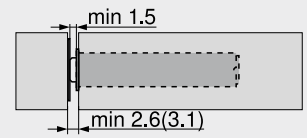
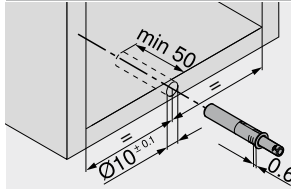
Composed of:

- 1 x TIP-ON 956. – short version with magnet
- 1 x Glue-on catch plate
Not suitable for powder-coated, waxed or oiled surfaces
- 1 x Screw-on catch plate

Colour

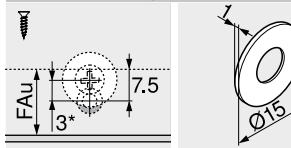
SW	Silk white
TS	Terra black
R7036	RAL 7036 platinum grey

Planning

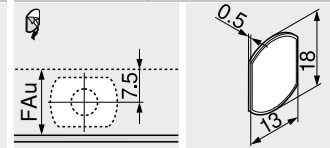


() Screw-on catch plate

Screw-on catch plate

FAU Bottom front overlay
* 3 mm offset installation

Glue-on catch plate



FAU Bottom front overlay

TIP-ON 956A – long version with magnet



- For stay lifts heights over 501 mm
- For drilling or in combination with adapter plates
- Output path approx. 38 mm
- Setting +4/–1 mm

Order information

Colour	Material	Part no.
SW TS R7036	Nylon	956A1004

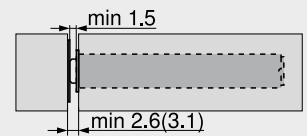
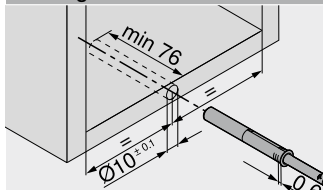
Composed of:

- 1 x TIP-ON 956A – long version with magnet
- 1 x Glue-on catch plate
Not suitable for powder-coated, waxed or oiled surfaces
- 1 x Screw-on catch plate

Colour

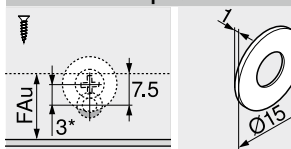
SW	Silk white
TS	Terra black
R7036	RAL 7036 platinum grey

Planning

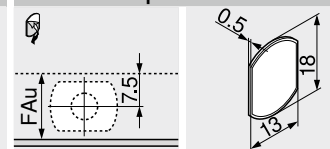


() Screw-on catch plate

Screw-on catch plate

FAU Bottom front overlay
* 3 mm offset installation

Glue-on catch plate



FAU Bottom front overlay

Page instructions

Overview – AVENTOS HK top	47
Accessories – straight adapter plates	55
Accessories – cruciform adapter plates	55

Assembly, removal and adjustment

Short-URL
www.blum.com/a170



Assembly

Drilling template for BLUMOTION TIP-ON	632
Positioning template for catch plate	652
MINIPRESS top for EASYSTICK	576
MINIPRESS top	580

Inline adapter plate – short version

20/17

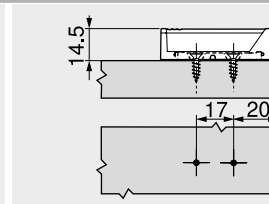
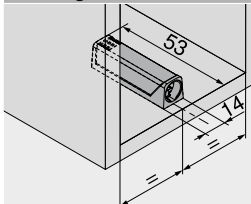


- Fixing with chipboard screws \varnothing 3.5 or \varnothing 4 mm
- Alternative assembly with system screws
- TIP-ON must be ordered separately

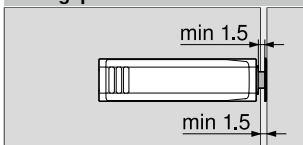
Order information

Colour	Material	Part no.
SW TS R7036 NI-L	Nylon	956.1201
Colour		
SW	Silk white	
TS	Terra black	
R7036	RAL 7036 platinum grey	
NI-L	Nickel lacquered	

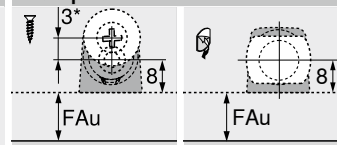
Planning



Front gap



Catch plate



FAu Bottom front overlay
* 3 mm offset installation

Inline adapter plate – long version

20/32

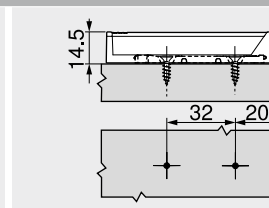
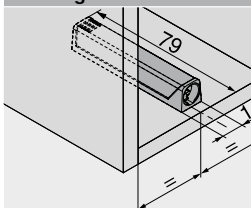


- Fixing with chipboard screws \varnothing 3.5 or \varnothing 4 mm
- Alternative assembly with system screws
- TIP-ON must be ordered separately

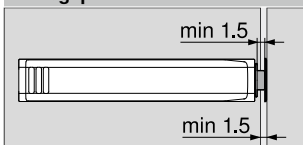
Order information

Colour	Material	Part no.
SW TS R7036 NI-L	Nylon	956A1201
Colour		
SW	Silk white	
TS	Terra black	
R7036	RAL 7036 platinum grey	
NI-L	Nickel lacquered	

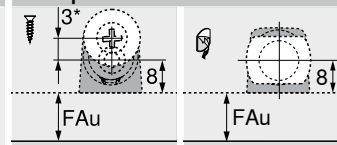
Planning



Front gap



Catch plate



FAu Bottom front overlay
* 3 mm offset installation

Cruciform adapter plate – long version

37/32

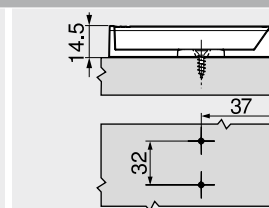
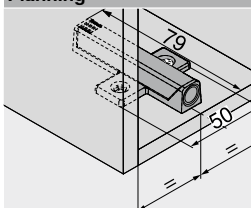


- Fixing with chipboard screws \varnothing 3.5 or \varnothing 4 mm
- Alternative assembly with system screws
- TIP-ON must be ordered separately

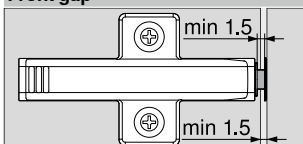
Order information

Colour	Material	Part no.
R7036	Nylon	956A1501
Colour		
R7036	RAL 7036 platinum grey	

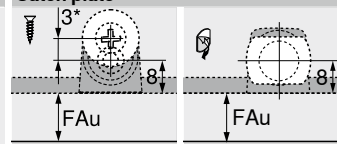
Planning



Front gap



Catch plate



FAu Bottom front overlay
* 3 mm offset installation

Page instructions

Overview – AVENTOS HK top

47

Assembly, removal and adjustment



Assembly

Template	630
Drilling template for mounting plates	631
Positioning template for catch plate	652
MINIPRESS top for EASYSTICK	576
MINIPRESS top	580
MINIPRESS P	592

MINIPRESS M

596

Short-URL

www.blum.com/a170

Lift systems



▶ AVENTOS HK-S – stay lift

Lift system for small stay lifts



AVENTOS HK-S is well-suited for small lift systems, such as over the larder unit or refrigerator. Due to its small installation size, AVENTOS HK-S fits harmoniously into smaller cabinets.

- Special for small stay lifts
- Silent and effortless closing, thanks to **BLUMOTION**
- Easy to open
- Stops at any opening position
- Provides excellent access to the cabinet interior
- Suitable for wall cabinets with cornice or crown moulding
- Small programme, huge application variety
- Easy assembly and adjustment
- Stability, even with wide fronts
- Excellent durability
- No protruding parts
- Optional: TIP-ON for AVENTOS

BLUMOTION

by Blum

TIP-ON

by Blum

Opening and closing – easy and comfortable



AVENTOS HK-S opens and closes in a smooth motion with hardly any effort at all. The variable stop ensures that the front always remains in the desired position

Thanks to the integrated BLUMOTION, the front closes silently and effortlessly

Other advantages that will inspire both you and your customers

**Excellent durability**

The core element of the lift mechanism is a robust spring package. The result: excellent durability

**No protruding parts**

Delivered with closed lever – an advantage for furniture manufacturing and kitchen installation

**Cornice and crown moulding**

When developing AVENTOS HK-S, we also took into account cabinets with cornices and crown moulding



**Compact design**

Due to its minimal installation size, AVENTOS HK-S fits easily into smaller cabinets


Applications

Webcode Page

▶▶ Standard | TIP-ON

 Symbolic image	Wooden fronts, wide and narrow alu frames		
 Symbolic image	TIP-ON 956. – short version with magnet		DQDD6M 58
			60


▶▶ Accessories

 Symbolic image	Opening angle stop	58	Cross slot bit	71
	Adapter plates	61		
	Screws	70		
	Centre bit	70		
	Door buffer	70		
	Screwdriver	71		

▶▶ Assembly, removal and adjustment

 Symbolic image	Assembly, removal and adjustment	
	Short-URL www.blum.com/a150	

Pictograph

 Item Available Upon Request		
---	--	--

Lift systems



- ▶ AVENTOS HK-S – stay lift
- ▶▶ Standard | TIP-ON

Wooden fronts, wide and narrow alu frames

Webcode

DQDD6M



- Well-suited for low frontal heights in the wall cabinet, the high cabinet and over the refrigerator
- Cabinet height KH max. 600 mm
- Silent and effortless closing, thanks to **BLUMOTION**
- Light operating forces
- Perfect motion with a variable stop
- Tool-free assembly
- 3-dimensional front adjustment
- Simple, infinitely variable lift mechanism
- No hinges are necessary
- TIP-ON for handle-less lift systems

Power factor LF

Cabinet height KH (mm) x front weight FG incl. double handle weight (kg)

We recommend the more powerful lift mechanism for overlapping areas.

 Standard

 TIP-ON

Order information

1	<input type="checkbox"/>	Lift mechanism set			
		Power factor LF	Opening angle		Part no.
		220–500	107°	1	20K2B00.06
		400–1000	107°		20K2C00.06
		960–2215	107°		20K2E00.06

Composed of:

1a	2 x	Lift mechanism (symmetrical)
1b	2 x	Cover cap left/right HGR SW TGR
1c	2 x	Branding element, stamped with Blum logo IN-G
–	6 x	Chipboard screws Ø 4 x 35 mm

Note

The power factor LF can be increased by 50 % when a third lift mechanism is used

1 Lift mechanisms are unsprung

1	<input checked="" type="checkbox"/>	Lift mechanism set for TIP-ON			
		Power factor LF	Opening angle		Part no.
		220–500	107°	1	20K2B00T06
		400–1000	107°		20K2C00T06
		960–2215	107°		20K2E00T06

Composed of:

1a	2 x	Lift mechanism (symmetrical)
1b	2 x	Cover cap left/right HGR SW TGR
1c	2 x	Branding element, stamped with Blum logo IN-G
–	6 x	Chipboard screws Ø 4 x 35 mm

Note

The power factor LF can be increased by 50 % when a third lift mechanism is used

1 Lift mechanisms are unsprung

4	<input type="checkbox"/>	Front fixing bracket			
		Version			
		Fixing method	Spacing (mm)		Part no.
		Screw-on	0	1	175H3100
		EXPANDO	0		177H3100E
		Knock-in	0		177H3100

Wooden fronts and wide alu frames

All horizontal steel mounting plates with 0 mm spacing possible

1 Use 2 chipboard screws (609.1x00) per side for wooden fronts

1 Use 2 counter sunk self tapping screws (660.0950) per side for wide alu frames

4	<input checked="" type="checkbox"/>	Front fixing bracket set			
		Version			Part no.
		Narrow alu frames		1 x	20K4A00A02

6	<input checked="" type="checkbox"/>	TIP-ON set			
		Version	Cabinet height KH (mm)		Part no.
		Short version	Up to 600		956.1004

Composed of:

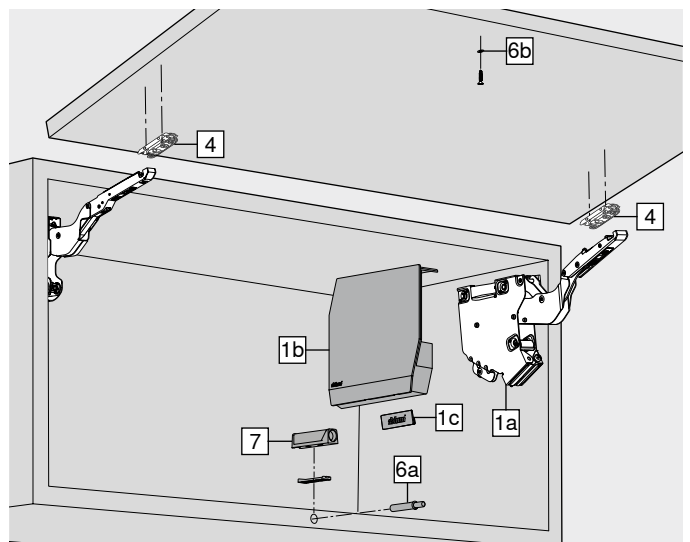
6a	1 x	TIP-ON
6b	1 x	Screw-on catch plate
–	1 x	Chipboard screw 609.1500
–	1 x	Glue-on catch plate

Accessories

–	<input type="checkbox"/>	Opening angle stop			
		Opening angle	Colour		Part no.
		100°	TGR		20K7A41
		75°	R7037		20K7A11

7	<input checked="" type="checkbox"/>	Adapter plate			
		Version	Colour		Part no.
		Inline adapter plate – short version	SW TS R7036 NI-L		956.1201
		Cruciform adapter plate – long version	R7036		956A1501

Colour		Colour	
HGR	Light grey	R7036	RAL 7036 platinum grey
SW	Silk white	R7037	RAL 7037 dust grey
TGR	Dark grey	NI-L	Nickel lacquered
TS	Terra black	IN-G	Inmold brushed stainless steel

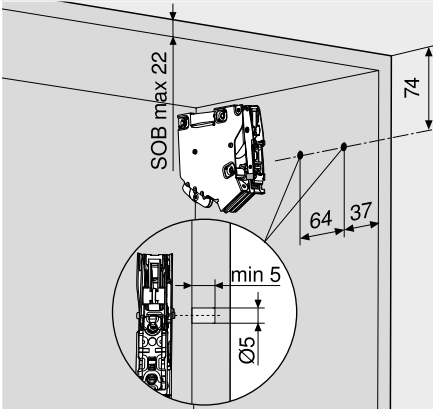


Wooden fronts, wide and narrow alu frames

Webcode
DQDD6M

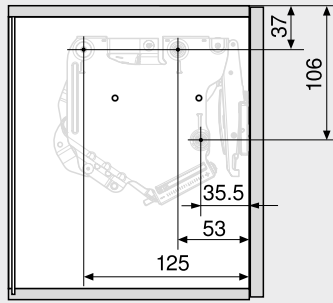
Planning

Peg position



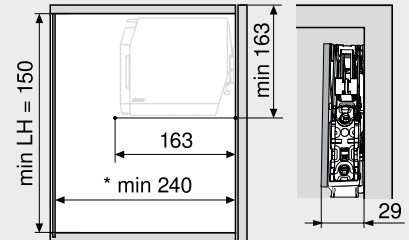
SOB Top panel thickness

Fixing position



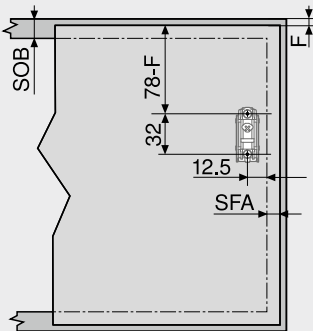
3 x chipboard screws Ø 4 x 35 mm

Space requirement



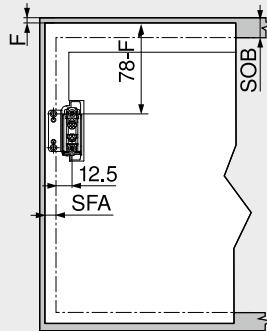
LH Internal cabinet height
* Min. 240 mm with visible wall hanging bracket

Front assembly – wooden fronts and wide alu frames



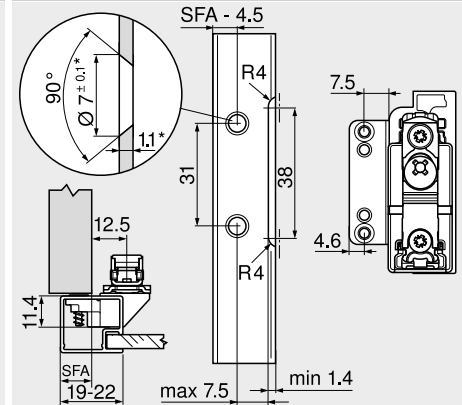
Use 2 chipboard screws (609.1x00) for wooden fronts
Use 2 counter sunk self tapping screws (660.0950) for wide alu frames
SOB Top panel thickness
SFA Front overlay of the side panel
F Gap

Front assembly – narrow alu frames



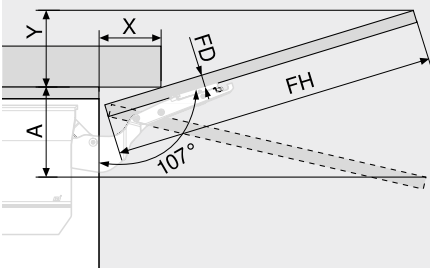
SOB Top panel thickness
SFA Front overlay of the side panel
F Gap

Narrow alu frames



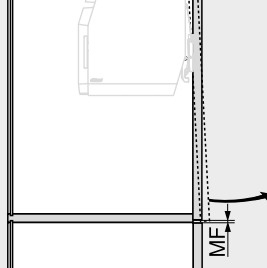
For frame width 19 mm, a side front overlay SFA of 11–18 mm is possible
* When changing material thickness, adjust the assembly dimensions accordingly

Space requirement – cornice | crown



Opening angle stop		Space requirement (mm)			
Without		$Y = FH \times 0.29 - 15 + FD$			
100°		$Y = FH \times 0.17 - 15 + FD$			
75°		$A = FH \times 0.26 + 15 - FD$			
FD (mm)	16	19	22	26	-
X (mm)	70	59	49	35	-
FH Front height					
FD Front thickness					

Minimum gap



MF Minimum gap 2 mm

Page instructions

Overview – AVENTOS HK-S	57
Overview – assembly devices	561
More technical details	662

Assembly, removal and adjustment



Short-URL

www.blum.com/a150

Lift systems



- ▶ AVENTOS HK-S – stay lift
- ▶▶ TIP-ON

TIP-ON 956. – short version with magnet



- For stay lifts up to a height of 600 mm
- For drilling or in combination with adapter plates
- Output path approx. 17 mm
- Setting +4/-1 mm

Order information

Colour	Material	Part no.
SW TS R7036	Nylon	956.1004

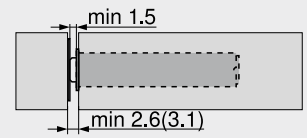
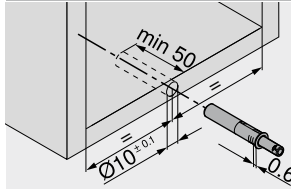
Composed of:

- 1 x TIP-ON 956. – short version with magnet
- 1 x Glue-on catch plate
- Not suitable for powder-coated, waxed or oiled surfaces
- 1 x Screw-on catch plate

Colour

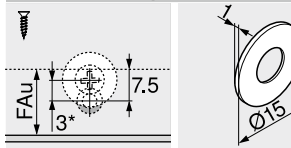
- SW Silk white
- TS Terra black
- R7036 RAL 7036 platinum grey

Planning

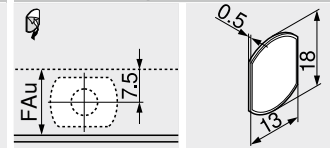


() Screw-on catch plate

Screw-on catch plate

FAU Bottom front overlay
* 3 mm offset installation

Glue-on catch plate



FAU Bottom front overlay

Page instructions

Overview – AVENTOS HK-S	57
Accessories – straight adapter plates	61
Accessories – cruciform adapter plates	61

Assembly, removal and adjustment

Short-URL
www.blum.com/a150



Assembly

Drilling template for BLUMOTION TIP-ON	632
Positioning template for catch plate	652
MINIPRESS top for EASYSTICK	576
MINIPRESS top	580

Inline adapter plate – short version

20/17



- Fixing with chipboard screws \varnothing 3.5 or \varnothing 4 mm
- Alternative assembly with system screws
- TIP-ON must be ordered separately

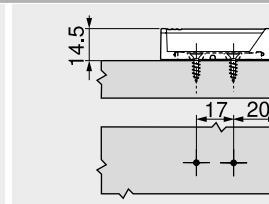
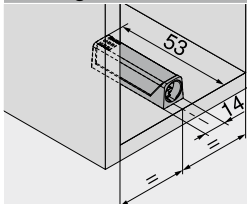
Order information

Colour	Material	Part no.
SW TS R7036 NI-L	Nylon	956.1201

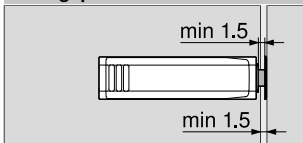
Colour

SW	Silk white
TS	Terra black
R7036	RAL 7036 platinum grey
NI-L	Nickel lacquered

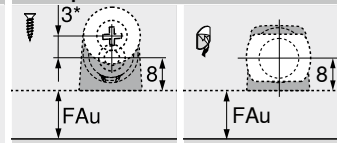
Planning



Front gap



Catch plate



FAu Bottom front overlay
* 3 mm offset installation

Cruciform adapter plate – long version

37/32



- Fixing with chipboard screws \varnothing 3.5 or \varnothing 4 mm
- Alternative assembly with system screws
- TIP-ON must be ordered separately

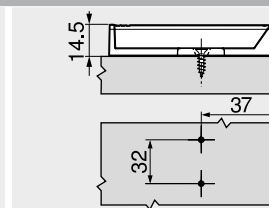
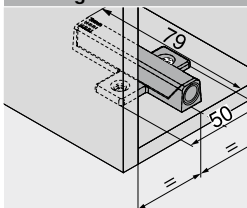
Order information

Colour	Material	Part no.
R7036	Nylon	956A1501

Colour

R7036	RAL 7036 platinum grey
-------	------------------------

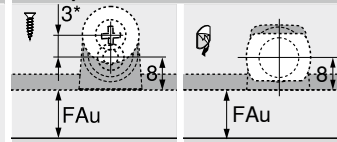
Planning



Front gap



Catch plate



FAu Bottom front overlay
* 3 mm offset installation

Page instructions

Overview – AVENTOS HK-S

57

Assembly, removal and adjustment



Assembly

Template	630
Drilling template for mounting plates	631
Positioning template for catch plate	652
MINIPRESS top for EASYSTICK	576
MINIPRESS top	580
MINIPRESS P	592

MINIPRESS M

596

Short-URL

www.blum.com/a150

Lift systems



▶ AVENTOS HK-XS – stay lift

Lift system for small stay lifts



AVENTOS HK-XS offers a high level of design freedom for small top wall cabinets thanks to its narrow style. Cabinets with low internal depths can therefore also be conveniently equipped.

- Specifically for small top wall cabinets
- Also suitable for cabinets with low internal depths
- Symmetrical lift mechanism, can be used on one or both sides
- Silent and effortless closing, thanks to **BLUMOTION**
- Easy to open
- Stops at any opening position
- Provides excellent access to the cabinet interior
- Small programme, huge application variety
- Easy assembly and adjustment
- Excellent durability
- Optional: TIP-ON for AVENTOS

Opening and closing – easy and comfortable



AVENTOS HK-XS proves itself with the familiar AVENTOS ease of use. They close silently and effortlessly in combination with CLIP top BLUMOTION hinges. The variable stop ensures that the front always remains in the desired position

Many possibilities
Thanks to the low installation depth, with AVENTOS HK-XS it is possible to make optimal use of the space above the extractor, for example

Wide folding fronts
For larger and heavier fronts, attach a lift mechanism to both sides

Other advantages that will inspire both you and your customers



Excellent durability
The core element of the lift mechanism is a robust spring package. The result: excellent durability

CLIP mechanism
Tool-free lift mechanism assembly is carried out using the CLIP mechanism



Infinitely variable lift mechanism adjustment
The infinitely variable adjustment is carried out from the front using the adjustment screw

Handle-less stay lifts
One touch on the front is all that is needed to open the lift system wide enough that it can be conveniently moved upwards, thanks to TIP-ON


Applications

Webcode Page

▶▶ **Standard | TIP-ON**

 Symbolic image	Wooden fronts, wide and narrow alu frames		
			DQDDVY 64
 Symbolic image	TIP-ON 956. – short version with magnet		68


▶▶ **Accessories**

 Symbolic image	Opening angle stop	65	Cross slot bit	71
	Adapter plates	69		
	Screws	70		
	Centre bit	70		
	Door buffer	70		
	Screwdriver	71		

▶▶ **Assembly, removal and adjustment**

 Symbolic image	Assembly, removal and adjustment Short-URL www.blum.com/a160	

Pictograph

 Item Available Upon Request		
---	--	--

Lift systems



- ▶ AVENTOS HK-XS – stay lift
- ▶▶ Standard | TIP-ON

Wooden fronts, wide and narrow alu frames

Webcode

DQDDVY



- Well-suited for low frontal heights in the wall cabinet, the high cabinet and over the refrigerator
- Cabinet height KH 240–600 mm
- Internal cabinet depth LT min. 125 mm
- With a special drilling position, an internal cabinet depth LT of 100 mm is possible
- Closes silently and effortlessly in conjunction with CLIP top BLUMOTION hinges
- TIP-ON for handle-less stay lifts with CLIP top unsprung hinges
- Light operating forces
- Perfect motion with a variable stop
- Simple, infinitely variable lift mechanism

Power factor LF

Cabinet height KH (mm) x front weight FG incl. double handle weight (kg)

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

 Standard

 TIP-ON

Order information

1	<input type="checkbox"/>	Lift mechanism (symmetrical)		
		Power factor LF	Opening angle	Part no.
		200–1000	105°	20K1101
		500–1500	105°	20K1301
		800–1800	105°	20K1501

Note

The power factor LF is doubled when used on two sides

¹ For hinges with smaller opening angles, these are limited by the hinges

1	<input checked="" type="checkbox"/>	Lift mechanism, symmetrical, for TIP-ON		
		Power factor LF	Opening angle	Part no.
		180–800	105°	20K1101T
		500–1200	105°	20K1301T
		800–1600	105°	20K1501T

Note

The power factor LF is doubled when used on two sides

¹ For hinges with smaller opening angles, these are limited by the hinges

2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cabinet fixing	
			Fixing method	Part no.
			Screw-on	20K5101
			EXPANDO	20K51E1

4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Front fixing bracket	
			Version	Part no.
			Wooden fronts and wide alu frames	20K4101
			Wooden fronts	20K41E1
			Narrow alu frames	20K4101A

² Use 2 chipboard screws (609.1x00) for wooden fronts² Use 2 counter sunk self tapping screws (660.0950) for wide alu frames

6	<input checked="" type="checkbox"/>	TIP-ON set		
		Version	Cabinet height KH (mm)	Part no.
		Short version	Up to 600	956.1004

Composed of:

- 6a 1 x TIP-ON
- 6b 1 x Screw-on catch plate
- 6c 1 x Glue-on catch plate
- 1 x Chipboard screw 609.1500

10	<input type="checkbox"/>	CLIP top BLUMOTION 110° hinge		
		Recommendation		
		Boss	Spring	Part no.
		INSERTA	With spring	71B3590
		Screw-on	With spring	71B3550

3 hinges starting at cabinet width KB 900 mm and/or starting at power factor LF 1800

4 hinges with cabinet width KB 1200 mm and/or starting at power factor LF 2700

Alternative

CLIP top BLUMOTION hinges: 107°, profile | thick door, 95°-aluminium frame door hinge or CLIP top hinges: 107°, profile | thick door, 95° aluminium frame door hinge in combination with BLUMOTION 973A – for clip on and | or CLIP hinges: 100°

10	<input checked="" type="checkbox"/>	CLIP top 110° hinge		
		Recommendation		
		Boss	Spring	Part no.
		INSERTA	Unsprung	70T3590.TL
		Screw-on	Unsprung	70T3550.TL

3 hinges starting at cabinet width KB 900 mm and/or starting at power factor LF 1800

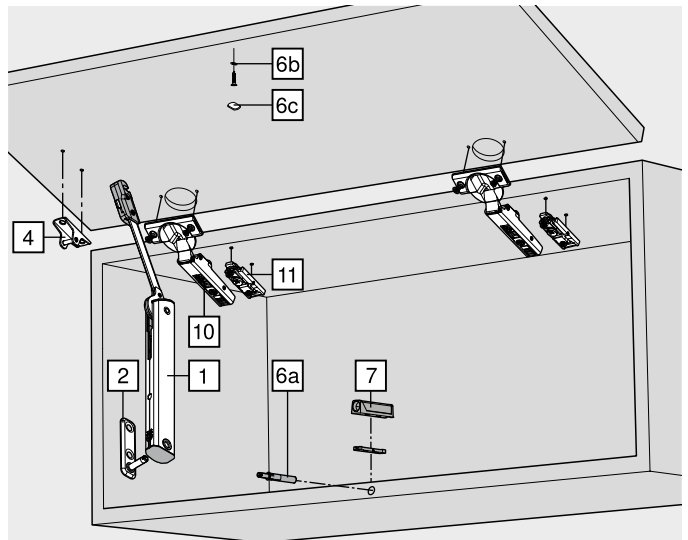
4 hinges with cabinet width KB 1200 mm and/or starting at power factor LF 2700

Alternative

CLIP top hinges: 107° hinge, profile | thick door hinge, 95° aluminium frame door hinge or CLIP 100° (hinge, unsprung)

11	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Mounting plate	
			Recommendation	
			Fixing method	Spacing (mm)
			Screw-on	0
			EXPANDO	0

Standard mounting plates, spacing depends on the top gap F



Wooden fronts, wide and narrow alu frames

Webcode

DQDDVY

Order information

Accessories

Opening angle stop			
Opening angle	Colour	Part no.	
86°	TGR	70T3553	

For CLIP top BLUMOTION 110° | CLIP top 110° hinge

Adapter plate			
Version	Colour	Part no.	
Inline adapter plate – short version	SW TS R7036 NI-L	956.1201	
Cruciform adapter plate – long version	R7036	956A1501	

Colour		Colour	
HGR	Light grey	R7036	RAL 7036 platinum grey
SW	Silk white	R7037	RAL 7037 dust grey
TGR	Dark grey	NI-L	Nickel lacquered
TS	Terra black		

Page instructions

Overview – AVENTOS HK-XS	63	Assembly, removal and adjustment
Mounting plates	156	
Planning	66	
Accessories – general	70	
Overview – assembly devices	561	
Reference values for front weight FG (kg)	668	
More technical details	662	

Short-URL
www.blum.com/a160

Lift systems



- ▶ AVENTOS HK-XS – stay lift
- ▶▶ Standard | TIP-ON

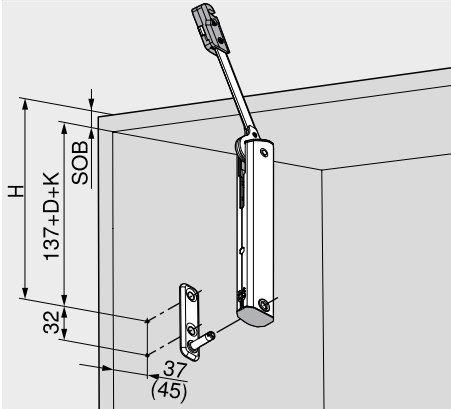
Wooden fronts, wide and narrow alu frames

Webcode

DQDDVY

Planning

Drilling position



H = 137 + D + K + SOB

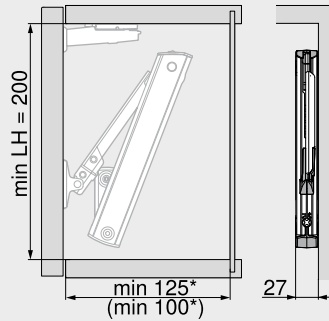
D Mounting plate spacing

K Cranking of hinge arm
Straight hinge arm – 0 mm
Cranked hinge arm – 9.5 mm
Double cranked arm – 18 mm

SOB Top panel thickness

() Internal cabinet depth 100 mm

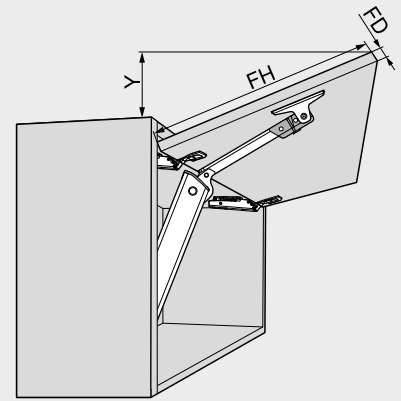
Space requirement



LH Internal cabinet height

* Min. 200 mm with visible wall hanging bracket

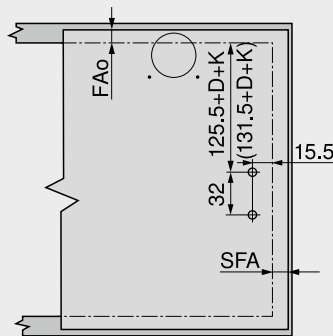
() Internal cabinet depth 100 mm



CLIP top BLUMOTION 110° hinge

Front thickness FD (mm)	16	19	22	24
X (mm)	45	34	23	15
$Y = (FH - X) \times 0.3$				
FH Front height				

Front assembly – wooden fronts and wide alu frames



Use 2 chipboard screws (609.1x00) for wooden fronts

Use 2 counter sunk self tapping screws (660.0950) for wide alu frames

FAo Upper front overlay

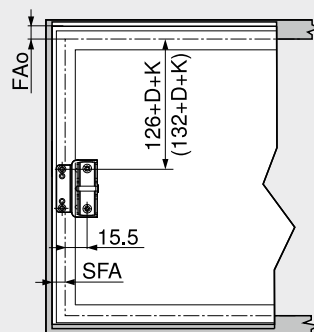
SFA Front overlay of the side panel

D Mounting plate spacing

K Cranking of hinge arm
Straight hinge arm – 0 mm
Cranked hinge arm – 9.5 mm
Double cranked arm – 18 mm

() Internal cabinet depth 100 mm

Front assembly – narrow alu frames



FAo Upper front overlay

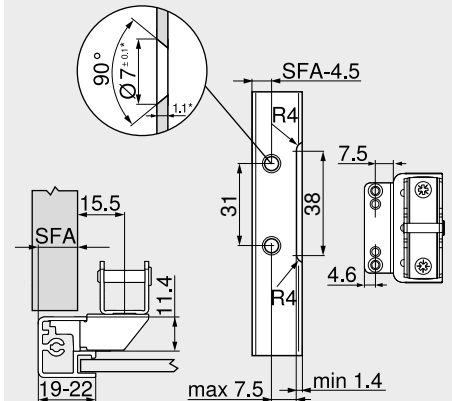
SFA Front overlay of the side panel

D Mounting plate spacing

K Cranking of hinge arm
Straight hinge arm – 0 mm
Cranked hinge arm – 9.5 mm
Double cranked arm – 18 mm

() Internal cabinet depth 100 mm

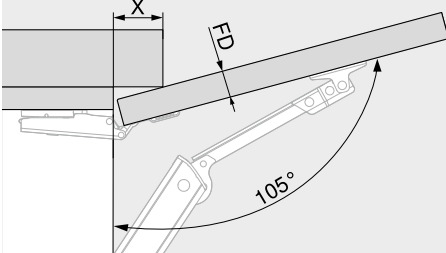
Narrow alu frames



For frame width 19 mm, a side front overlay SFA of 11–18 mm is possible

* When changing material thickness, adjust the assembly dimensions accordingly

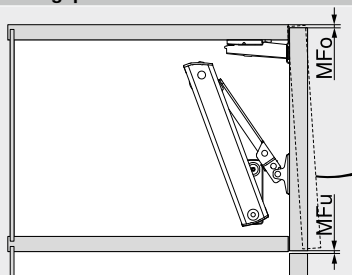
Space requirement – cornice | crown



CLIP top BLUMOTION 110° hinge

Front thickness FD (mm)	16	19	22	24
X (mm)	45	34	23	15

Minimum gap



MFo Minimum gap at the top depending on the hinge used

MFu Minimum gap at the bottom 1.5 mm

Wooden fronts, wide and narrow alu frames

Webcode
DQDDVY

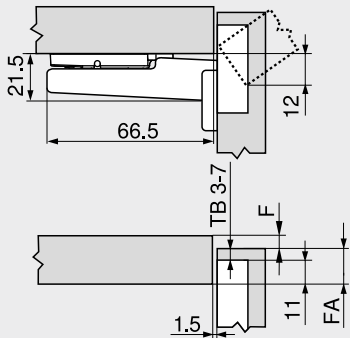
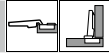
Planning

CLIP top BLUMOTION 110° | CLIP top 110°

Hinge dimensions and gap calculation based on factory setting (mounting plate spacing = 0 mm)

Hinge and front protrusion at full opening angle

Overlay application



F Gap
FA Front overlay
TB Drilling distance

Drilling distance TB

MD	Front overlay FA (mm)																	
	5	6	7	8	9	10	11	12	13	14	15	16	17	18				
0										3	4	5	6	7				
3							3	4	5	6	7							
6				3	4	5	6	7										
9	3	4	5	6	7													

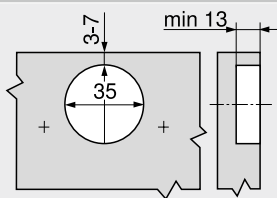
MD Mounting plate spacing (mm)

Minimum gap F for fronts with a front radius (R = 1 mm) based on the factory setting

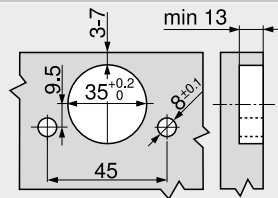
Drilling distance TB (mm)	Front thickness FD (mm)											
	16	18	19	20	21	22	23	24	25	26	28	30
3	0.5	0.8	1.0	1.2	1.5	1.8	2.2	2.7	3.5	4.3	Δ	Δ
4	0.5	0.8	1.0	1.2	1.4	1.7	2.0	2.5	3.1	3.8	Δ	Δ
5	0.5	0.8	0.9	1.2	1.4	1.7	2.0	2.4	2.9	3.4	Δ	Δ
6	0.5	0.8	0.9	1.2	1.3	1.6	1.9	2.3	2.7	3.2	Δ	Δ
7	0.5	0.8	0.9	1.1	1.3	1.6	1.9	2.2	2.6	3.0	Δ	Δ
Additional for +2 mm height adjustment												
	+0.2	+0.4	+0.4	+0.5	+0.5	+0.5	+0.5	+0.5	+0.5	+0.5		

Δ In these cases a trial is recommended

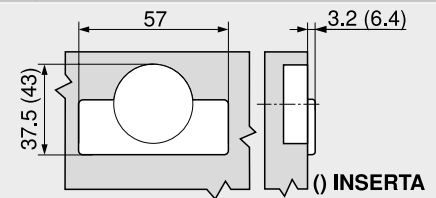
Screw-on



INSERTA | knock-in



Hinge boss dimensions



Page instructions

Overview – AVENTOS HK-XS
Overview – assembly devices
More technical details

63 Assembly, removal and adjustment
561
662

Short-URL
www.blum.com/a160



Lift systems



- ▶ AVENTOS HK-XS – stay lift
- ▶▶ TIP-ON

TIP-ON 956. – short version with magnet



- For stay lifts up to a height of 600 mm
- For use with unsprung Blum hinges
- For drilling or in combination with adapter plates
- Output path approx. 17 mm
- Setting +4/–1 mm

Order information

Colour	Material	Part no.
SW TS R7036	Nylon	956.1004

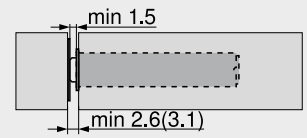
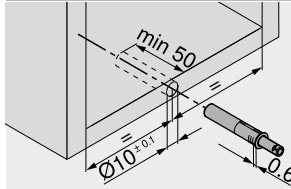
Composed of:

1 x	TIP-ON 956. – short version with magnet
1 x	Screw-on catch plate
1 x	Glue-on catch plate
Not suitable for powder-coated, waxed or oiled surfaces	

Colour

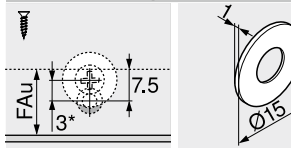
SW	Silk white
TS	Terra black
R7036	RAL 7036 platinum grey

Planning

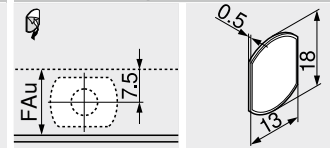


() Screw-on catch plate

Screw-on catch plate

FAu Bottom front overlay
* 3 mm offset installation

Glue-on catch plate



FAu Bottom front overlay

Page instructions

Overview – AVENTOS HK-XS	63
Accessories – straight adapter plates	69
Accessories – cruciform adapter plates	69

Assembly, removal and adjustment

Short-URL
www.blum.com/a160



Assembly

Drilling template for BLUMOTION TIP-ON	632
Positioning template for catch plate	652
MINIPRESS top for EASYSTICK	576
MINIPRESS top	580

Inline adapter plate – short version

20/17

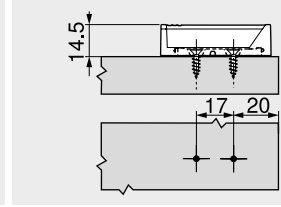
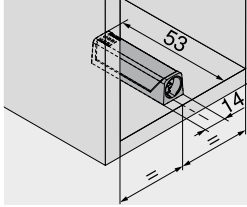


- Fixing with chipboard screws \varnothing 3.5 or \varnothing 4 mm
- Alternative assembly with system screws
- TIP-ON must be ordered separately

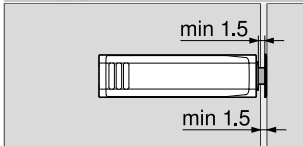
Order information

Colour	Material	Part no.
SW TS R7036 NI-L	Nylon	956.1201
Colour		
SW	Silk white	
TS	Terra black	
R7036	RAL 7036 platinum grey	
NI-L	Nickel lacquered	

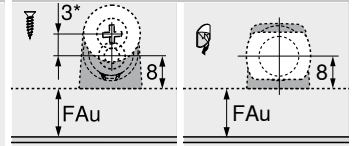
Planning



Front gap



Catch plate



FAu Bottom front overlay
* 3 mm offset installation

Cruciform adapter plate – long version

37/32

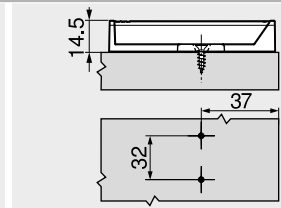
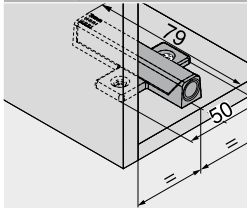


- Fixing with chipboard screws \varnothing 3.5 or \varnothing 4 mm
- Alternative assembly with system screws
- TIP-ON must be ordered separately

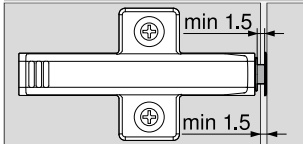
Order information

Colour	Material	Part no.
R7036	Nylon	956A1501
Colour		
R7036	RAL 7036 platinum grey	

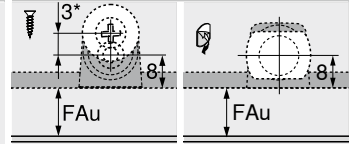
Planning



Front gap



Catch plate



FAu Bottom front overlay
* 3 mm offset installation

Page instructions

Overview – AVENTOS HK-XS

63

Assembly, removal and adjustment



Assembly

Template	630
Drilling template for mounting plates	631
Positioning template for catch plate	652
MINIPRESS top for EASYSTICK	576
MINIPRESS top	580
MINIPRESS P	592

MINIPRESS M

596

Short-URL

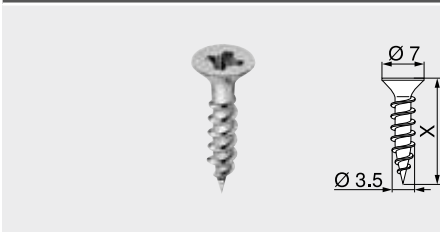
www.blum.com/a160

Lift systems


 Accessories

Chipboard screws

Ø 3.5 mm



- Ø 3.5 mm
- Colour: nickel plated
- Material: steel

Order information

X (mm)	Part no.
15.0	609.1500
17.0	609.1700

Chipboard screws

Ø 4.0 mm



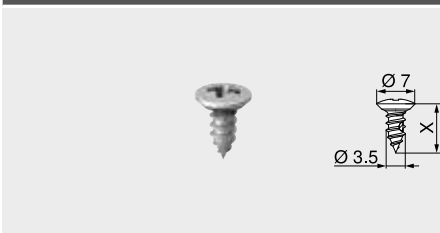
- For fixing lift mechanisms
- Ø 4 mm
- Colour: nickel plated
- Material: steel

Order information

X (mm)	Part no.
35	664.3500

Counter sunk self tapping screws

Ø 3.5 mm



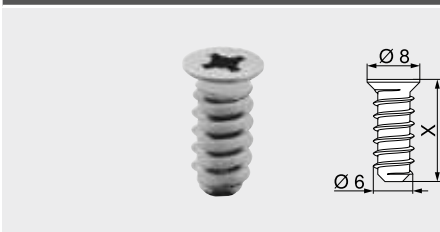
- For front fixing brackets on wide alu frames
- Ø 3.5 mm
- Drilling diameter Ø 2.8 mm
- Colour: nickel plated
- Material: steel

Order information

X (mm)	Part no.
9.5	660.0950

System screws

Ø 6.0 mm



- Ø 6 mm
- Drilling diameter Ø 5 mm
- Colour: nickel plated
- Material: steel

Order information

X (mm)	Part no.
10.0	661.1000.HG
11.5	661.1150.HG
13.0	661.1300.HG
14.5	661.1450.HG
20.0	661.2000.HG

Centre bit

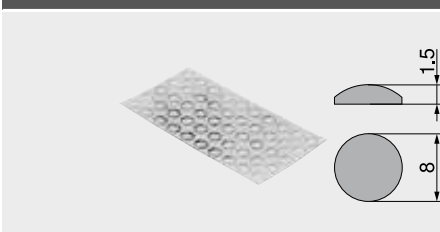


- Ø 2.7 mm, length 70 mm
- To pre-drill for Ø 3.5 mm chipboard screws
- Drilling depth up to 8 mm
- Material: steel, hardened

Order information

Description	Part no.
Centre bit	M01.ZZ03.01
Replacement bit	M01.ZZB3

Stick-on door buffer

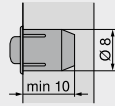


- For noise reduction
- Colour: natural coloured
- Material: nylon

Order information

Description	Part no.
Stick-on door buffer	993.710

8 mm Ø door buffer



- For noise reduction
- Gap 2 mm
- Two-part
- Colour: RAL 9006 grey
- Material: nylon

Order information

Description	Part no.
8 mm Ø door buffer	993.706

TORX screwdriver



- TORX size 20 (T20)
- Orange handle with Blum logo
- Colour: black/orange
- Material: nylon/steel

Order information

Total length (mm)	Blade length (mm)	Part no.
100	35	623.882.2
210	100	209.093.7

Pozidrive screwdriver



- PZ (Pozi) size 2
- Blade length 100 mm
- Overall length 200 mm
- Orange handle with Blum logo
- Colour: black/orange
- Material: nylon/steel

Order information

Description	Part no.
Pozidrive screwdriver	303.756.1

Slotted screwdriver



- Slotted, size 1.0 x 5.5 mm
- Blade length 125 mm
- Overall length 225 mm
- Orange handle with Blum logo
- Colour: black/orange
- Material: nylon/steel

Order information

Description	Part no.
Slotted screwdriver	314.928.1

Cross slot bit



- Screw bit
- PZ (Pozi) size 2
- Material: steel
- Suitable for adjusting lift mechanisms

Order information

Description	Part no.
Cross slot bit	740.749.1

Blum distance bumper



- For SERVO-DRIVE
- Colour: RAL 7037 dust grey
- Material: nylon

Order information

Diameter (mm)	Part no.
Ø 5	993.0530
Ø 8	993.0830.01