

AVENTOS HF top

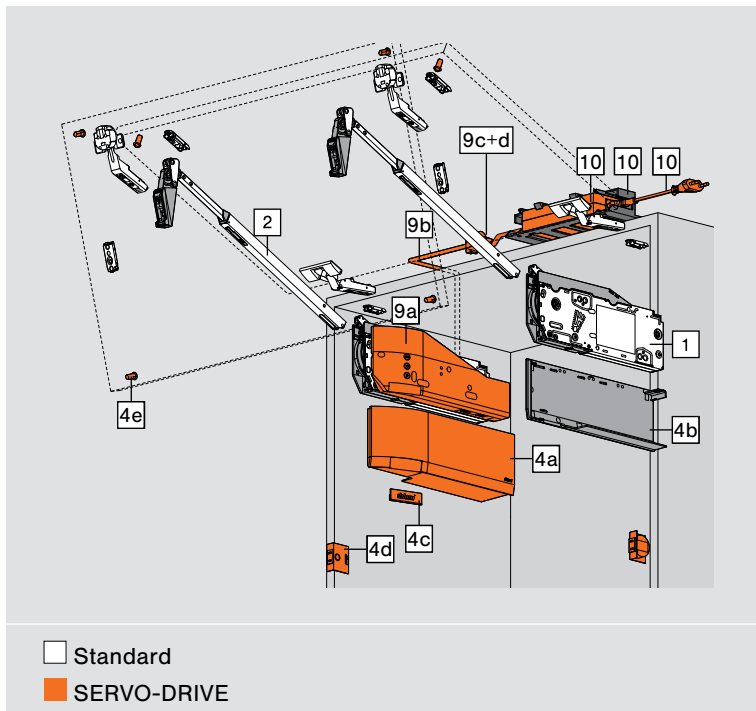
Technical data sheet



www.blum.com

 **blum**

Wooden fronts and wide aluminium frames



- Ideal for higher wall cabinets with bi-fold fronts
- Cabinet height 480–1200 mm
- Cabinet width up to 1800 mm
- Internal depth of at least 264 mm
- Integrated BLUMOTION adjustment
- SERVO-DRIVE electrical motion support system
- Light operating forces
- Variable stop
- Integrated opening angle stop
- Standardised position of the lift mechanism and front fixing bracket
- Symmetrical lift mechanism and lever arm
- Tool-free assembly
- Two lift mechanism fixing methods
- 3-dimensional adjustment of both fronts
- Centre hinge with finger safety feature

Ordering information

Note

Power factor (LF) =
cabinet height* (KH) [mm] x front weight including handle weight [kg]

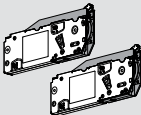
* Calculate with theoretical cabinet height (TKH) for asymmetrical fronts

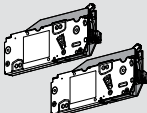
For asymmetrical fronts: **theoretical cabinet height TKH** = front height top FHo (mm) x 2 + gaps

The larger front must be at the top for asymmetrical fronts.

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

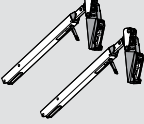
The power factor can be increased by 50% when using a third lift mechanism.
We recommend a third lift mechanism for wide cabinets. This will prevent the front from sagging when open.

1		Lift mechanism set		
		Fixing with pre-mounted system screws		
		LF	OW	
		2700–13500*	81°–116°	22F2510
		10000–19300	81°–116°	22F2810
LW Power factor				
OW Opening angle (multi-stage adjustment)				
Consisting of:				
1	2 x	Symmetrical lift mechanism		
		Incl. pre-mounted system screws		
* 1 pc LF 1300–3000 cabinet width KB up to 600 mm				

1		Lift mechanism set		
	Fixing with chipboard screws with positioning system			
	LF	OW		
	2700–13500*	81°–116°	22F2500	
	10000–19300	81°–116°	22F2800	
LW Power factor				
OW Opening angle (multi-stage adjustment)				
Consisting of:				
1	2 x	Symmetrical lift mechanism Incl. positioning system		
-	8 x	Chipboard screws Ø 4 x 35 mm		
* 1 pc LF 1300–3000 cabinet width KB up to 600 mm				

Wooden fronts and wide aluminium frames

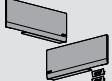
Ordering information

2		Lever arm set	
		Cabinet height (mm)*	
		480-610	22F3200
		600-910	22F3500
		840-1200	22F3900

Consisting of:

2 2 x Symmetrical Lever arm set

* For asymmetrical fronts: **theoretical cabinet height TKH** = front height top FHo (mm) x 2 + gaps

4		Cover cap set	
		Colour	Material
		SW, HGR, TGR	K

Consisting of:

- 1 x Cover cap left
- 4b 1 x Cover cap right
- 4c 2 x Branding element, embossed with Blum logo
- IN-G

4		Cover cap set for SERVO-DRIVE	
		Colour	Material
		SW, HGR, TGR	K

Consisting of:

- 4a 1 x SERVO-DRIVE cover cap left
- 4b 1 x Cover cap right
- 4c 2 x Branding element, embossed with Blum logo
- IN-G
- 4d 2 x SERVO-DRIVE switch
- 4e 6 x Blum distance bumper Ø 5 mm

9		SERVO-DRIVE set	
		Colour	Material
		TGR	K

Consisting of:

- 9a 1 x SERVO-DRIVE drive unit
- 9b 1 x SERVO-DRIVE distribution cable, 1500 mm
- 9c 1 x Connecting node
- 9d 2 x Cable end protector

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

We recommend one drive unit per set for connected fronts.

10	SERVO-DRIVE power supply unit and accessories
See page 7	

Optional

4c		Branding element	
		Material	Nylon
		MOQ	
Customised, printed branding element		From 1000pcs.	
Customised, embossed branding element		From 5000pcs.	

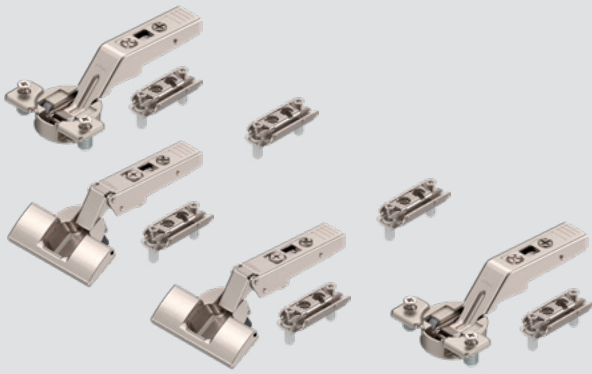
Colours and material

Name	
SW	Silk white
HGR	Light grey
TGR	Dark grey
IN-G	In-mould brushed stainless steel
K	Nylon

Accessories for AVENTOS HF top

Ordering information

Hinge set – wooden fronts



Ordering information

Fixing method

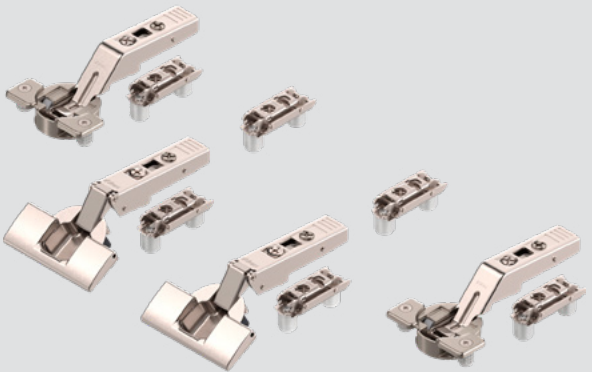
EXPANDO

78Z553ET11

Consisting of:

2 x	CLIP top 120° hinge unsprung
	70T5590BTL
2 x	CLIP top centre hinge unsprung
	78Z553ET
6 x	Horizontal cam mounting plate
	177H3100E

Hinge set – wooden fronts



Ordering information

Fixing method

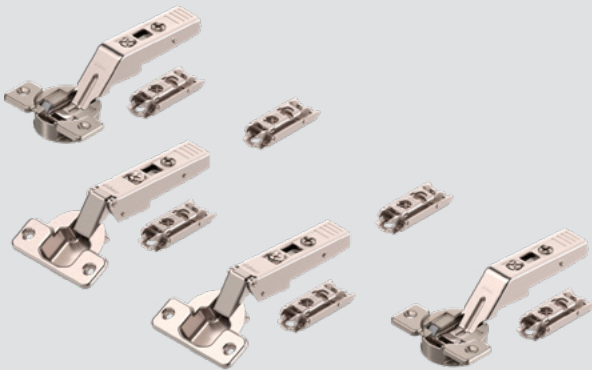
INSERTA | Knock-in | EXPANDO

78Z5530T11

Consisting of:

2 x	CLIP top 120° hinge unsprung
	70T5590BTL
2 x	CLIP top centre hinge unsprung
	78Z5530T
6 x	Horizontal cam mounting plate
	177H3100

Hinge set – wooden fronts and wide aluminium frames



Ordering information

Fixing method

Screw-on¹

78Z5500T12

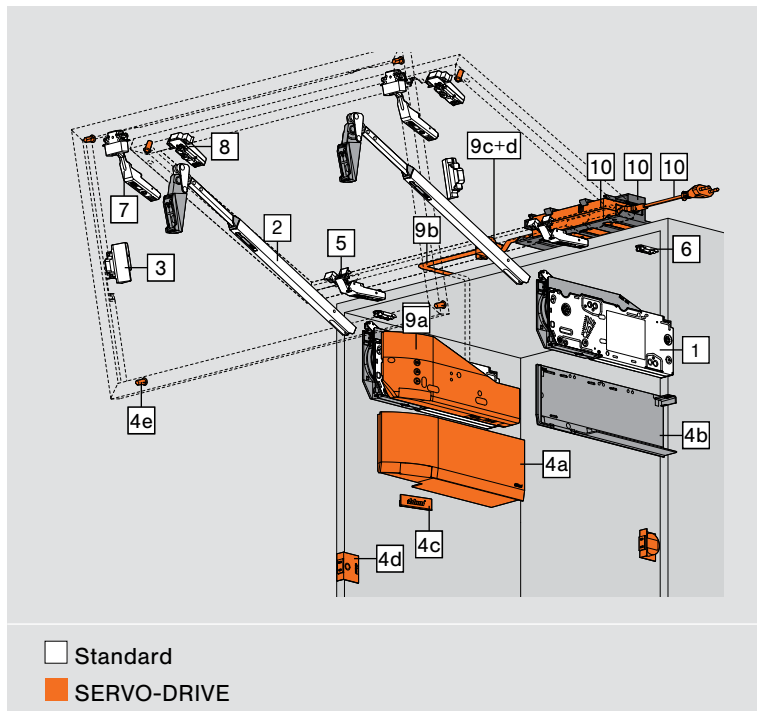
Consisting of:

2 x	CLIP top 120° hinge unsprung
	70T5550.TL
2 x	CLIP top centre hinge unsprung
	78Z5500T
6 x	Horizontal cam mounting plate
	175H3100

¹ Use chipboard screws (609.1x00) for wooden fronts. Use countersunk self-tapping screws (660.0950) for wide aluminium frames.

For wide aluminium frames, an additional cruciform mounting plate is required for the CLIP top centre hinge.

Narrow aluminium frames



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- SERVO-DRIVE electrical motion support system
- Light operating forces
- Variable stop
- Integrated opening angle stop
- Standardised position of the lift mechanism and front fixing bracket
- Symmetrical lift mechanism and lever arm
- Tool-free assembly
- Two lift mechanism fixing methods
- 3-dimensional adjustment of both fronts
- Centre hinge with finger safety feature

Ordering information

Note

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cabinet height* (KH) [mm] x front weight including handle weight [kg]

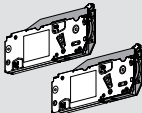
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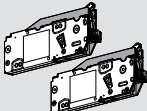
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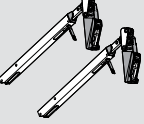
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We recommend a third lift mechanism for wide cabinets. This will prevent the front from sagging when open.

1		Lift mechanism set		
	Fixing with pre-mounted system screws			
	LF	OW		
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	10000–19300	81°–116°	22F2810	
LW Power factor				
OW Opening angle (multi-stage adjustment)				
Consisting of:				
1	2 x	Symmetrical lift mechanism		
		Incl. pre-mounted system screws		
* 1 pc LF 1300–3000 cabinet width KB up to 600 mm				

1		Lift mechanism set		
	Fixing with chipboard screws with positioning system			
	LF	OW		
	2700–13500*	81°–116°	22F2500	
	10000–19300	81°–116°	22F2800	
LW Power factor				
OW Opening angle (multi-stage adjustment)				
Consisting of:				
1	2 x	Symmetrical lift mechanism		
		Incl. positioning system		
-	8 x	Chipboard screws Ø 4 x 35 mm		
* 1 pc LF 1300–3000 cabinet width KB up to 600 mm				

Narrow aluminium frames

Ordering information

2		Lever arm set	
		Cabinet height (mm)*	
		480-610	22F3200
		600-910	22F3500
		840-1200	22F3900

Consisting of:

2 2 x Symmetrical Lever arm set

* For asymmetrical fronts: **theoretical cabinet height TKH** = front height top FHo (mm) x 2 + gaps

3		CLIP adapter plate set for Lever Arm Set	
		Version	Spacing (mm)
		Left/right	0
			175H5B00

4		Cover cap set	
		Colour	Material
		SW, HGR, TGR	K
			22.8000

Consisting of:

- 1 x Cover cap left

4b 1 x Cover cap right

4c 2 x Branding element, embossed with Blum logo
IN-G

4		Cover cap set for SERVO-DRIVE	
		Colour	Material
		SW, HGR, TGR	K
			23.8000

Consisting of:

4a 1 x SERVO-DRIVE cover cap left

4b 1 x Cover cap right

4c 2 x Branding element, embossed with Blum logo
IN-G

4d 2 x SERVO-DRIVE switch

4e 6 x Blum distance bumper Ø 5 mm

5		CLIP top 120° aluminium frame door hinge	
		Boss	Spring
		Screw-on	Unsprung
			72T550A.TL

3 hinges starting at cabinet width KB 1200 mm and/or 12 kg front weight

4 hinges for cabinet width KB 1800 mm and/or starting at 20 kg front weight

6		Mounting plate for CLIP top 120° hinge	
		Fixing method	Spacing (mm)
		Screw-on	0
		EXPANDO	0
		Knock-in	0
			175H3100
			177H3100E
			177H3100

Standard mounting plates, spacing depends on the upper front overlay

7		CLIP top aluminium centre hinge	
		Boss	Spring
		Screw-on	Unsprung
			78Z550AT

3 hinges starting at cabinet width KB 1200 mm and/or 12 kg front weight

4 hinges for cabinet width KB 1800 mm and/or starting at 20 kg front weight

8		CLIP adapter plate for centre hinges	
		Version	Spacing (mm)
		Symmetrical	0
			175H5A00

9		SERVO-DRIVE set	
		Colour	Material
		TGR	K
			23.A000

Consisting of:

9a 1 x SERVO-DRIVE drive unit

9b 1 x SERVO-DRIVE distribution cable, 1500 mm

9c 1 x Connecting node

9d 2 x Cable end protector

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

10	SERVO-DRIVE power supply unit and accessories
See page 7	

Optional

4c		Branding element	
		Material	Nylon
			MOQ
Customised, printed branding element		From 1000pcs.	
Customised, embossed branding element		From 5000pcs.	

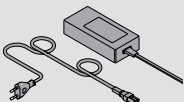
¹ Use 2 countersunk self-tapping screws (660.0950) per side for narrow aluminium frames

Colours and material

Name	
SW	Silk white
HGR	Light grey
TGR	Dark grey
IN-G	In-mould brushed stainless steel
K	Nylon

SERVO-DRIVE power supply unit and accessories

Ordering information

1				SERVO-DRIVE power supply unit incl. flex			
							
Markets		Language package					
K		I		Z10NE04KI			
Incl. operating and installation instructions							
Consisting of:							
1a		1 x	SERVO-DRIVE power supply unit				
1b		1 x	Flex				

2		Power supply unit housing					
		Panel fixing					
		Colour		Material			
		WGR		K		Z10NG120	
For SERVO-DRIVE power supply unit							

Accessories

3		SERVO-DRIVE distribution cable and cable end protector		
		Colour	Length (m)	
		S	8	Z10K800AE
Consisting of:				
3a	1 x	SERVO-DRIVE distribution cable		
3b	5 x	Cable end protector		
For cutting to size				

4		Connecting node and cable end protector		
		Colour	Material	
		S	K	Z10V100E.01
Consisting of:				
4a	1 x	Connecting node		
4b	2 x	Cable end protector		

-		Cable holder		
		Colour	Material	
		W	K	Z10K0009
E.g. for fixing the SERVO-DRIVE distribution cable				

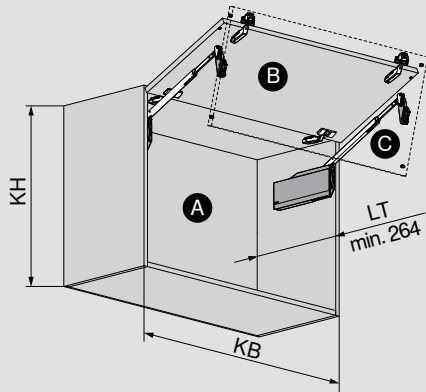
Colours and material

Name	
WGR	White grey
S	Black
W	White
K	Nylon

Wooden fronts, wide and narrow aluminium frames

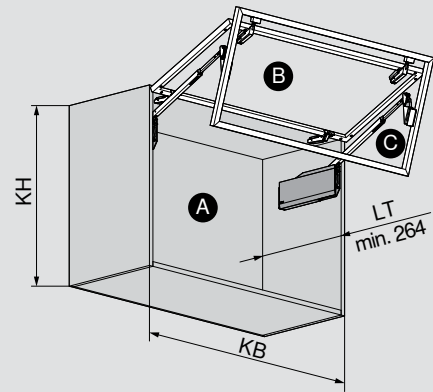
Planning

Wooden fronts and wide aluminium frames



A	Cabinet
B	Top front
C	Bottom front
KB	Cabinet width
KH	Cabinet height
LT	Internal cabinet depth

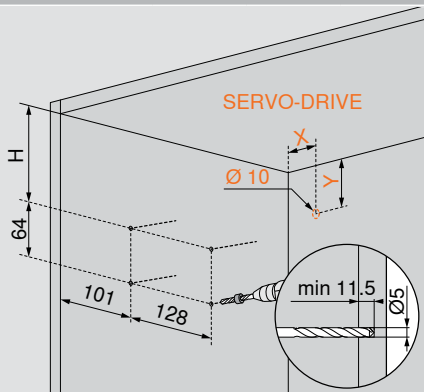
Narrow aluminium frames



A	Cabinet
B	Top front
C	Bottom front
KB	Cabinet width
KH	Cabinet height
LT	Internal cabinet depth

Drilling position

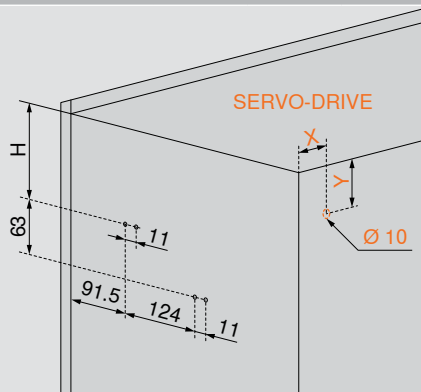
System screws



KH (mm)	H (mm)	X (mm)	Y (mm)
480-519	93.5	38.5	102
520-1200	116	38.5	124

KH Cabinet height

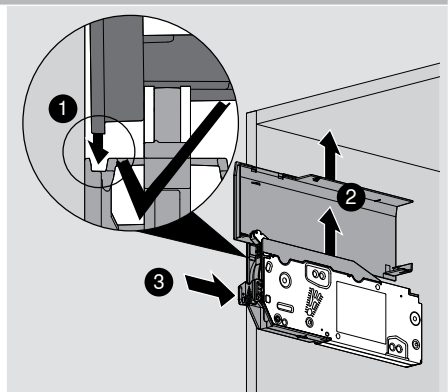
Chipboard screws incl. positioning system



KH (mm)	H (mm)	X (mm)	Y (mm)
480-519	93	38.5	102
520-1200	115.5	38.5	124

4 x chipboard screws Ø 4 x 35 mm

KH Cabinet height



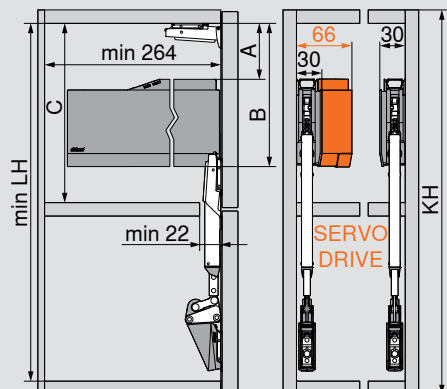
KH (mm)
520-1200

KH Cabinet height

Wooden fronts, wide and narrow aluminium frames

Planning

Space requirement

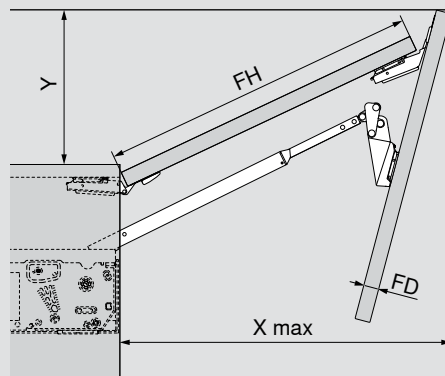


Lever arm		LH min. (mm)	
22F3200		443	
22F3500		512	
22F3900		632	
KH (mm)	A (mm)	B (mm)	C min. (mm)
480-519	66.5	171.5	172
520-1200	89.0	194.0	195

KH Cabinet height

LH Internal cabinet height

Space requirement above



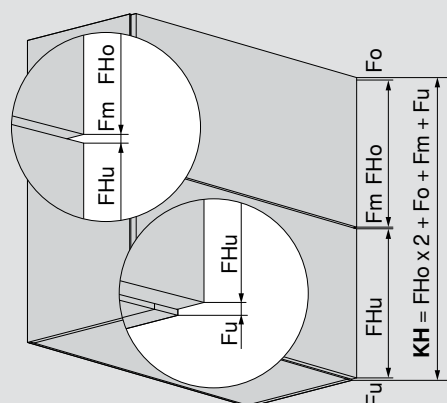
$$X \max = FH \times 0.9 + 1.5 \times FD + 35$$

Opening angle stop	Y (mm)
116°	$FH \times 0.44 + 38$
107°	$FH \times 0.29 + 35$
97°	$FH \times 0.12 + 31$
88°	28
81°	0

FD Front thickness

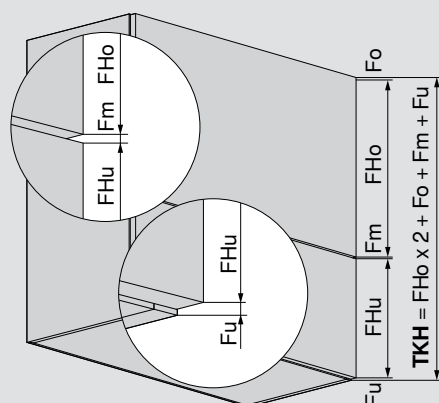
FH Front height

Symmetrical front



Fo	Top gap
Fm	Middle gap
Fu	Bottom gap
FHo	Front height top
FHu	Lower front height
KH	Cabinet height

Asymmetrical front

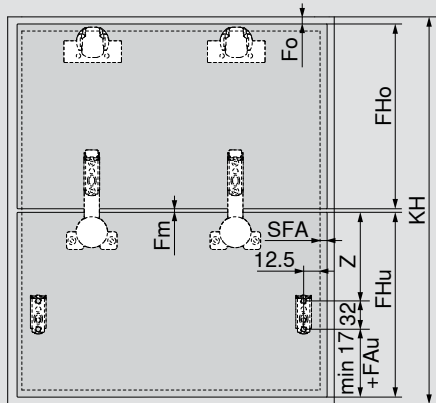


Fo	Top gap
Fm	Middle gap
Fu	Bottom gap
FHo	Front height top
FHu	Lower front height
TKH	Theoretical cabinet height

Wooden fronts and wide aluminium frames

Planning

Front assembly



Cabinet height KH (mm)

Z (mm)

480–519

170

520–1200

189

Fo Top gap

Fm Middle gap

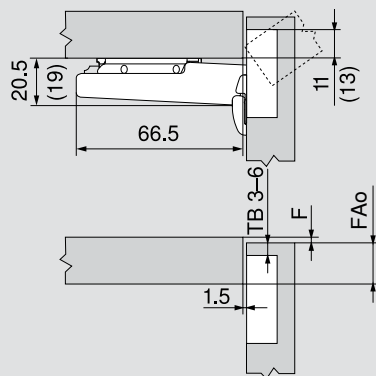
FAu Bottom front overlay

FHo Front height top

FHu Lower front height

SFA Side front overlay

CLIP top 120° hinge



TB Boss drilling distance

FAo Upper front overlay

F Gap

() CLIP top 120° special hinge

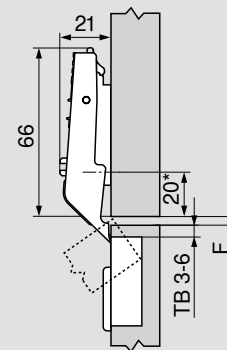
Boss drilling distance TB

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)

The front overlay must always be 2 mm bigger for the CLIP top 120° special hinge.

CLIP top centre hinge



TB Boss drilling distance

F Min. gap 1.5 mm

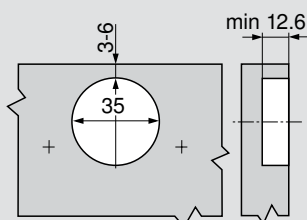
* 37 mm for cruciform mounting plates (37/32)

Boss drilling distance TB

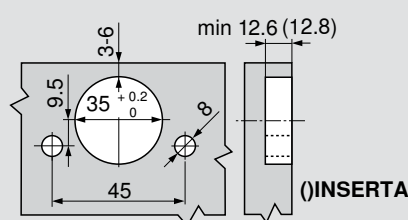
MD	Horizontal gap F between fronts (mm)																
0														3	4	5	6
3														6	5	4	3
6																	
9																	

MD Mounting plate spacing (mm)

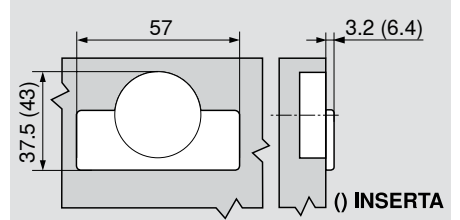
Screw-on assembly



INSERTA | EXPANDO assembly



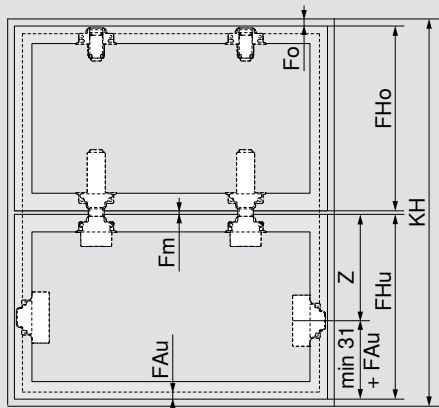
Hinge boss dimensions



Narrow aluminium frames

Planning

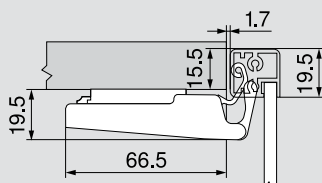
Front assembly



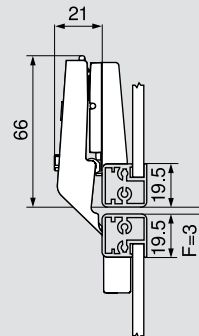
Cabinet height KH (mm)	Z (mm)
480–519	188
520–1200	207

Fo	Top gap
Fm	Middle gap
FAu	Bottom front overlay
FHo	Front height top
FHu	Lower front height

CLIP top 120° aluminium frame door hinge



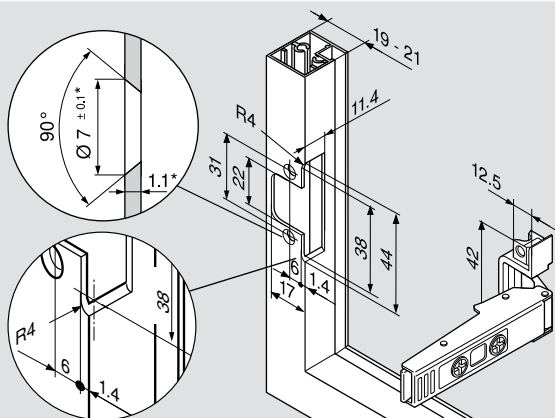
CLIP top aluminium centre hinge



F Min. gap 1.5 mm

The gap needs to be adjusted for a frame thickness of 20.5 mm or greater

Screw-on assembly (hinge | adapter plate)



* When changing material thickness, adjust the assembly dimensions accordingly



Find more information on assembly
and adjustment of AVENTOS HF top at
www.blum.com/hftopassembly

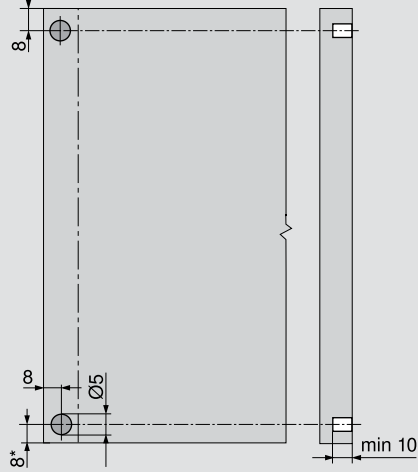
SERVO-DRIVE for AVENTOS HF top

Planning

Blum distance bumper (SERVO-DRIVE application only)



Insert Blum distance bumper (do not glue)



Recommendation for aluminium frames

Drill hole into cabinet side for Blum distance bumper

A trial application must be carried out if fixed to the front

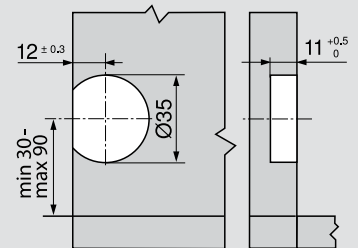
* From cabinet bottom edge for fronts that protrude below



Our EASY ASSEMBLY app provides information about assembly and adjustment of AVENTOS HF top and SERVO-DRIVE

www.blum.com/eaapp

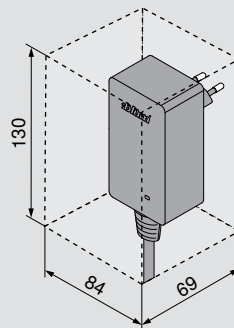
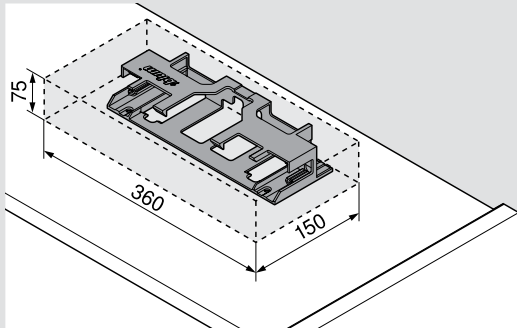
SERVO-DRIVE switch



SERVO-DRIVE power supply unit and accessories

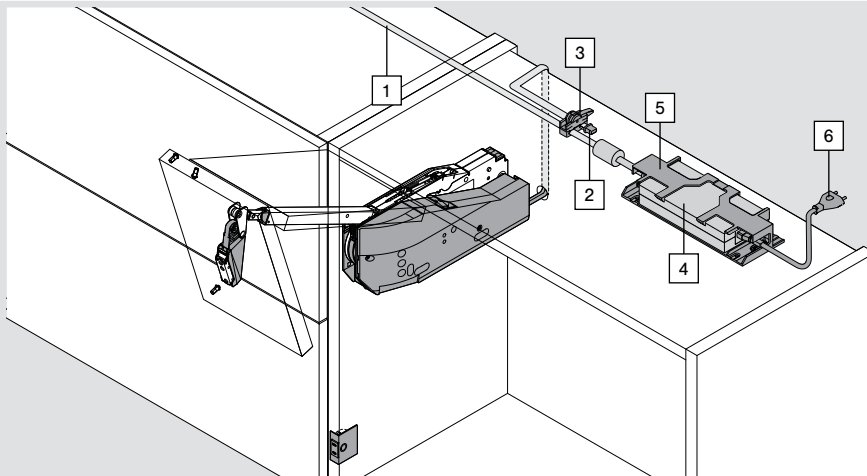
Planning

Space requirement and safety distance



i A safety distance of 30 mm must be maintained for air circulation (see graphic); otherwise, there is a risk that the SERVO-DRIVE power supply unit could overheat.

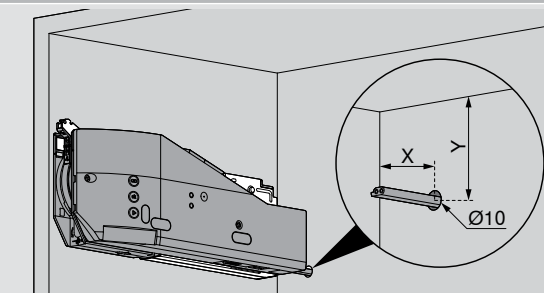
Assembly on the cabinet top panel



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

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

Back cabling



			X (mm)	Y (mm)
AVENTOS HF top	Cabinet height KH (mm)	480–519	38.5	102
		520–1200	38.5	124



Find more information on assembly and adjustment of SERVO-DRIVE for AVENTOS top at

www.blum.com/servodrive-aventos-assembly

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 **Android App on Google Play:**
Easy Assembly App

 **Available on the App Store:**
Easy Assembly App

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