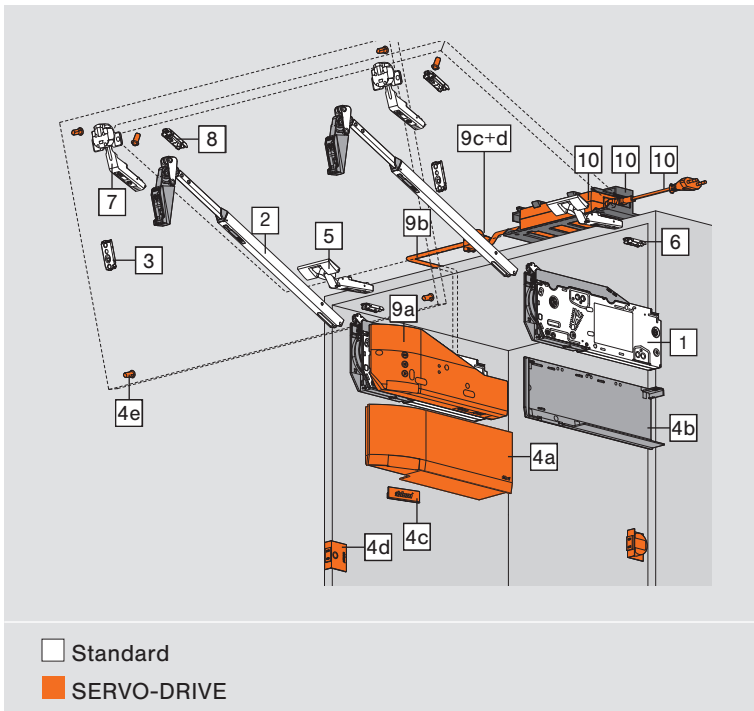


AVENTOS HF top



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 setting
- SERVO-DRIVE electrical motion support system
- Light operating forces
- Variable stop
- Integrated opening angle stop
- Standardized 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

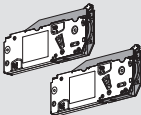
For asymmetrical fronts: **theoretical cabinet height TKH** = front height top FHo (mm) x 2 + gaps

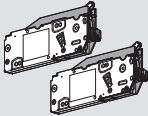
The larger front must be at the top for asymmetrical fronts.

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.

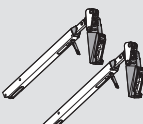
The power factor (LF) can be increased by 50% if you use a third lift mechanism.

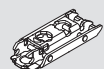
1		Lift mechanism set		
	Fixing with pre-mounted system screws			
	LF	OW		
	2700–13500*	81°– 116°	22F2510	
	10000–19300	81°– 116°	22F2810	
LW Power factor				
OW Opening angle (multi-stage adjustment)				
Consisting of:				
1	2 x	Symmetrical lift mechanism		
		Incl. pre-mounted system screws		
* 1 pc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

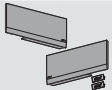
1		Lift mechanism set		
	Fixing with chipboard screws with positioning system			
	LF	OW		
	2700–13500*	81°– 116°	22F2500	
	10000–19300	81°– 116°	22F2800	
LW Power factor				
OW Opening angle (multi-stage adjustment)				
Consisting of:				
1	2 x	Symmetrical lift mechanism		
		Incl. positioning system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

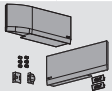
Wooden fronts and wide aluminium frames

Ordering information

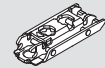
<div>2</div> <div></div> <div></div>	Lever arm set	
	Cabinet height (mm)*	
	480–610	22F3200
	600–910	22F3500
	840–1200	22F3900
Consisting of:		
2	2 x	Symmetrical lever arm
* For asymmetrical fronts: theoretical cabinet height TKH = front height top FHo (mm) x 2 + gaps		

3 	Mounting plate for lever arm		
	Fixing method	Spacing (mm)	
	Screw-on ¹	0	175H3100
	EXPANDO	0	177H3100E
	Knock-in	0	177H3100
All horizontal steel mounting plates with 0 mm spacing possible			
¹ Use 2 chipboard screws (609.1x00) per side for wooden fronts Use 2 countersunk self-tapping screws (660.0950) per side for wide aluminium frames			

4 	Cover cap set		
	Colour	Material	
	SW, HGR, TGR	K	22.8000.NA
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.NA
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° hinge		
	Boss	Spring	
	Knock-in	Unsprung	70T5580.TL
	Screw-on ¹	Unsprung	70T5550.TL
Boss overlay TO (fixed dimension)			11 mm
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			
¹ Use chipboard screws (609.1x00) for wooden fronts Use countersunk self-tapping screws (660.0950) for wide aluminium frames			

6 	Mounting plate for CLIP top 120° hinge		
	Fixing method	Spacing (mm)	
	Screw-on ¹	0	175H3100
	EXPANDO	0	177H3100E
	Knock-in	0	177H3100
Standard mounting plates, spacing depends on the upper front overlay			
¹ Use chipboard screws (609.1x00) for wooden fronts Use countersunk self-tapping screws (660.0950) for wide aluminium frames			

7 	CLIP top centre hinge		
	Boss	Spring	
	Screw-on ¹	Unsprung	78Z5500T
	Knock-in	Unsprung	78Z5530T
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			
¹ Use chipboard screws (609.1x00) for wooden fronts Use countersunk self-tapping screws (660.0950) for wide aluminium frames			

Wooden fronts and wide aluminium frames

Ordering information

8		Mounting plate for CLIP top centre hinge		
		Fixing method	Spacing (mm)	
		Screw-on ¹	0	175H3100
		EXPANDO	0	177H3100E
		Knock-in	0	177H3100
Standard mounting plates with 0 mm spacing				
Only use cruciform mounting plates for wide aluminium frames with a frame width of less than 57 mm				
¹ Use chipboard screws (609.1x00) for wooden fronts Use countersunk self-tapping screws (660.0950) for wide aluminium frames				

9		SERVO-DRIVE set		
		Colour	Material	
		TGR	K	23.A000
Consisting of:				
9a	1 x	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 synchronized drive units				
We recommend one drive unit per set for connected fronts.				

10		SERVO-DRIVE power supply unit and accessories
See page 56		

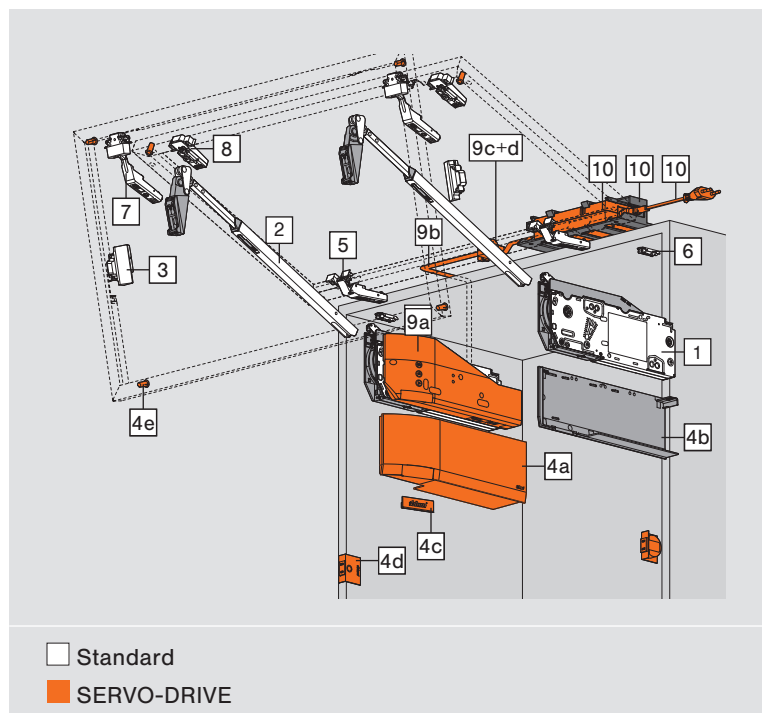
Optional

4c		Branding element		
		Material	Colour	
		K	SW-M, TGR	IN-G
Printed *	2 x		ABD.1000.BL	ABD.1009.BL
Embossed *	2 x		ABD.1000.BT	ABD.1009.BT
Plain	2 x		ABD.1000	ABD.1009
* With Blum logo				
From 1000 pcs:				
Customized, printed branding element				
From 5000 pcs:				
Customized, embossed branding element				

Colours and material

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

Narrow 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 setting
- SERVO-DRIVE electrical motion support system
- Light operating forces
- Variable stop
- Integrated opening angle stop
- Standardized 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

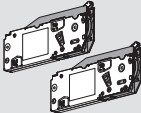
For asymmetrical fronts: **theoretical cabinet height TKH** = front height top FHo (mm) x 2 + gaps

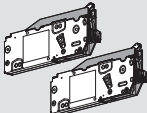
The larger front must be at the top for asymmetrical fronts.

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.

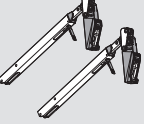
The power factor (LF) can be increased by 50% if you use a third lift mechanism.

1		Lift mechanism set		
	Fixing with pre-mounted system screws			
	LF		OW	
	2700–13500*		81°– 116°	
	10000–19300		81°– 116°	
				22F2510
				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

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

3		CLIP adapter plate set for lever arms	
		Version	Spacing (mm)
		Left/right	0
			175H5B00

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

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.NA

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

Fixing screws are included

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

Standard mounting plates, spacing depends on the top gap

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

Fixing screws are included

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

Consisting of:

9a 1 x 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 synchronized drive units

We recommend one drive unit per set for connected fronts.

10		SERVO-DRIVE power supply unit and accessories
See page 56		

Optional

4c		Branding element	
		Material	Colour
		K	SW-M, TGR
			IN-G
Printed *		2 x	ABD.1000.BL
Embossed *		2 x	ABD.1000.BT
Plain		2 x	ABD.1000

* With Blum logo

From 1000 pcs:

Customized, printed branding element

From 5000 pcs:

Customized, embossed branding element

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

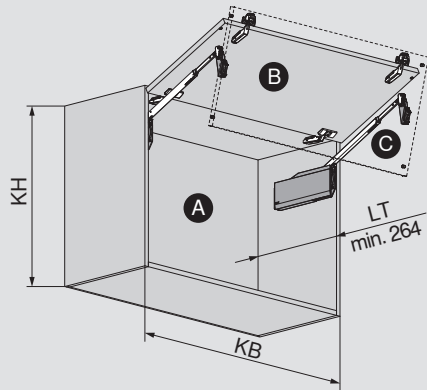
Colours and material

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

Wooden fronts, wide and narrow aluminium frames

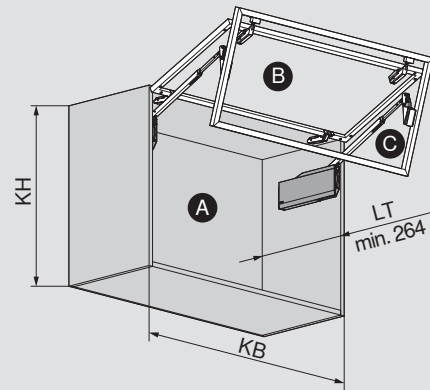
Planning

Wooden fronts and wide aluminium frames



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

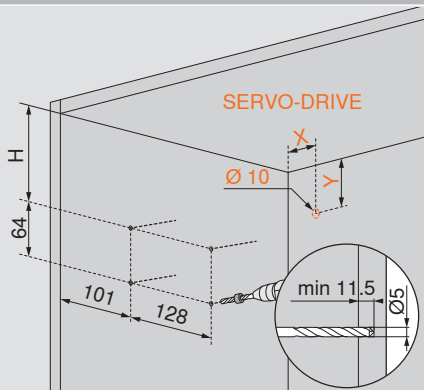
Narrow aluminium frames



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

Drilling position

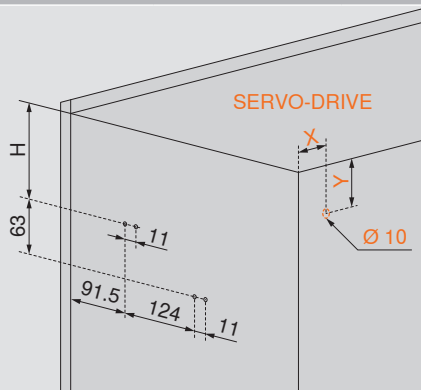
System screws



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

KH Cabinet height

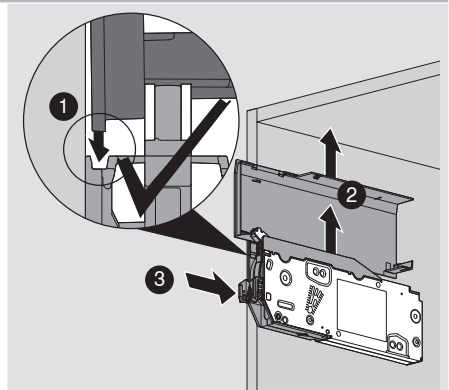
Chipboard screws incl. positioning system



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



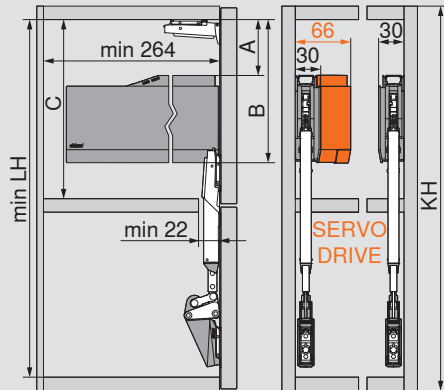
KH (mm)
520-1200

KH Cabinet height

Wooden fronts, wide and narrow aluminium frames

Planning

Space requirement

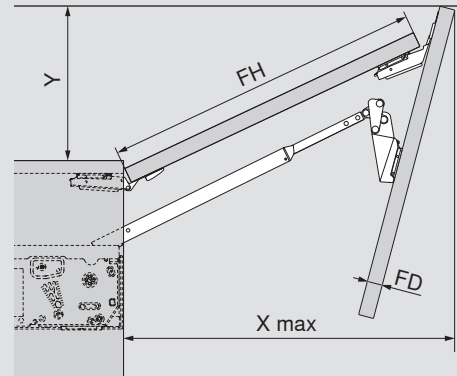


Lever arm set		LH min. (mm)	
22F3200		443	
22F3500		512	
22F3900		632	
KH (mm)	A (mm)	B (mm)	C min. (mm)
480-519	66.5	171.5	172
520-1200	89.0	194.0	195

KH Cabinet height

LH Internal cabinet height

Space requirement above



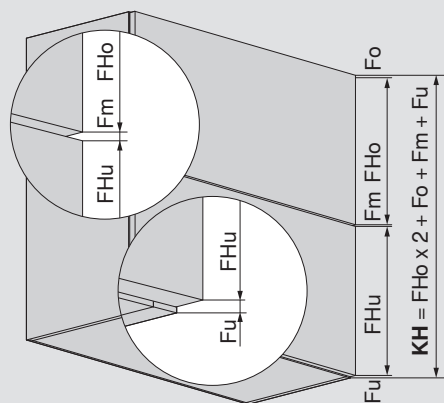
$$X \max = FH \times 0.9 + 1.5 \times FD + 35$$

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

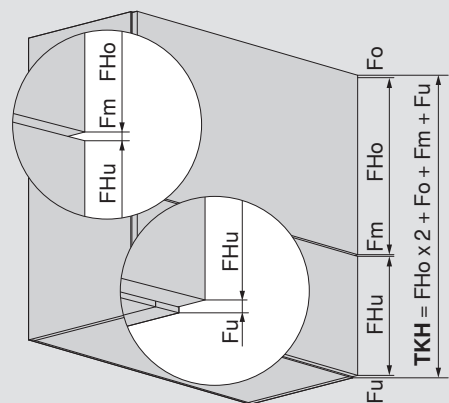
Fu Bottom gap

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

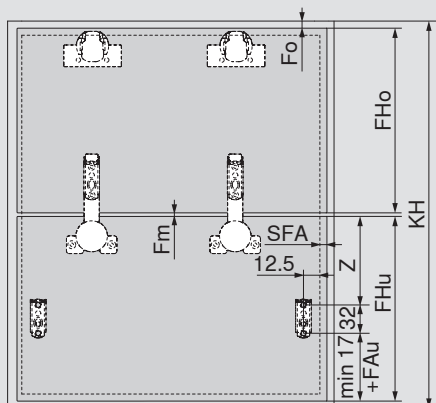
FHu Lower front height

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

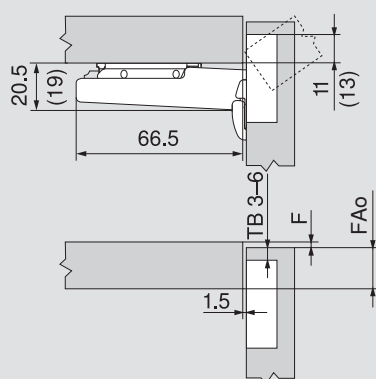
FAu Bottom front overlay

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

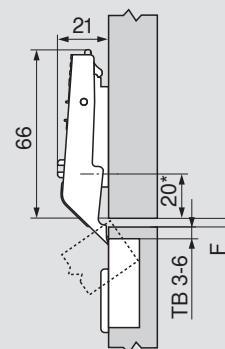
Boss drilling distance TB

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

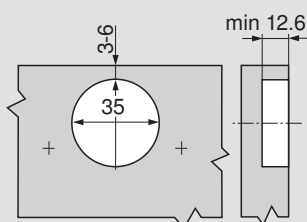
* 37 mm for cruciform mounting plates (37/32)

Boss drilling distance TB

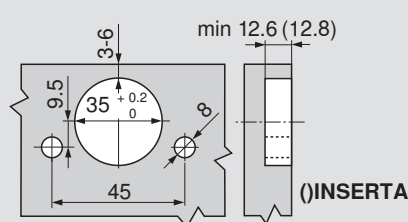
MD	Horizontal gap F between fronts (mm)																
0														3	4	5	6
3														6	5	4	3
6																	
9																	

MD Mounting plate spacing (mm)

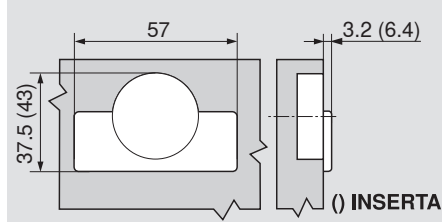
Screw-on assembly



INSERTA | EXPANDO assembly



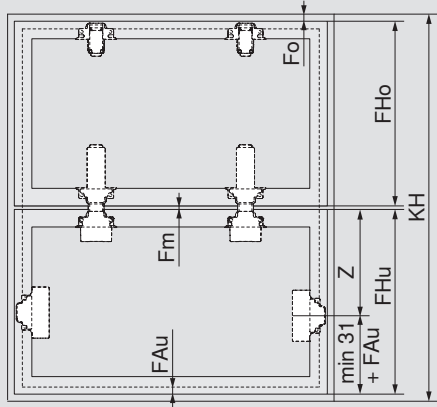
Hinge boss dimensions



Narrow aluminium frames

Planning

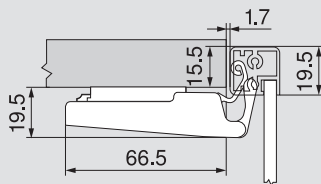
Front assembly



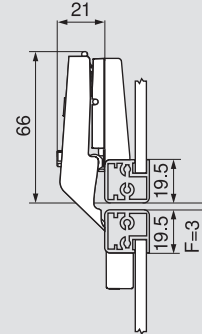
Cabinet height KH (mm)	Z (mm)
480-519	188
520-1200	207

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



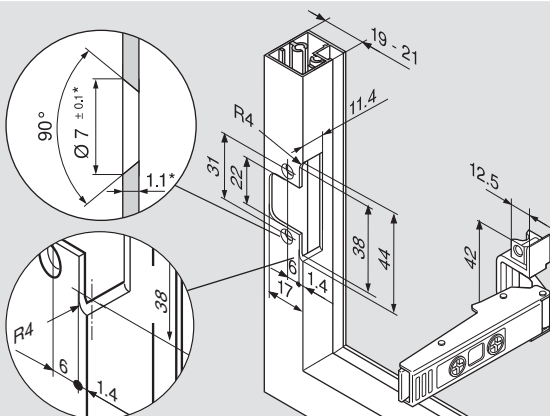
CLIP top aluminium centre hinge



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

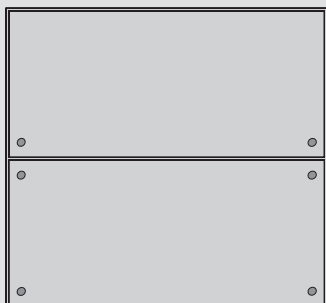


Find more information on
assembly and adjustment of
AVENTOS HF top at
www.blum.com/hftopassembly

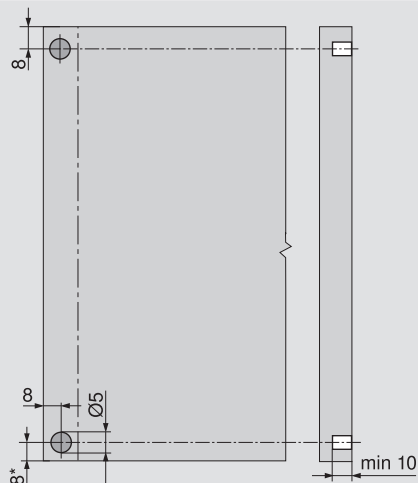
SERVO-DRIVE for AVENTOS HF top

Planning

Blum distance bumper (SERVO-DRIVE application only)



Insert Blum distance bumper (do not glue)



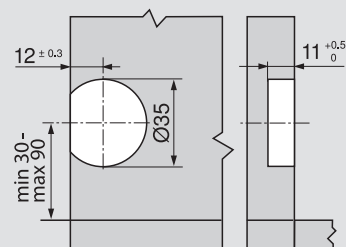
Recommendation for aluminium frames

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

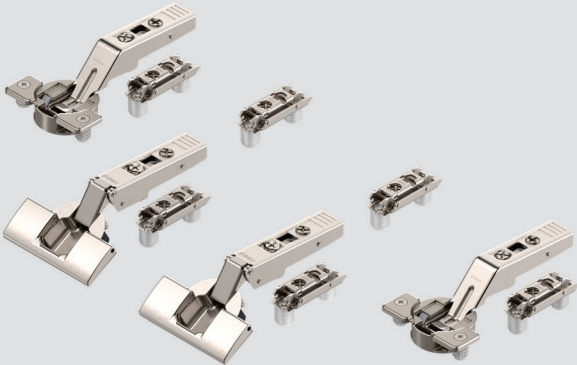
SERVO-DRIVE switch



Accessories for AVENTOS HF top

Ordering information

Hinge set – wooden fronts



Ordering information

Fixing method

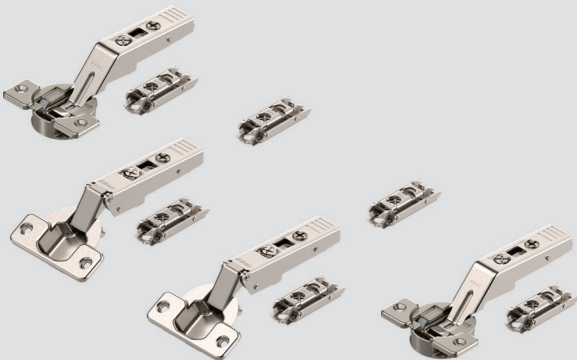
INSERTA | Knock-in | EXPANDO

78Z5530T11

Consisting of:

2x	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

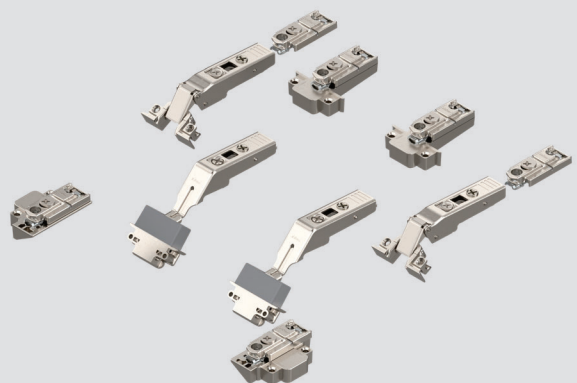
Consisting of:

2x	CLIP top 120° hinge unsprung 70T5550.TL
2 x	CLIP top centre hinge unsprung 78Z5500T For wide aluminium frames, an additional cruciform mounting plate is required for the CLIP top centre hinge.
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

Hinge set – narrow aluminium frames



Ordering information

Fixing method

Screw-on

78Z550AT11

Consisting of:

2x	CLIP top 120° aluminium frame door hinge unsprung 72T550A.TL
2 x	CLIP top aluminium centre hinge unsprung 78Z550AT
2 x	Horizontal cam mounting plate 175H5400
2 x	CLIP adapter plate symmetrical 175H5A00
2 x	CLIP adapter plate left/right 175H5B00