



AVENTOS

An inspiring range of lift systems in motion

www.blum.com

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Ease of movement – multitude of options

AVENTOS lift systems bring top quality of motion to wall cabinets. Even large and heavy fronts can be moved with the utmost ease. What makes AVENTOS especially practical is that it offers the furniture user full freedom of movement and provides the necessary head clearance at all times. Your customers will be inspired.

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Find out more about
the advantages of the
different lift systems

> www.blum.com/aventos

Lift systems for enhanced freedom of movement

AVENTOS lift systems bring high quality of motion to any wall cabinet. Whether in kitchens or living areas, with large or small fronts, all AVENTOS lift systems open with the utmost ease and close again softly and effortlessly with integrated BLUMOTION. Freedom of movement and head clearance is guaranteed throughout, and fronts are always out of the user's way.

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**AVENTOS HF –
For bi-fold lift systems**

The solution for high wall cabinets with bi-fold fronts and minimal space requirements above.



**AVENTOS HS –
For up & over lift systems**

The ideal fitting for large, one-piece fronts. There is enough space above the cabinet for crown mouldings or cornices.



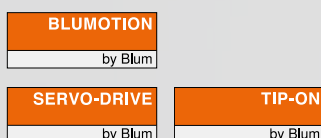
**AVENTOS HL –
For lift ups**

Suitable for tall cabinets or wall cabinets with fronts positioned above, AVENTOS HL can also be used in tricky installation situations, e.g. integration of electrical appliances into wall units.



**AVENTOS HK top –
For stay lifts**

Compact, minimalistic, highly functional. Thanks to electrical support it is suitable for both small and large lift systems. Opening angle stop and safety mechanism are integrated.



**AVENTOS HK-S –
For small stay lifts**

The right solution for smaller, one-piece lift systems, e.g. above larger units or refrigerators. Its compact dimensions mean that the fitting fits snugly into small furniture.



**AVENTOS HK-XS –
For small stay lifts**

Suitable for many applications (for both tall cabinets and wall cabinets) and needs very little space. The lift system can even be used for cabinets with low internal depths.

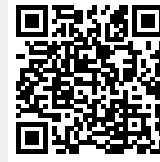


AVENTOS range














The right lift system for any application



| | Motion | Typical applications | Indication of front weight* | Possible fronts | Possible wcabinet dimensions in mm |
|---------------|--------|--|-----------------------------|---|-------------------------------------|
| HF | | Wall cabinet, top, two-part fronts | | Wooden, wide/narrow alu frame fronts, wood/glass combination, asymmetrical fronts | Height 480–1040 Width up to 1800 |
| HS | | Wall cabinet (if space), large, one-part fronts, with cornices and crown moulding | | Thin fronts, wooden, wide/narrow alu frame fronts | Height 350–800 Width up to 1800 |
| HL | | Wall cabinet, tall cabinet (if space) within reaching height, devices behind, fronts above | | Thin fronts, wooden, wide/narrow alu frame fronts | Height 300-580 Width up to 1800 |
| HK top | | Wall cabinet, tall cabinet, above fridge, larder unit, oven | | Thin fronts, wooden, wide/narrow alu frame fronts | Height 205-600 Width up to 1800 |
| HK-S | | Wall cabinet, tall cabinet, above fridge, larder unit, oven | | Wooden, wide/narrow alu frame fronts | Height 180-600 Width up to 1800 |
| HK-XS | | Wall cabinet, tall cabinet, above fridge, larder unit, oven, extractor, bath | Two-sided | Wooden, wide/narrow alu frame fronts | Height 240-600 Width up to 1800 |



> * You use the front weight and cabinet height to calculate the power factor of the lift mechanism. We would be happy to assist you with your product selection at www.blum.com/configurator

| | Minimum depth | Complete fitting or with hinges | Special installation or assembly | Available motion technology | Cover cap |
|--|--|---|---|---|--|
| | 278 | Hinges on cabinet top panel required + connection of fronts | CLIP assembly Cabinet top panel assembly 3 lift mechanism types (symmetrical) 4 telescopic arms (symmetrical) |   | <input type="radio"/> Silk white <input type="radio"/> Light grey <input checked="" type="radio"/> Dark grey |
| | 276 | No hinges required | CLIP assembly Cross stabiliser 9 lift mechanism types (symmetrical) 1 lever arm |   | <input type="radio"/> Silk white <input type="radio"/> Light grey <input checked="" type="radio"/> Dark grey |
| | 278 | No hinges required | CLIP assembly cross stabilisation 5 lift mechanism types (symmetrical) 4 lever arms |   | <input type="radio"/> Silk white <input type="radio"/> Light grey <input checked="" type="radio"/> Dark grey |
| | 187 | No hinges required | CLIP assembly 4 lift mechanism types (symmetrical) Lift mechanism adjustment from the front Integrated safety mechanism and opening angle stop |    | <input type="radio"/> Silk white <input type="radio"/> Light grey <input checked="" type="radio"/> Dark grey |
| | 163 | No hinges required | CLIP assembly 3 lift mechanism types (symmetrical) |   | <input type="radio"/> Silk white <input type="radio"/> Light grey <input checked="" type="radio"/> Dark grey |
| | 125 (Special solution with 100 mm possible) | Hinges on cabinet top panel required | CLIP assembly Cabinet top panel assembly 3 lift mechanism types (symmetrical) |   | |



Unrestricted range of motion

The front opens out from the working area and stops in any position, so it can be left open while the kitchen is being used. This makes the cabinet contents easy to access at all times.



Ample storage space

The design of top wall cabinets with lift systems is completely flexible in terms of height and width, in line with any storage space requirement or adapted to match the gap layout in the base cabinet.



Enhanced ease of use

Fronts open smoothly and can be supported either mechanically or electrically according to customer wishes. Soft closing is integrated as standard for BLUMOTION and SERVO-DRIVE.



Easy access

What's the best way to design tall and wall cabinets to ensure enhanced ergonomic features? With lift systems for unhindered access. Especially in the kitchen. In order to implement high-quality furniture with enhanced ease of use for your customers, we are constantly conducting further research, including international kitchen observations, and broadening our range of fittings according to customer needs.

www.blum.com/ideas

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AVENTOS – Mitred and rebated applications

The fascinating quality of motion of AVENTOS fittings is also possible for lift systems designed with mitres and rebates. What makes this especially practical is that standard fittings can still be used with a minor positional adjustment. Using the new application options, current design ideas can be implemented to best effect.

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Mitred and rebated
applications

> www.blum.com/1H6LFu

Mitred applications



AVENTOS HF – bi-fold lift system



AVENTOS HS – up & over lift system



AVENTOS HL – lift up



AVENTOS HK top – stay lift

Rebated applications



AVENTOS HF – bi-fold lift system



AVENTOS HS – up & over lift system



AVENTOS HL – lift up



AVENTOS HK top – stay lift

Find out more about the four types of motion technology from Blum at:



> www.blum.com/4formore



SERVO-DRIVE

by Blum

Electrical opening and soft close

Simply touch the front and the lift system opens thanks to SERVO-DRIVE. It closes automatically at the press of a button with integrated dampening.

For tall and wall cabinets that are easy to use

The functionality of lift systems is even greater when combined with a motion technology. Whether handle-less or including handles as a design element – with the right support you can make opening and closing top wall cabinets even easier for your customers.

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BLUMOTION

by Blum

Soft close

With BLUMOTION, the lift system always closes silently and effortlessly, regardless of the front weight or the closing force.

TIP-ON

by Blum

Mechanical opening

A single touch on the front releases the lift system so that you can open it upwards with ease. To close, simply press shut.



Reliable quality

We want our fitting solutions to provide your customers with many years of enjoyment and satisfaction. That is why we focus on ensuring the highest quality.



Precision testing

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



Long warranty

Everyone who comes into regular contact with Blum and its products should benefit from these encounters: from furniture manufacturers to the end users who enjoy Blum products year in, year out. We are so confident of this that we offer you a full 5-year warranty in respect of all the electrical components used in combination with Blum products.



Meticulous selection and processes

High-quality robust materials. Exact assembly. Fast and simple installation. From the choice of material right through to design and start-up, we insist on consistently high levels of quality.



Just a few simple steps – and that also goes for assembly

Easy to insert: assembly of the cross stabiliser for AVENTOS HS and AVENTOS HL is now completely tool-free.

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Almost entirely tool-free

AVENTOS itself can even be assembled with ease and the proven CLIP technology makes the process almost entirely tool-free. The only tool required is a cordless screwdriver for adjusting the lift mechanism in precise accordance with the front weight. The fact that the cross stabiliser for AVENTOS HS and AVENTOS HL can be attached tool-free significantly reduces the amount of effort required for assembly. Fronts can be conveniently adjusted in 3 dimensions to ensure a perfect gap layout.

SERVO-DRIVE

Start-up made easy

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



Find out more about
SERVO-DRIVE
for AVENTOS assembly:

> www.blum.com/sdaventosassembly



Frequently asked questions

AVENTOS

Why is it that the lift system rises or falls when you let go?

It is because the lift mechanism has not been set correctly. The lift mechanism adjustment process involves using a cordless screwdriver and calibration to adjust the lift mechanism in precise accordance with the front weight. The result: the front remains open in any position.

Is it also possible to use opening angle stops?

Yes, it is possible for AVENTOS HF, HK-S and HK-XS. AVENTOS HK top is equipped with an integrated opening angle stop. In the case of SERVO-DRIVE for AVENTOS, the drive unit must be installed first and once the opening angle stop has been subsequently installed and/or adjusted, a reference run must be performed.

Can the AVENTOS concept be implemented without using handles?

Yes. Firstly, there is the option of the front overlaying the bottom of the cabinet. Alternatively, you can equip the cabinet with SERVO-DRIVE (an electrical motion support system) or TIP-ON (a mechanical opening support system) – just touch lightly and the lift systems appear to open by themselves.

SERVO-DRIVE for AVENTOS

Is it possible to synchronise multiple lift systems?

Up to three drive units can be set so that they move simultaneously. This is especially practical in cases where there is a shared front covering several cabinets. In addition, the "collision avoidance" function for corner solutions allows you to adjust the drive units so that only one front ever opens at a time.

What does my customer see when the wireless switch battery has to be replaced?

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

What happens when the power goes out?

When the power goes out, SERVO-DRIVE for AVENTOS is not activated. However, you can continue to open and close manually without restrictions. Once the power has been restored, you can carry on using everything as normal without having to make any additional adjustments.

Can SERVO-DRIVE for AVENTOS be deactivated?

Your customers can deactivate SERVO-DRIVE for AVENTOS very easily. This is especially practical when cleaning the fronts, for example. We recommend a switched outlet for this. While deactivated, the lift systems can continue to be opened and closed manually.

Award-winning design – Elegance that mesmerises

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

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Detailed information on the awards can be found at:

> www.blum.com/award

AVENTOS HF

The AVENTOS HF bi-fold lift system is the ideal solution for high and mid height wall cabinets. Thanks to the two-part front, even large lift systems can be implemented. With AVENTOS HF, there is no limit to the variety of planning and design options available. Regardless of whether it's wooden fronts, narrow or wide alu frames, combinations of different materials or even fronts of different heights: you can meet the individual desires of your customers.

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BLUMOTION

by Blum

SERVO-DRIVE

by Blum



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



Innovative technology: the CLIP top centre hinge prevents fingers getting caught.



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



Further information on
AVENTOS HF

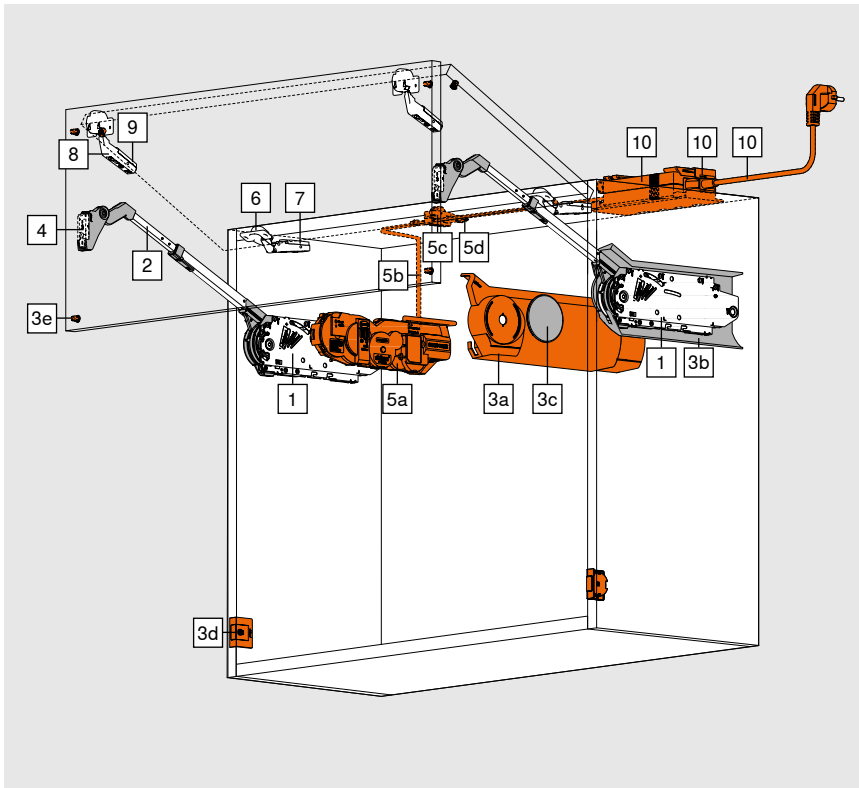


> [www.blum.com/
aventoshf](http://www.blum.com/aventoshf)

AVENTOS HF



Standard and SERVO-DRIVE for AVENTOS HF Wooden fronts and wide alu frames



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

Using the power factor, you can calculate the number of required lift mechanisms. The power factor required depends on the weight of the lower and upper front and the cabinet height.

The power factor and the front weight can be increased by 50% when a third lift mechanism is used.

We recommend the more powerful lift mechanism for overlapping areas.

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



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

- Standard
- SERVO-DRIVE

Order specification

| 1 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Lift mechanism set |
|-----------------------|--------------------------------|-------------------------------------|------------------------------|
| | Power factor LF | | |
| | 2600–5500 (1 pce. LF 960–2650) | | 20F2200.05 |
| | 5350–10150 | | 20F2500.05 |
| | | 9000–17250 (3 pce. LF 13500-25900) | 20F2800.05 |
| Consisting of: | | | |
| 1 | 2 x | | Symmetrical lift mechanism |
| - | 8 x | | Chipboard screws Ø 4 x 35 mm |

| 3 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Cover cap set |
|-----------------------|--------------------------|-------------------------------------|---|
| | Colour | Material | |
| | HGR, SW, TGR | Nylon | 20F8000 |
| Consisting of: | | | |
| - | 1 x | | Large cover cap left |
| 3b | 1 x | | Large cover cap right |
| 3c | 2 x | | Round cover cap, stamped with Blum logo |

| 2 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Telescopic arm set |
|--|---|-------------------------------------|------------------------------|
| | Cabinet height KH (mm)¹ | | |
| | 480–570 | | 20F3200.01 |
| | 560–710 | | 20F3500.01 |
| | 700–900 | | 20F3800.01 |
| | | 760–1040 | 20F3900.01 |
| Consisting of: | | | |
| 2 | 2 x | | Telescopic arm (symmetrical) |
| ¹ For asymmetrical fronts, theoretical cabinet height TKH = front height top FHo (mm) x 2 + gaps | | | |


| 3 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Cover cap set for SERVO-DRIVE |
|-----------------------|--------------------------|-------------------------------------|---|
| | Colour | Material | |
| | HGR, SW, TGR | Nylon | 21F8000 |
| Consisting of: | | | |
| 3a | 1 x | | SERVO-DRIVE large cover cap left |
| 3b | 1 x | | Large cover cap 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 |


Standard and SERVO-DRIVE for AVENTOS HF Wooden fronts and wide alu frames

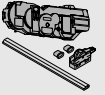
AVENTOS HF



Order specification


| 4 | <input type="checkbox"/> | Mounting plate for telescopic arm |
|---|--------------------------|-----------------------------------|
|  | | |
| Recommendation: | | |
| Fixing method | Spacing (mm) | |
| Screw-on ² | 0 | 175H3100 |
| EXPANDO | 0 | 177H3100E |
| Knock-in | 0 | 177H3100 |
| All horizontal steel mounting plates with 0 mm spacing possible | | |

| 7 | <input type="checkbox"/> | Mounting plate for CLIP top 120° hinge |
|---|--------------------------|--|
|  | | |
| Recommendation: | | |
| Fixing method | Spacing (mm) | |
| Screw-on ² | 0 | 175H3100 |
| EXPANDO | 0 | 177H3100E |
| Knock-in | 0 | 177H3100 |
| Standard mounting plates, spacing depends on the upper front overlay | | |

| 5 | <input type="checkbox"/> | SERVO-DRIVE set |
|---|--------------------------|-----------------------------|
|  | | |
| Colour | Material | |
| R7037 | Nylon | 21FA000 |
| Consisting of: | | |
| 5a | 1 x | Drive unit |
| 5b | 1 x | Distribution cable, 1500 mm |
| 5c | 1 x | Connecting node |
| 5d | 2 x | Cable end protector |
| We recommend using two synchronised drive units for three lift mechanisms or more | | |

| 8 | <input type="checkbox"/> | CLIP top centre hinge |
|---|--------------------------|-----------------------|
|  | | |
| Boss | Spring | |
| EXPANDO | Without | 78Z553ET |
| Screw-on ² | Without | 78Z5500T |
| 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 a 20 kg front weight | | |

| 6 | <input type="checkbox"/> | CLIP top 120° hinge |
|---|--------------------------|---------------------|
|  | | |
| Boss | Spring | |
| INSERTA | Without | 70T5590BTL |
| Screw-on ² | Without | 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 a 20 kg front weight | | |


| 9 | <input type="checkbox"/> | Mounting plate for CLIP top centre hinge |
|---|--------------------------|--|
|  | | |
| Recommendation: | | |
| Fixing method | Spacing (mm) | |
| Screw-on ² | 0 | 175H3100 |
| EXPANDO | 0 | 177H3100E |
| Knock-in | 0 | 177H3100 |
| Standard mounting plates with 0 mm spacing | | |
| Only use cruciform mounting plates for wide alu frames under a 57 mm frame width | | |

| 10 | <input type="checkbox"/> | Blum transformer and accessories |
|-------------|--------------------------|----------------------------------|
| See page 74 | | |

Alternative

| 6 | <input type="checkbox"/> | CLIP top 120° special hinge for larger front overlay |
|---|--------------------------|--|
|  | | |
| Boss | Spring | |
| INSERTA | Without | 72T5590BTL |
| Screw-on ² | Without | 72T5550.TL |
| Boss overlay TO (fixed dimension) | | 13 mm |
| 3 hinges for cabinet widths KB 1200 mm and higher and/or starting at a 12 kg front weight | | |
| 4 hinges for cabinet widths KB 1800 mm and/or starting at a 20 kg front weight | | |

Accessories

| - | <input type="checkbox"/> | Opening angle stop |
|---|--------------------------|--------------------|
|  | | |
| Opening angle | Colour | |
| 104° | TGR | 20F7051 |
| 83° | R7037 | 20F7011 |

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

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

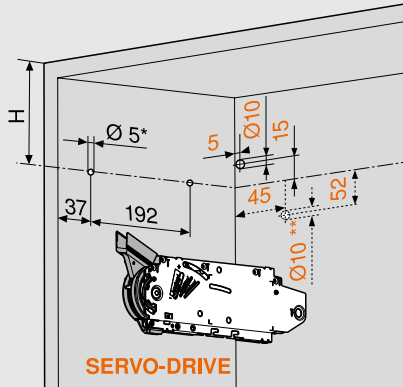
AVENTOS HF



Standard and SERVO-DRIVE for AVENTOS HF Wooden fronts and wide alu frames symmetrical

Planning

Drilling position



SERVO-DRIVE

Cabinet height KH (mm)

H (mm)

480–549 KH x 0.3 - 28

550–1040 KH x 0.3 - 57

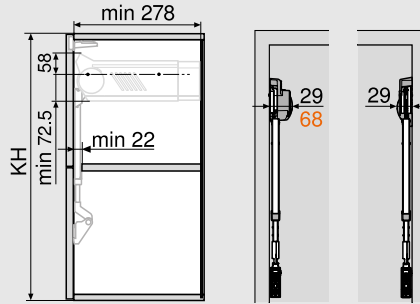
4 x chipboard screws Ø 4 x 35 mm

Drilling for SERVO-DRIVE distribution cable, left only

* Drilling depth 5 mm

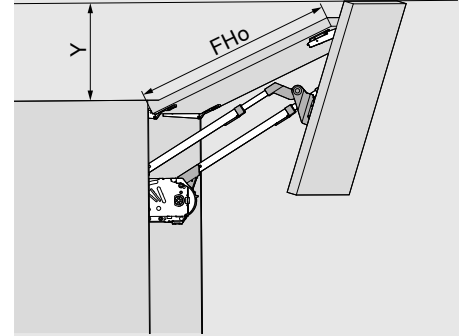
** Alternative drilling

Space requirement



SERVO-DRIVE

KH Cabinet height



Opening angle stop

Y (mm)

Without

FHo x 0.44 + 38

104°

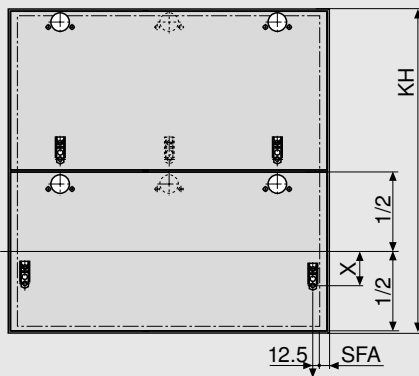
FHo x 0.24 + 34

83°

0

FHo Front height top

Front assembly



Cabinet height KH (mm)

X (mm)

177H3100
177H3100E
177H3100E10
177H5100
175H3100
175H4100

175H5400
177H5400E

480–549

70

68

550–1040

47

45

SFA Front overlay of the side panel

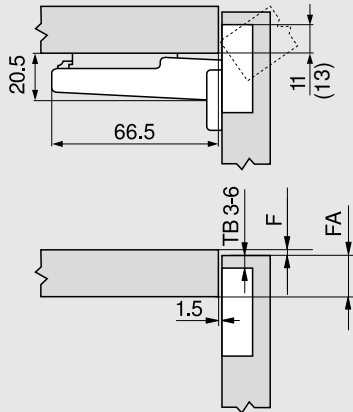
Standard and SERVO-DRIVE for AVENTOS HF Wooden fronts and wide alu frames symmetrical

AVENTOS HF



Planning

CLIP top 120° hinge



F Gap

() CLIP top 120° special hinge

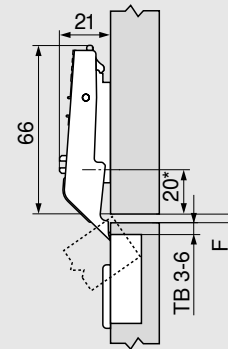
Drilling distance TB

| 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)

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

CLIP top centre hinge



F Min. gap 1.5 mm

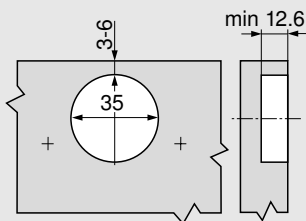
* 37 mm for cruciform mounting plates (37/32)

Drilling distance TB

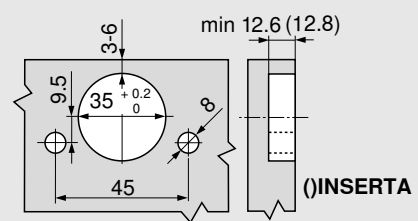
| MD | Horizontal gap F between fronts (mm) | | | | | | | | | | | | | | | | |
|----|--------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|---|---|---|---|
| | | | | | | | | | | | | | | 3 | 4 | 5 | 6 |
| 0 | | | | | | | | | | | | | | 6 | 5 | 4 | 3 |
| 3 | | | | | | | | | | | | | |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

MD Mounting plate spacing (mm)

Screw-on assembly



INSERTA | EXPANDO assembly



AVENTOS HF



Standard and SERVO-DRIVE for AVENTOS HF Wooden fronts and wide alu frames asymmetrical

Planning

Drilling position

SERVO-DRIVE

| Theoretical 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 Front height top

FHu Lower front height

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

FHo Front height top

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

Front assembly

| Theoretical Cabinet height TKH (mm) | X (mm) | |
|-------------------------------------|--|-----------------------|
| 480–549 | 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 Front height top

FHu Lower front height

FAu Bottom front overlay

SFA Front overlay, side

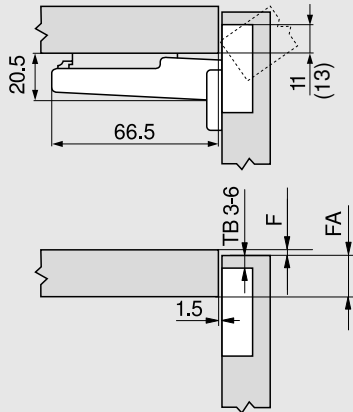
Standard and SERVO-DRIVE for AVENTOS HF Wooden fronts and wide alu frames asymmetrical

AVENTOS HF



Planning

CLIP top 120° hinge



F Gap

() CLIP top 120° special hinge

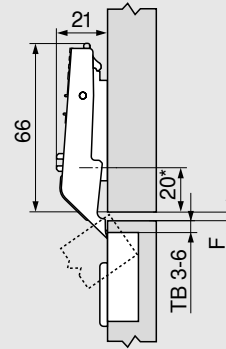
Drilling distance TB

| 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)

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

CLIP top centre hinge



F Min. gap 1.5 mm

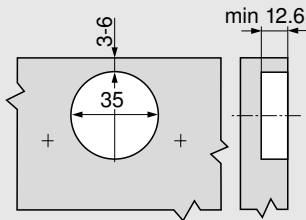
* 37 mm for cruciform mounting plates (37/32)

Drilling distance TB

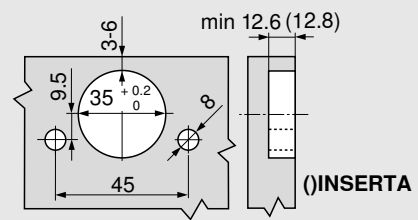
| MD | Horizontal gap F between fronts (mm) | | | | | | | | | | | | | | | | | | | |
|----|--------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|---|---|
| | | | | | | | | | | | | | | | | | 3 | 4 | 5 | 6 |
| 0 | | | | | | | | | | | | | | | | | 6 | 5 | 4 | 3 |
| 3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

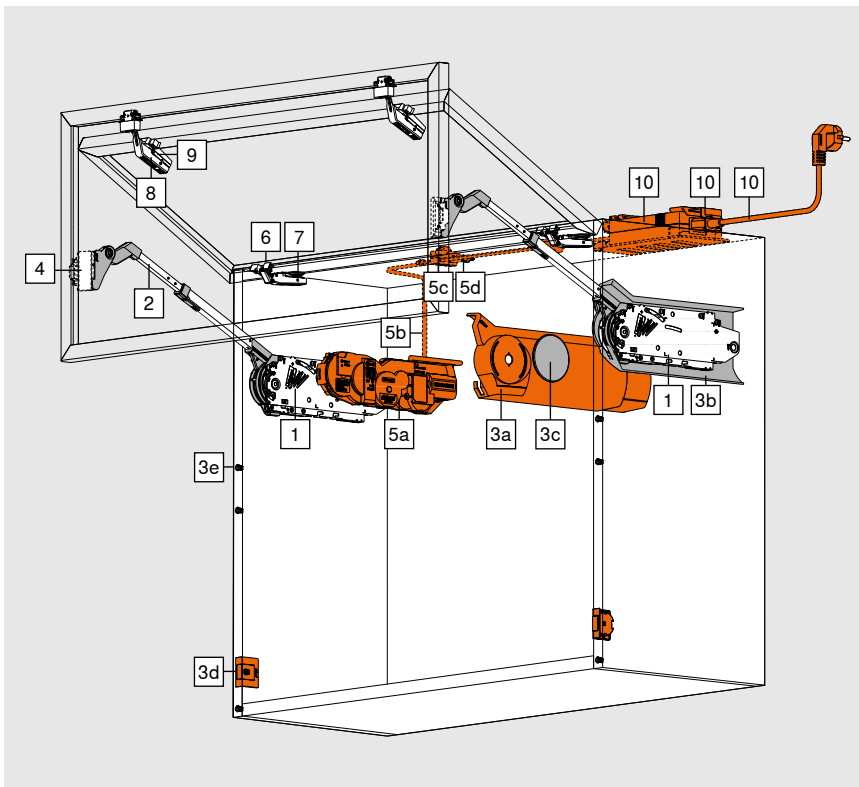
MD Mounting plate spacing (mm)

Screw-on assembly



INSERTA | EXPANDO assembly





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

Using the power factor, you can calculate the number of required lift mechanisms. The power factor required depends on the weight of the lower and upper front and the cabinet height.

We recommend the more powerful lift mechanism for overlapping areas.

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



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

Standard

SERVO-DRIVE

Order specification

| | | | |
|-----------------------|--------------------------------|-------------------------------------|---------------------------|
| 1 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Lift mechanism set |
| | Power factor LF | | |
| | 2600–5500 (1 pce. LF 960–2650) | | 20F2200.05 |
| | 5350–10150 | | 20F2500.05 |
| | 9000–17250 | | 20F2800.05 |
| Consisting of: | | | |
| 1 | 2 x | Symmetrical lift mechanism | |
| - | 8 x | Chipboard screws Ø 4 x 35 mm | |

| | | | | |
|-----------------------|--------------------------|---|-----------------|---------|
| 3 | <input type="checkbox"/> | Cover cap set | | |
| | Colour | | Material | |
| | HGR, SW, TGR | | Nylon | 20F8000 |
| Consisting of: | | | | |
| - | 1 x | Large cover cap left | | |
| 3b | 1 x | Large cover cap right | | |
| 3c | 2 x | Round cover cap, stamped with Blum logo | | |

| | | | |
|--|---|-------------------------------------|---------------------------|
| 2 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Telescopic arm set |
| | Cabinet height KH (mm)¹ | | |
| | 480–570 | | 20F3200.01 |
| | 560–710 | | 20F3500.01 |
| | 700–900 | | 20F3800.01 |
| | 760–1040 | | 20F3900.01 |
| Consisting of: | | | |
| 2 | 2 x | Telescopic arm (symmetrical) | |
| ¹ For asymmetrical fronts, theoretical cabinet height TKH = front height top FHo (mm) x 2 + gaps | | | |

| | | | | |
|-----------------------|-------------------------------------|---|-----------------|---------|
| 3 | <input checked="" type="checkbox"/> | Cover cap set for SERVO-DRIVE | | |
| | Colour | | Material | |
| | HGR, SW, TGR | | Nylon | 21F8000 |
| Consisting of: | | | | |
| 3a | 1 x | SERVO-DRIVE large cover cap left | | |
| 3b | 1 x | Large cover cap 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 | | |

Standard and SERVO-DRIVE for AVENTOS HF Narrow alu frames

AVENTOS HF



Order specification

| | | | |
|----------|----------------|---|-----------------|
| 4 | | CLIP adapter plate set for telescopic arms | |
| | Version | Spacing (mm) | |
| | Left/right | 0 | 175H5B00 |

| | | | |
|----------|---------------|------------------------|----------------|
| 5 | | SERVO-DRIVE set | |
| | Colour | Material | |
| | R7037 | Nylon | 21FA000 |

Consisting of:

| | | |
|-----------|-----|-----------------------------|
| 5a | 1 x | Drive unit |
| 5b | 1 x | Distribution cable, 1500 mm |
| 5c | 1 x | Connecting node |
| 5d | 2 x | Cable end protector |

| | | | |
|---|-------------|---|-------------------|
| 6 | | CLIP top 120° aluminium frame door hinge | |
| | Boss | Spring | |
| | Screw-on | Without | 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 a 20 kg front weight | | | |

| | | | |
|------------------------|----------------------|---|------------------|
| 7 | | Mounting plate for CLIP top 120°-hinge | |
| Recommendation: | | | |
| | Fixing method | Spacing (mm) | |
| | Screw-on | 0 | 175H3100 |
| | EXPANDO | 0 | 177H3100E |
| | Knock-in | 0 | 177H3100 |

Standard mounting plates, spacing depends on the top gap

| | | | |
|----------|-------------|--|-----------------|
| 8 | | CLIP top aluminium centre hinge | |
| | Boss | Spring | |
| | Screw-on | Without | 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 a 20 kg front weight

| | | | |
|----------|----------------|---|-----------------|
| 9 | | CLIP adapter plate for centre hinges | |
| | Version | Spacing (mm) | |
| | Symmetrical | 0 | 175H5A00 |

| | | | |
|-------------|--|---|--|
| 10 | | Blum transformer and accessories | |
| See page 74 | | | |

Accessories

| | | | |
|---|----------------------|---------------------------|----------------|
| - | | Opening angle stop | |
| | Opening angle | Colour | |
| | 104° | TGR | 20F7051 |
| | 83° | R7037 | 20F7011 |

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

Standard and SERVO-DRIVE for AVENTOS HF Narrow alu frames symmetrical/asymmetrical

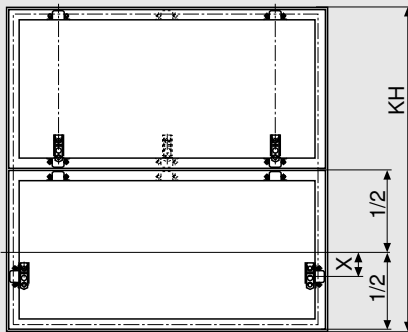
AVENTOS HF



Planning

Narrow alu frames symmetrical

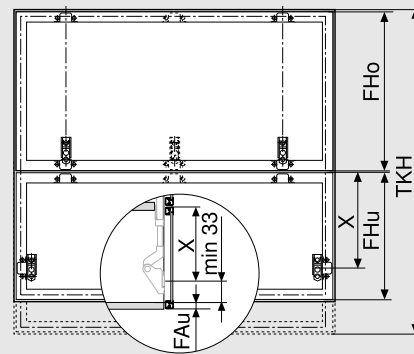
Front assembly



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

Narrow alu frames asymmetrical

Front assembly



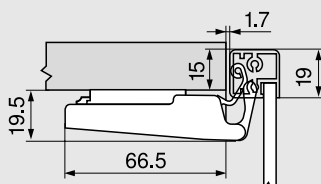
| Theoretical Cabinet height TKH (mm) | X (mm) |
|-------------------------------------|----------------|
| 480–549 | $FHo / 2 + 54$ |
| 550–1040 | $FHo / 2 + 31$ |

FHo Front height top

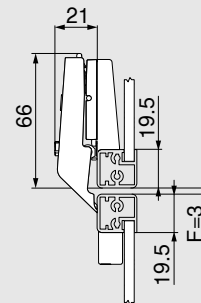
FHu Lower front height

FAU Bottom front overlay

CLIP top 120° aluminium frame door hinge



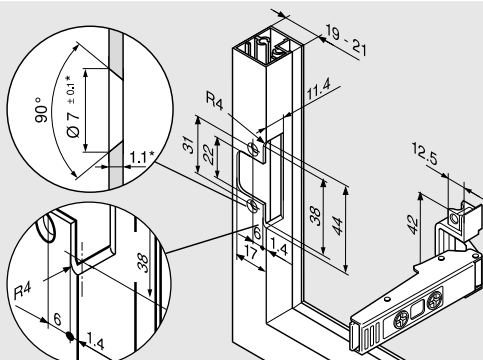
CLIP top aluminium centre hinge



F Min. gap 1.5 mm

The gap needs to be adjusted for frame thicknesses over 20.5 mm

Screw-on assembly (hinge | adapter plate)

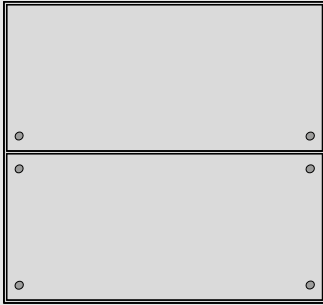


* When changing material thickness, adjust the assembly dimensions accordingly

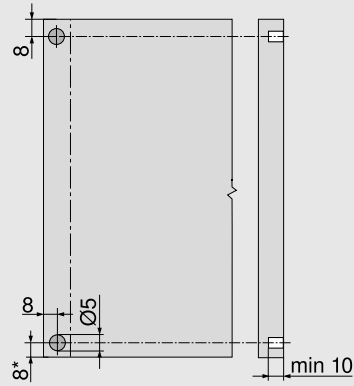
Further planning information for SERVO-DRIVE – see page 34

Planning

Blum distance bumper (SERVO-DRIVE application only)



Insert Blum distance bumper (do not glue)



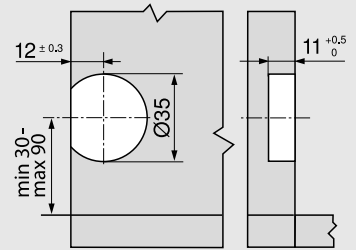
Recommendation for aluminium frames

Take into account the drilling for the Blum distance bumper in the cabinet side

A trial application must be carried out when fixing in the front

* From cabinet bottom edge for fronts that protrude below

SERVO-DRIVE switch



Assembly and adjustment



Information on assembly and adjustment

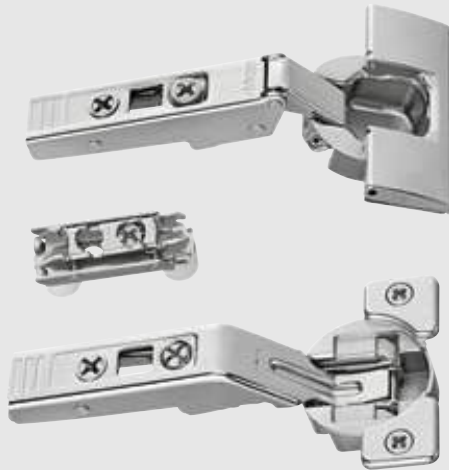
> www.blum.com/aventos-hf-assembly

Standard and SERVO-DRIVE for AVENTOS HF Accessories

AVENTOS HF



Hinge set – wooden fronts



Order specification

Fixing method

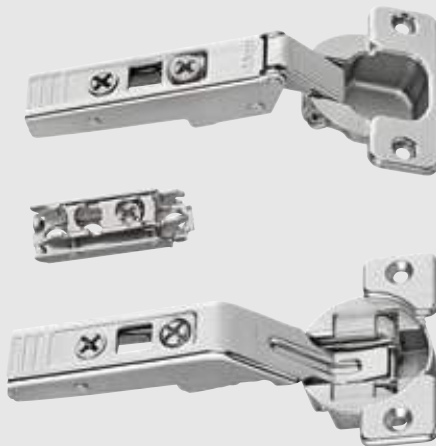
INSERTA | Knock-in | EXPANDO

☎ 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 alu frames



Order specification

Fixing method

Screw-on¹

☎ 78Z5500T12

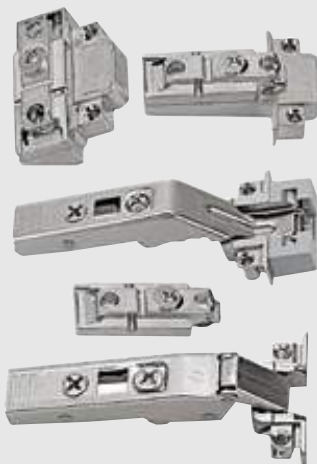
Consisting of:

| | |
|-----|--|
| 2x | 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) per side for wooden fronts. Use counter sunk self tapping screws (660.0950) per side for wide alu frames.

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

Hinge set – narrow alu frames



Order specification

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 symmetric 175H5A00 |
| 2 x | CLIP adapter plate left/right 175H5B00 |

AVENTOS HS

With the lift system fitting for AVENTOS HS, even large, one-part fronts appear to defy gravity by swinging up effortlessly. There is still enough space over the cabinet for a host of design possibilities, such as beautiful details in the form of cornice or crown mouldings, for example. As you would expect, this product is just as easy to assemble as the others and the process is almost entirely tool-free.

 **blum**

BLUMOTION

by Blum

SERVO-DRIVE

by Blum

Further information on
AVENTOS HS



> [www.blum.com/
aventoshs](http://www.blum.com/aventoshs)



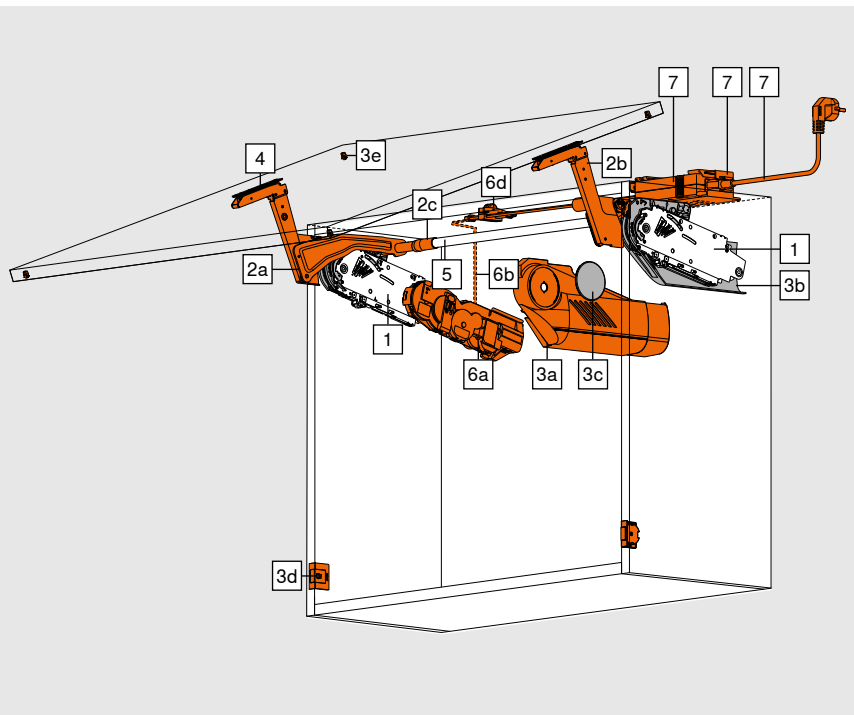
The up & over lift system can also be used with EXPANDO T, the fixing system for thin fronts – with an unchanged fixing position.



Tailored to your own tastes: AVENTOS HS also allows wall cabinets to be decorated with cornice or crown mouldings.



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



In order to select the correct lift mechanism, it is necessary to establish both the cabinet height and the weight of the front (including the handle).

Example

Cabinet height KH = 600 mm

Weight of front = 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 specification

| 1 | | <input type="checkbox"/> <input checked="" type="checkbox"/> Lift mechanism set | | | | | | | | | |
|---------|-----------------------------------|---|------------|---------|-----------------------------------|------------|-------------|---------|-----------------------------------|------------|-------------|
| KH (mm) | Cabinet height KH 350–525 mm | | | KH (mm) | Cabinet height KH 526–675 mm | | | KH (mm) | Cabinet height KH 676–800 mm | | |
| | 20S2A00.05 | 20S2B00.05 | 20S2C00.05 | | 20S2D00.05 | 20S2E00.05 | 20S2F00.05 | | 20S2G00.05 | 20S2H00.05 | 20S2I00.05 |
| | Weight of front incl. handle (kg) | | | | Weight of front incl. handle (kg) | | | | Weight of front incl. handle (kg) | | |
| 350 | 2.00–5.00 | 4.50–9.50 | 9.25–10.50 | 526 | 3.00–6.75 | 6.25–13.00 | 12.00–16.50 | 676 | 3.50–8.00 | 7.00–13.50 | 13.00–21.50 |
| 355 | 2.00–4.75 | 4.50–9.50 | 9.25–10.50 | 530 | 3.00–6.75 | 6.25–12.75 | 11.75–16.75 | 680 | 3.50–8.00 | 7.00–13.50 | 13.00–21.50 |
| 360 | 2.00–4.75 | 4.50–9.50 | 9.25–10.75 | 535 | 3.00–6.75 | 6.25–12.75 | 11.75–16.75 | 685 | 3.50–8.00 | 7.00–13.25 | 12.75–21.50 |
| 365 | 2.00–4.75 | 4.50–9.25 | 9.00–11.00 | 540 | 3.00–6.50 | 6.00–12.75 | 11.75–17.00 | 690 | 3.50–7.75 | 6.75–13.25 | 12.75–21.50 |
| 370 | 2.00–4.75 | 4.50–9.25 | 9.00–11.00 | 545 | 3.00–6.50 | 6.00–12.50 | 11.50–17.25 | 695 | 3.50–7.75 | 6.75–13.25 | 12.50–21.50 |
| 375 | 2.00–4.75 | 4.50–9.25 | 9.00–11.25 | 550 | 3.00–6.50 | 6.00–12.50 | 11.50–17.25 | 700 | 3.50–7.75 | 6.75–13.25 | 12.50–21.50 |
| 380 | 2.00–4.75 | 4.50–9.25 | 9.00–11.25 | 555 | 3.00–6.50 | 6.00–12.50 | 11.50–17.50 | 705 | 3.50–7.75 | 6.75–13.25 | 12.25–21.50 |
| 385 | 2.00–4.75 | 4.50–9.25 | 9.00–11.50 | 560 | 3.00–6.50 | 6.00–12.25 | 11.25–17.50 | 710 | 3.50–7.75 | 6.75–13.25 | 12.25–21.25 |
| 390 | 2.00–4.75 | 4.50–9.00 | 8.75–11.50 | 565 | 3.00–6.25 | 5.75–12.25 | 11.25–17.75 | 715 | 3.50–7.50 | 6.75–13.00 | 12.00–21.25 |
| 395 | 2.00–4.75 | 4.50–9.00 | 8.75–11.75 | 570 | 3.00–6.25 | 5.75–12.25 | 11.25–17.75 | 720 | 3.50–7.50 | 6.75–13.00 | 12.00–21.25 |
| 400 | 2.00–4.75 | 4.25–9.00 | 8.75–12.00 | 575 | 3.00–6.25 | 5.75–12.00 | 11.00–18.00 | 725 | 3.50–7.50 | 6.75–13.00 | 12.00–21.00 |
| 405 | 2.25–4.50 | 4.25–9.00 | 8.75–12.00 | 580 | 3.00–6.25 | 5.75–12.00 | 11.00–18.00 | 730 | 3.50–7.50 | 6.75–13.00 | 11.75–21.00 |
| 410 | 2.25–4.50 | 4.25–9.00 | 8.75–12.25 | 585 | 3.00–6.25 | 5.75–12.00 | 10.75–18.25 | 735 | 3.50–7.50 | 6.50–13.00 | 11.75–20.75 |
| 415 | 2.25–4.50 | 4.25–8.75 | 8.50–12.50 | 590 | 3.00–6.00 | 5.50–12.00 | 10.75–18.25 | 740 | 3.50–7.25 | 6.50–12.75 | 11.75–20.75 |
| 420 | 2.25–4.50 | 4.25–8.75 | 8.50–12.50 | 595 | 3.00–6.00 | 5.50–11.75 | 10.50–18.50 | 745 | 3.50–7.25 | 6.50–12.75 | 11.50–20.50 |
| 425 | 2.25–4.50 | 4.25–8.75 | 8.50–12.75 | 600 | 3.00–6.00 | 5.50–11.75 | 10.50–18.50 | 750 | 3.50–7.25 | 6.50–12.75 | 11.50–20.50 |
| 430 | 2.25–4.50 | 4.25–8.75 | 8.50–12.75 | 605 | 3.00–6.00 | 5.50–11.75 | 10.50–18.50 | 755 | 3.75–7.25 | 6.50–12.75 | 11.25–20.50 |
| 435 | 2.25–4.50 | 4.25–8.75 | 8.50–13.00 | 610 | 3.00–6.00 | 5.50–11.75 | 10.50–18.50 | 760 | 3.75–7.25 | 6.50–12.75 | 11.25–20.25 |
| 440 | 2.25–4.50 | 4.25–8.50 | 8.25–13.00 | 615 | 3.00–5.75 | 5.50–11.50 | 10.25–18.75 | 765 | 3.75–7.25 | 6.50–12.50 | 11.00–20.25 |
| 445 | 2.25–4.50 | 4.25–8.50 | 8.25–13.25 | 620 | 3.00–5.75 | 5.50–11.50 | 10.25–18.75 | 770 | 3.75–7.00 | 6.25–12.50 | 11.00–20.25 |
| 450 | 2.25–4.25 | 4.00–8.50 | 8.25–13.50 | 625 | 3.00–5.75 | 5.50–11.50 | 10.25–18.75 | 775 | 3.75–7.00 | 6.25–12.50 | 11.00–20.25 |
| 455 | 2.25–4.25 | 4.00–8.50 | 8.25–13.50 | 630 | 3.00–5.75 | 5.50–11.50 | 10.25–18.75 | 780 | 4.00–7.00 | 6.25–12.50 | 10.75–20.25 |
| 460 | 2.25–4.25 | 4.00–8.25 | 8.00–13.75 | 635 | 3.00–5.50 | 5.25–11.50 | 10.25–18.75 | 785 | 4.00–7.00 | 6.25–12.50 | 10.75–20.00 |
| 465 | 2.25–4.25 | 4.00–8.25 | 8.00–13.75 | 640 | 3.00–5.50 | 5.25–11.25 | 10.00–18.75 | 790 | 4.00–7.00 | 6.00–12.25 | 10.75–20.00 |
| 470 | 2.50–4.25 | 4.00–8.25 | 8.00–14.00 | 645 | 3.00–5.50 | 5.25–11.25 | 10.00–18.75 | 795 | 4.00–7.00 | 6.00–12.25 | 10.50–20.00 |
| 475 | 2.50–4.25 | 3.75–8.00 | 7.75–14.00 | 650 | 3.00–5.50 | 5.25–11.25 | 10.00–19.00 | 800 | 4.00–7.00 | 6.00–12.25 | 10.50–20.00 |
| 480 | 2.50–4.25 | 3.75–8.00 | 7.75–14.25 | 655 | 3.00–5.50 | 5.25–11.25 | 10.00–19.00 | | | | |
| 485 | 2.50–4.25 | 3.75–8.00 | 7.75–14.25 | 660 | 3.00–5.50 | 5.25–11.25 | 10.00–19.00 | | | | |
| 490 | 2.50–4.25 | 3.75–8.00 | 7.75–14.50 | 665 | 3.00–5.25 | 5.00–11.00 | 09.75–19.00 | | | | |
| 495 | 2.50–4.25 | 3.75–7.75 | 7.50–14.50 | 670 | 3.00–5.25 | 5.00–11.00 | 09.75–19.00 | | | | |
| 500 | 2.50–4.25 | 3.50–7.75 | 7.50–14.75 | 675 | 3.00–5.25 | 5.00–11.00 | 09.75–19.00 | | | | |
| 505 | 2.50–4.00 | 3.50–7.75 | 7.50–14.75 | | | | | | | | |
| 510 | 2.50–4.00 | 3.50–7.75 | 7.50–14.75 | | | | | | | | |
| 515 | 2.50–4.00 | 3.50–7.50 | 7.25–14.75 | | | | | | | | |
| 520 | 2.50–4.00 | 3.50–7.50 | 7.25–15.00 | | | | | | | | |
| 525 | 2.50–4.00 | 3.25–7.50 | 7.25–15.00 | | | | | | | | |

| Consisting of: | | |
|----------------|------|------------------------------|
| 1 | 2 x | Symmetrical lift mechanism |
| - | 10 x | Chipboard screws Ø 4 x 35 mm |

Order specification

| | | | | | |
|-----------------------|--------------------------|----------------------------|-----------------|--|------------|
| 2 | <input type="checkbox"/> | Lever arm set | | | |
| | | Colour | Material | | |
| | | Nickel plated | Steel | | 20S3500.06 |
| Consisting of: | | | | | |
| 2a | 1 x | Lever arm left | | | |
| 2b | 1 x | Lever arm right | | | |
| 2c | 2 x | Cross stabiliser cover cap | | | |

| | | | | | |
|-----------------------|-------------------------------------|--------------------------------------|-----------------|--|------------|
| 2 | <input checked="" type="checkbox"/> | Lever arm set for SERVO-DRIVE | | | |
| | | Colour | Material | | |
| | | Nickel plated | Steel | | 21S3500.01 |
| Consisting 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 | <input type="checkbox"/> | Cover cap set | | | |
| | | Colour | Material | | |
| | | HGR, SW, TGR | Nylon | | 20S8000 |
| Consisting of: | | | | | |
| - | 1 x | Large cover cap left | | | |
| 3b | 1 x | Large cover cap 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 | | 21S8000 |
| Consisting of: | | | | | |
| 3a | 1 x | SERVO-DRIVE large cover cap left | | | |
| 3b | 1 x | Large cover cap 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"/> | Front fixing bracket set | | | |
| | | 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.
Use 4 counter sunk self tapping screws (660.0950) per side for wide alu frames.

| | | | | | |
|--|--------------------------|-----------------------------|--|--|---------|
| - | <input type="checkbox"/> | Front fixing bracket | | | |
| | | Version | | | |
| | | Thin fronts | | | 20S42T1 |
| EXPANDO T suitable for thin fronts – see page 72 | | | | | |

| | | | | | |
|---------------------|--------------------------|---|--------------------|--|-----------|
| 5 | <input type="checkbox"/> | Cross stabiliser rod round | | | |
| | | Diameter (mm) | Length (mm) | | |
| | | Ø 16 | 1061 | | 20Q1061UN |
| 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"/> | Connecting piece set for cross stabiliser | | | |
| | | Internal cabinet width LW 1190 mm and higher | | | |
| | | Diameter (mm) | Material | | |
| | | Ø 16 | Aluminium | | 20Q153ZN |
| Consisting 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 | | | |

| | | | | | |
|---|-------------------------------------|-----------------------------|-----------------|--|---------|
| 6 | <input checked="" type="checkbox"/> | SERVO-DRIVE set | | | |
| | | Colour | Material | | |
| | | R7037 | Nylon | | 21FA000 |
| Consisting 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 | <input checked="" type="checkbox"/> | Blum transformer and accessories | | | |
| | | See page 74 | | | |

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

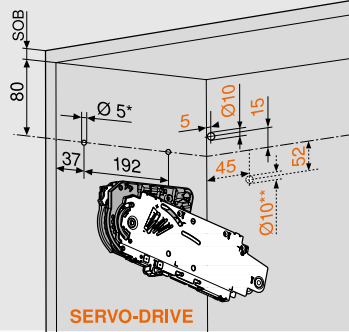
AVENTOS HS



Standard and SERVO-DRIVE for AVENTOS HS

Planning

Drilling position



5 x chipboard screws $\varnothing 4 \times 35$ mm

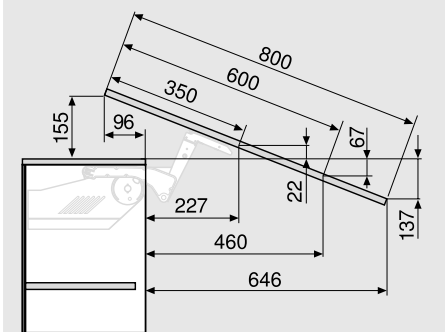
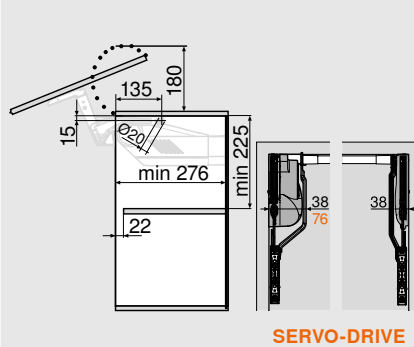
Drilling for SERVO-DRIVE distribution cable, left only

* Drilling depth 5 mm

** Alternative drilling

SOB Top panel thickness

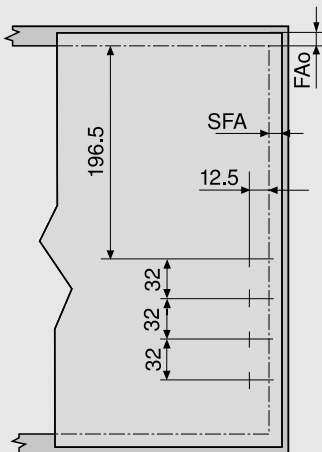
Space requirement



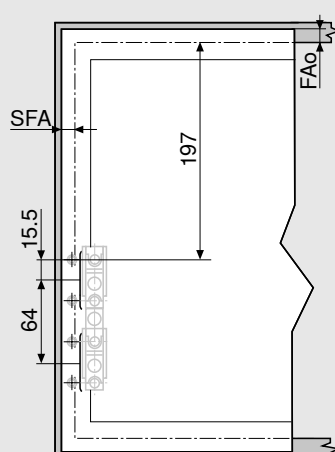
Dimensions depend on tilt adjustment

Front assembly

Wooden fronts and wide alu frames



Narrow alu frames

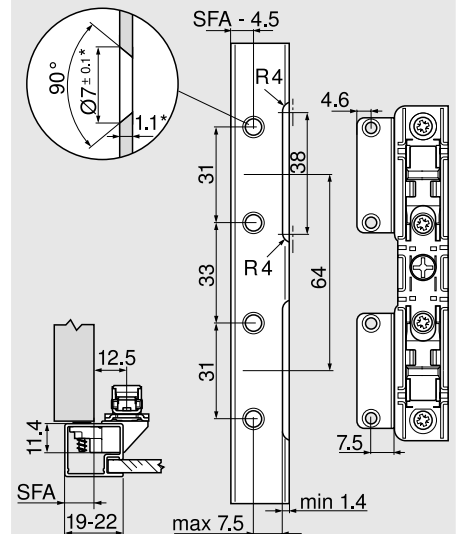


Front against the wall: requires 5 mm minimum gap

FAo Upper front overlay

SFA Front overlay of the side panel

Narrow alu frames



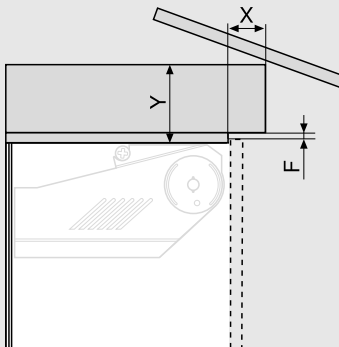
For frame width 19 mm, an SFA of 11–18 mm is possible.

* When changing material thickness, adjust the assembly dimensions accordingly

SFA Front overlay of the side panel

Planning

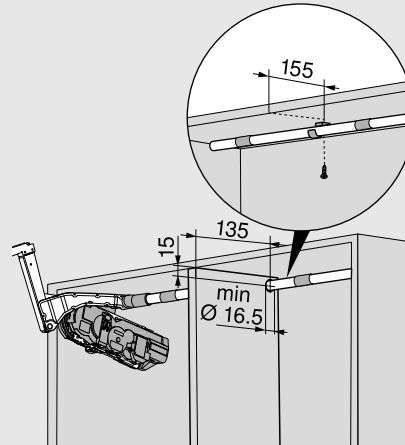
Space requirement – Cornice | Crown moulding



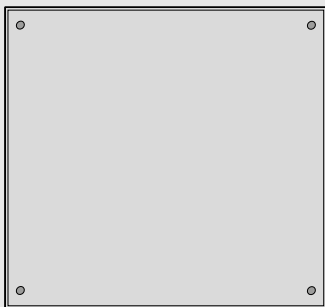
| | | | |
|--------------------|-----|-----|-----|
| F (mm) | 3.0 | 2.0 | 1.5 |
| X max. (mm) | 35 | 31 | 28 |
| Y max. (mm) | 101 | 101 | 101 |

F Gap

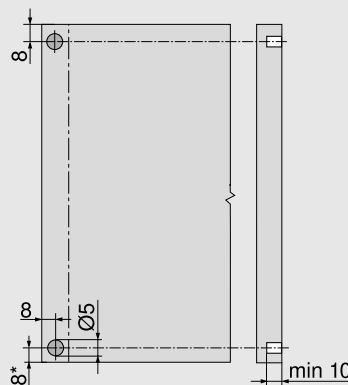
Connecting piece



Blum distance bumper (SERVO-DRIVE application only)



Insert Blum distance bumper (do not glue)



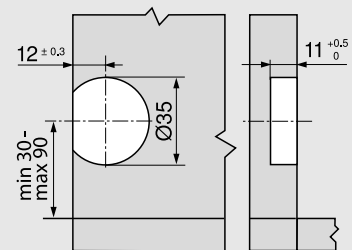
Recommendation for aluminium frames

Take into account the drilling for the Blum distance bumper in the cabinet side

A trial application must be carried out when fixing in the front

* From cabinet bottom edge for fronts that protrude below

SERVO-DRIVE switch



Assembly and adjustment



Information on assembly and adjustment

> www.blum.com/aventos-hs-assembly

AVENTOS HL

Design and function complement each other impressively here: because the AVENTOS HL lift up is raised completely, always providing easy access to items. As a result, even special installation situations are possible, e.g. the integration of electrical appliances into the tall cabinet.

 **blum**

BLUMOTION

by Blum

SERVO-DRIVE

by Blum

Further information on
AVENTOS HL



> [www.blum.com/
aventoshl](http://www.blum.com/aventoshl)



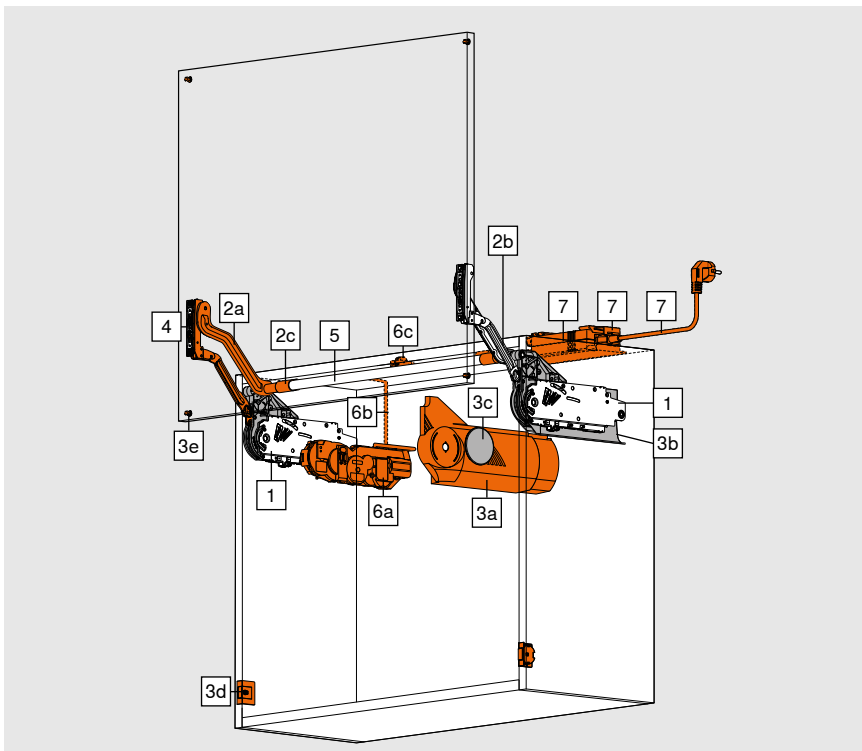
Using the SERVO-DRIVE electrical motion support system, even large fronts can be opened and closed easily.



Simply beautiful: with AVENTOS HL, electrical appliances disappear behind a continuous cabinet front.



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



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

In order to select the correct lift mechanism, it is necessary to establish both the cabinet height and the weight of the front (including the handle).

We recommend the more powerful lift mechanism for overlapping areas.

- Standard
- SERVO-DRIVE

Order specification

| 1 | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Lift mechanism set | | |
|-----------------------------------|------|-------------------------------------|-------------------------------------|--------------------|------------|------------|
| | | 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 |
| Consisting of: | | | | | | |
| 1 | 2 x | Symmetrical lift mechanism | | | | |
| - | 10 x | Chipboard screws Ø 4 x 35 mm | | | | |


| 2 | | <input type="checkbox"/> | Lever arm set |
|----------------|-----|---------------------------------|---------------|
| | | Cabinet height KH (mm) | |
| | | 300-349 | 20L3200.06 |
| | | 350-399 | 20L3500.06 |
| | | 400-550 | 20L3800.06 |
| | | 450-580 | 20L3900.06 |
| Consisting of: | | | |
| - | 1 x | Lever arm left | |
| 2b | 1 x | Lever arm right | |
| 2c | 2 x | Cross stabiliser cover cap oval | |


| 2 | | <input checked="" type="checkbox"/> | Lever arm set for SERVO-DRIVE |
|----------------|-----|-------------------------------------|-------------------------------|
| | | Cabinet height KH (mm) | |
| | | 300-349 | 21L3200.01 |
| | | 350-399 | 21L3500.01 |
| | | 400-550 | 21L3800.01 |
| | | 450-580 | 21L3900.01 |
| Consisting of: | | | |
| 2a | 1 x | SERVO-DRIVE lever arm left | |
| 2b | 1 x | Lever arm right | |
| 2c | 2 x | Cross stabiliser cover cap oval | |

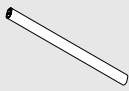
Order specification

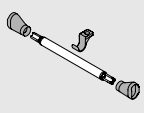
| | | | | |
|---|--------------------------|---|--|-------------------|
| 3 | <input type="checkbox"/> | Cover cap set | | |
|  | Colour | Material | | |
| | HGR, SW, TGR | Nylon | | 20L8000.01 |
| Consisting of: | | | | |
| - | 1 x | Large cover cap left | | |
| 3b | 1 x | Large cover cap right | | |
| 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 | | 21L8000 |
| Consisting of: | | | | |
| 3a | 1 x | SERVO-DRIVE large cover cap left | | |
| 3b | 1 x | Large cover cap 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 | |
|  | 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. Use 4 counter sunk self tapping screws (660.0950) per side for wide alu frames. | | | | |

| | | | | |
|---|--------------------------|-------------------------------------|-----------------------------|----------------|
| - | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Front fixing bracket | |
|  | Version | | | |
| | Thin fronts | | | 20S42T1 |
| EXPANDO T suitable for thin fronts – see page 72 | | | | |

| | | | | |
|---|---|-------------------------------------|----------------------------------|------------------|
| 5 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Cross stabiliser rod oval | |
|  | Version | Length (mm) | | |
| | Oval | 1061 | | 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 | |
|  | Internal cabinet width LW 1190 mm and higher | | | |
| | Diameter (mm) | Material | | |
| | Ø 16 | Aluminium | | 20Q153ZA |
| Consisting 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 | | | |

| | | | | |
|--|-------------------------------------|-----------------------------|--|----------------|
| 6 | <input checked="" type="checkbox"/> | SERVO-DRIVE set | | |
|  | Colour | Material | | |
| | R7037 | Nylon | | 21FA000 |
| Consisting of: | | | | |
| 6a | 1 x | Drive unit | | |
| 6b | 1 x | Distribution cable, 1500 mm | | |
| 6c | 1 x | Connecting node | | |
| - | 2 x | Cable end protector | | |
| We recommend one SERVO-DRIVE drive unit per set for connected fronts. | | | | |

| | | | | |
|----------|-------------------------------------|---|--|-------------|
| 7 | <input checked="" type="checkbox"/> | Blum transformer and accessories | | |
| | | | | See page 74 |

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

AVENTOS HL



Standard and SERVO-DRIVE for AVENTOS HL

Planning

Drilling position

5 x chipboard screws Ø 4 x 35 mm

Drilling for SERVO-DRIVE distribution cable, left only

* Drilling depth 5 mm

** Alternative drilling

SOB Top panel thickness

Space requirement

| Lever arm set | | LH min. (mm) ¹ | Y (mm) ¹ | a (mm) | b (mm) ¹ | c max. (mm) |
|---------------|-------------|---------------------------|---------------------|--------|---------------------|-------------|
| Standard | SERVO-DRIVE | | | | | |
| 20L3200.06 | 21L3200.01 | 262.0 | 264.0 | 114.0 | 257.0 | 159.0 |
| 20L3500.06 | 21L3500.01 | 312.0 | 352.0 | 146.0 | 345.0 | 209.0 |
| 20L3800.06 | 21L3800.01 | 362.0 | 440.0 | 178.0 | 433.0 | 259.0 |
| 20L3900.06 | 21L3900.01 | 412.0 | 529.0 | 210.0 | 522.0 | 309.5 |

¹ Dimensions in relation to lower gap = 0 mm

KH Cabinet height

LH Internal 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 |

Front against the wall: requires 5 mm minimum gap

FAo Upper front overlay

SFA Front overlay of the side panel

Narrow alu frames

Narrow alu frames

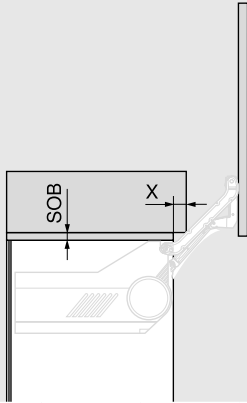
For frame width 19 mm, an SFA of 11–18 mm is possible.

* When changing material thickness, adjust the assembly dimensions accordingly

SFA Front overlay of the side panel

Planning

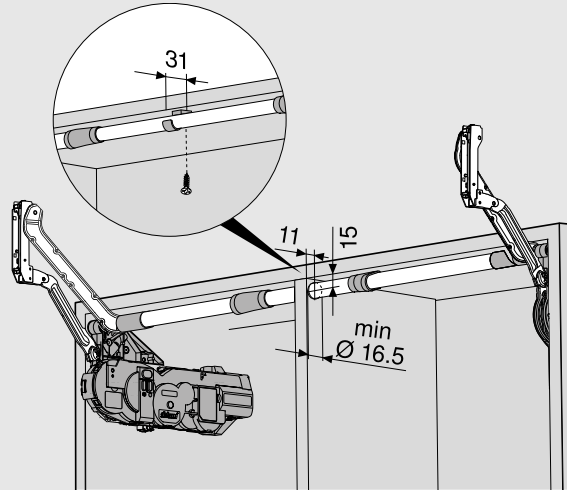
Space requirement – Cornice | Crown moulding



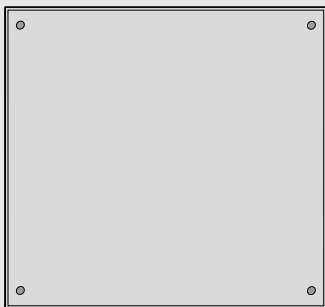
| | | | |
|----------|----|----|----|
| SOB (mm) | 16 | 18 | 19 |
| X (mm) | 28 | 30 | 31 |

SOB Top panel thickness

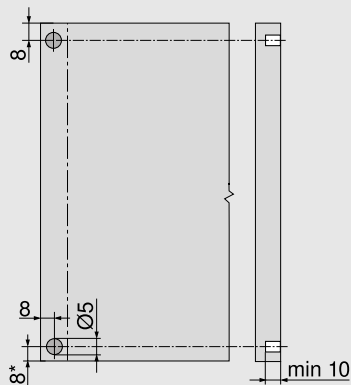
Connecting piece



Blum distance bumper (SERVO-DRIVE application only)



Insert Blum distance bumper (do not glue)



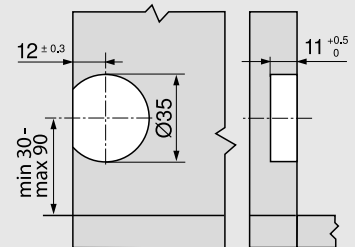
Recommendation for aluminium frames

Take into account the drilling for the Blum distance bumper in the cabinet side

A trial application must be carried out when fixing in the front

* From cabinet bottom edge for fronts that protrude below

SERVO-DRIVE switch



Assembly and adjustment



Information on assembly and adjustment

> www.blum.com/aventos-hl-assembly

AVENTOS HK top

The convenient stay lift fitting requires only a small amount of space at the top. Thus AVENTOS HK top has a sleek design and lots of integrated functions. This makes the assembly and installation of the little all-rounder quick, safe and error-free. Handle-less fronts can be opened using SERVO-DRIVE or TIP-ON technology.

blum

BLUMOTION

by Blum

SERVO-DRIVE

by Blum

TIP-ON

by Blum



Thanks to the minimalist design, AVENTOS HK top can be used in all living areas



Lift mechanism with positioning system or pre-mounted system screws? Choose between two types of assembly. The drillings are the same regardless of application and cabinet height.

Further information on AVENTOS HK top



www.blum.com/aventoshktop



Colour signals assist you with the SERVO-DRIVE start-up.



The opening angle stop is integrated. The distance the front should open is infinitely variable and can therefore be set exactly as required.

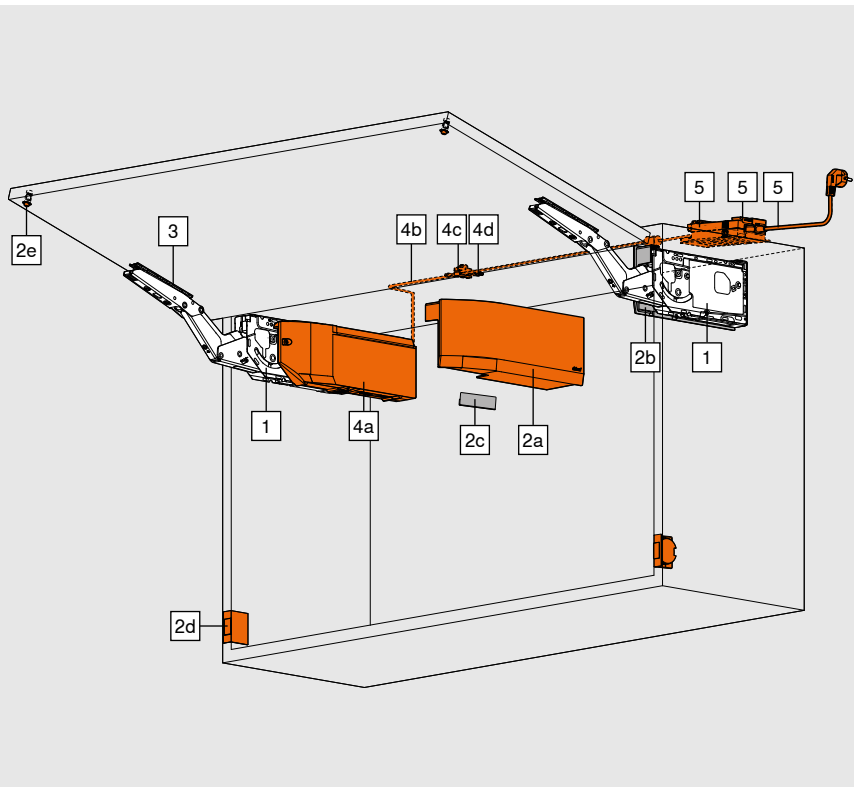


At the heart of this fitting solution is the lift mechanism with BLUMOTION and a robust spring package.

AVENTOS HK top



Standard and SERVO-DRIVE for AVENTOS HK top



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

Using the power factor, you can calculate the number of required lift mechanisms. The power factor required depends on the weight of the front (incl. double the handle weight) and cabinet height.

The power factor and the front weight can be increased by 50% when a third lift mechanism is used.

We recommend the more powerful lift mechanism for overlapping areas.



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

- Standard
- SERVO-DRIVE

Order specification

| 1 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Lift mechanism set |
|---------------------------------------|--------------------------|-------------------------------------|--------------------|
| Fixing with pre-mounted system screws | | | |
| | LF | OW | |
| | 420–1610 | 107° | 22K2310 |
| | 930–2800 | 107° | 22K2510 |
| | 1730–5200 | 107° | 22K2710 |
| | 3200–9000 | 107° | 22K2910 |

| 1 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Lift mechanism set |
|--|--------------------------|-------------------------------------|--------------------|
| Fixing with chipboard screws with positioning system | | | |
| | LF | OW | |
| | 420–1610 | 107° | 22K2300 |
| | 930–2800 | 107° | 22K2500 |
| | 1730–5200 | 107° | 22K2700 |
| | 3200–9000 | 107° | 22K2900 |

Consisting of:

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

Consisting of:

| | | |
|---|-----|------------------------------|
| 1 | 2 x | Symmetrical lift mechanism |
| - | - | Incl. positioning system |
| - | 8 x | Chipboard screws Ø 4 x 35 mm |

LF Power factor
OW Opening angle (infinitely variable adjustment)

Note

Max. front weight 18 kg for two lift mechanisms.

The power factor (LF) can be increased by 50% when using a third lift mechanism. We recommend a third lift mechanism for wide cabinets. The reason for this is to prevent the middle of the front from sagging when open.

Order specification

| 2 | | Cover cap set | | |
|----------------|-----|--|----------|---------|
| | | Colour | Material | |
| | | HGR, SW, TGR | Nylon | 22K8000 |
| Consisting of: | | | | |
| - | 1 x | Cover cap, left | | |
| 2b | 1 x | Cover cap right | | |
| 2c | 2 x | Branding element, stamped with Blum logo | | |
| | | IN-G | | |

| 2 | | Cover cap set for SERVO-DRIVE | | |
|----------------|-----|--|----------|---------|
| | | Colour | Material | |
| | | HGR, SW, TGR | Nylon | 23K8000 |
| Consisting of: | | | | |
| 2a | 1 x | SERVO-DRIVE cover cap left | | |
| 2b | 1 x | Cover cap right | | |
| 2c | 2 x | Branding element, stamped with Blum logo | | |
| | | IN-G | | |
| 2d | 2 x | SERVO-DRIVE switch | | |
| 2e | 2 x | Blum distance bumper Ø 5 mm | | |

| 3 | | Front fixing bracket set | | |
|---|--|-----------------------------------|---|----------|
| | | 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.
Use 4 counter sunk self tapping screws (660.0950) per side for wide alu frames.

| - | | Front fixing bracket | |
|--|--|----------------------|---------|
| | | Version | |
| | | Thin fronts | 20S42T1 |
| EXPANDO T suitable for thin fronts – see page 72 | | | |

| 4 | | SERVO-DRIVE set | | |
|---|-----|-----------------------------|----------|---------|
| | | Colour | Material | |
| | | R7037 | Nylon | 23KA000 |
| Consisting of: | | | | |
| 4a | 1 x | Drive unit | | |
| 4b | 1 x | Distribution cable, 1500 mm | | |
| 4c | 1 x | Connecting node | | |
| 4d | 2 x | Cable end protector | | |
| We recommend using two synchronised drive units for three lift mechanisms or more | | | | |

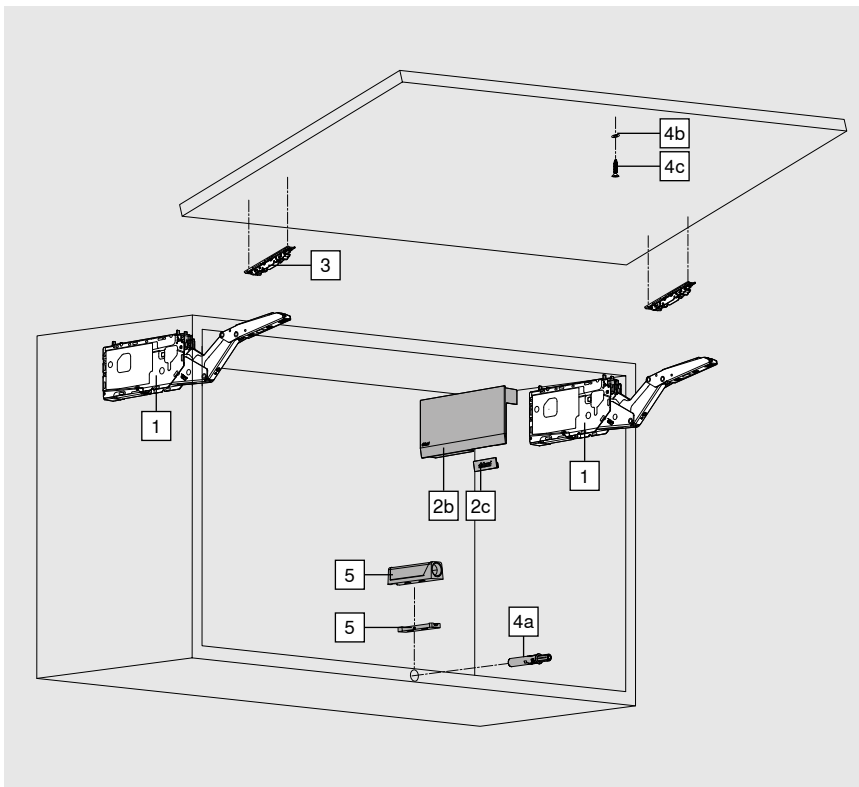
| 5 | | Blum transformer and accessories | |
|---|--|----------------------------------|--|
| | | See page 74 | |

| Colour | |
|--------|--------------------------------|
| HGR | Light grey |
| SW | Silk white |
| TGR | Dark grey |
| R7037 | RAL 7037 dust grey |
| IN-G | Inmold brushed stainless steel |

AVENTOS HK top



TIP-ON for AVENTOS HK top



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

Using the power factor, you can calculate the number of required lift mechanisms. The power factor required depends on the weight of the front (incl. double the handle weight) and cabinet height.

The power factor and the front weight can be increased by 50% when a third lift mechanism is used.

We recommend the more powerful lift mechanism for overlapping areas.

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

■ TIP-ON

Order specification

| 1 | ■ | Lift mechanism set for TIP-ON |
|---------------------------------------|------|-------------------------------|
| Fixing with pre-mounted system screws | | |
| LF | OW | |
| 420–1610 | 107° | 22K2310T |
| 930–2800 | 107° | 22K2510T |
| 1730–5200 | 100° | 22K2710T |
| 3200–9000 | 100° | 22K2910T |

| Consisting of: | | |
|----------------|-----|---|
| 1 | 2 x | Symmetrical lift mechanism with pre-mounted system screws |

LF Power factor
OW Opening angle (infinitely variable adjustment)

Note
Max. front weight 18 kg for two lift mechanisms.

The power factor (LF) can be increased by 50% when using a third lift mechanism. We recommend a third lift mechanism for wide cabinets. 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 | | |
| LF | OW | |
| 420–1610 | 107° | 22K2300T |
| 930–2800 | 107° | 22K2500T |
| 1730–5200 | 100° | 22K2700T |
| 3200–9000 | 100° | 22K2900T |

| Consisting of: | | |
|----------------|-----|------------------------------|
| 1 | 2 x | Symmetrical lift mechanism |
| - | - | Incl. positioning system |
| - | 8 x | Chipboard screws Ø 4 x 35 mm |



TIP-ON for AVENTOS HK top

AVENTOS HK top







Order specification

| 2  Cover cap set | | | |
|---|-----|--|-----------------|
|  | | Colour | Material |
| | | HGR, SW, TGR | Nylon |
| | | | 22K8000 |
| Consisting of: | | | |
| - | 1 x | Cover cap, left | |
| 2b | 1 x | Cover cap right | |
| 2c | 2 x | Branding element, stamped with Blum logo | |
| | | IN-G | |

| 3  Front fixing bracket set | | | |
|--|--|--|-----------------|
|  | | 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.
Use 4 counter sunk self tapping screws (660.0950) per side for wide alu frames.

| -  Front fixing bracket | | | |
|--|--|----------------|----------------|
|  | | Version | |
| | | Thin fronts | 20S42T1 |
| EXPANDO T suitable for thin fronts – see page 72 | | | |

| 4  TIP-ON set | | | |
|--|-----|--------------------------|-------------------------------|
|  | | Version | Cabinet height KH (mm) |
| | | Short version | Up to 500 |
| | | Long version | Starting at 501 |
| | | Colour | |
| | | SW, TS, R7036 | |
| Consisting of: | | | |
| 4a | 1 x | TIP-ON | |
| 4b | 1 x | Screw-on catch plate | |
| 4c | 1 x | Chipboard screw 609.1500 | |
| - | 1 x | Glue-on catch plate | |

Accessories

| 5  Adapter plate | | | |
|---|--|--|------------------------|
|  | | Version | Colour |
| | | Straight adapter plate Short version | SW, TS, R7036, NI-L |
| | | Straight adapter plate Long version | SW, TS, R7036, NI-L |
| | | Cruciform adapter plates Long version | R7036 |
| | | | 956.1201 |
| | | | 956A1201 |
| | | | 956A1501 |

Colour

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

AVENTOS HK top

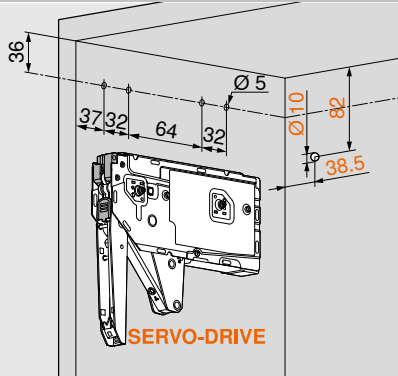


Standard, TIP-ON and SERVO-DRIVE for AVENTOS HK top

Planning

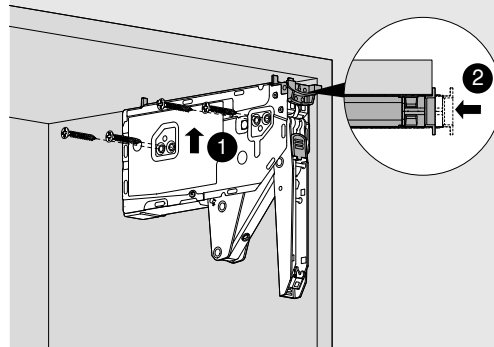
Drilling position

System screws



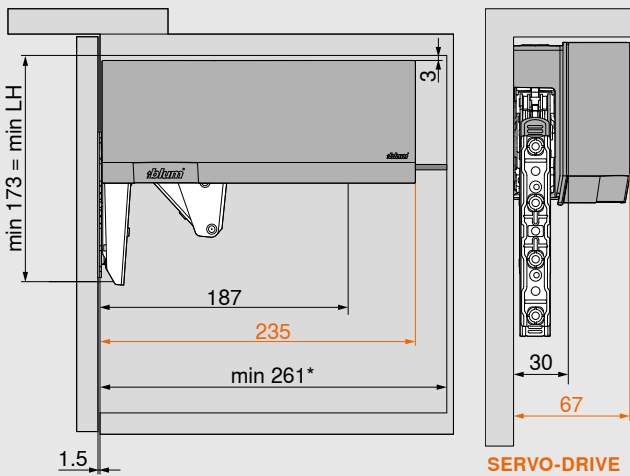
* Drilling depth 11.5 mm

Chipboard screws



4 x chipboard screws Ø 4 x 35 mm

Space requirement



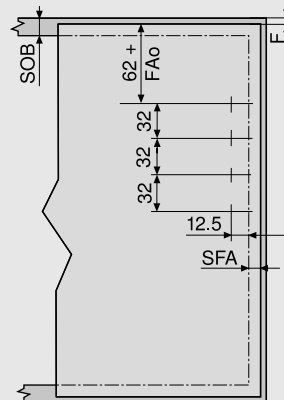
* Min. 261 mm with visible wall hanging bracket

Note: Cabinet height max. 600 mm

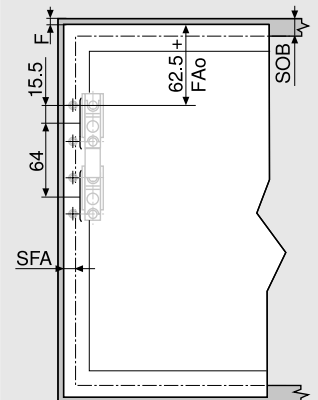
LH Internal cabinet height

Front assembly

Wooden fronts and wide alu frames



Narrow alu frames



FAo Max. 25.4 mm

FAo Upper front overlay

SOB Top panel thickness

SFA Front overlay of the side panel

F Gap

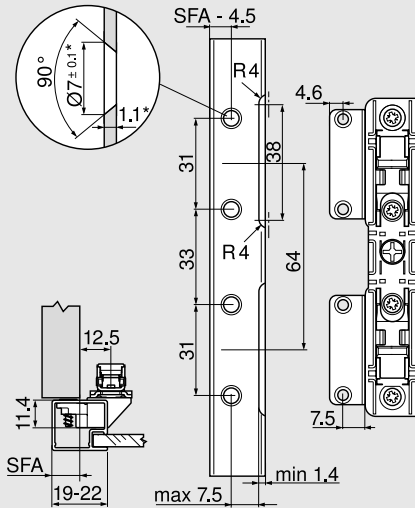
Standard, TIP-ON and SERVO-DRIVE for AVENTOS HK top

AVENTOS HK top



Planning

Narrow alu frames

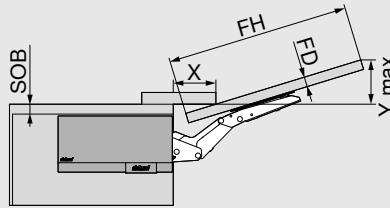


For frame width 19 mm, an SFA of 11–18 mm is possible.

* When changing material thickness,
adjust the assembly dimensions accordingly

SFA Front overlay of the side panel

Space requirement – Cornice | Crown moulding



Space requirement (mm)

At max. opening angle

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

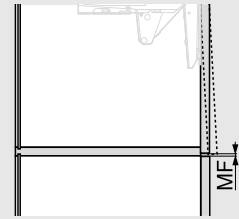
| | | | | | |
|----------------|----|----|----|----|----|
| FD (mm) | 16 | 19 | 22 | 26 | 28 |
| X (mm) | 68 | 57 | 47 | 33 | 27 |

SOB Top panel thickness

FD Front thickness

FH Front height

Minimum gap

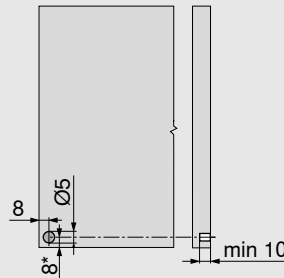


Minimum gap MF is 2 mm

Blum distance bumper (SERVO-DRIVE application only)



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



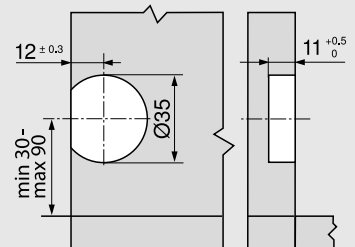
Recommendation for aluminium frames

Take into account the drilling for the Blum distance bumper in the cabinet side

A trial application must be carried out when fixing in the front

* From cabinet bottom edge for fronts that protrude below

SERVO-DRIVE switch



Assembly and adjustment



Information on assembly
and adjustment

> www.blum.com/hktopassembly

AVENTOS HK-S

AVENTOS HK-S is the perfect choice for small lift systems in tall cabinets, e.g. above refrigerators. Thanks to its neat and tidy dimensions, the fitting can be perfectly integrated into small pieces of furniture, making the best possible use of the storage space.

 **blum**

BLUMOTION

by Blum

TIP-ON

by Blum

Further information on
AVENTOS HK-S



> [www.blum.com/
aventoshks](http://www.blum.com/aventoshks)



Adjust the lift mechanism precisely to the front weight and the small stay lift will stay exactly where you want it to.



Handle-less fronts open with a gentle touch using TIP-ON for AVENTOS HK-S. To close the lift system, simply press it shut.

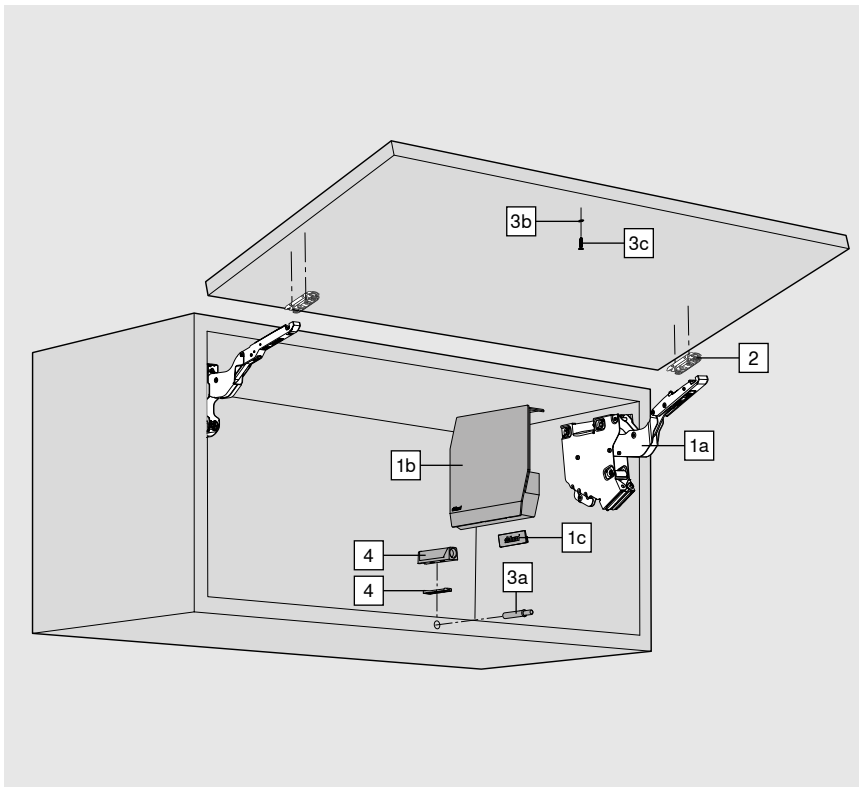


At the heart of this fitting solution is the lift mechanism with BLUMOTION and a robust spring package.

AVENTOS HK-S



Standard and TIP-ON for AVENTOS HK-S



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

Using the power factor, you can calculate the number of required lift mechanisms. The power factor required depends on the weight of the front and the cabinet height. The power factor and the front weight can be increased by 50% when a third lift mechanism is used.

The maximum cabinet height for AVENTOS HK-S is 600 mm. Taller cabinets are only permitted in conjunction with the 175H3100 steel front fixing bracket.

We recommend the more powerful lift mechanism for overlapping areas.



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

- Standard
- TIP-ON

Order specification

| 1 | <input type="checkbox"/> | Lift mechanism set | | |
|-----------------------|--------------------------|--|------|-------------------------|
| | | LF | OW | |
| | | 220–500 | 107° | ¹ 20K2B00.06 |
| | | 400–1000 | 107° | 20K2C00.06 |
| | | 960–2215 | 107° | 20K2E00.06 |
| Consisting of: | | | | |
| 1a | 2 x | Symmetrical lift mechanism | | |
| 1b | 2 x | Cover caps left/right HGR, SW, TGR | | |
| 1c | 2 x | Branding element, stamped with Blum logo IN-G | | |
| - | 6 x | Chipboard screw Ø 4 x 35 mm | | |

| 1 | <input checked="" type="checkbox"/> | Lift mechanism set for TIP-ON | | |
|-----------------------|-------------------------------------|--|------|-------------------------|
| | | LF | OW | |
| | | 220–500 | 107° | ¹ 20K2B00T06 |
| | | 400–1000 | 107° | 20K2C00T06 |
| | | 960–2215 | 107° | 20K2E00T06 |
| Consisting of: | | | | |
| 1a | 2 x | Symmetrical lift mechanism | | |
| 1b | 2 x | Cover caps left/right HGR, SW, TGR | | |
| 1c | 2 x | Branding element, stamped with Blum logo IN-G | | |
| - | 6 x | Chipboard screw Ø 4 x 35 mm | | |

LF Power factor

OW Opening angle (infinitely variable adjustment)

Note

The power factor (LF) can be increased by 50% when using a third lift mechanism.

¹ One lift mechanisms is unsprung

Order specification

| 2 | | Front fixing bracket | |
|--|-----------------------|----------------------|-----------|
| | Fixing method | Spacing (mm) | |
| | Screw-on ² | 0 | 175H3100 |
| | EXPANDO | 0 | 177H3100E |
| | Knock-in | 0 | 177H3100 |
| Wooden fronts and wide alu frames | | | 2 x |
| All horizontal steel mounting plates with 0 mm spacing possible | | | |
| ² Use 2 chipboard screws (609.1x00) for wooden fronts. Use 2 countersunk self tapping screws (660.0950) for wide alu frames. | | | |

| - | | Front fixing bracket set | |
|---|-------------------|--------------------------|------------|
| | Version | | |
| | Narrow alu frames | | 20K4A00A02 |

| 3 | | TIP-ON set | |
|-----------------------|----------------|-------------------------------|----------|
| | Version | Cabinet height KH (mm) | |
| | Short version | Up to 600 | 956.1004 |
| | Colour | | |
| | SW, TS, R7036 | | |
| Consisting of: | | | |
| 3a | 1 x | TIP-ON | |
| 3b | 1 x | Screw-on catch plate | |
| 3c | 1 x | Chipboard screw 609.1500 | |
| - | 1 x | Glue-on catch plate | |

Accessories

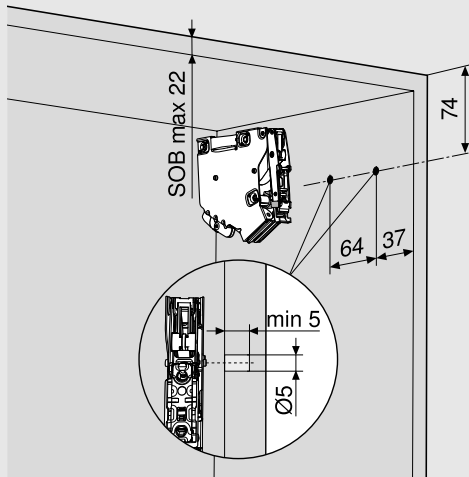
| - | | Opening angle stop | |
|---|----------------------|--------------------|---------|
| | Opening angle | Colour | |
| | 100° | TGR | 20K7A41 |
| | 75° | R7037 | 20K7A11 |

| 4 | | Adapter plate | |
|---|---------------------------------------|---------------------|----------|
| | Version | Colour | |
| | Straight adapter plate Short version | SW, TS, R7036, NI-L | 956.1201 |
| | Cruciform adapter plates Long version | R7036 | 956A1501 |

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

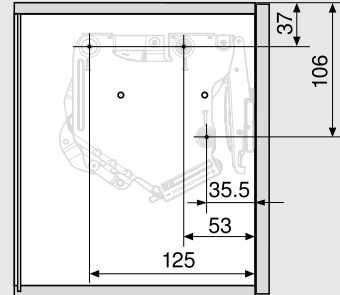
Planning

Peg position

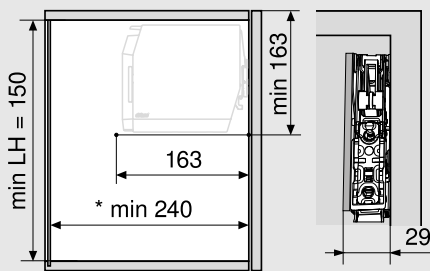


SOB Top panel thickness

Fixing position



Space requirement



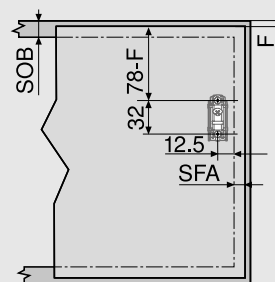
* Min. 240 mm with visible wall hanging bracket

Note: Cabinet height max. 600 mm

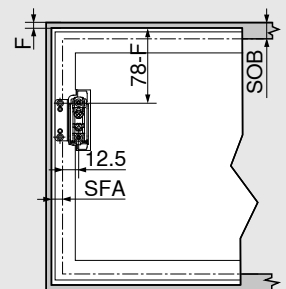
LH Internal cabinet height

Front assembly

Wooden fronts and wide alu frames



Narrow alu frames



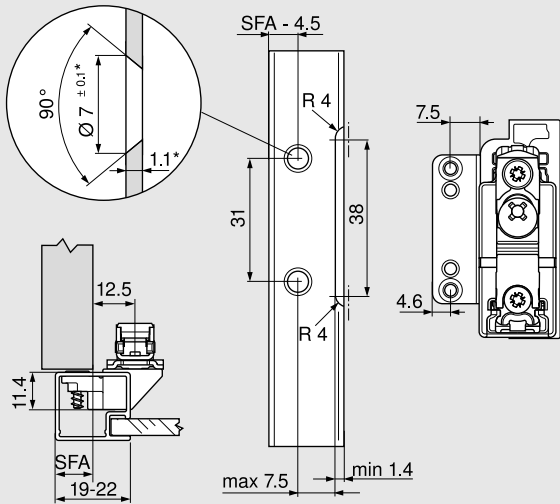
SOB Top panel thickness

SFA Front overlay of the side panel

F Gap

Planning

Narrow alu frames

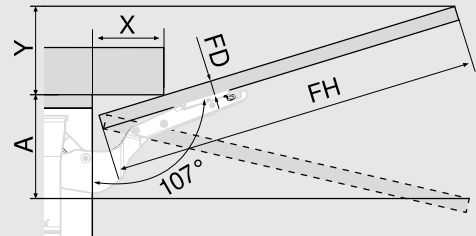


For frame width 19 mm, an SFA of 11–18 mm is possible.

* When changing material thickness, adjust the assembly dimensions accordingly

SFA Front overlay of the side panel

Space requirement – Cornice | Crown moulding



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

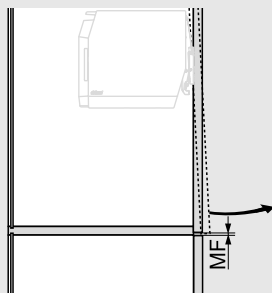
35

-

FD Front thickness

FH Front height

Minimum gap



Minimum gap MF is 2 mm

Assembly and adjustment



Information on assembly and adjustment

> www.blum.com/aventos-hks-assembly

AVENTOS HK-XS

AVENTOS HK-XS is the compact fitting for small stay lifts in tall and wall cabinets. Thanks to the narrow style, AVENTOS HK-XS offers a high level of design freedom. They close silently and effortlessly in combination with CLIP top BLUMOTION hinges.

blum®

BLUMOTION

by Blum

TIP-ON

by Blum

Further information on
AVENTOS HK-XS



> [www.blum.com/
aventoshkxs](http://www.blum.com/aventoshkxs)



Whether thick wooden fronts with wide or narrow alu frames, the fixing positions always remain the same. This allows different materials and front thicknesses to be easily integrated.



The variable stop allows the lift system to remain in any desired position and always within easy reach.

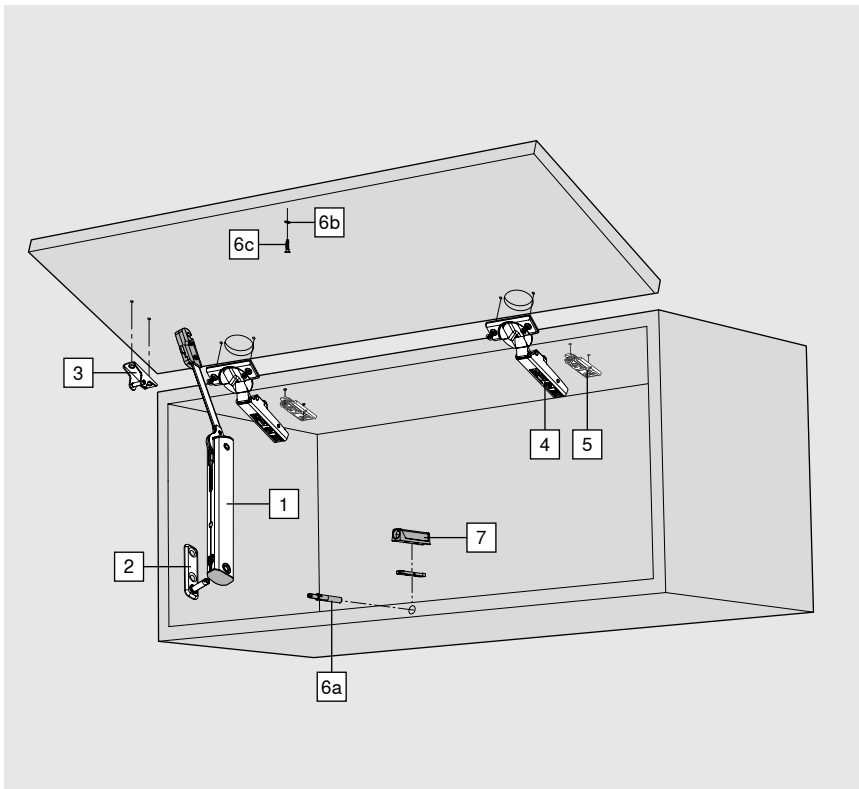


The lift mechanism with a robust spring package is the core element of the compact fitting. The AVENTOS HK-XS proves itself in this way with high stability and durability. High quality is ensured for the lifetime of the furniture.

AVENTOS HK-XS



Standard and TIP-ON for AVENTOS HK-XS



- Well-suited for low cabinet heights in the wall cabinet, the tall cabinet and over the refrigerator
- Cabinet height KH 240-600 mm
- Internal cabinet depth LT min. 125 mm
- Using a special drilling position, internal cabinet depth LT=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
- Harmonious quality of motion with a variable stop
- Simple, infinitely variable lift mechanism
- A trial application is recommended where power factor ranges of the individual lift mechanisms overlap.



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

- Standard
- TIP-ON

Order specification

| 1 | <input type="checkbox"/> | Lift mechanism | | | 1 | <input checked="" type="checkbox"/> | Lift mechanism for TIP-ON | | |
|---|--------------------------|----------------|------|---------|---|-------------------------------------|---------------------------|------|----------|
| | | LF | OW | | | | LF | OW | |
| | | 200-1000 | 105° | 20K1101 | | | 180-800 | 105° | 20K1101T |
| | | 500-1500 | 105° | 20K1301 | | | 500-1200 | 105° | 20K1301T |
| | | 800-1800 | 105° | 20K1501 | | | 800-1600 | 105° | 20K1501T |

LF Power factor

OW Opening angle (infinitely variable adjustment)

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 | |
| | | | Screw-on | 20K5101 |
| | | | EXPANDO | 20K51E1 |

| 3 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Front fixing bracket | | |
|---|--------------------------|-------------------------------------|-----------------------------------|-----------------------|----------|
| | | | Version | Fixing method | |
| | | | Wooden fronts and wide alu frames | Screw-on ² | 20K4101 |
| | | | Wooden fronts | EXPANDO | 20K41E1 |
| | | | Narrow aluminium frames | Screw-on | 20K4101A |

Order specification

| 4 | <input type="checkbox"/> | CLIP top BLUMOTION 110° hinge | | |
|--|--------------------------|-------------------------------|--|---------|
| | Boss | Spring | | |
| | INSERTA | With spring | | 71B3590 |
| | Screw-on ² | With spring | | 71B3550 |
| 3 hinges starting at cabinet width KB 900 mm and/or 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° | | | | |

Alternative

| 4 | <input checked="" type="checkbox"/> | CLIP top 110° hinge | | |
|--|-------------------------------------|---------------------|--|------------|
| | Boss | Spring | | |
| | INSERTA | Without | | 70T3590.TL |
| | Screw-on ² | Without | | 70T3550.TL |
| 3 hinges starting at cabinet width KB 900 mm and/or 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°, profile/thick door, 95°-aluminium frame door hinge and/or CLIP 100° (each hinge unsprung) | | | | |

| 5 | <input type="checkbox"/> | Mounting plate | | |
|--|--------------------------|---------------------|--|-----------|
| | Recommendation: | | | |
| | Fixing method | Spacing (mm) | | |
| | Screw-on ² | 0 | | 175H3100 |
| | EXPANDO | 0 | | 177H3100E |
| Standard mounting plates, spacing depends on the top gap | | | | |

| 6 | <input checked="" type="checkbox"/> | TIP-ON set | | |
|-----------------------|-------------------------------------|-------------------------------|--|----------|
| | Version | Cabinet height KH (mm) | | |
| | Short version | Up to 600 | | 956.1004 |
| | Colour | | | |
| SW, TS, R7036 | | | | |
| Consisting 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 | <input checked="" type="checkbox"/> | Adapter plate | | |
|---|---------------------------------------|---------------------|--|----------|
| | Version | Colour | | |
| | Straight adapter plate Short version | SW, TS, R7036, NI-L | | 956.1201 |
| | Cruciform adapter plates Long version | R7036 | | 956A1501 |

| - | <input type="checkbox"/> | Opening angle stop | | |
|---|---|--------------------|--|---------|
| | Opening angle | Colour | | |
| | 86° | TGR | | 70T3553 |
| | For CLIP top BLUMOTION 110° CLIP top 110° hinge | | | |

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

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

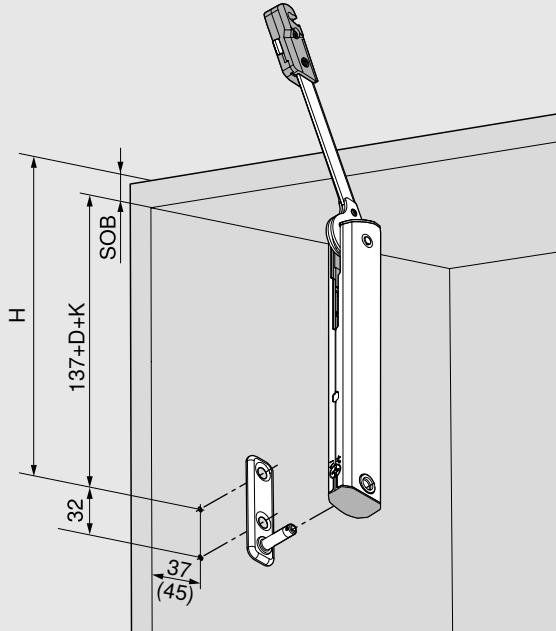
AVENTOS HK-XS



Standard and TIP-ON for AVENTOS HK-XS

Planning

Drilling position



$$H = 137 + D + K + SOB$$

D Mounting plate spacing

K Cranking of the hinge arm

Horizontal hinge arm 0 mm

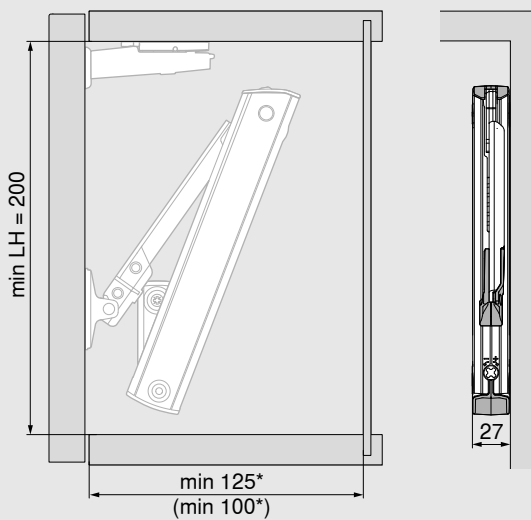
Cranked hinge arm 9.5 mm

Double cranked hinge arm 18 mm

SOB Top panel thickness

() Internal cabinet depth 100 mm

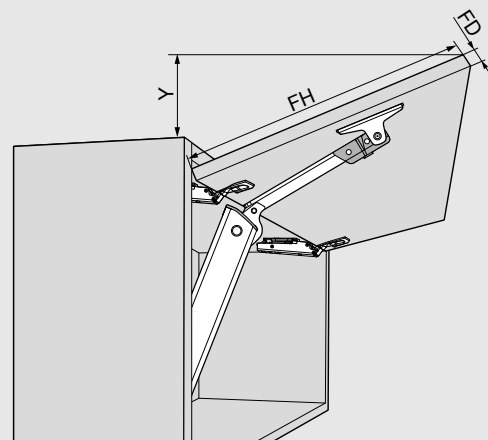
Space requirement



LH Internal cabinet height

* Min. 200 mm with visible wall hanging bracket

() Internal cabinet depth 100 mm



CLIP top BLUMOTION 110° hinge

$$Y = (FH - X) \times 0.3$$

| | | | | |
|----------------|----|----|----|----|
| FD (mm) | 16 | 19 | 22 | 24 |
| X (mm) | 45 | 34 | 23 | 15 |

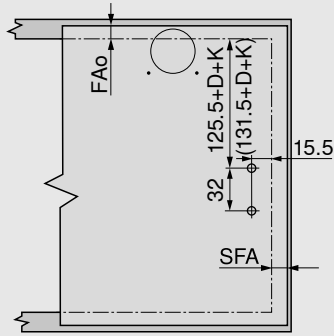
FD Front thickness

FH Front height

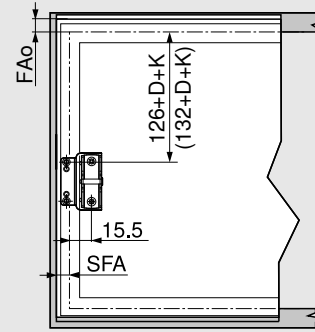
Planning

Front assembly

Wooden fronts and wide alu frames



Narrow alu frames



FAo Upper front overlay

SFA Front overlay of the side panel

D Mounting plate spacing

K Cranking of the hinge arm

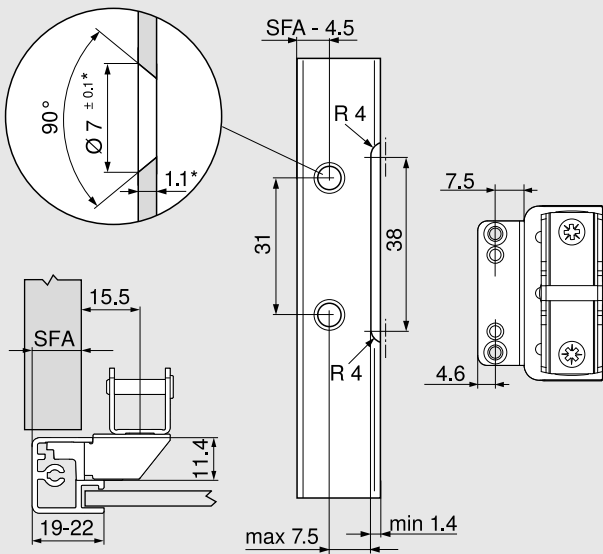
Horizontal hinge arm 0 mm

Cranked hinge arm 9.5 mm

Double cranked hinge arm 18 mm

() Internal cabinet depth 100 mm

Narrow alu frames

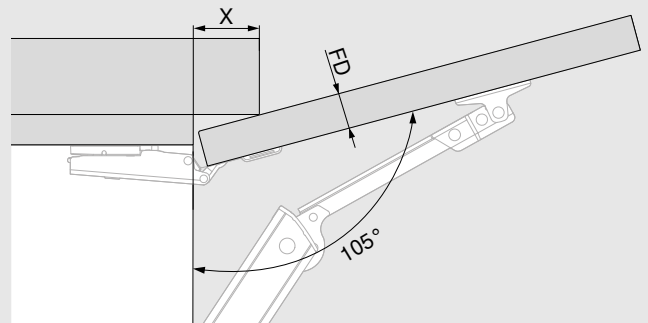


For frame width 19 mm, an SFA of 11–18 mm is possible.

* When changing material thickness, adjust the assembly dimensions accordingly

SFA Front overlay of the side panel

Space requirement – Cornice | Crown moulding



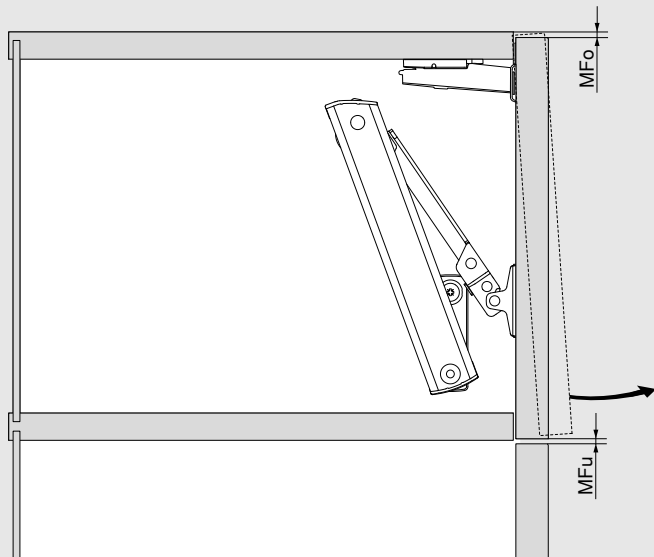
CLIP top BLUMOTION 110° hinge

| | | | | |
|---------|----|----|----|----|
| FD (mm) | 16 | 19 | 22 | 24 |
| X (mm) | 45 | 34 | 23 | 15 |

FD Front thickness

Planning

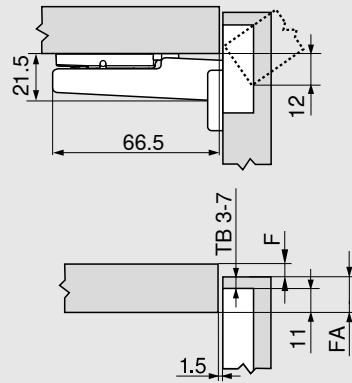
Minimum gap



MFo Minimum gap at the top depending on the hinge used

MFu Minimum gap at the bottom 1.5 mm

Overlay application



F Gap

FA Front overlay

TB Drilling distance

Drilling distance TB

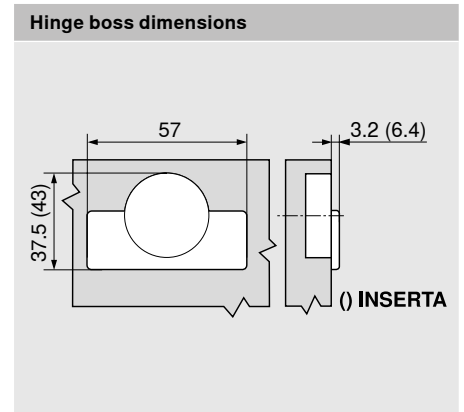
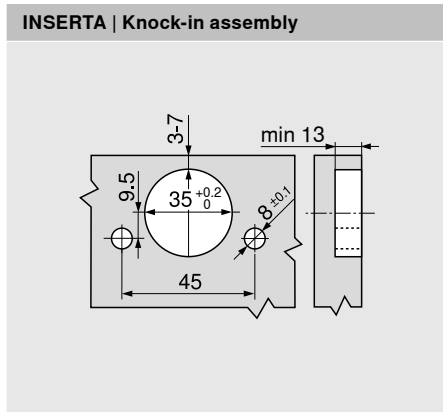
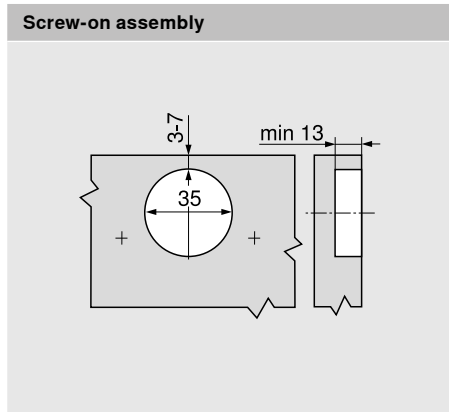
| MD | Front overlay FA (mm) | | | | | | | | | | | | | |
|----|-----------------------------|---|---|---|---|----|----|----|----|----|----|----|----|----|
| | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 0 | | | | | | | | | | 3 | 4 | 5 | 6 | 7 |
| 3 | | | | | | | 3 | 4 | 5 | 6 |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

Planning

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 | △ | △ | |
| 4 | 0.5 | 0.8 | 1.0 | 1.2 | 1.4 | 1.7 | 2.0 | 2.5 | 3.1 | 3.8 | △ | △ | |
| 5 | 0.5 | 0.8 | 0.9 | 1.2 | 1.4 | 1.7 | 2.0 | 2.4 | 2.9 | 3.4 | △ | △ | |
| 6 | 0.5 | 0.8 | 0.9 | 1.2 | 1.3 | 1.6 | 1.9 | 2.3 | 2.7 | 3.2 | △ | △ | |
| 7 | 0.5 | 0.8 | 0.9 | 1.1 | 1.3 | 1.6 | 1.9 | 2.2 | 2.6 | 3.0 | △ | △ | |
| 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 | | | |

△ A trial application is recommended



Assembly and adjustment



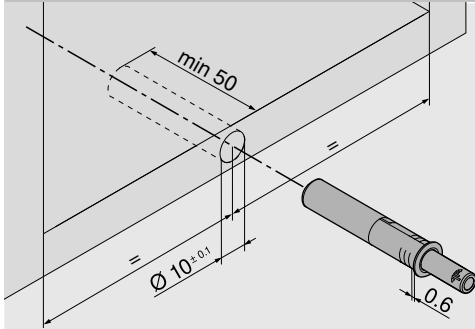
Information on assembly and adjustment

> www.blum.com/aventos-hkxs-assembly

Planning

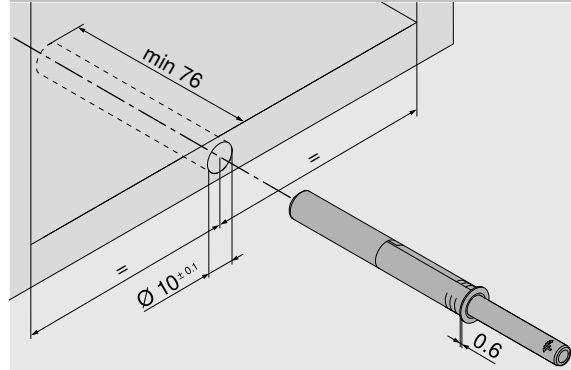
TIP-ON for drilling fixing position

TIP-ON short version



For stay lifts up to and including a height of 500 mm

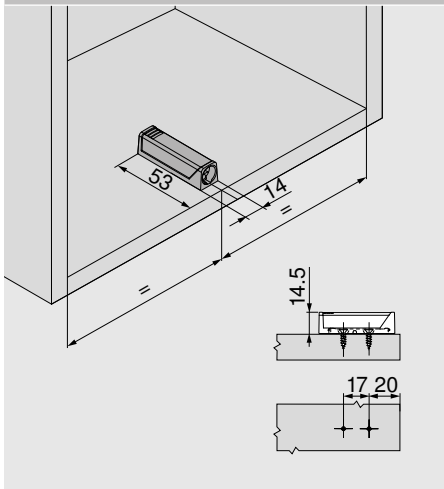
TIP-ON long version



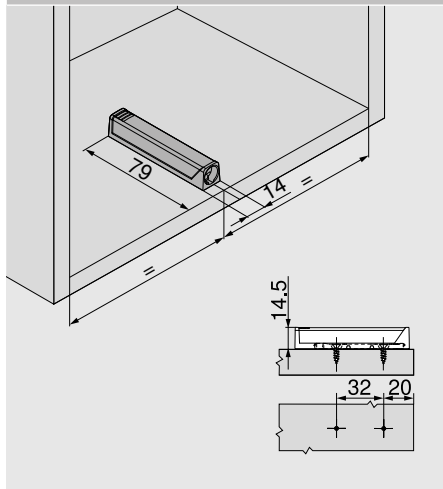
For stay lifts heights over 501 mm

TIP-ON adapter plate fixing position

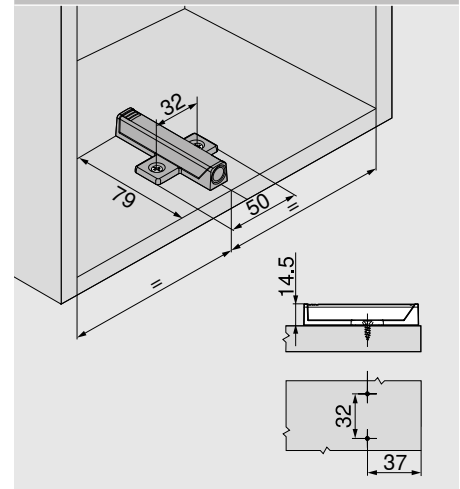
Straight adapter plate – short version



Straight adapter plate – long version



Cruciform adapter plates



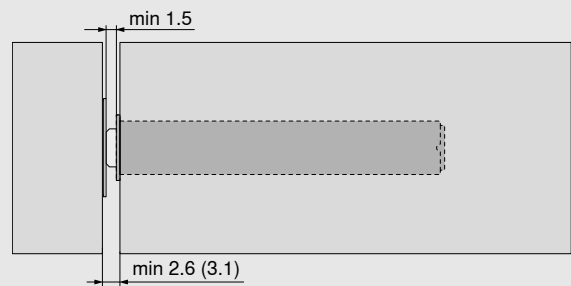
Installation dimensions for front gap

TIP-ON short version



min. 2.6 mm with glue-on catch plate
 () min. 3.1 mm with screw-on catch plate

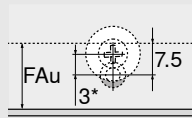
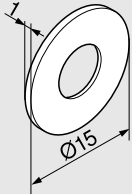
TIP-ON long version



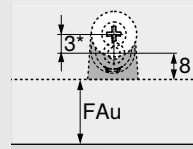
min. 2.6 mm with glue-on catch plate
 () min. 3.1 mm with screw-on catch plate

Planning

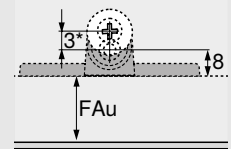
Screw-on catch plate planning



For drilling



Horizontal adapter plate

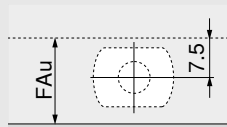
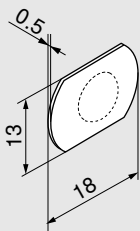


Cruciform adapter plate

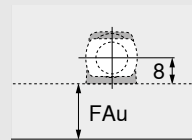
* For the screw-on catch plate we recommend a 3 mm displaced positioning to TIP-ON.

FAu Bottom front overlay

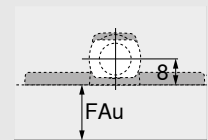
Glue-on catch plate planning



For drilling



Horizontal adapter plate



Cruciform adapter plates

FAu Bottom front overlay



- EXPANDO T – Pre-assembled fixing system
- Thin fronts measuring 8 mm and higher
- Different front materials
- 3 different applications – lift systems | hinge systems | box systems

| | | | |
|---|-------------|----------|---------|
| Front fixing bracket for AVENTOS HS HL HK top | | | |
| | Version | Material | |
| | Symmetrical | Steel | 20S42T1 |

Fixing positions as per the instructions in the section on lift systems

| | | | |
|--------------------|--------|-------------|----------|
| Further products | | | |
| EXPANDO T – single | | | |
| | Colour | Material | |
| | TGR | Nylon/steel | 70T4532T |

Drilling depth | Screw selection – EXPANDO T

| | |
|----|--------------------------------|
| BT | Drilling depth |
| ES | Screw penetration depth |
| ES | Min. 4 mm |
| ES | Max. BT – 0.5 mm |
| * | Stone and ceramic +0.2/-0.1 mm |

Screws with M4 thread have to be used for EXPANDO T separate dowel

The lowest possible drilling depth should be selected for the single dowel depending on the screw length

Assembly – EXPANDO T

| Area of application and assembly recommendation | | | | | | | | | | | | | | | | | | | |
|---|--|--------------------------|--|--|-----|--|-----|-----|---|-----|---|--------------------|---|-------------------------------|---|-------------------------------------|---|----------------|---|
| EXPANDO T is suitable for fixing Blum fittings to thin front materials in furniture manufacturing. With sufficient stability and strength, front materials of 8 mm thickness and above may be used. | | | | | | | | | | | | | | | | | | | |
| Nm Minimum tightening torque | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <tr> <th colspan="2">Materials tested by Blum</th> </tr> <tr> <td>Chipboard (transverse tensile strength > 0.4 N/mm²)</td> <td>1.5</td> </tr> <tr> <td>MDF (transverse tensile strength > 0.6 N/mm²)</td> <td>1.5</td> </tr> <tr> <td>HDF</td> <td>2</td> </tr> <tr> <td>HPL</td> <td>2</td> </tr> <tr> <td>Mineral composites</td> <td>2</td> </tr> <tr> <td>Granite stone – Nero Assoluto</td> <td>3</td> </tr> <tr> <td>Artificial stone – quartz composite</td> <td>3</td> </tr> <tr> <td>Ceramic plates</td> <td>3</td> </tr> </table> | Materials tested by Blum | | Chipboard (transverse tensile strength > 0.4 N/mm ²) | 1.5 | MDF (transverse tensile strength > 0.6 N/mm ²) | 1.5 | HDF | 2 | HPL | 2 | Mineral composites | 2 | Granite stone – Nero Assoluto | 3 | Artificial stone – quartz composite | 3 | Ceramic plates | 3 |
| Materials tested by Blum | | | | | | | | | | | | | | | | | | | |
| Chipboard (transverse tensile strength > 0.4 N/mm ²) | 1.5 | | | | | | | | | | | | | | | | | | |
| MDF (transverse tensile strength > 0.6 N/mm ²) | 1.5 | | | | | | | | | | | | | | | | | | |
| HDF | 2 | | | | | | | | | | | | | | | | | | |
| HPL | 2 | | | | | | | | | | | | | | | | | | |
| Mineral composites | 2 | | | | | | | | | | | | | | | | | | |
| Granite stone – Nero Assoluto | 3 | | | | | | | | | | | | | | | | | | |
| Artificial stone – quartz composite | 3 | | | | | | | | | | | | | | | | | | |
| Ceramic plates | 3 | | | | | | | | | | | | | | | | | | |

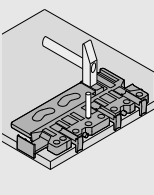
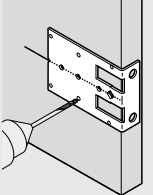
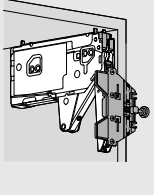
Liability disclaimer

Blum accepts no liability for the use of EXPANDO T in combination with materials not listed or fittings from other manufacturers. It is recommended that the assembly be carried out by an experienced furniture manufacturer.

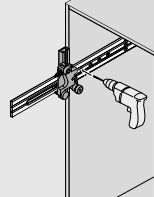
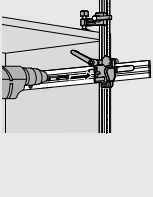
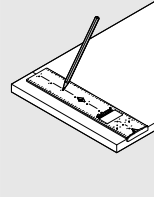
EXPANDO T
Assembly, adjustment and removal

> www.blum.com/expando-t-9

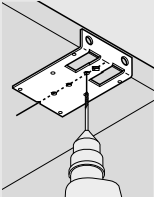
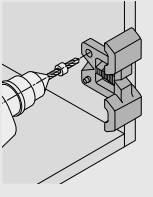
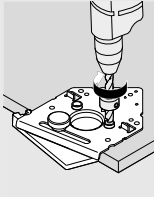
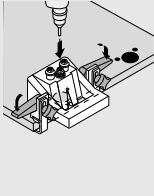
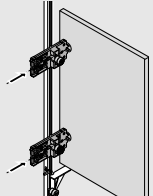
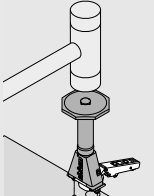
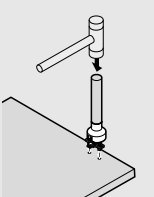
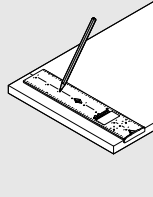
Front assembly

| | | | | | |
|--|-----------------------------|---|----------|---|--|
|  | Universal drilling template |  | Template |  | Marking template for AVENTOS HK top front fixing bracket |
| | ZML.0040.01 | | 65.5300 | | ZML.2200 |

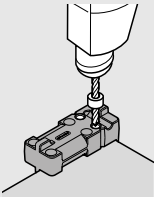
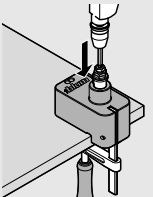
Cabinet assembly

| | | | | | |
|--|-------------------------------|---|------------------------|---|----------------------------|
|  | Universal individual template |  | Universal rod template |  | Universal marking template |
| | 65.1051.02 | | 65.1000.01 | | 65.5340.01 |

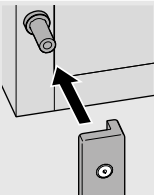
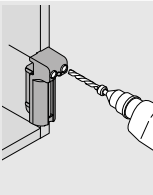
Assembly – Hinge systems

| | | | | | |
|--|-----------------------------------|---|---------------------------------------|---|------------------------------|
|  | Template |  | Drilling template for mounting plates |  | Drilling template for hinges |
| | 65.5300 | | 65.5070 | Ø 8 mm Ø 2.5 mm | 65.059A |
| | | | | Ø 2.5 mm | 65.055A |
|  | ECODRILL |  | Drilling template for hinge systems |  | Knock-in tool for hinges |
| | M31.1000 | | 65.7500.03 | | ZME.0710 |
|  | Knock-in tool for mounting plates |  | Universal marking template | | |
| | Mounting plate | | | | |
| | 65.6100 | | | | |
| | Steel horizontal mounting plate | | | | |
| | ZME.0730 | | 65.5340.01 | | |

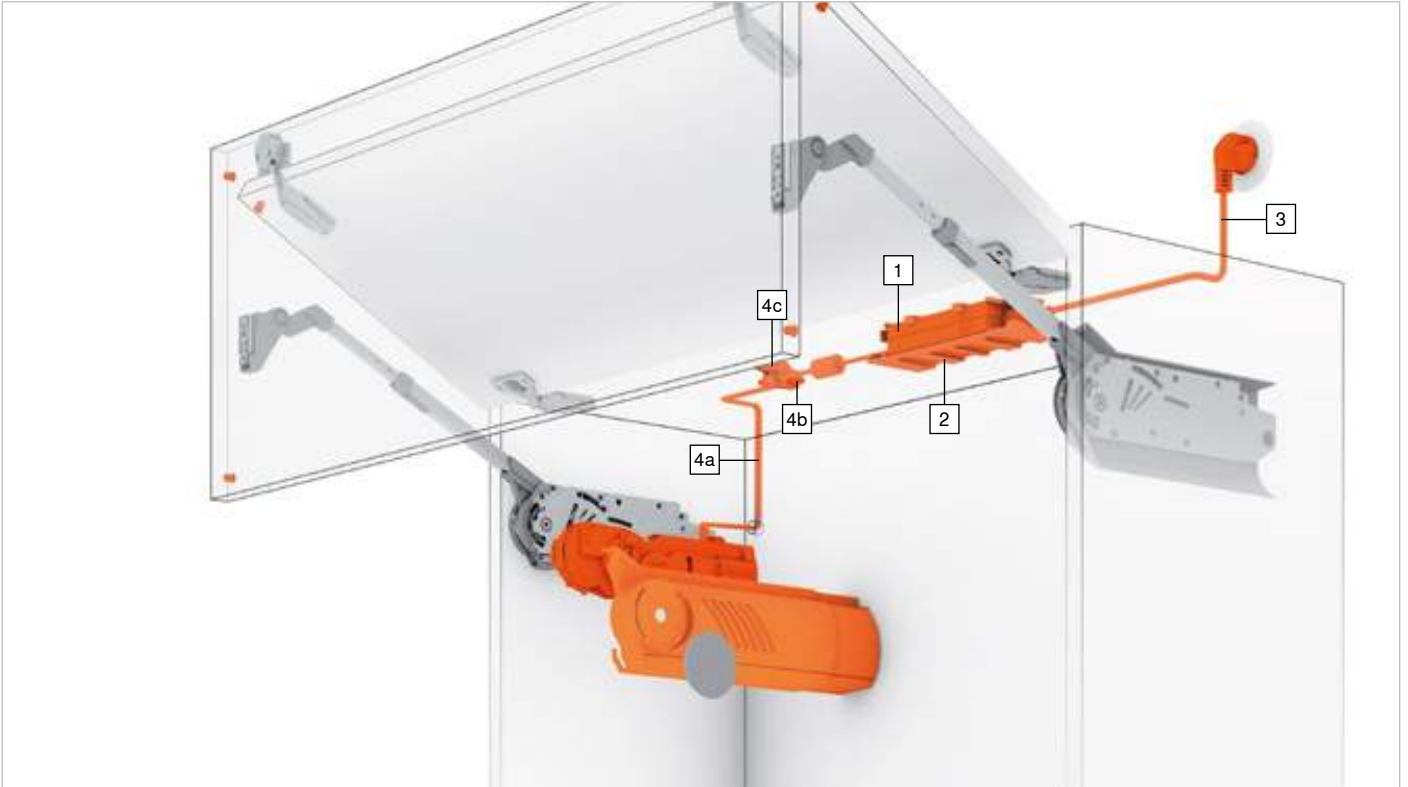
Assembly – SERVO-DRIVE

| | | | | | |
|--|------------------------------|---|--|--|--|
|  | Drilling template for damper |  | Drilling template for the SERVO-DRIVE switch | | |
| | ZML.1090 | | M31.2000 | | |

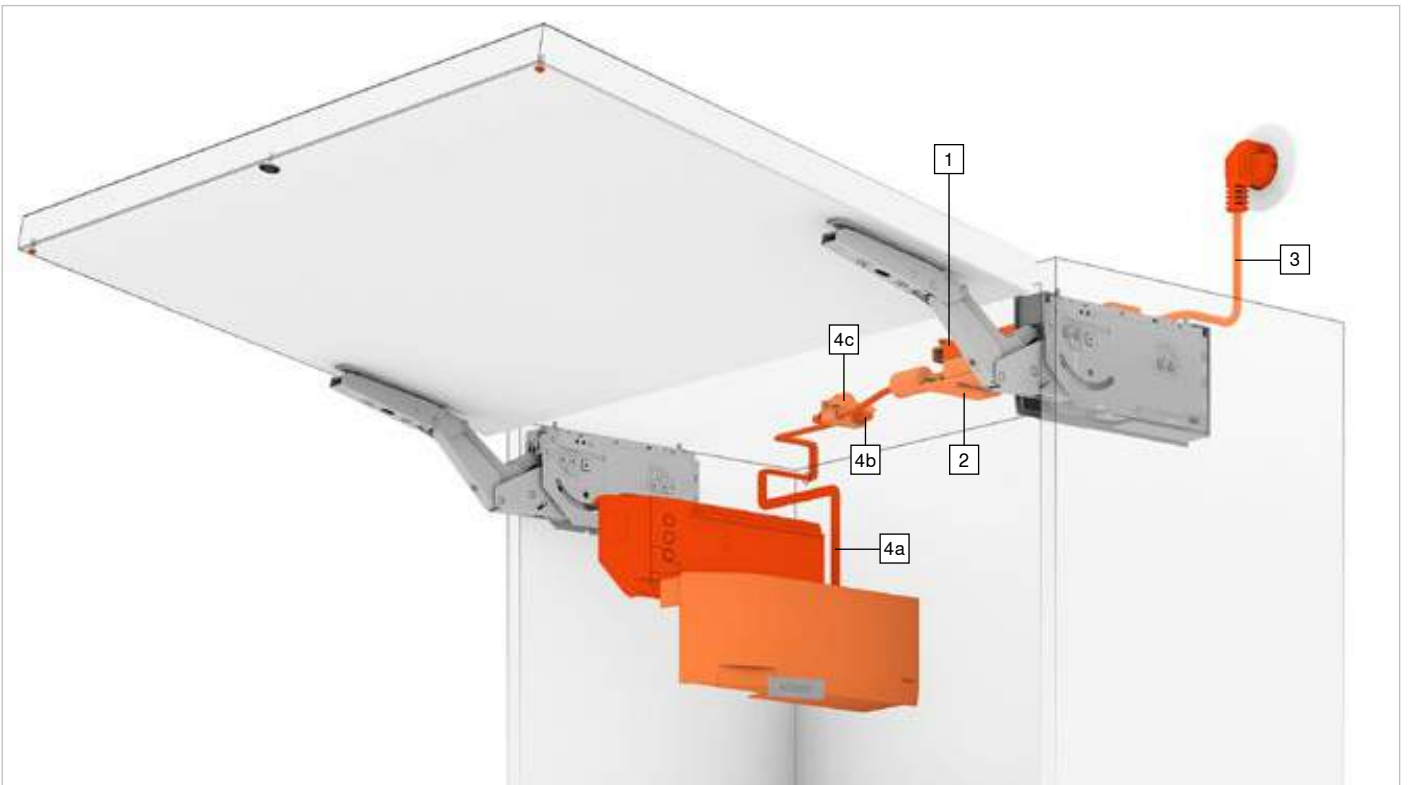
Assembly – TIP-ON

| | | | | | |
|--|--------------------------------------|---|--|--|--|
|  | Positioning template for catch plate |  | Drilling template for BLUMOTION TIP-ON | | |
| | 65.5210.01 | | 65.5010 | | |

SERVO-DRIVE for AVENTOS HF, HS, HL



SERVO-DRIVE for AVENTOS HK top

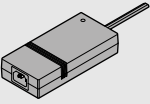



Blum transformer and accessories SERVO-DRIVE for AVENTOS

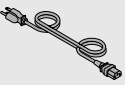
AVENTOS



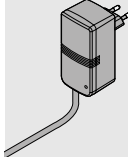
Order specification

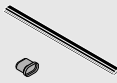
| 1 24-watt Blum transformer | | | | |
|---|------------------------|-----------|------------------------|-----------|
|  | Language package | | Language package | |
| | A | Z10NE030A | F | Z10NE030F |
| | B | Z10NE030B | G | Z10NE030G |
| | C | Z10NE030C | H | Z10NE030H |
| | D | Z10NE030D | J | Z10NE030J |
| | E | Z10NE030E | | |
| Includes operating 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 | | | | |


| 2 Transformer unit housing | | | |
|---|--------|----------|----------|
|  | Colour | Material | |
| | WGR | Nylon | Z10NG120 |
| For 24-Watt Blum transformer | | | |

| 3 Flex | | | | |
|---|---------------------|-------------|--------|-------------|
|  | Market | | Market | |
| | AR | Z10M200A | JP | Z10M200J |
| | UK | Z10M200B | AU | Z10M200K |
| | CH | Z10M200C | CL | Z10M200L |
| | DK | Z10M200D | CN | Z10M200N |
| | Europe | Z10M200E | BR | Z10M200S.01 |
| | Europe ¹ | Z10M200E.OS | TW | Z10M200T |
| | IN | Z10M200H | US, CA | Z10M200U |
| | IL | Z10M200I | ZA | Z10M200Z |
| ¹ Without plug | | | | |

| Colour | |
|--------|------------|
| WGR | White grey |
| S | Black |
| W | White |

| Alternative to 1, 2 and 3 | | | | |
|---|------------------------|----------------------------------|------------|------------------------|
| - 12-Watt Blum plug-in transformer | | | | |
| Only suitable for one drive unit | | | | |
|  | Power adapter (x) | | | |
| | E | B | K U | |
| | Language packages (y) | | | |
| | A | DE, EN, FR, IT, NL | E | CS, HU, SK, PL |
| | B | DA, EN, FI, NO, SV | F | BG, ET, LT, LV, RO, RU |
| C | EL, EN, HR, SL, SR, TR | G | EN, ES, FR | |
| D | EN, ES, FR, IT, PT | | | |
| Z10NA30xyF | | | | |
| Consisting of: | | | | |
| - | 1 x | 12-Watt Blum plug-in transformer | | |
| Incl. cable, 1120 mm (with distribution cable extendible to max. 2000 mm) | | | | |

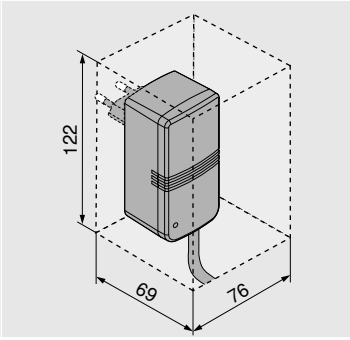
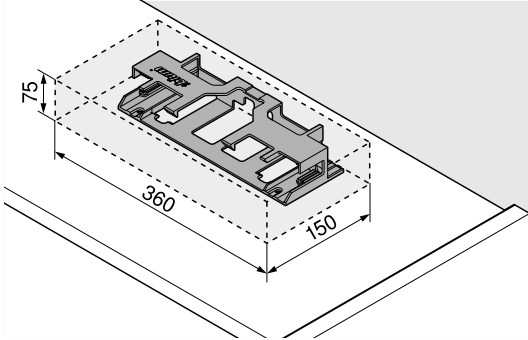
| Accessories | | | |
|---|--------|---------------------|-----------|
| 4 Distribution cable and cable end protector | | | |
|  | Colour | Length | |
| | S | 8 m | Z10K800AE |
| Consisting of: | | | |
| 4a | 1 x | Distribution cable | |
| 4b | 5 x | Cable end protector | |
| Can be used as a distribution cable | | | |
| For cutting to size | | | |

| 4 Connecting node and cable end protector | | | |
|---|--------|---------------------|-------------|
|  | Colour | Material | |
| | S | Nylon | Z10V100E.01 |
| Consisting of: | | | |
| 4c | 1 x | Connecting node | |
| 4b | 2 x | Cable end protector | |
| Tool-free assembly | | | |

| Cable holder | | | |
|---|--------|----------|----------|
|  | Colour | Material | |
| | W | Nylon | Z10K0009 |
| E.g. for fixing the distribution cable | | | |

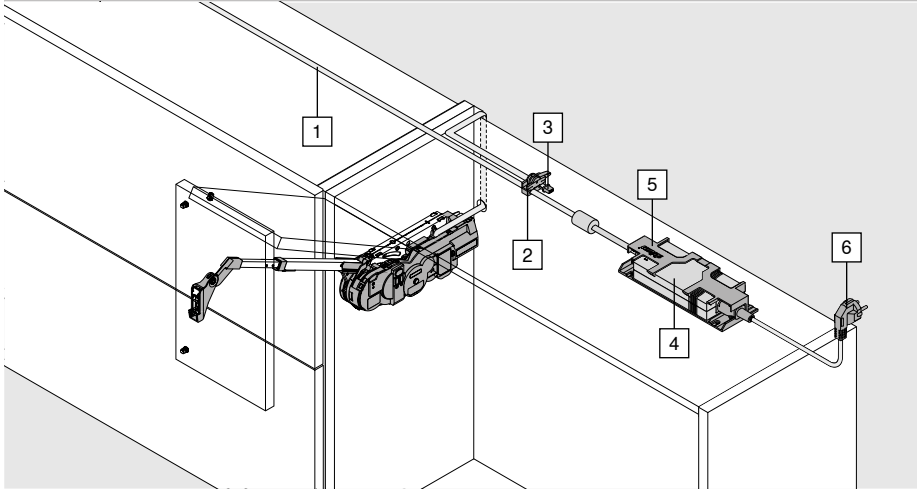
Planning

Space requirement and safety distance, Blum transformer unit housing and/or Blum plug-in transformer



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

Assembly on the cabinet top panel

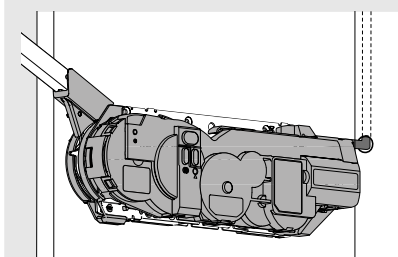


- 1 Distribution cable for cutting to size
- 2 Connecting node
- 3 Cable end protector
- 4 Blum transformer
- 5 Transformer unit housing
- 6 Flex

i Only one Blum transformer can be connected to each distribution cable.

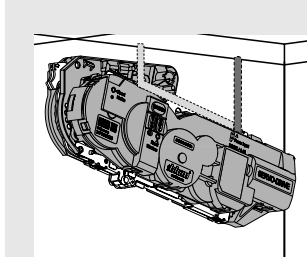
Back cabling

Recommended



Top cabling

Optional



Cabinet front edge to centre of drilled hole

HF 167 mm

HS 69 or 167 mm

HL 74.5 or 167 mm

HK 167 mm

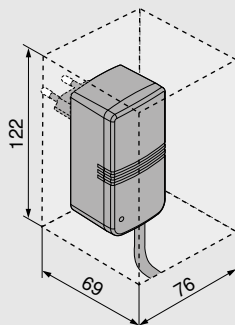
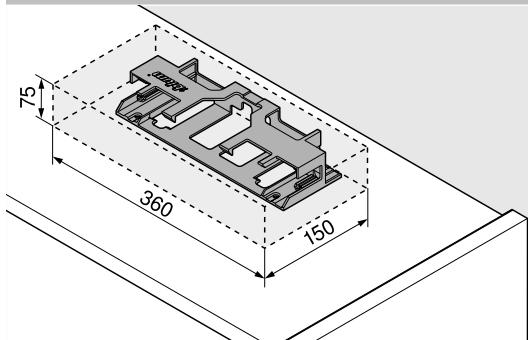
Blum transformer and accessories SERVO-DRIVE for AVENTOS HK top

AVENTOS



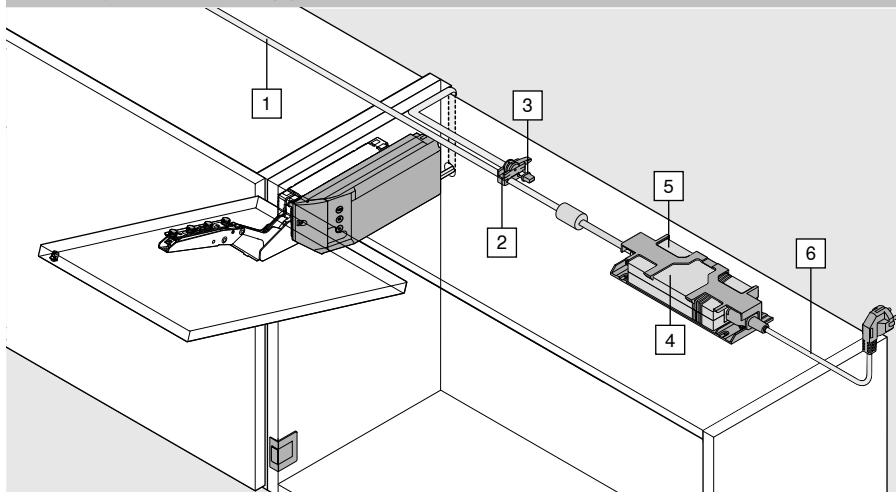
Planning

Space requirement and safety distance, Blum transformer unit housing and/or Blum plug-in transformer



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

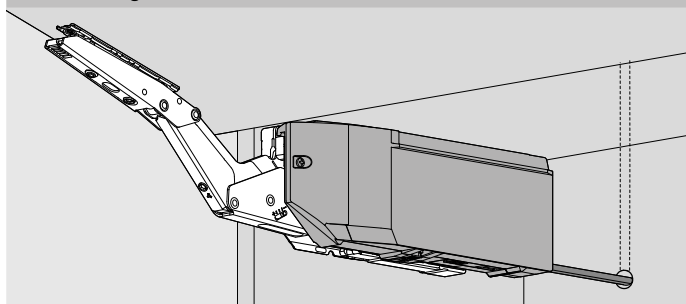
Assembly on the cabinet top panel



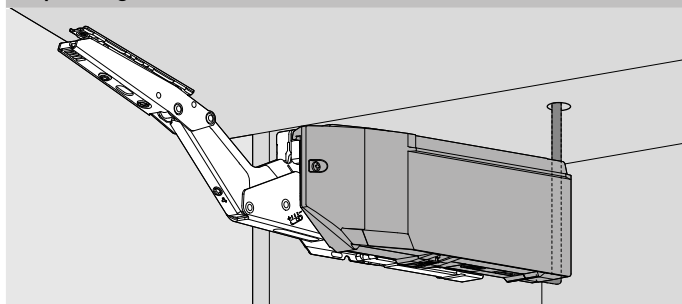
- 1 Distribution cable for cutting to size
- 2 Connecting node
- 3 Cable end protector
- 4 Blum transformer
- 5 Transformer unit housing
- 6 Flex

i Only one Blum transformer can be connected to each distribution cable.

Back cabling



Top cabling



Assembly and adjustment



Information on assembly
and adjustment

www.blum.com/servodrive-aventos-assembly

The company Blum

Founded over 60 years ago by Julius Blum, Blum is a family-owned company that operates on an international scale. Its strategic business segments include lift, hinge and pull-out systems. All our product developments focus on perfecting motion.

www.blum.com

 **blum**



Blum in Austria and around the world

The company has eight plants in Vorarlberg, Austria, additional production sites in Poland, the USA and Brazil and 31 subsidiaries/representative offices. Blum supplies more than 120 markets. The Blum Group employs 8,000 people in total, 6,000 of whom work in Vorarlberg.



Global customer benefits

“Whether manufacturer, distributor, fitter or kitchen user – everybody should personally enjoy the benefits of Blum products” – that is Blum’s philosophy on global customer benefits.



Innovations

To support customers with innovative fittings solutions and secure long-term success for the company, we need to consistently invest in research and development, in plants and facilities and in employee training. With more than 2,100 granted patents worldwide, Blum is one of Austria’s most innovative companies.



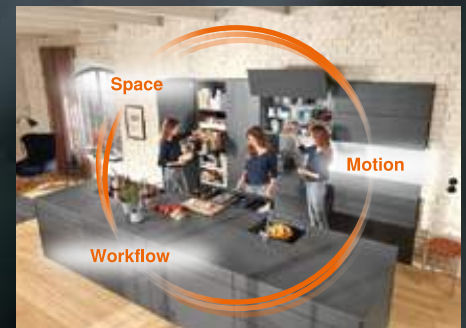
Quality

Blum’s comprehensive concept of quality does not only apply to products. Services and collaboration with customers and partners should also meet the same quality requirements.



Environment

At Blum, we believe that responsible ecological behaviour has long-term economic benefits. The longevity of products is just one of many important aspects. Other important measures include the use of environmentally-friendly processes, the intelligent use of materials and prudent energy management.



DYNAMIC SPACE

Good workflows, optimum use of storage space and top quality motion are important features of a practical kitchen. Blum’s ideas for practical kitchens are designed to bring function, convenience and ergonomics to furniture interiors.



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