How to Install a Blum AVENTOS HK Top Stay Lift

Doors, Drawers & Fronts. US catalog, in inches and millimeters. Updated November 2026.

The AVENTOS HK top is Blum's stay lift for a lift-up door on a wall cabinet: two lift mechanisms, one on each cabinet side, carry the door, and a built-in stop sets the opening angle between 75 and 107 degrees. This guide shows how to pick the set by power factor, the parts to order by Blum part number, the side and door hole positions and the steps in order, for cabinets from 205 mm (about 8-3/32 in) to 610 mm (about 24 in) high.

AVENTOS HK top at a glance

Cabinet Height	From 205 mm (about 8-3/32 in) to 610 mm (about 24 in) outside height, up to 1828 mm (about 71-15/16 in) outside width
Inside Height	At least 173 mm (about 6-13/16 in)
Depth	187 mm (about 7-3/8 in) standard, 235 mm (about 9-9/32 in) with SERVO-DRIVE, 261 mm (about 10-9/32 in) with a visible wall hanging bracket
Opening Angle	A built-in stop sets 75 to 107 degrees
Sizing	Power factor = cabinet height (in) x door weight including double handle weight (lb)
Cabinet Side	Positioning system, no pre-drilling required, four wood screws Ø4 x 35
Options	SERVO-DRIVE and TIP-ON both fit the HK top

From Blum AVENTOS catalog p.9, 43, 37.

Who this guide is for

A homeowner or small workshop hanging a lift-up door on a frameless or face frame wall cabinet from 205 mm (about 8-3/32 in) to 610 mm (about 24 in) high, hinged at the top. Blum sells the HK top as a set of two mechanisms.

What you need

Order one lift set by power factor, the cover cap set and the door hardware set for your door.

Blum Part Number	What It Is	How Many	Your Choice
22K2300, 22K2500, 22K2700, 22K2900	AVENTOS HK top lift mechanism set, chosen by power factor: 2 symmetrical lift mechanisms with positioning system and 8 wood screws Ø4 x 35	1 set	Nickel (NI) or Eclipse black (ECS)
22K2310, 22K2510, 22K2710, 22K2910	The same set with system screws instead of the positioning system	1 set, in place of the set above	Nickel (NI) or Eclipse black (ECS)
22K8000	Cover cap set	1 set	Dark gray (TGR), Silk white (SW) or Light gray (HGR)
20S4200	Door hardware set for wooden doors and wide aluminum frames: use 4 wood screws (606N or 606P) per side	1 set	Nickel (NI) or Onyx black (ONS)

20S4200A	Door hardware set for narrow aluminum frames, with 660.0950 screws	1 set, in place of 20S4200	Nickel (NI) or Onyx black (ONS)
20S4F01	Door hardware set for large overlay five-piece doors: a mounting plate with bracket	1 set, in place of 20S4200	
20S42T1	Door hardware set for EXPANDO T, thin fronts	1 set, in place of 20S4200	
22K6001	Frame mounting bracket set for a face frame cabinet: M4 x 30 lift mounting screws, qty 12	1 set, for a face frame cabinet	

From Blum AVENTOS catalog p.37, 38, 64. Finishes and colors are your choice; the table names them as Blum prints them.

Options: the SERVO-DRIVE set for the HK top is 23KA000 with cover set 23K8000, and the TIP-ON lift set ends in T. The guides for SERVO-DRIVE and TIP-ON list the rest.

Jigs and tools that make it easier

With the positioning-system set, the lift mechanism's cabinet side needs no pre-drilling, and the front plates still need marking or drilling. These jigs help with the marking and drilling when you work by hand.

Blum Part Number	Jig or Tool	What It Does Here
65.1051.02	Universal individual template, with the 5 mm (about 3/16 in) drill bit DB-5mm	Marks and guides the cabinet side holes for the system-screw set.
ZML.0040.02	Universal drilling template	Marks and drills the front fixing positions on the door.
ZML.2200	Marking template for AVENTOS HK top door mounting plate	Marks the HK top door plate positions, which are the ones in the door drawing below.
T20 TORX DRIVER	T20 TORX driver, or TORX BIT T20X2 in a screw gun	Blum prints it for AVENTOS HKi and AVENTOS top adjustments: the balance, the three cams and the opening angle.

From Blum AVENTOS overview p.1; Blum AVENTOS catalog p.66, 67.

If you cut on a CNC router, you can drill these same positions from your own cut file, so the jigs here are for building by hand.

Sizing, space and limits

The HK top is picked by power factor, from the cabinet height and the door weight. Blum counts the handle weight twice.

Power factor

`Power factor = cabinet height (in) x door weight including double handle weight (lb)`
Cabinet height in inches. Door weight and handle weight in pounds. The handle weight is counted twice, as Blum prints.

From Blum AVENTOS catalog p.37.

Clearance for a cornice or crown molding at the maximum opening angle

`Y = FH x 0.29 + FD - SOB`
FH is the door height, FD the door thickness and SOB the thickness of the top panel, all in millimeters. The X figure for each door thickness is in the table below.

From Blum AVENTOS catalog p.44.

Power Factor Ranges

Part Number	System Screw Set	Power Factor From	Power Factor to	Opening Angle
22K2300	22K2310	36	139	107 degrees
22K2500	22K2510	80	240	107 degrees
22K2700	22K2710	150	450	107 degrees
22K2900	22K2910	270	781	107 degrees

Blum prints no inclusive or exclusive word for the end of a range, so read each range as running from its first figure to its second, and do a trial application near either end. From Blum AVENTOS catalog p.37.

Cornice Clearance X by Door Thickness FD

Door Thickness FD	X
16 mm (about 5/8 in)	68 mm (about 2-11/16 in)
19 mm (about 3/4 in)	57 mm (about 2-1/4 in)
22 mm (about 7/8 in)	47 mm (about 1-27/32 in)
26 mm (about 1-1/32 in)	33 mm (about 1-5/16 in)
28 mm (about 1-3/32 in)	27 mm (about 1-1/16 in)

From Blum AVENTOS catalog p.44.

Blum recommends the more powerful lift mechanism for applications in overlapping ranges, and a trial application when you are in a borderline area of a mechanism's power factor range.

Blum prints: "The power factor can be increased by 50% if you use a third lift mechanism." Blum also recommends a third lift mechanism for wide cabinets, to prevent the door from sagging when open.

The minimum gap (MF) between doors is 2 mm (about 3/32 in).

The maximum upper door overlay FAo is 25.4 mm (1 in).

Worked example. A cabinet 24 in high and 30 in wide

The door weighs 5.5 lb and the pull weighs 0.25 lb.

1. The pull counts twice: 2 x 0.25 = 0.5 lb
2. Door weight including double handle weight = 5.5 + 0.5 = 6.0 lb
3. Power factor = 24 x 6.0 = 144
4. 22K2300 ends at 139, 22K2500 runs from 80 to 240 and 22K2700 starts at 150, so only 22K2500 holds 144.

Order lift set 22K2500 and door hardware set 20S4200. The set holds two lift mechanisms.

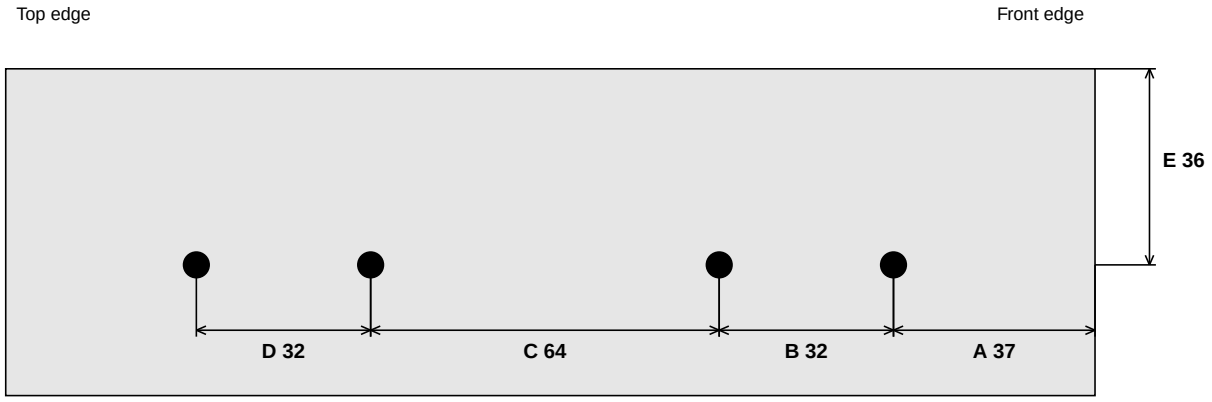
Where two ranges overlap, Blum recommends the more powerful mechanism.

From Blum AVENTOS catalog p.37.

Drawings and positions

Every drawing below is ours, drawn to scale from the figures Blum prints and named with its source page. The letter on a dimension line points to the table under the drawing.

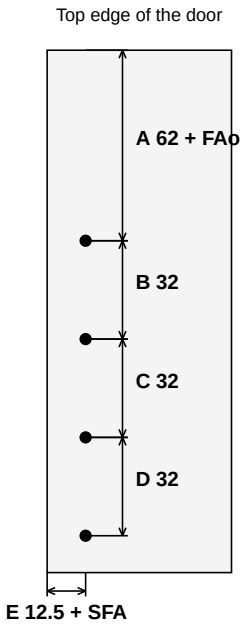
System screw holes in the cabinet side



Drawn by CabDesign after Blum AVENTOS catalog cme106254, p.43. Four holes, Ø5 mm (about 3/16 in) and at least 11.5 mm (about 15/32 in) deep, in a row 36 mm (about 1-13/32 in) below the underside of the top panel (the inside top), measured from the front edge back. On a cabinet whose top panel sits between the sides, add the top panel's thickness to measure from the side's top edge. The positioning-system set needs none of this.

Letter	Figure	In Inches	What It Measures
A	37 mm	about 1-15/32 in	Front edge to the first hole
B	32 mm	about 1-1/4 in	First hole to the second
C	64 mm	about 2-17/32 in	Second hole to the third
D	32 mm	about 1-1/4 in	Third hole to the fourth
E	36 mm	about 1-13/32 in	Top edge down to the row of holes

Door plate screw holes



Drawn by CabDesign after Blum AVENTOS catalog cme106254, p.44, for wooden doors and wide aluminum frames, with the upper overlay FAo and the side overlay SFA drawn as zero. Narrow aluminum frames use a different pattern: use door hardware set 20S4200A and follow Blum's page 44.

Letter	Figure	In Inches	What It Measures
A	62 mm + FAo	about 2-7/16 in + FAo	Top edge of the door to the first hole, plus the upper door overlay
B	32 mm	about 1-1/4 in	First hole to the second
C	32 mm	about 1-1/4 in	Second hole to the third
D	32 mm	about 1-1/4 in	Third hole to the fourth
E	12.5 mm + SFA	about 1/2 in + SFA	Side edge of the door to the column of holes, plus the side door overlay

Steps, in order

1. Pick the set by power factor. Multiply the cabinet height in inches by the door weight in pounds, counting the handle weight twice, and choose the set whose range holds the answer. Where two ranges overlap, choose the more powerful set.

2. Check the space. The inside height is at least 173 mm (about 6-13/16 in) and the depth at least 187 mm (about 7-3/8 in), or 235 mm (about 9-9/32 in) with SERVO-DRIVE. With a visible wall hanging bracket the depth is at least 261 mm (about 10-9/32 in). Check the cornice clearance with the formula above.

3. Prepare a face frame cabinet. On a face frame cabinet, block the frame out flush and use frame mounting bracket set 22K6001, which needs a recess of at least 12.5 mm (about 1/2 in).

4. Fit the lift mechanisms to the cabinet side. With the positioning-system set, seat each mechanism against the top panel and flush with the front, and fix it with its four wood screws. Blum says all four screws must be installed. Then remove the setback template. With the system-screw set, drill the four Ø5 mm (about 3/16 in) holes first, at the positions in the drawing.

5. Fit the door plates. Fix the mounting plates to the back of the door at the positions in the door drawing, with 4 wood screws (606N or 606P) per side. If the door panel is less than 6 mm (about 1/4 in) from the screw line, use the plate with bracket in set 20S4F01.

6. Release the arms. Keep the arm safety on until the door is ready, because the arm is spring loaded. Then release the safety lever and raise the arms.

7. Clip on the door. Click the CLIP mechanism of each arm onto its door plate.

8. Balance the door. Adjust the tension with a T20 TORX screwdriver, or a screw gun with a T20 TORX bit. The cover cap does not need to come off.

9. Make the three adjustments. With the T20, adjust the door's side, depth and height cams, plus or minus 2 mm (about 3/32 in) each.

10. Snap on the caps and set the opening angle. Snap on the left and right cover caps. Set the opening angle between 75 and 107 degrees with the T20; the cap can stay on.

11. Remove the door when you need to. Open the door, unclip the arm from the door plate on one side, support the door with the other hand, and unclip the second arm.

Check before you finish

- Both mechanisms are flush with the front and every wood screw is in.
- The door balances, and both mechanisms have the same tension.
- The gap between neighboring doors is at least 2 mm (about 3/32 in).
- The open door clears a cornice or crown molding by the X and Y of the clearance formula.
- The three door adjustments are within plus or minus 2 mm (about 3/32 in) each.

Common mistakes

- Measuring the cabinet holes from the side's top edge. Blum measures the lift from the inside top of the cabinet, the underside of the top panel. On a cabinet whose top panel sits between the sides, the side's top edge is one top-panel thickness higher, so holes measured from that edge land one top-panel thickness too high and the arm misses the door plate.
- Releasing the spring-loaded arm early. Blum's instruction sheet warns of the risk of injury from the spring-loaded arm, so keep the safety lever on until the door is ready.
- Leaving a screw out. Blum says all four screws must be installed.
- A five-piece door with too narrow a rail. When the panel is less than 6 mm (about 1/4 in) from the screw line, the standard plate does not suit: Blum's sheet points to the plate with bracket, set 20S4F01.
- A face frame cabinet with no block-out or bracket. Blum's catalog shows the frame blocked out flush with frame mounting bracket set 22K6001.
- A lift too weak or too strong for the door. Work out the power factor from the formula above and check that it sits inside the range of the set, with a trial application near an end of a range.
- No clearance check for a cornice. Blum gives the clearance formula so that the open door does not hit the molding above the cabinet.

From Blum AVENTOS catalog p.62, 64, 37, 44; Blum HK top instructions p.2, 3.

Check your numbers: Enter your cabinet and door in inches or millimeters, and the Blum AVENTOS Calculator gives the part, its power factor and every hole, each cabinet figure measured from Blum's own line and from the side's top edge. Open the Blum AVENTOS Calculator at cabdesign.app/modules/blum-aventos-calculator/blum-aventos-calculator.

What Blum's sheet decides

These details are not published in the Blum documents this guide is written from, so this guide leaves them out. Read them on Blum's own sheet for your part.

- The size of a pilot hole for the door screws: Blum prints only the screw part numbers.

- The position of the SERVO-DRIVE back cabling hole on an HK top.

Frequently asked questions

How do I pick an AVENTOS HK top lift?

Multiply the cabinet height in inches by the door weight in pounds, counting the handle weight twice, and choose the set whose power factor range holds the answer: 22K2300 from 36 to 139, 22K2500 from 80 to 240, 22K2700 from 150 to 450 or 22K2900 from 270 to 781. Where two ranges overlap, Blum recommends the more powerful lift mechanism.

What depth does an AVENTOS HK top need?

187 mm (about 7-3/8 in) standard, 235 mm (about 9-9/32 in) with SERVO-DRIVE, and 261 mm (about 10-9/32 in) with a visible wall hanging bracket, with an inside height of at least 173 mm (about 6-13/16 in).

Do I need to pre-drill the cabinet side for an HK top?

Blum prints "no pre-drilling required" for the lift installation with the positioning system. The system-screw sets use four Ø5 mm (about 3/16 in) holes instead.

What opening angle does the HK top have?

A built-in stop sets the opening angle between 75 and 107 degrees.

How many screws hold each mechanism?

Four wood screws, Ø4 x 35. Blum says all four screws must be installed.

Does the HK top take SERVO-DRIVE or TIP-ON?

Yes, both. See the SERVO-DRIVE guide and the TIP-ON guide for the parts and holes.

How CabDesign picks and sizes this

CabDesign sizes a lift-up front on the AVENTOS HK top from the same printed Blum tables used in this guide. It reads the cabinet height, the door weight and the pull weight, counts the pull twice, picks the lift set and puts its part numbers, and the door hardware set, on the project's buy list.

Size it the same way in the Designer: pick a lift-up front, enter the door weight, and the Designer reads the same printed tables. Open the Designer at cabdesign.app.

Keep reading

- How to Add Blum SERVO-DRIVE to an AVENTOS Lift: cabdesign.app/guides/doors-drawers-fronts/install-blum-servo-drive-aventos
- How to Fit Blum TIP-ON to an AVENTOS Stay Lift: cabdesign.app/guides/doors-drawers-fronts/install-blum-tip-on-aventos
- How to Install a Blum AVENTOS HK-S Stay Lift: cabdesign.app/guides/doors-drawers-fronts/install-blum-aventos-hk-s
- How to Install a Blum AVENTOS HK-XS Lift With Hinges: cabdesign.app/guides/doors-drawers-fronts/install-blum-aventos-hk-xs
- Cabinet Door Overlay and Reveals, Explained: cabdesign.app/guides/doors-drawers-fronts/door-overlay-and-reveals-explained

Sources and references

- Blum AVENTOS catalog cme106254, LIT.AVT1001.08.26, blum.com/file/cme106254_ep_dok_bus (ranges, part numbers and drawings)
- Blum AVENTOS program overview cme115842, blum.com/file/cme115842_td_dok_bus (templates for each lift)

- Blum AVENTOS HK top instructions for wood and wide aluminum frames, blum.com/file/aventoshktopwoodwidealum_ma_dok_bus (the order of assembly)

AVENTOS, SERVO-DRIVE, TIP-ON and BLUMOTION are names of Blum. This guide is independent: it is written by CabDesign and Blum has not reviewed it.

Blum's own instructions win if they differ, and Blum may change its parts without notice.

A CabDesign guide. This guide on the web: cabdesign.app/guides/doors-drawers-fronts/install-blum-aventos-hk-top