How to Install a Blum AVENTOS HL Top Parallel Lift

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

The AVENTOS HL top is Blum's parallel lift: the door rises straight up and stays parallel to the cabinet front, carried by two lift mechanisms and tied together by a cross stabilizer cut to the cabinet width. This guide shows how to pick the mechanism and lever set by cabinet height and door weight, the parts to order by Blum part number, how to cut the stabilizer, the hole positions and the steps, for cabinets from 300 mm (about 11-13/16 in) to 580 mm (about 22-13/16 in) high.

AVENTOS HL top at a glance

Cabinet Height	From 300 mm (about 11-13/16 in) to 580 mm (about 22-13/16 in) outside height, up to 1828 mm (about 71-15/16 in) outside width
Inside Depth	At least 264 mm (about 10-13/32 in)
Sizing	The mechanism by cabinet height, the lever set by cabinet height and door weight in pounds and ounces
Cross Stabilizer	22Q1076U, cut to the inside cabinet width LW - 113
Cabinet Side	Positioning system, no pre-drilling required, four wood screws Ø4 x 35, or four system screw holes
Options	SERVO-DRIVE fits the HL top

From Blum AVENTOS catalog p.9, 29, 31, 33.

Who this guide is for

A homeowner or small workshop hanging a lift-up door that rises straight up on a wall cabinet from 300 mm (about 11-13/16 in) to 580 mm (about 22-13/16 in) high with an inside depth of at least 264 mm (about 10-13/32 in).

What you need

Order the lift set and the lever set, the cross stabilizer, the cover caps and the door hardware set for your door.

Blum Part Number	What It Is	How Many	Your Choice
22L2200, 22L2500	AVENTOS HL top lift mechanism set, chosen by cabinet height: 2 symmetrical lift mechanisms with positioning system and 8 wood screws Ø4 x 35	1 set	
22L2210, 22L2510	The same set with pre-attached system screws instead of the positioning system	1 set, in place of the set above	
22L3200, 22L3500, 22L3800, 22L3900	Lever arm set, chosen by cabinet height and door weight	1 set	Nickel (NI) or Eclipse black (ECS)
22Q1076U	Cross stabilizer, 1076 mm (about 42-3/8 in) long, for cutting to size	1	Nickel (NI) or Eclipse black (ECS)

22Q080Z	Connecting piece set for the cross stabilizer, for wide cabinets	see the maker's instructions	
22.8000	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	1 set	Nickel (NI) or Onyx black (ONS)
20S4200A	Door hardware set for narrow aluminum frames	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	
22L6001	Frame mounting bracket set for a face frame cabinet	1 set, for a face frame cabinet	

From Blum AVENTOS catalog p.29, 31, 30, 64. Finishes and colors are your choice; the table names them as Blum prints them.

Option: the SERVO-DRIVE set for the HL top is 23.A000 with cover set 23.8000, and the SERVO-DRIVE guide lists 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 front fixing bracket	Marks the door plate positions. Blum's 2025 assembly aids brochure lists it for the HL top; the 2026 overview lists it for the HK top.
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 and the three cams.

From Blum AVENTOS overview p.1; Blum assembly aids brochure p.14; Blum AVENTOS catalog p.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, stabilizer and limits

The HL top has two picks. The mechanism follows the cabinet height alone. The lever set follows the cabinet height and the door weight in pounds and ounces. This guide counts the pull once, as CabDesign does, so weigh the finished door with its pull fitted.

Cross stabilizer 22Q1076U, cut to size

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Cut length = LW - 113
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LW is the inside cabinet width, in millimeters.

From Blum AVENTOS catalog p.31.

Pieces cut with the connecting piece set 22Q080Z

`Cut length = LW / 2 - 105`
LW is the inside cabinet width, in millimeters.

From Blum AVENTOS catalog p.31.

The widest cabinet one 22Q1076U can span (arithmetic from Blum's printed length and cut formula)

`1076 + 113 = 1189`
A single 22Q1076U cut to LW - 113 is long enough while the inside width LW is 1189 mm (about 46-25/32 in) or less. For a wider cabinet, see the maker's instructions for the number of rods.

From Blum AVENTOS catalog p.31.

Door plate position from the top edge of the door

`Z = 113 + FAo, 153 + FAo, 203 + FAo or 256 + FAo, by lever set`
FAo is the upper door overlay, in millimeters. The first hole of the plate is Z below the top edge of the door, and three more follow at 32 mm (about 1-1/4 in) steps. The table below gives Z for each lever set.

From Blum AVENTOS catalog p.33.

Lift Sets by Cabinet Height

Part Number	System Screw Set	Cabinet Height
22L2200	22L2210	300 mm (about 11-13/16 in) to 389 mm (about 15-5/16 in)
22L2500	22L2510	390 mm (about 15-11/32 in) to 580 mm (about 22-27/32 in)

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.29.

Lever Sets by Cabinet Height and Door Weight

Part Number	Cabinet Height	Door Weight	Door Plate Z
22L3200	300 mm (about 11-13/16 in) to 339 mm (about 13-11/32 in)	3 lb 5 oz to 19 lb 13 oz	113 + FAo
22L3500	340 mm (about 13-3/8 in) to 389 mm (about 15-5/16 in)	3 lb 14 oz to 22 lb 1 oz	153 + FAo
22L3800	390 mm (about 15-11/32 in) to 540 mm (about 21-1/4 in)	4 lb 6 oz to 27 lb 0 oz	203 + FAo
22L3900	480 mm (about 18-29/32 in) to 580 mm (about 22-27/32 in)	5 lb 8 oz to 30 lb 14 oz	256 + FAo

Z is in millimeters. Two lever rows can hold the same height and weight: see Blum's HL top sheet, and do a trial application. From Blum AVENTOS catalog p.29, 33.

The cross stabilizer connecting piece set 22Q080Z: Blum's catalog recommends it from an inside cabinet width LW of 1190 mm (about 46-27/32 in) or a cabinet width KB of 1228 mm (about 48-11/32 in). Blum's program overview calls it required above a cabinet width of 1228 mm (about 48-11/32 in), so fit it there.

One 22Q1076U cut to LW - 113 spans an inside width of up to 1189, which is the width just before Blum's recommendation starts, so do not read the connecting set as optional at that width.

Worked example. A cabinet 450 mm (about 17-23/32 in) high, 36 in wide, with 19 mm (about 3/4 in) sides

The door weighs 12 lb and the pull weighs 0.3 lb, and the pull counts once.

1. Door weight with the pull = 12 + 0.3 = 12.3 lb, which is 12 lb 5 oz to the nearest ounce

2. Mechanism: the cabinet height of 450 mm (about 17-23/32 in) falls in the range 390 mm (about 15-11/32 in) to 580 mm (about 22-27/32 in), so 22L2500 (22L2200 stops at 389 mm (about 15-5/16 in))

3. Lever set: 22L3800 holds 390 mm (about 15-11/32 in) to 540 mm (about 21-1/4 in) and 4 lb 6 oz to 27 lb 0 oz, and 22L3900 starts at 480 mm (about 18-29/32 in), above this cabinet, so 22L3800

4. Inside width LW = 36 in - 2 x 19 mm (about 3/4 in) = 914.4 mm (36 in) - 38 mm (about 1-1/2 in) = 876.4 mm (about 34-1/2 in)

5. Stabilizer cut = LW - 113 = 876.4 - 113 = 763.4 mm (about 30-1/16 in)

Order lift set 22L2500, lever set 22L3800, door hardware set 20S4200 and cross stabilizer 22Q1076U cut to 763.4 mm (about 30-1/16 in).

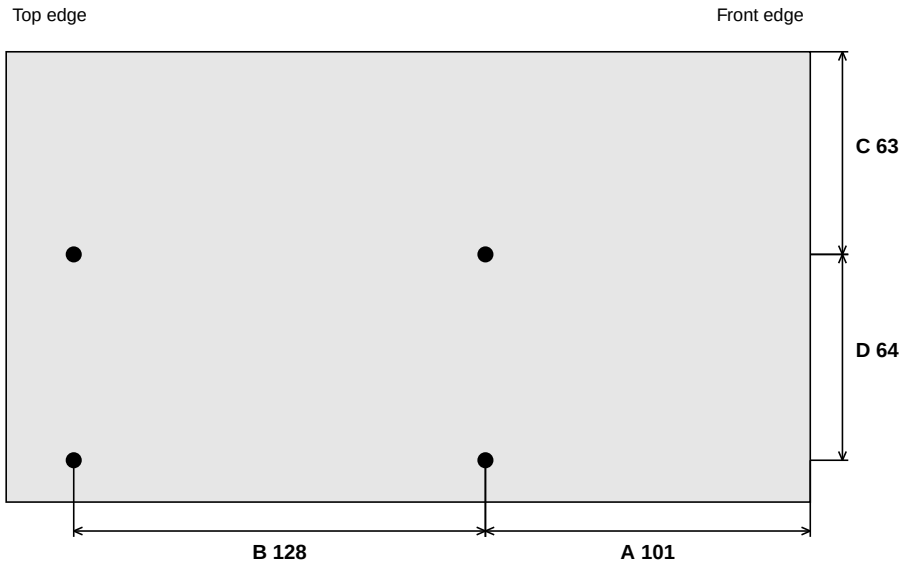
The inside width is below 1190, so one stabilizer spans the cabinet.

From Blum AVENTOS catalog p.29, 31.

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.

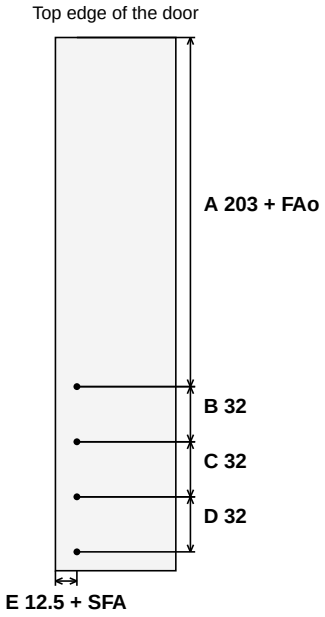
System screw holes in the cabinet side



Drawn by CabDesign after Blum AVENTOS catalog cme106254, p.33. Four holes, Ø5 mm (about 3/16 in) and at least 11.5 mm (about 15/32 in) deep, measured from the front edge back and down from the underside of the top panel (the inside top). 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	101 mm	about 3-31/32 in	Front edge to the first column of holes
B	128 mm	about 5-1/32 in	First column of holes to the second
C	63 mm	about 2-15/32 in	Top edge down to the first row of holes
D	64 mm	about 2-17/32 in	First row of holes to the second

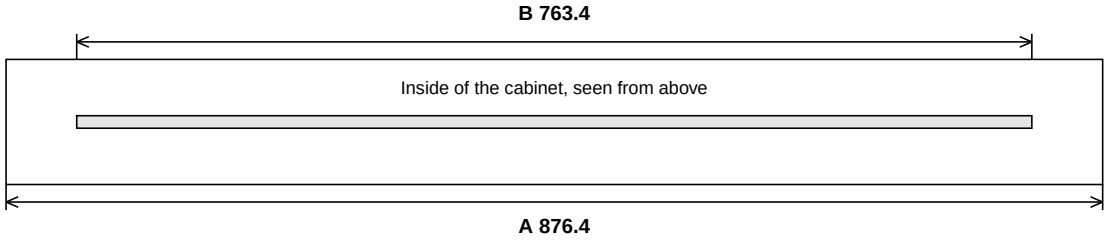
Door plate screw holes for lever set 22L3800



Drawn by CabDesign after Blum AVENTOS catalog cme106254, p.33, for wooden doors and wide aluminum frames and for lever set 22L3800, with the upper overlay FAo and the side overlay SFA drawn as zero. The other lever sets move the first hole to their own Z in the table. Narrow aluminum frames use a different pattern: use door hardware set 20S4200A and follow Blum's page 33.

Letter	Figure	In Inches	What It Measures
A	203 mm + FAo	about 8 in + FAo	Top edge of the door to the first hole, plus the upper door overlay (Z)
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

The cross stabilizer cut for the worked example



Drawn by CabDesign after Blum AVENTOS catalog cme106254, p.31, for the worked example: 36 in less two 19 mm (about 3/4 in) sides gives the inside width LW. The rod is cut to LW - 113.

Letter	Figure	In Inches	What It Measures
A	876.4 mm	about 34-1/2 in	Inside cabinet width LW in the example
B	763.4 mm	about 30-1/16 in	Cross stabilizer cut length, LW - 113

Steps, in order

1. Pick the mechanism and the lever set. Choose the lift set by cabinet height, then the lever set by cabinet height and the finished door's weight. If two lever rows hold your height and weight, see Blum's HL top sheet.

2. Cut the cross stabilizer. Cut the 22Q1076U to LW - 113, where LW is the inside cabinet width. From an inside width of 1190 mm (about 46-27/32 in), fit the connecting piece set 22Q080Z too, as Blum recommends.

3. 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 Ø4 x 35. With the system-screw set, drill the four Ø5 mm (about 3/16 in) holes first, at the positions in the drawing.

4. Fit the cross stabilizer. Fit the cut stabilizer between the two mechanisms before you close the door.

5. Fit the door plates. Fix the mounting plates to the back of the door at the positions in the door drawing, with Z from the table for your lever set, then three steps of 32 mm (about 1-1/4 in), and 12.5 mm (about 1/2 in) plus the side overlay in from the side edge.

6. Hang the door. Hang the door on the lever arms as Blum's pictured steps show.

7. Balance the door. Adjust the tension with a screw gun and a T20 TORX bit until the door balances.

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

9. Snap on the caps. Snap on the cover caps of set 22.8000.

Check before you finish

- Both mechanisms are flush with the front and every wood screw is in.

- The cross stabilizer is cut to LW - 113 and sits between the mechanisms, and the connecting set is fitted from an inside width of 1190 mm (about 46-27/32 in).

- The door balances, and both mechanisms have the same tension.

- 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.

- No cross stabilizer. Blum's overview lists the cross stabilizer as required on the HL top.

- Cutting the stabilizer to the cabinet width. The cut is LW - 113, and LW is the inside cabinet width, not the overall width KB.

- Skipping the connecting set in a wide cabinet. Blum recommends it from an inside width of 1190 mm (about 46-27/32 in) or a cabinet width of 1228 mm (about 48-11/32 in), and its overview calls it required above 1228 mm (about 48-11/32 in).

- The wrong lever set for the height and weight. Read the lever table by cabinet height and by door weight in pounds and ounces; two rows can both hold a cabinet height.

From Blum AVENTOS catalog p.62, 31, 29; Blum AVENTOS overview p.1, 2.

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 number of stabilizer rods and connecting sets for a very wide cabinet.

Frequently asked questions

How do I pick an AVENTOS HL top lift?

Choose the mechanism by cabinet height: 22L2200 for 300 mm (about 11-13/16 in) to 389 mm (about 15-5/16 in) and 22L2500 for 390 mm (about 15-11/32 in) to 580 mm (about 22-27/32 in). Then choose the lever set by cabinet height and door weight: 22L3200, 22L3500, 22L3800 or 22L3900.

How long is the HL top cross stabilizer?

Cut the 22Q1076U to LW - 113, where LW is the inside cabinet width. The rod is 1076 mm (about 42-3/8 in) long before cutting.

When does an HL top need the connecting piece set?

Blum's catalog recommends connecting piece set 22Q080Z from an inside cabinet width of 1190 mm (about 46-27/32 in) or a cabinet width of 1228 mm (about 48-11/32 in), and Blum's overview calls it required above a cabinet width of 1228 mm (about 48-11/32 in).

What depth does an AVENTOS HL top need?

An inside depth of at least 264 mm (about 10-13/32 in).

Do I need to pre-drill the cabinet side for an HL 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.

Does the HL top take SERVO-DRIVE?

Yes. See the SERVO-DRIVE guide for the parts and holes.

How CabDesign picks and sizes this

CabDesign sizes a lift-up front on the AVENTOS HL top from the same printed Blum tables used in this guide. It reads the cabinet height, the door weight and the carcass width, counts the pull once, picks the lift set and the lever set, works out the cross stabilizer cut, and puts their 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 Install a Blum AVENTOS HS Top Up-and-Over Lift: cabdesign.app/guides/doors-drawers-fronts/install-blum-aventos-hs-top

- How to Install a Blum AVENTOS HF Top Bi-Fold Lift: cabdesign.app/guides/doors-drawers-fronts/install-blum-aventos-hf-top

- How to Add Blum SERVO-DRIVE to an AVENTOS Lift: cabdesign.app/guides/doors-drawers-fronts/install-blum-servo-drive-aventos

- How to Install a Blum AVENTOS HK Top Stay Lift: cabdesign.app/guides/doors-drawers-fronts/install-blum-aventos-hk-top

- 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, and the connecting set)
- Blum assembly aids brochure cme205127, blum.com/file/cme205127_ep_dok_bus (the front marking template)
- Blum AVENTOS HL top installation and adjustment instructions, blum.com/hltopassembly (the pictured assembly steps)

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-hl-top