Blum Aventos HS top User Guide.



Introduction

Overview

- The 'Blum Aventos HS top Package' from Solid Setup Plus adds the Blum Aventos HS top door Lift system to Cabinet Vision and optional SERVO-DRIVE.
- It provides drilling for the Cabinet and Door parts, for CNC output.
- *(You can change the drilling diameters and depths to the tools you want to use.)*
- It also adds 3d graphics for the Mechanisms and brackets etc.
- Mechanisms and brackets etc are added as a separate parts and materials for reporting purposes.
- All materials for ordering contain the Blum order number in the SKU and material description.
- UCS calculates weight of Door by using the density of board and handle weight.
- User can adjust density, handle weight or Total weight using attributes.
- The Total weight determines which Lift Mechanism to use, and how many arms are required, automatically.
- If three arms are required, user can swap the odd arm left to right with an attribute.
- If three or four arms are required, the centre arms will link to a partition if there is one present.
- Door can be displayed in an open position
- For Frameless or 32mm cabinets only – not suitable for Face Frame Cabinets

Included in This Package

User Created Standards

The Following UCSs are provided

- { DOOR } -- Blum Aventos HS top Attributes -Adds Blum Aventos HS top Attributes to DOR
- { DOOR } -- Blum Aventos HS top top -Adds Blum Aventos HS top to DOR_OPEN

Miscellaneous Materials:

Name	Description
Aventos HS top Arm 3500	Aventos HS top Arm 3500 Model
Aventos HS top Arm Set 3500	Aventos HS top Arm Set #22S3500
Aventos HS top Mech Pre Mounted	Aventos HS Mech Model Pre Mounted
Aventos HS top Mech Screwon	Aventos HS Mech Model Screwon
Aventos HS top Mech Set 2200	Aventos HS Mech Screwon #22S2200
Aventos HS top Mech Set 2210	Aventos HS Mech Pre Mounted #22S2210
Aventos HS top Mech Set 2500	Aventos HS Mech Screwon #22S2500
Aventos HS top Mech Set 2510	Aventos HS Mech Pre Mounted #22S2510
Aventos HS top Mech Set 2800	Aventos HS Mech Screwon #22S2800
Aventos HS top Mech Set 2810	Aventos HS Mech Pre Mounted #22S2810
Aventos Front Brkt EXPANDO	Aventos Front Bracket Wood EXPANDO #20S42E1
Aventos Front Brkt EXPANDO T	Aventos Front Bracket Wood EXPANDO Thin #20S42T1
Aventos Front Brkt Narrow Alu	Aventos Front Bracket Narrow Alu #20S4200A
Aventos Front Brkt Screwon	Aventos Front Bracket Wood or Wide Alu #20S4200
Aventos HF.HS.HL top Cover Dk Grey	Aventos HF.HS.HL top Cover Model Dk Grey
Aventos HF.HS.HL top Cover Lt Grey	Aventos HF.HS.HL top Cover Model Lt Grey
Aventos HF.HS.HL top Cover S White	Aventos HF.HS.HL top Cover Model S White
Aventos HF.HS.HL top Cover Servo Dk Grey	Aventos HF.HS.HL top Cover SERVO Model Dk Grey
Aventos HF.HS.HL top Cover Servo Lt Grey	Aventos HF.HS.HL top Cover SERVO Model Lt Grey
Aventos HF.HS.HL top Cover Servo S White	Aventos HF.HS.HL top Cover SERVO Model S White
Aventos HF.HS.HL top Cover Set Dk Grey	Aventos HF.HS.HL top Cover Set #22.8000.TGR
Aventos HF.HS.HL top Cover Set Lt Grey	Aventos HF.HS.HL top Cover Set #22.8000.HGR
Aventos HF.HS.HL top Cover Set S White	Aventos HF.HS.HL top Cover Set #22.8000.SW
Aventos HF.HS.HL top Cover Set Servo Dk Grey	Aventos HF.HS.HL top Cover Set SERVO #23.8000.TGR
Aventos HF.HS.HL top Cover Set Servo Lt Grey	Aventos HF.HS.HL top Cover Set SERVO #23.8000.HGR
Aventos HF.HS.HL top Cover Set Servo S White	Aventos HF.HS.HL top Cover Set SERVO #23.8000.SW
Aventos Servo Bumper Dk Grey	Aventos Servo Bumper Dk Grey
Aventos Servo Bumper Lt Grey	Aventos Servo Bumper Lt Grey
Aventos Servo Bumper S.White	Aventos Servo Bumper Silk White
Aventos Servo Drive Set 23.A000	Aventos Servo Drive Set #23.A000
Aventos Servo Drive Switch Dk Grey	Aventos Servo Drive Switch.TGR
Aventos Servo Drive Switch Lt Grey	Aventos Servo Drive Switch.HGR
Aventos Servo Drive Switch S.White	Aventos Servo Drive Switch.SW

Aventos HS top Usage

Door Requirements.

For the Aventos HS top to appear on a door the following conditions must be met

- Door must be hinged at top.
- Door must have its hinge quantity set to zero.
- Door height **must** be in size range **350-800 High** and door must be **260-1800 Wide**
- The **"Aventos HS top?"** Attribute will then appear on the Door to switch on Aventos HS.
- (You must be in the orthographic or "Smiley" views to click on the door and see the attributes)

Attributes

- If the **"AVENTOS HS top?"** attribute is changed to "**Pre-Mounted**" or "**Screwon**" the following attributes will appear on the Door, along with the Aventos Mechanisms and Arms.
- **NOTE: - If the Door is not within the above size ranges, or is too heavy for any Mechanism the Aventos HS top parts will not be added to the Door!**

Aventos HS TOP ?	Pre-Mounted
Aventos HS TOP Bracket	Screwon
Aventos HS TOP Colour	Light Grey
Aventos HS TOP Dor Kg/m3	800
Aventos HS TOP Dor Kg	6.03
Aventos HS TOP Dor Pull gm	200
Aventos HS TOP Dor Total Kg	6.43
Aventos HS TOP Open?	False
Aventos HS TOP Pos Cen L	0
Aventos HS TOP Pos Cen R	16
Aventos HS TOP Pos In/Out	0
Aventos HS TOP Pos Lh	16
Aventos HS TOP Pos Rh	16
Aventos HS TOP Pos Top	16
Aventos HS TOP Servo	False
Aventos HS TOP Swap Sides?	False



- **AVENTOS HS top Bracket?** -Changes the Front Brackets:
  1. Screwon = Screwon front brackets (5mm Dia x 3mm Deep)
  2. Expando = Expando front brackets (10mm Dia x 13mm Deep)
  3. Expando Thin = Expando front brackets for Thin Fronts (10mm Dia x 6mm Deep)
  4. Narrow ALU = Aluminium Narrow Frame Door (No Drilling)
- **AVENTOS HS top Colour?** -Changes the Cover Cap Colour **(Light Grey, Silk White, Dark Grey)**
- **AVENTOS HS top Dor Kg/m3** This value is the density of the door measured in kilograms per cubic meter and is used to calculate the weight of the door – ***change this to the density of the board you are using if known (If you are using MDF its density varies between 680 and 830 Kg/m3)***
- **AVENTOS HS top Dor Kg** -This is the weight of the door as calculated by the **density** value **you** entered multiplied by the door size and thickness. – ***(If you already know the door weight you can change this value rather than using the density calculated weight.)***
- **AVENTOS HS top Dor Pull gm** -This value is the weight of the handle in grams and is used to calculate the total weight of the door plus 2x handle – ***(change this to the total weight of the handle(s) you are using.)***
- **AVENTOS HS top Dors Total Kg** -This is the total weight of the door and 2x handle weight added together and is used to select the correct Lift Mechanism ***(If you already know the total door weight plus 2x handle weight you can change this value rather than using the density calculated weight.)***

- **AVENTOS HS top Open?** -Shows the door in the open position.
- **AVENTOS HS top Pos Lh** -Can be used to move the x position of the left Arm.
- **AVENTOS HS top Pos Rh** -Can be used to move the x position of the right Arm.
- **AVENTOS HS top Pos Top** - Can be used to move the whole unit up/down **if required**
- **AVENTOS HS top Pos In/Out** -Can be used to move the in/out position **only if required**.
- **AVENTOS HS top Swap Sides?** -You can swap the odd arm from left to right for when there are 3 arms.

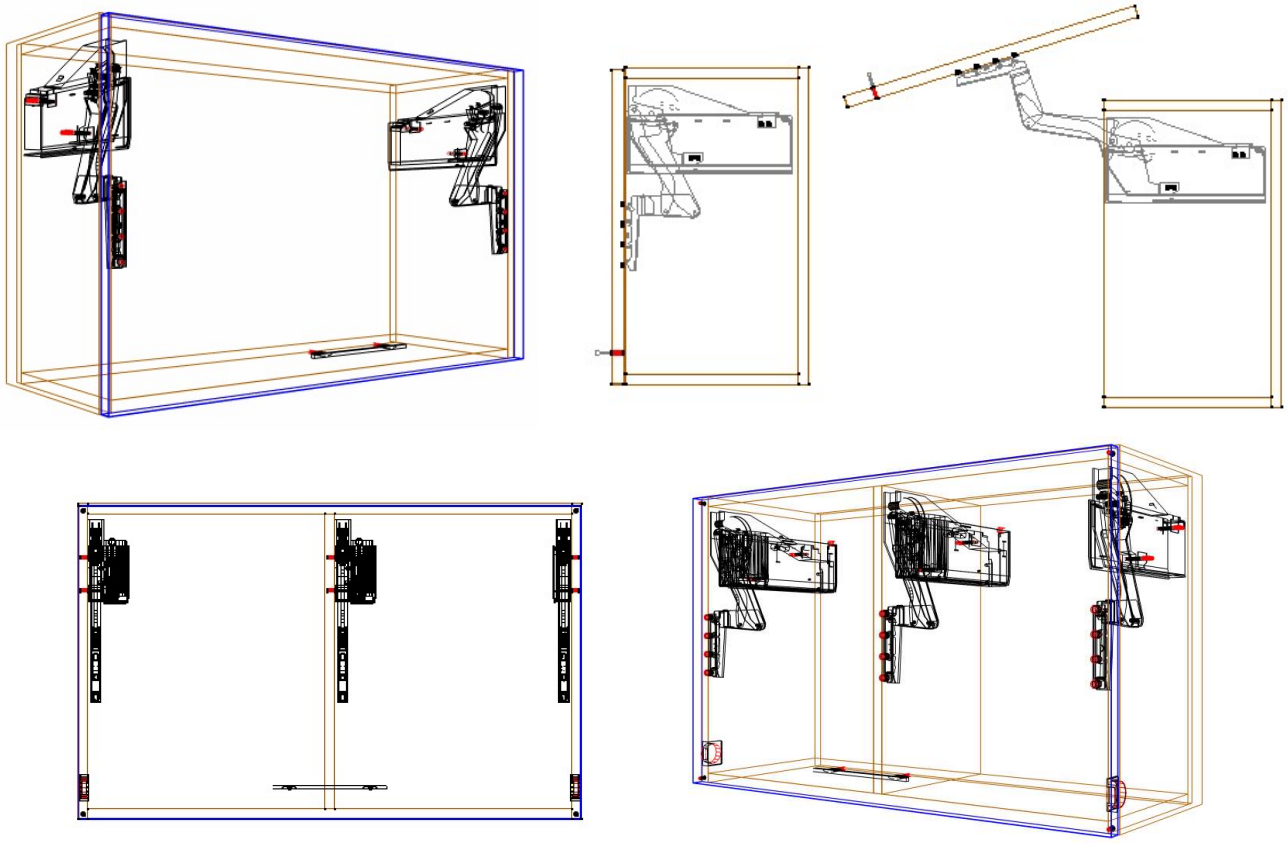
Servo Attributes

- **AVENTOS HS top Servo** -Turns on Servo Drive and following 4 attributes.
- **AVENTOS HS top Servo Bck Dia** -Changes Servo Back Hole diameter – set to 0 to delete hole.
- **AVENTOS HS top Bumpers** -Turns off bumpers if not required.
- **AVENTOS HS top Bump Bot** -Can be used to move the bottom 2 bumpers up if base is scribed up etc.
- **AVENTOS HS top Switch Pos** -Can be used to move the servo switches up or down.
- **Colours will match mech color selection**

The following tables show which Lift Mechanism is used, for different door heights and weights:

Door Height		Door Weight	Lift Mechanism	Lift Mechanism
Blum Values	Used Values	FG KG	Pre-Mounted	Screwon
350 - 450	350 - 450	2.00 - 11.50	22S2210	22S2200
450 - 540	450 - 480	2.50 - 12.50		
480 - 660	480 - 650	2.75 - 15.25	22S2510	22S2500
650 - 800	650 - 800	3.50 - 18.50	22S2810	22S2800

Some Example Images:



Drilling Setup

UCS Public Variables

- To change these variables go to the Utilities – Edit User Created Standards from the Room Plan or Elevation views

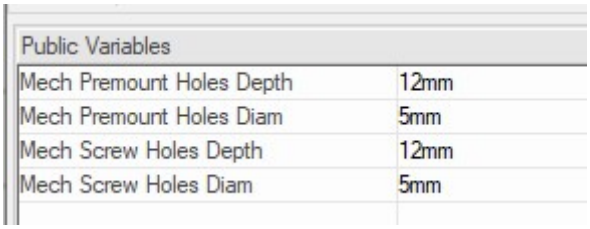


- Then click on the **"{ DOOR } -- Blum Aventos HS top Attributes"** UCS. The Public Variables are at the top right of the screen.



- **Metric?** If you are using **imperial** units, the variable must be set to **zero** but if you are using **metric** units, it must be set to **1.**
- **Servo Switch Position** This sets the default servo switch position from the bottom of the door.

- Now click on the **"{DOOR} -- Blum AVENTOS HS top"**UCS. Here we set the various drilling sizes.



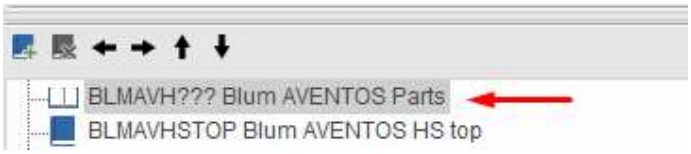
- Edit the values to the diameter and depths you require for the Pre-Mounted or Screwon Mech types.
- Please note the servo buffers drill at 5mm diameter and 11mm deep.

Once you have changed these values to your requirements, close the UCS editor.

Front Bracket Drilling – Hole sizes

There are material parameters on the front bracket materials to set the drilling diameter and depths

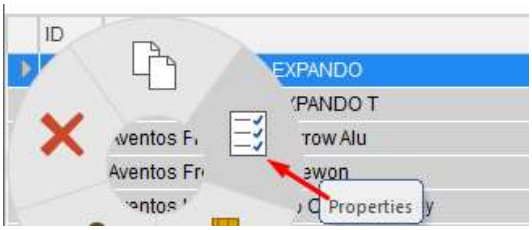
- In the Material Manager, find the **BLMAVH??? Blum AVENTOS Parts** folder:



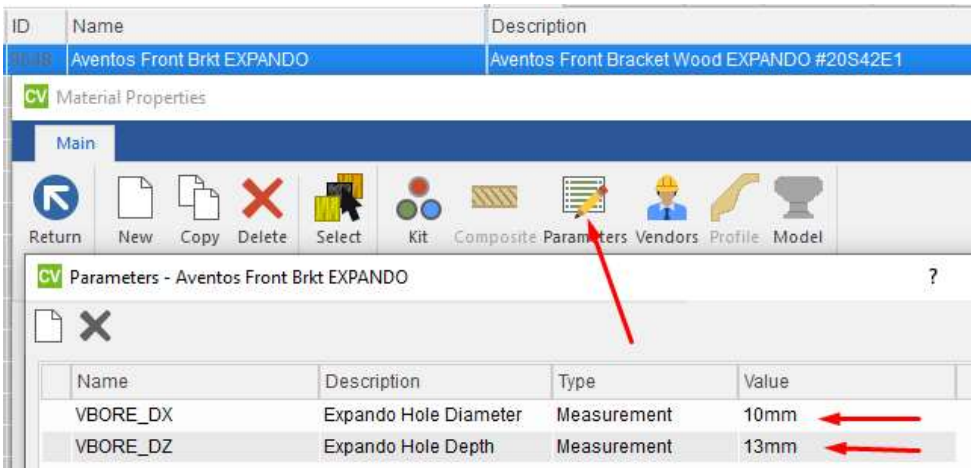
- This folder contains the following four Aventos Front Bracket materials:

Name	Description
Aventos Front Brkt EXPANDO	Aventos Front Bracket Wood EXPANDO #20S42E1
Aventos Front Brkt EXPANDO T	Aventos Front Bracket Wood EXPANDO Thin #20S42T1
Aventos Front Brkt Narrow Alu	Aventos Front Bracket Narrow Alu #20S4200A
Aventos Front Brkt Screwon	Aventos Front Bracket Wood or Wide Alu #20S4200

- For each material, right-click on it to select its properties.



- In the Properties click the Parameters Menu and change the parameters if required:



The hole sizes as provided are listed here:

- Aventos Front Brkt Screwon = Screwon front brackets (5mm Dia x 3mm Deep)
- Aventos Front Brkt EXPANDO = Expando front brackets (10mm Dia x 13mm Deep)
- Aventos Front Brkt EXPANDO T = Expando front brackets for Thin Fronts (10mm Dia x 6mm Deep)
- *Aventos Front Brkt Narrow Alu* = *Aluminium Narrow Frame Door (No Drilling)*

Tools Required

- The drill diameters you choose in the UCS User Definable Variables above are all required for this package to work. You must have these tool diameters in your tool catalog and in your machine.

Package Exclusions

There may be some items shown in various images contained in this document which are not included in this Package. Any items not specifically mentioned in this guide are part of our other packages which are sold separately.

See our website for more detailed information on these packages.