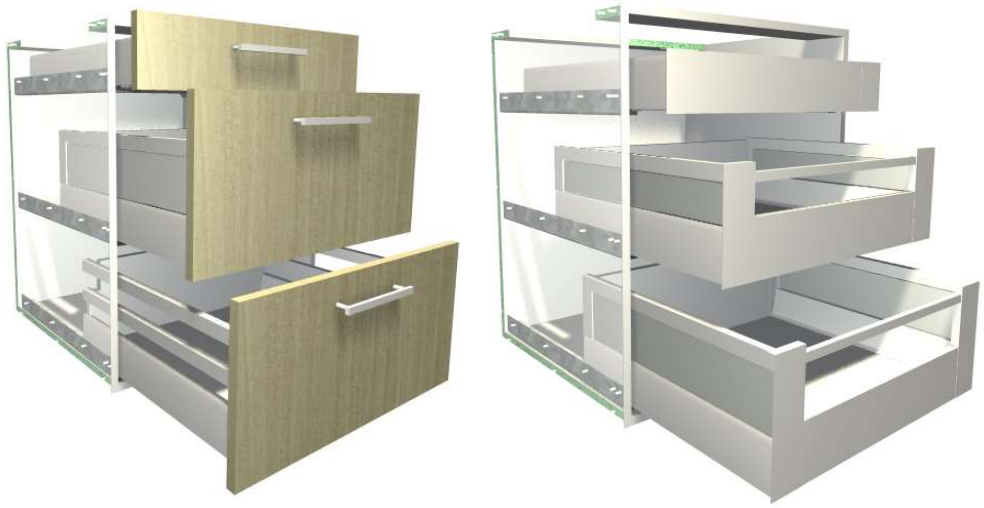
Blum TANDEMBOX User Guide.



Introduction

Overview

- The 'Blum TANDEMBOX Package' from Solid Setup Plus adds the Blum TANDEMBOX drawers to Cabinet Vision.
- It provides drilling for the drawer box parts, the cabinet ends and the drawer front for CNC output.
- It also adds 3d graphics for the drawer sides, runners, galleries and brackets etc.
- The runners and brackets etc. are added as separate parts and materials for reporting purposes.
- All material descriptions contain the Blum order number after the # symbol.
- Silk White, Terra Black, Aluminium and Stainless Steel colours.
- Design Elements can be added via attribute for C & D-Height drawers.
- Double Gallery or K Profile option is available for D-Heights
- An additional Adjustable height gallery can be added to any drawer height if there is enough space.
- Inner drawer handles can be added or removed via attribute for **M or K Height Rollouts.**
- Two Rollouts for utilizing melamine or slab wooden fronts instead of metal fronts are provided.

Included in This Package

Drawer Guide Schedules International: included in package "BLMTBOX(INT) Vxx Guides Rxx.pkg"

- "Blum TANDEMBOX WTE Bmtn 30K" TANDEMBOX White with Blummotion 30Kg guides.
- "Blum TANDEMBOX WTE Bmtn 65K" TANDEMBOX White with Blummotion 65Kg guides.
- "Blum TANDEMBOX WTE TiponBmn 30K" TANDEMBOX White with Tipon Blummotion 30Kg guides.
- "Blum TANDEMBOX WTE TiponBmn 65K" TANDEMBOX White with Tipon Blummotion 65Kg guides.
- Repeat for Terra Black, Stainless Steel and Aluminium Colours

Drawer Guide Schedules Australian: included in package "BLMTBOX(AU) Vxx Guides Rxx.pkg"

- "Blum TANDEMBOX(AU) WTE Bmtn 30K" TANDEMBOX White with Blummotion 30Kg guides.
- "Blum TANDEMBOX(AU) WTE Bmtn 65K" TANDEMBOX White with Blummotion 65Kg guides.
- "Blum TANDEMBOX(AU) WTE TiponBmn 30K" TANDEMBOX White with Tipon Blummotion 30Kg guides.
- "Blum TANDEMBOX(AU) WTE TiponBmn 65K" TANDEMBOX White with Tipon Blummotion 65Kg guides.

Drawer Guide Materials:

Colour	Colour	Colour	Colour	Type	Weight		Profile	Galleries	Back Hgt	270	300	350	400	450	500	550	600	650
SW	TS	RAL9006	Ssteel	Blumotion	30	N	68		69	n/a	n/a	n/a	400	450	500	550	n/a	n/a
SW	TS	RAL9006	Ssteel	Blumotion	30	M	83		84	270	300	350	400	450	500	550	n/a	n/a
SW	TS	RAL9006	n/a	Blumotion	30	K	115		116	270	300	350	400	450	500	550	n/a	n/a
SW	TS	RAL9006	Ssteel	Blumotion	30	B	83	Gallery	135	270	300	350	400	450	500	550	n/a	n/a
SW	TS	RAL9006	Ssteel	Blumotion	30	C	83	Gallery/Design Element	167	270	300	350	400	450	500	550	n/a	n/a
SW	TS	RAL9006	M only	Blumotion	30	D	83/115	1-2Gallery/Design Element	199	270	300	350	400	450	500	550	n/a	n/a
SW	TS	RAL9006	Ssteel	Blumotion	65	M	83		84	n/a	n/a	n/a	n/a	450	500	550	600	650
SW	TS	RAL9006	n/a	Blumotion	65	K	115		116	n/a	n/a	n/a	n/a	450	500	550	600	650
SW	TS	RAL9006	Ssteel	Blumotion	65	B	83	Gallery	135	n/a	n/a	n/a	n/a	450	500	550	600	650
SW	TS	RAL9006	Ssteel	Blumotion	65	C	83	Gallery/Design Element	167	n/a	n/a	n/a	n/a	450	500	550	600	650
SW	TS	RAL9006	M only	Blumotion	65	D	83/115	1-2Gallery/Design Element	199	n/a	n/a	n/a	n/a	450	500	550	600	650
SW	TS	RAL9006	Ssteel	TiponBmn	30	N	68		69	n/a	n/a	n/a	400	450	500	n/a	n/a	n/a
SW	TS	RAL9006	Ssteel	TiponBmn	30	M	83		84	270	300	350	400	450	500	n/a	n/a	n/a
SW	TS	RAL9006	n/a	TiponBmn	30	K	115		116	270	300	350	400	450	500	n/a	n/a	n/a
SW	TS	RAL9006	Ssteel	TiponBmn	30	B	83	Gallery	135	270	300	350	400	450	500	n/a	n/a	n/a
SW	TS	RAL9006	Ssteel	TiponBmn	30	C	83	Gallery/Design Element	167	270	300	350	400	450	500	n/a	n/a	n/a
SW	TS	RAL9006	Ssteel	TiponBmn	30	D	83/115	1-2Gallery/Design Element	199	270	300	350	400	450	500	n/a	n/a	n/a
SW	TS	RAL9006	Ssteel	TiponBmn	65	M	83		84	n/a	n/a	n/a	n/a	450	500	550	600	650
SW	TS	RAL9006	n/a	TiponBmn	65	K	115		116	n/a	n/a	n/a	n/a	450	500	550	600	650
SW	TS	RAL9006	Ssteel	TiponBmn	65	B	83	Gallery	135	n/a	n/a	n/a	n/a	450	500	550	600	650
SW	TS	RAL9006	Ssteel	TiponBmn	65	C	83	Gallery/Design Element	167	n/a	n/a	n/a	n/a	450	500	550	600	650
SW	TS	RAL9006	Ssteel	TiponBmn	65	D	83/115	1-2Gallery/Design Element	199	n/a	n/a	n/a	n/a	450	500	550	600	650

* Australian Drawer Guide schedules do not contain items marked in orange:

Black, Stainless and Aluminium colours
K-Heights
300,600 depths
650 depth for Tipon Blummotion 65kg

User Created Standards

The Following UCS's are provided (ensure they are in this order once installed):

- { DRAWS } -- Blum TBox Attributes — Adds Adj Gallery and Design Element etc Attributes to backs.
- { DRAWS } -- Blum TBox Hole Masking — Deletes unwanted holes from drawer fronts and drawer box backs.
- { DRAWS } -- Blum TBox Runners — Adds the drawer profiles and drawer guides
- { DRAWS } -- Blum TBox Brackets — Adds the drawer front and back brackets
- { DRAWS } -- Blum TBox Galleries — Adds the galleries and Design Elements
- { DRAWS } -- Blum TBox Rollout — Adds the rollout metal front, handle and cross gallery
- { DRAWS } -- Blum TBox Bot Holes — Adds the drawer bottom extra holes for the drawer profile mounting.

Drawer Boxes

The Following drawer box constructions are provided:

- Blum TANDEMBOX Drawer
- Blum TANDEMBOX Inner (Metal front Rollout)
- Blum TANDEMBOX Inner ROF (Melamine fronts using ROF part)
- Blum TANDEMBOX Inner SLAB HG (Drawer front using S_DSLAB part with Horizontal Grain)
- Blum TANDEMBOX Inner SLAB VG (Drawer front using S_DSLAB part with Vertical Grain)

NOTE: SLAB HG and SLAB VG are available in Version 26 onwards only

Room Attributes

The Following system attributes are provided:

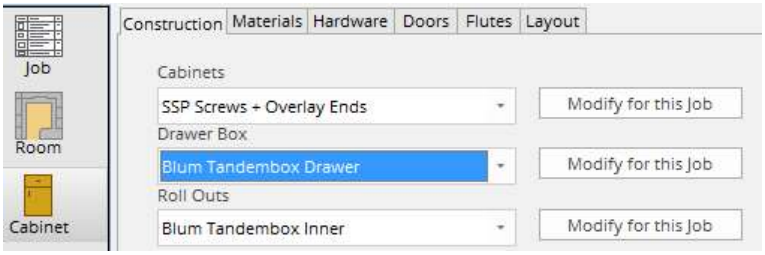
- S_Room_DFront_Screwon "Draw Front Screwon"

TANDEMBOX Usage

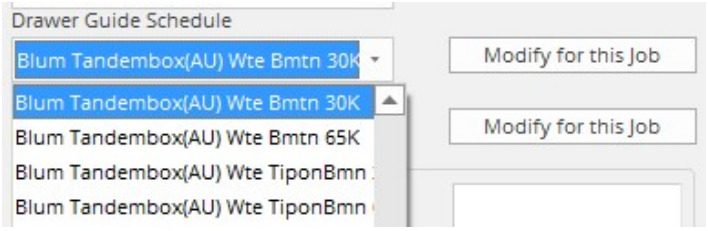
Menu Selections for a Job or Room.

To use the TANDEMBOX drawers in a job you must make the following selections:

- In the job or room properties the Cabinet Construction tab should have the **Drawer Box** set to "**Blum TANDEMBOX Drawer**" and the **Roll Outs** set to "**Blum TANDEMBOX Inner**" as shown here:



- In the Hardware tab, choose one of the Blum TANDEMBOX guide schedules:



- In the Materials tab, you can choose any of the Drawer Box or Roll Out schedules you have set up for other drawers as long as the materials selected are suitable for Blum TANDEMBOX.

Menu Selections for a Cabinet.

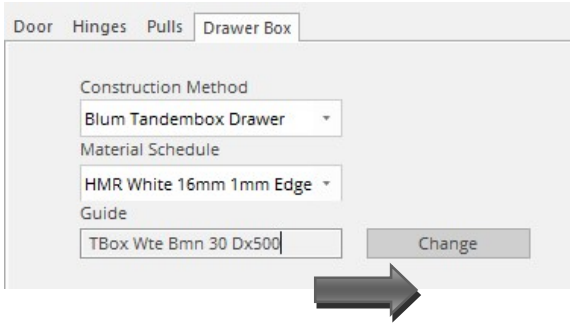
To use TANDEMBOX drawers in a cabinet when TANDEMBOX has **not** been selected in the room or job the Construction, Materials and Hardware tabs for the cabinet in question **must** be set to the same selections as above.

- To access those menus for one cabinet, take the cabinet into the cabinet editor, click on the section view, and select the Properties tab to find the menus.
- The Cabinet Construction tab should have the **Drawer Box** set to "**Blum TANDEMBOX Drawer**" and the **Roll Outs** set to "**Blum TANDEMBOX Inner**"
- In the Hardware tab, choose one of the Blum TANDEMBOX guide schedules.
- In the Materials tab, you can choose any of the Drawer Box or Roll Out schedules you have set up for other drawers as long as the materials selected are suitable for Blum TANDEMBOX.

Menu Selections for one Drawer/Rollout.

To use TANDEMBOX drawers for one drawer/rollout when TANDEMBOX has **not** been selected in the cabinet, or you wish to use a TANDEMBOX drawer/rollout from a different drawer guide schedule.

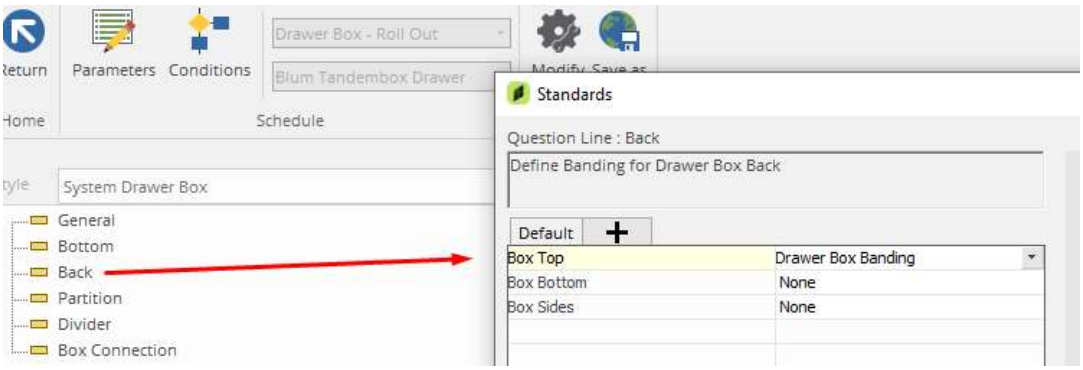
- Take the cabinet into the cabinet editor, click on the section view, and double click on the drawer/rollout to bring up its Properties menu, and then select the Drawer Box or Rollout Tray tab.
- The Construction tab should be set to "**Blum TANDEMBOX Drawer**" or "**Blum TANDEMBOX Inner**" if it is not already.
- To Change to a different guide type press the "**change**" button shown here:



- Use the "Search" tab and a keyword such as "TBox" to quickly find the guide you want rather than paging through materials..
- NOTE: To select the K Profile on a D-Height drawer – you can search for "TBox*dk*"

Drawer Box Banding Setup

- For the drawer and roll out backs to be banded correctly please run the Construction wizards for the backs in the "Blum TANDEMBOX Drawer" and "Blum TANDEMBOX Inner" construction methods:
-



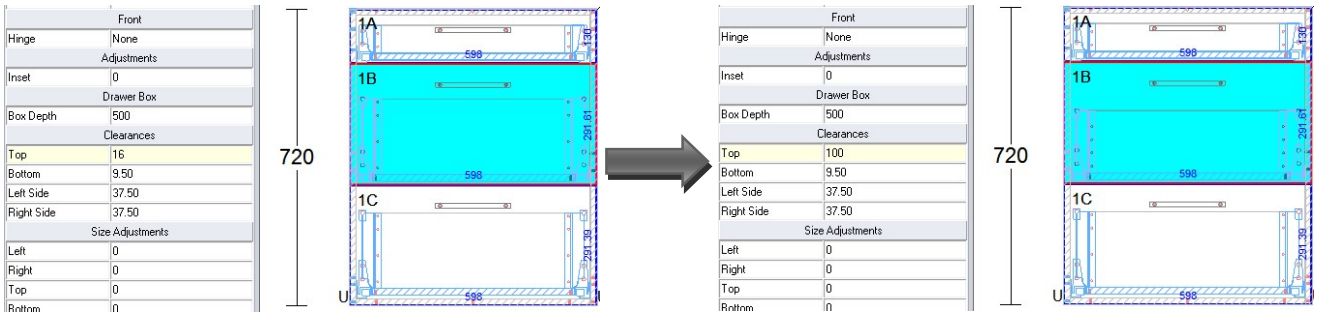
- The material schedules can be edited from the splash screen under the "Main" tab

Drawer Boxes

Drawer Box Height Control

When a drawer is first added to a cabinet, Cabinet Vision will always choose the tallest drawer that will fit from the drawer guide schedule, based on the available space.

- The space is determined by the distance between any cabinet or internal parts directly behind the drawer front, minus the drawer guide material top and bottom clearances.
- To select a smaller drawer height, click on the drawer front in the section view.
- Increase the "Top Clearance" in the sidebar until the drawer height you require appears, like this:

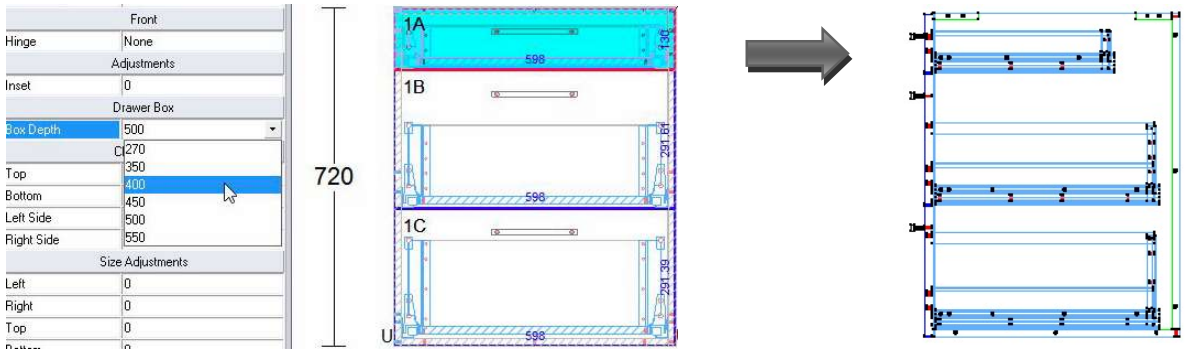


- **NOTE:** *If you are using a drawer leveling UCS (which moves the top drawer boxes up to match the bottom lip reference of the bottom drawer), this may cause those drawer boxes to interfere with an object above them, whether it be the next drawer front, the cabinets top or top stretcher or a drawer stretcher or some other part which would normally not be in the way.*
- *This occurs because the leveling UCS is applied **after** the drawer height selection has been calculated.*
- *To prevent this always check every drawer in the cabinet editor, (preferably with the graphics turned on so you can clearly see any part interference), and reduce the drawer box height using the "Top Clearance" as described above.*

Drawer Box Depth Control

When a drawer is first added to a cabinet, Cabinet Vision will always choose the deepest drawer that will fit from the drawer guide schedule, based on the available space.

- To select a smaller drawer box depth, click on the drawer front in the section view.
- Choose the "Box Depth" from the dropdown list in the sidebar as shown here:

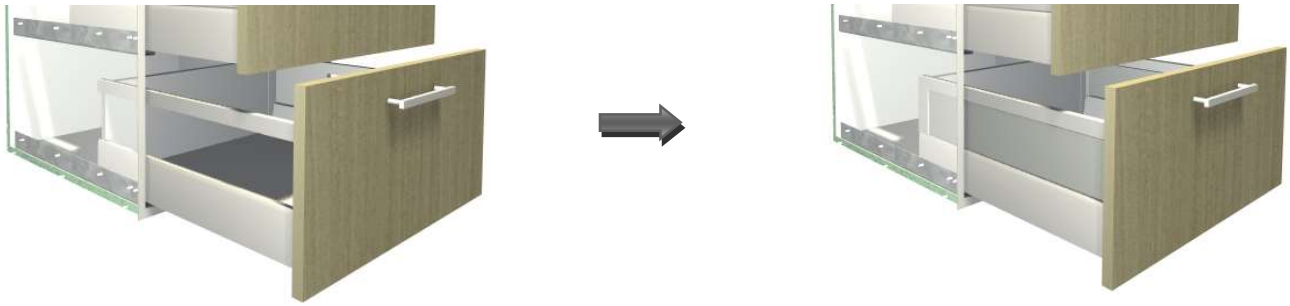


DESIGN ELEMENTS

The Blum TANDEMBOX DESIGN ELEMENTS can be added to any C or D-Height drawer or rollout.

- Click on the drawer or rollout back in an orthographic (smiley face) view of the cabinet editor.
- Change the "TANDEMBOX Des Element?" attribute in the left sidebar to "Glass" or "Metal".



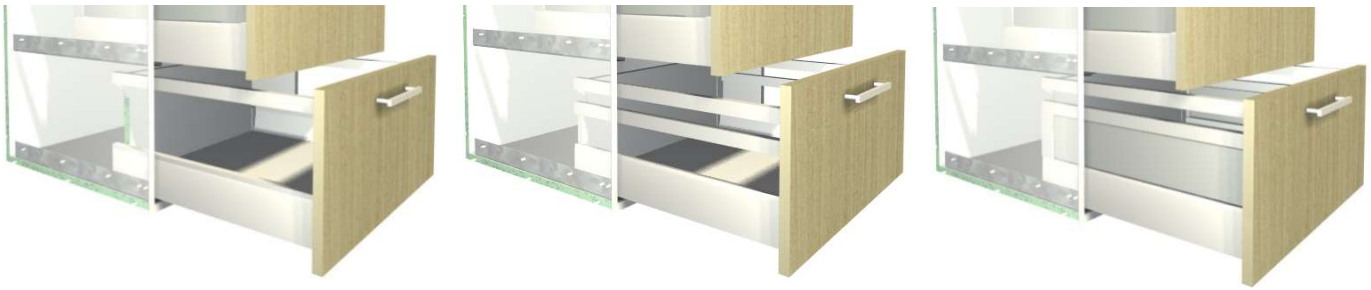


- A DESIGN ELEMENT will be added as shown.

Adjustable Gallery Option

Any height TANDEMBOX drawer can have another gallery added to it if there is enough space above:

- Click on the drawer back in an orthographic (smiley face) view of the cabinet editor.
- Tick the "**TANDEMBOX Adj Gallery?"** attribute in the left sidebar to "**True**".
- If there is enough space, the back will extend up by xxxmm and an extra gallery will be added.
- The "**TANDEMBOX Adj Height?**" attribute will appear allowing further adjustment in height.
-

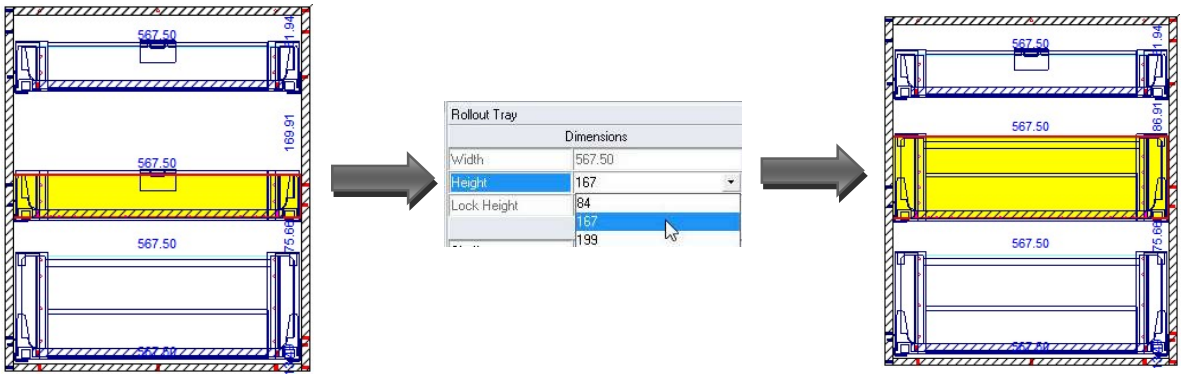


M-Height + Adj Gallery at 250mm **C-Height + Adj Gallery** **D-Height + adj gallery**

Rollouts

Rollout Height Control

- To add a rollout in the section interior view of the cabinet editor, add a "Split Horz" and then select it and change it to a "Rollout Tray" in the left sidebar. Or use the "Split Multi Horz" function and choose the "Roll-out Tray" button and then press OK.
- When a rollout is first added to a cabinet, Cabinet Vision will choose the height based on the tallest rollout that will fit from the drawer guide schedule, based on the available space.
- To select a different rollout height, click on the rollout in the section interior view and use the sidebar.
- Choose the height from the dropdown box provided as shown here:



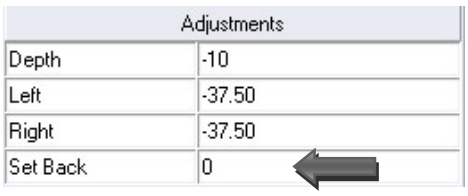
- **NOTE:** *The actual heights of the inner drawer are slightly more than the above measurements due to the taller front brackets etc. This may cause the inner drawers to interfere with each other or another cabinet part.*
- *To prevent this always check every rollout in the cabinet editor, (preferably with the graphics turned on so you can clearly see any part interference), and reduce the rollout box height using the method described above.*

Rollout Depth Control

- When a rollout is first added to a cabinet, Cabinet Vision will always choose the deepest rollout that will fit from the drawer guide schedule, based on the available space.
- To select a smaller rollout depth, click on the rollout in the section interior view.
- Increase the negative "**Depth**" adjustment in the sidebar until the size required is selected.

Rollout Setback

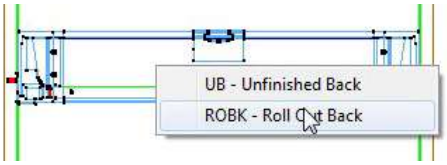
- By default we have set all the rollouts back by 9mm compared to a drawer.
- This is enough for the front brackets of the rollout drawer to clear the door.
- To change the default value Refer to the "**Drilling Setup**" section below
- To adjust the setback of each rollout individually, use the "**Set Back**" setting under "**Adjustments**", in the section view:

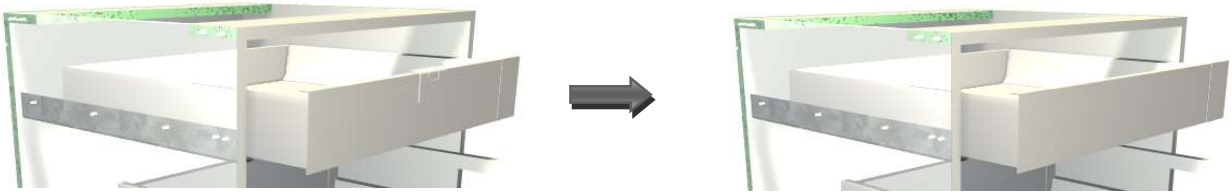


M or K Height Inner Drawer Handle

The Blum Inner Drawer Handle can be removed from any M or K-Height rollout. (It is **on** by default)

- Click on the rollout back in an orthographic (smiley face) view of the cabinet editor.
- Tick the "**TANDEMBOX Inner Handle?**" attribute in the left sidebar to "**False**".





- The Inner Drawer Handle will be removed as shown.

Rollouts with wooden fronts (Blum TANDEMBOX Inner ROF)

- This Rollout type will not use the metal front piece, but will use a wooden front instead.
- The wooden front size and banding is set in the Roll Out Wizard – Roll Out Front
- Default overhangs are : Bottom 8mm , Sides 34.5mm (3mm from carcass), Top -10mm (10mm above sides)
- You can alter the wizard if you prefer different overhangs.
- The material for the wooden front and its edge banding are set in the Rollout Material Schedule

Rollouts with Slab fronts (Blum TANDEMBOX Inner SLAB HG & VG)

- This Rollout type will not use the metal front piece but will use a Door SLAB front instead.
- Choose from Horizontal or Vertical Grain (Version 26 onwards)
- The Slab front size is set in the Roll Out Wizard – Roll Out Front (Banding is locked at all 4 edges)
- Default overhangs are: Bottom 8mm , Sides 34.5mm (3mm from carcass), Top -10mm (10mm above sides)
- You can alter the assembly wizard if you prefer different top or side overhangs.
- The material for the Slab front and its edge banding are set in the Door Material Schedule

Drawer Fronts Screwon

Room Attribute

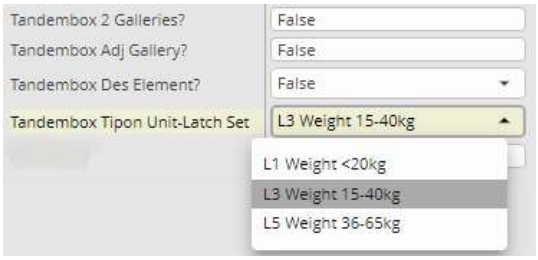
The "Draw Front Screwon" is a Room attribute which will change all the drawer front mounting holes to screw holes and change the front bracket material to the screw mount bracket for reports and ordering purposes.

TIPON BLUMMOTION UNIT AND LATCH SET SELECTION

Drawer Back Attribute

The Tipon Blummotion unit and latch set can be selected via attribute for report purposes

- Click on the drawer or rollout back in an orthographic (smiley face) view of the cabinet editor.
- Select the "TANDEMBOX Tipon Unit-Latch Set" attribute in the left sidebar



- For 270 or 300 deep drawers the default selection will be "S1 Weight 10-20kg"
- For lighter drawers you can select "S0 Weight <10kg" instead
- For 350 to 650 deep drawers the default selection will be "L3 Weight 15-40kg"
- For heavier drawers you can select "L5 Weight 36-65kg" instead
- For lighter drawers you can select "L1 Weight <20kg" instead
- However for 65kg runners the L1 selection defaults back to L3

Drilling Setup

UCS Public Variables

There are 16 Public Variables in the "**{ DRAWS } -- Blum TBox Attributes "** UCS.

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



- Then click on the **"{ DRAWS } -- Blum TBox Attributes"** UCS.
- On the top right hand side of the screen you will see the Public Variables list:

Public Variables	
Box Bottom Depth	12mm
Box Bottom DIAM	5mm
Front Knockin Depth	12mm
Front Knockin DIA	10mm
Front Screwon Depth	5mm
Front Screwon DIAM	3mm
Guide Cabinet Depth	12mm
Guide Cabinet DIA	5mm
Box Back Depth	12mm
Box Back DIAM	5mm
Tipon Support Bracket?	True
Tipon Synch Adapter?	True
Tipon Synch Linkage?	True
Tipon Synch Support?	True
Tipon Synch Support Depth	3mm
Tipon Synch Support DIAM	3mm

Each set of holes has a **diameter(DIAM)** and **depth** variable.

Box Bottom = Holes in the Drawer box or Rollout bottom for the drawer side profiles.
Front Knockin = Holes in the Drawer Front for drawer side brackets if Room Attribute "Draw Front Screwon" is False.
Front Screwon = Holes in the Drawer Front for drawer side brackets if Room Attribute "Draw Front Screwon" is True.
Guide Cabinet = Holes in the Cabinet for the Drawer or Rollout Guides.
Box Back = Holes in the Drawer box or Rollout back for the drawer side profiles.
Tipon Support Bracket? = Adds Tipon Blummotion support Bracket to the reports if cabinet 750 wide
Tipon Synch Adapter? = Adds Tipon Blummotion Synch Adapter to the reports if cabinet internal width over 287mm
Tipon Synch Linkage? = Adds Tipon Blummotion Synch Linkage to the reports if cabinet internal width over 287mm
Tipon Synch Support? = Adds Tipon Blummotion Synch Support to the reports and drills bottom if cabinet 750 wide
Tipon Synch Support Depth = Tipon Blummotion Synch Support drilling depth
Tipon Synch Support DIAM = Tipon Blummotion Synch Support drilling diameter

- If youre system is set to mm, Edit the values in mm to the diameter and depths you require.
- If youre system is set to inches, simply replace the whole **mm** with the imperial measurement instead.
- Eg: **3mm** might become **1/8**

Note: To turn off any of the holes if not required, like the box bottom holes for example, set the depth to zero.

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

Blums Drawer Bottom Drilling

WARNING: There is no documentation from Blum for the drawer box bottom drilling to mount the drawer profile to the drawer or rollout bottom.

We have measured the hole position ourselves but cannot guarantee that they will match the hardware you receive from your supplier.

Therefore you must measure them yourselves and adjust the following variables to suit your measurements for each depth of drawer you use.

- Click on the **"{ DRAWS } -- Blum TBox Bot Holes"** UCS.

- On the top right hand side of the screen you will see the Public Variables list.

Public Variables	
Bottom Holes 1	Imp(16)
Bottom Holes 2	Imp(173)
Bottom Holes 3 (350-550)	Imp(286)
Bottom Holes 4 (500-650)	Imp(432)
Bottom Holes 5 (600-650)	Imp(536)

Change the 5 values to suit the measurement you have taken. The values above will be applied to the drawer depths as per the following table:

	Hole Positions				
Depths	H1	H2	H3	H4	H5
270	16	173			
300	16	173			
350	16	173	286		
400	16	173	286		
450	16	173	286		
500	16	173	286	432	
550	16	173	286	432	
600	16	173		432	536
650	16	173		432	536

Vertical position of drawers

We have positioned the TANDEMBOX drawers 0.5mm higher than Blums recommended position to allow for variances in board thickness. We have achieved this by setting the “Minimum Bottom Clearance” in the drawer guide materials to 9.5mm instead of 9.0mm. This was done so that when your carcass material is slightly thicker than the value entered into cabinet vision, the bottom drawer guide position is less likely to interfere with the cabinets deck. If you are using a minipress to drill the drawer fronts you may need to add 0.5mm to the fence position (31 instead of 30.5). If you do not wish to have this allowance you must change all the drawer guide bottom clearances to 9mm in the material catalog, or if you prefer more tolerance you can increase the value, Be sure to also compensate for any changes on your minipress if required.

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

Some of the drawer drilling shown in various images contained in this document are not included in the Blum TANDEMBOX Visual Package, but come from other packages which are sold separately as listed here:

- **DRFMRK** Drawer Front Marker. Drills a 5mmx2mm marker under the front brackets top left hole to help identify the top and bottom of the drawer front during assembly.
- **DRBMRK** Drawer Back Marker. Drills a 5mmx2mm marker in the top of the back face of the drawer box back to help identify the top and bottom of the drawer back during banding and assembly.

Any other items shown in any images such as cabinet screw holes, plastic legs etc are also part of our other packages which are sold separately.

See our website for more detailed information on these packages.