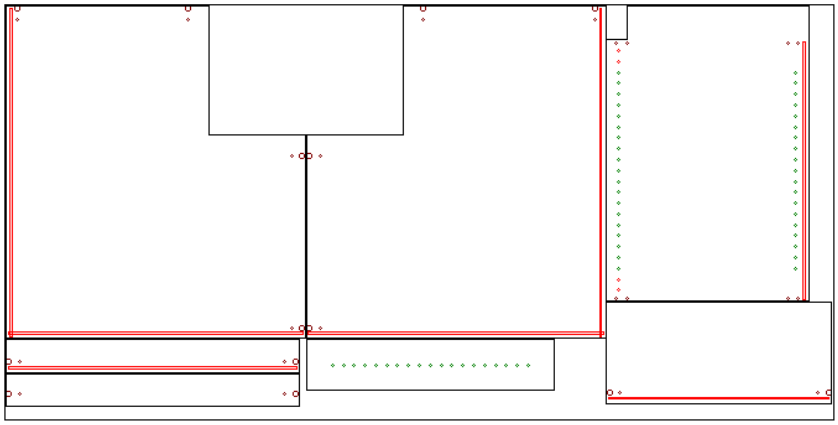
CutMaster Plan / Plus
Version 10.0.1.138

Example_part_list_2

19 - White MCP - 7 plans 8 sheets

Plan(Sheets)	Width	Length	Parts	Area sqM	waste
2(1)	1210	2430	7	2.71	7.7%



Item	Part	Width	Length	Cabinet	Description
1	80	881	978	04)	Top
4	138	862	97	07)	Top
7	75	730	150	04)	Corner Brace
2	74	881	978	04)	Bottom
5	136	862	97	07)	split top
3	156	597	868	08)	Right Side
6	186	662	297	11)	Top

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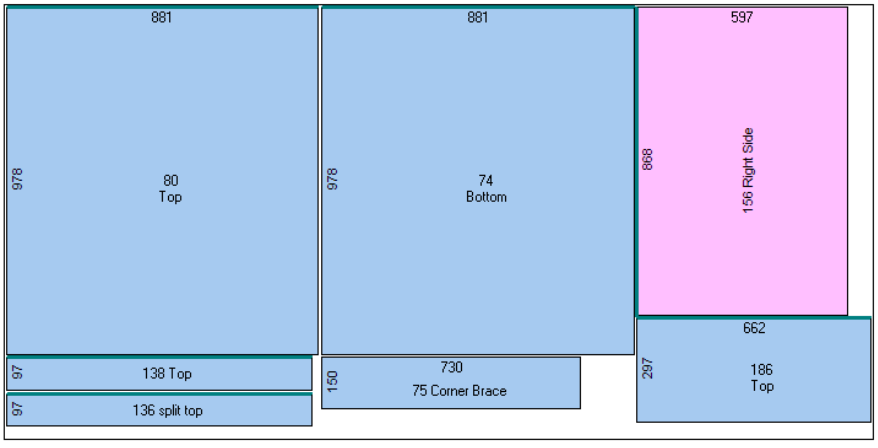

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Table of Contents

1 CutMaster Plus Features

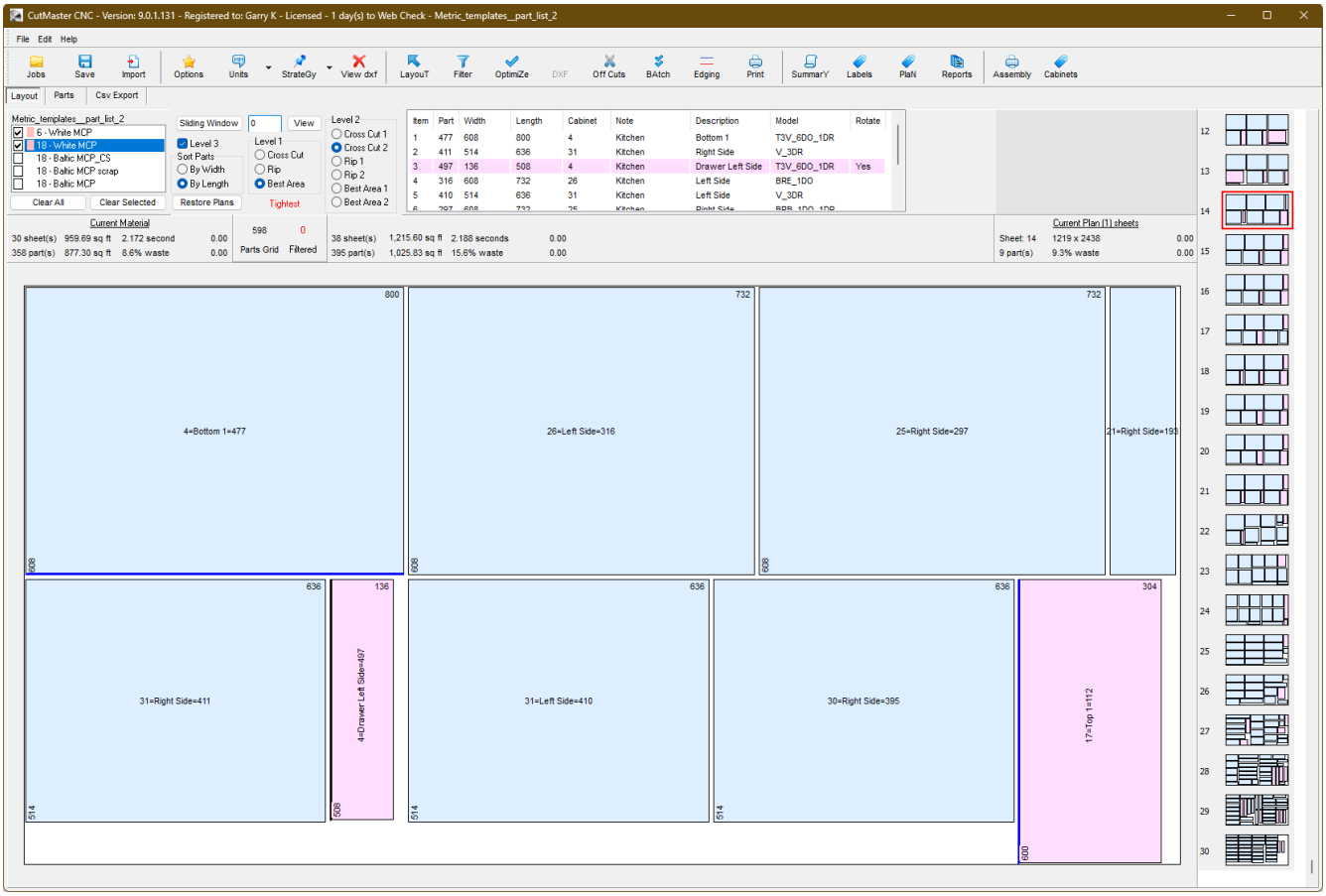
With CutMaster Plus you get:

1. Now supports commercial shelf standards – Plus version.
2. Assembly report – Plus version only.
3. Closet rod drilling in CutMaster - Plus version only.
4. Swap X and Y for vcarve etc – Plus version only.
5. Panel edging. Cut Plan view shows the edging type using color coding. So does the main layout area and also labels. There is an edging editor that is accesable with CutMaster Plus. You also get a banding report.
6. DXF output. You can create nested dxf files for the entire job with one click. CabMaker has a DXF button that will import these DXF files. This DXF import is different as it automatically puts a construction point at the pivot point for holes. This makes it much easier to test for accuracy.
7. Added Filtering to CutMaster - Plus version ONLY
8. DXF View. This toggles the Layout from Cut Plan to Dxf View. This also controls the Main Cutting report.
9. There is a joinery editor that is part of CutMaster Plus. This allows you to add additional parts and to to give them a panel type etc.
10. Added Short Code to parts.csv for DXF files. Now shows on Dxf View
11. The Cabinet Priority Optimizer is only available from CutMaster Plus version.
12. The Cabinet Priority report is only available from CutMaster Plus.

2 CutMaster

CutMaster has 2 main pages of information available directly from the main screen. These are the Layout and Parts pages.

CutMaster has 3 Parts editors and an Options editor. CutMaster Plus has an Edging Editor.



Added Short Code to parts.csv for View DXF.

There is also a menu available from the main screen. The menu performs various actions such as editing options, adding new jobs etc.

A row of buttons immediately below the main menu also performs the same actions as are in the menus.

Next are the two pages, the Layout page and the Parts page. The Layout page which is displayed here contains the results of the optimization.

3 Overview

CutMaster works with CabMaker Build sketchup plugin or as a stand alone program.

As a standalone program CutMaster stores its jobs in several SQLite tables. As an integrated solution CabMaker32 stores parts in a CSV file and calls CutMaster with the name of the CSV file for the current job. CutMaster then automatically imports the CSV file and displays a list of materials for that job.

CabMaster is an optimization program that uses various solutions to figure out the best way to cut sheets of material with the least amount of waste.

Please note that the optimizer normally optimizes all materials. There are two exceptions:

1. The Optimize button.
2. Changing the Strategy.

4 Buttons

Each button performs an action. For each button there is a menu item. The underlined letter signifies the hot key. Hold down the Alt key and press the underlined key.

In the options form you can un-check “Show Captions”.

Jobs Button

The Jobs button provides a list of saved jobs. Double click on a job or highlight a job and click “Jobs”. The hot key is Alt+J.

Save Button

The Save button stores the optimizer strategy for each material. Very helpful when on manual. The hot key is Alt+S.

Import Button

The Import button provides a list of CSV files. Double click on a CSV file or highlight a CSV file and click “Open”. The hot key is Alt+I.

Options Button

The Options button displays an options form containing a number of useful options. The hot key is Alt+O.

Units Button

The Units button changes the display and data entry units. The three choices are Millimeters, Inches fractions and inches decimal. The hot key is Alt+U.

StrateGy Button

The Strategy button provides four main settings for panel optimization. These are “Prefer Cross Cuts”, “Prefer Rips”, “Pack Tightest” and manual. The shortcuts for these are Alt 1, Alt 2, Alt 3 and Alt 4

Prefer Cross cuts attempts to cut the sheet across its width whereas Prefer Rips attempts to slice the sheet down its length. Pack Tightest checks each and every combination and uses the one which gives the tightest packing but also takes the longest time. Manual allows you to try any combination yourself. The hot key is Alt+G.

View dxf

With CutMaster Plus this allows you to toggle between Dxf view and Cut Plan View. The hot key is Alt+V.

LayouT Button

The Layout button displays the sheet packed top to bottom or bottom to top and right to left or left to right. Clicking the button toggles through the four choices. Changing the setting does not trigger optimization. The hot key is Alt+T.

Filter Button
The Filter button allows you to filter out parts by cabinet number.

OptimiZe Button
The Optimize button runs the optimizer for the current material. The hot key is Alt+Z.

DXF
With CutMaster Plus you can export nested dxf files. The hot key is Alt+X.

Off Cuts Button
The Off Cuts button controls whether off cuts are used for optimization (if there are any). The hot key is Alt+C

BAtch Button
The Batch button runs the optimizer for all of the materials. The hot key is Alt+Z.

Edging Button
The Edging button gives you control of edging for colour code, thickness, and symbols.

Print Button
The Print button creates a parts layout view which can be viewed and or sent to a printer. The Print button works with the currently selected material. The hot key is Alt+P.

SummarY Button
The Summary button creates a summary report complete with costing information. The hot key is Alt+Y.

Labels Button
The Labels Button prints labels. There is 1 label for every part. The hot key is Alt+L.

PlaN Button
The Plan Button prints labels for just the current Plan.

Report Button
The Report button also creates a print view which can be viewed and or sent to a printer. This is essentially a batch report. Choose which reports you want to batch in the Options. The Hot key is Alt+R.

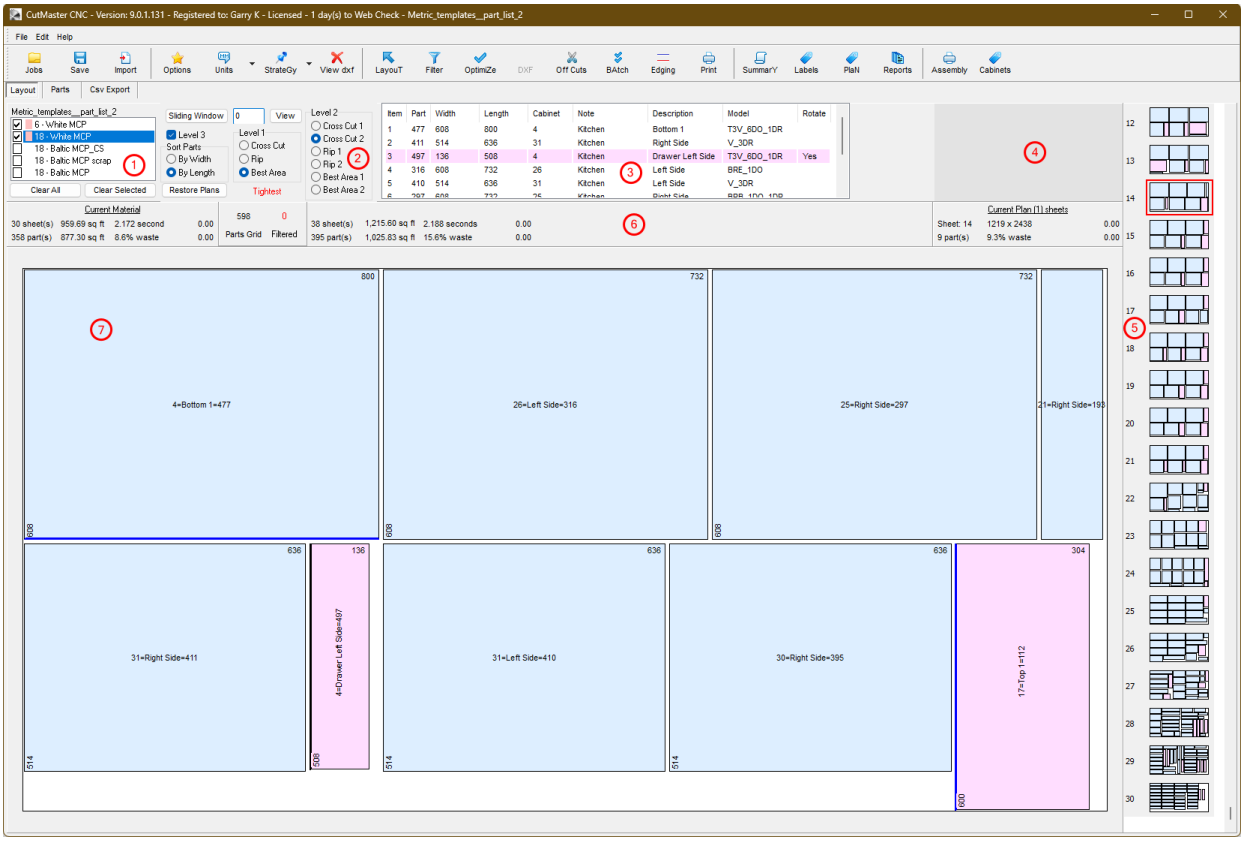
Assembly Button
With CutMaster Plus you can create an Assembly report. The hot key is Alt+Q.

Cabinets
The Cabinets labels button is 1 label per cabinet.

5 Layout Page

The layout page is separated into six areas.

1. The top left area is a list containing all of the materials required for the current job.
2. The next area to the right of the material list are a series of buttons and check boxes which represents the optimization strategy used in the current solution for the current material.
3. There is a grid on the top row containing all of the individual parts that are in the current sheet.
4. This area is where Tool Tips are displayed (when you hover the mouse over an object)
5. The area on the right hand side give you a thumb view of each sheet. The one that is outlined with a red rectangle is the same sheet that is at the bottom left.
6. The area in the middle contains the sheet summary, the batch or job summary and the summary for the current material.
7. The bottom left area is a cutting diagram of the full sheet complete with dimensions (when they fit) and a part identifier.

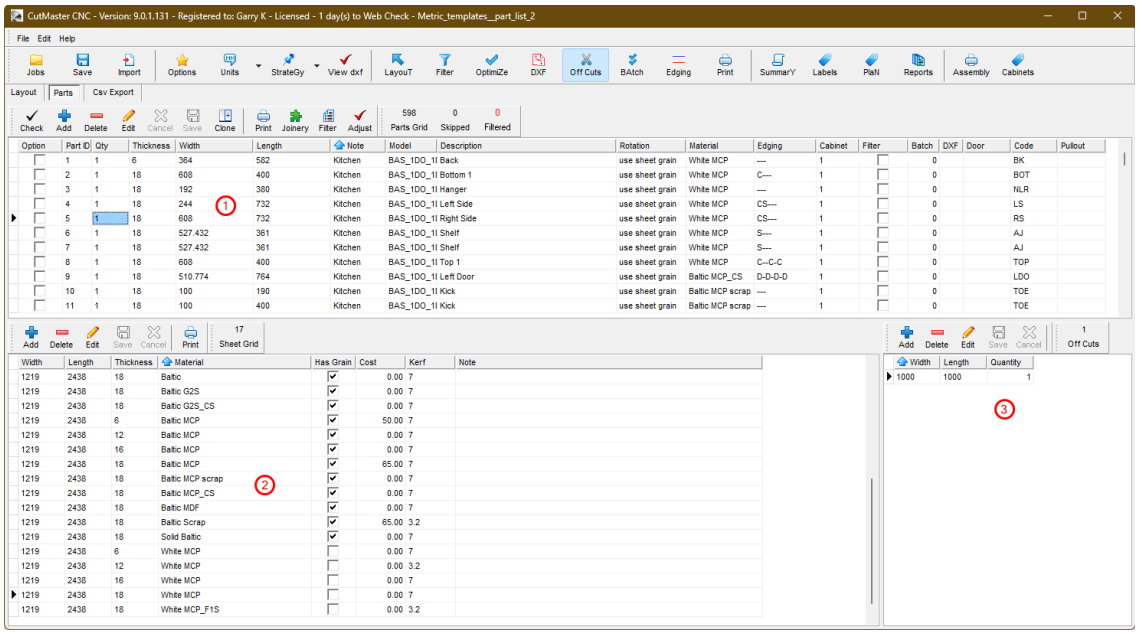


Notice that parts with edging shows up as a colored line. Also notice that the first sheet is an Off Cut. Off Cuts are managed in the 3rd grid on the Parts page.

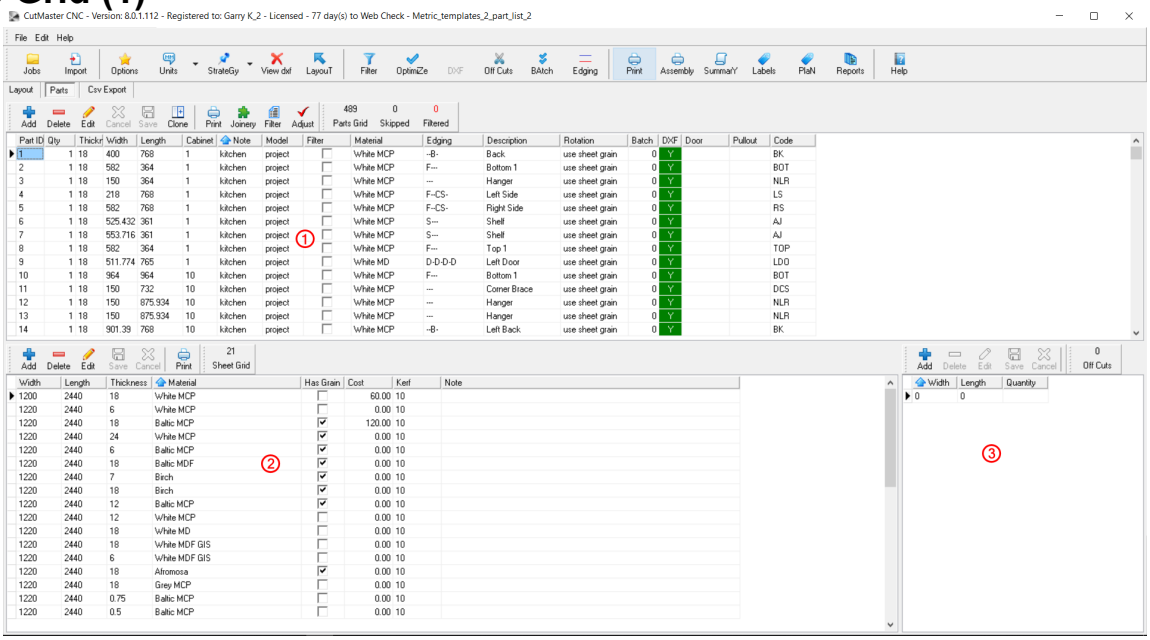
6 Parts Page

The Parts page contains 3 in grid editors.

1. The Parts grid.
2. The Sheet grid.
3. The Off Cuts grid.



Parts Grid (1)



The Parts grid contains all of the different parts for a complete job. This grid populates with data during the Open or Import process. You also have the option to insert as many additional parts as the job requires. There is a clone button which copies the current record and pastes

it into a new record. You may adjust the width of the columns and drag columns into a new order. This view is saved when cutmaster closes and used the next time you run the program.

Sheet Grid (2)

The sheet grid is maintained independent of the jobs and is stored in it's own MyBase table. There is an option that will automatically add a new part to the Sheet grid during the Open or Import process.

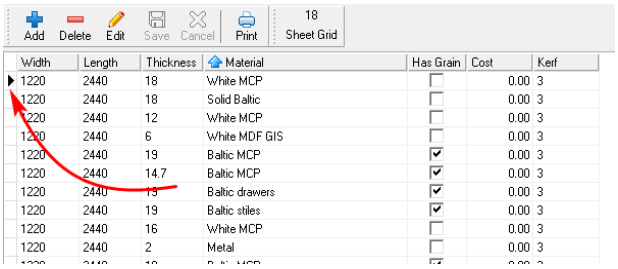
Off Cuts Grid (3)

The Off Cuts grid contains off sized pieces from a previous job that you may want to use for the current job.

7 Grid Editors

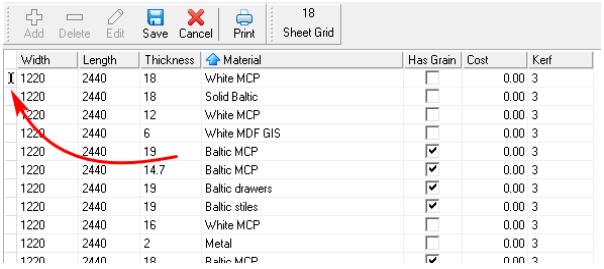
The Grid Editors all work the same way. There is a row of buttons above each grid. The first five buttons are used for grid editing. Editing actions can also be performed with various key strokes.

In browse mode there are 3 buttons that are enabled, Add, Delete and Edit. There is a black triangle in the first column on the far left of the current record. Also the Add Delete and Edit buttons are available and the Save and Cancel buttons are disabled. This is always the case when you are in Browse mode. You can bypass delete confirmation by holding done the Ctrl key when deleting.



Width	Length	Thickness	Material	Has Grain	Cost	Kerf
1220	2440	18	White MCP	☐	0.00	3
1220	2440	18	Solid Baltic	☐	0.00	3
1220	2440	12	White MCP	☐	0.00	3
1220	2440	6	White MDF GIS	☐	0.00	3
1220	2440	19	Baltic MCP	☑	0.00	3
1220	2440	14.7	Baltic MCP	☑	0.00	3
1220	2440	19	Baltic drawers	☑	0.00	3
1220	2440	19	Baltic stiles	☑	0.00	3
1220	2440	16	White MCP	☐	0.00	3
1220	2440	2	Metal	☐	0.00	3

When you click the Edit button or simply start editing a column then you are in Edit mode. Also notice that when you are in Edit mode that the Save and Cancel buttons are now enabled and the Add, Delete and Edit buttons are disabled. The triangle also changed to a bar in the first column on the far left of the current record.



Width	Length	Thickness	Material	Has Grain	Cost	Kerf
1220	2440	18	White MCP	☐	0.00	3
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1220	2440	12	White MCP	☐	0.00	3
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1220	2440	19	Baltic MCP	☑	0.00	3
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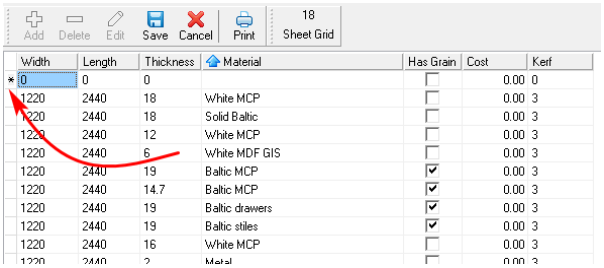
1220	2440	19	Baltic drawers	☑	0.00	3
1220	2440	19	Baltic stiles	☑	0.00	3
1220	2440	16	White MCP	☐	0.00	3
1220	2440	2	Metal	☐	0.00	3

In Insert mode (Add), there are 2 buttons enabled, Save and Cancel and there is an asterisk in the first column on the far left of the current record. Also notice that the grid opens up a new row.



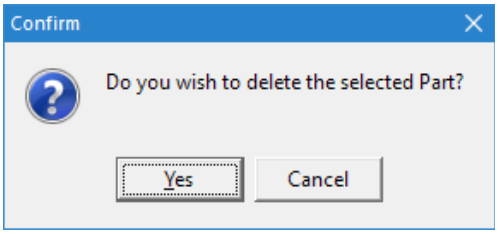
Width	Length	Thickness	Material	Has Grain	Cost	Kerf
0	0	0		☐	0.00	0
1220	2440	18	White MCP	☐	0.00	3
1220	2440	18	Solid Baltic	☐	0.00	3
1220	2440	12	White MCP	☐	0.00	3
1220	2440	6	White MDF GIS	☐	0.00	3
1220	2440	19	Baltic MCP	☑	0.00	3
1220	2440	14.7	Baltic MCP	☑	0.00	3
1220	2440	19	Baltic drawers	☑	0.00	3
1220	2440	19	Baltic stiles	☑	0.00	3
1220	2440	16	White MCP	☐	0.00	3

Add Button

The Add button puts allows you to insert a new record. The button opens up a row and you simply start typing. You can also use the “Insert” key from the keyboard. If you are at the bottom of the grid you may also use the “Down Arrow” key.

Delete Button

The Delete button brings up a confirmation screen. The wording changes depending on whether you are deleting a Part, a Sheet or an Off Cut. The Ctrl Delete key performs the same action as clicking on the Delete button.



Edit Button

The Edit button puts the grid into edit mode. You can also start typing in a cell which puts the editor into Edit mode.

Cancel Button

The Cancel button cancels an edit or an insert. You may also press the “Escape” key to cancel an edit or an insert.

Save Button

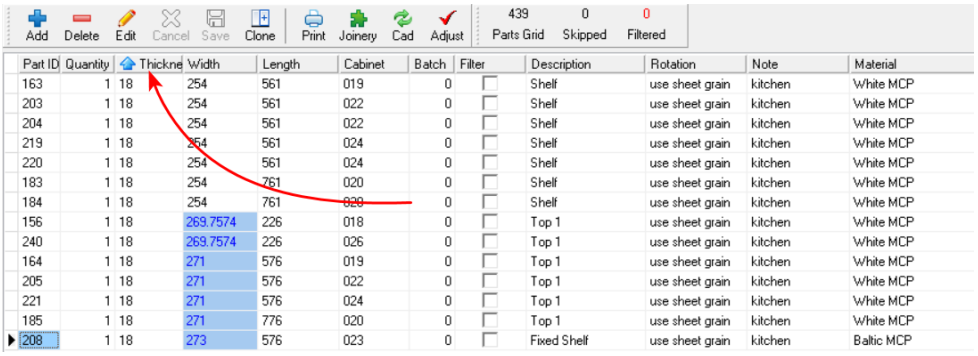
The Save button saves the currently edited or added record and then puts the grid back into browse mode. Moving off the current record also performs a Save.

Clone

The Clone button inserts a copy of the current part into a new record.

Grid Sorting

You can sort the grid by clicking on a column title. In this example there is a blue up arrow at the beginning of the Thickness column. The grid is now sorted by Thickness in ascending order. If you click the Thickness a second time a blue down arrow will appear and the grid will sort in descending order. Clicking on other column titles will sort the grid by that column.



Part ID	Quantity	Thickne	Width	Length	Cabinet	Batch	Filter	Description	Rotation	Note	Material
163	1	18	254	561	019	0		Shelf	use sheet grain	kitchen	White MCP
203	1	18	254	561	022	0		Shelf	use sheet grain	kitchen	White MCP
204	1	18	254	561	022	0		Shelf	use sheet grain	kitchen	White MCP
219	1	18	254	561	024	0		Shelf	use sheet grain	kitchen	White MCP
220	1	18	254	561	024	0		Shelf	use sheet grain	kitchen	White MCP
183	1	18	254	761	020	0		Shelf	use sheet grain	kitchen	White MCP
184	1	18	254	761	020	0		Shelf	use sheet grain	kitchen	White MCP
156	1	18	269.7574	226	018	0		Top 1	use sheet grain	kitchen	White MCP
240	1	18	269.7574	226	026	0		Top 1	use sheet grain	kitchen	White MCP
164	1	18	271	576	019	0		Top 1	use sheet grain	kitchen	White MCP
205	1	18	271	576	022	0		Top 1	use sheet grain	kitchen	White MCP
221	1	18	271	576	024	0		Top 1	use sheet grain	kitchen	White MCP
185	1	18	271	776	020	0		Top 1	use sheet grain	kitchen	White MCP
208	1	18	273	576	023	0		Fixed Shelf	use sheet grain	kitchen	Baltic MCP

8 Edging

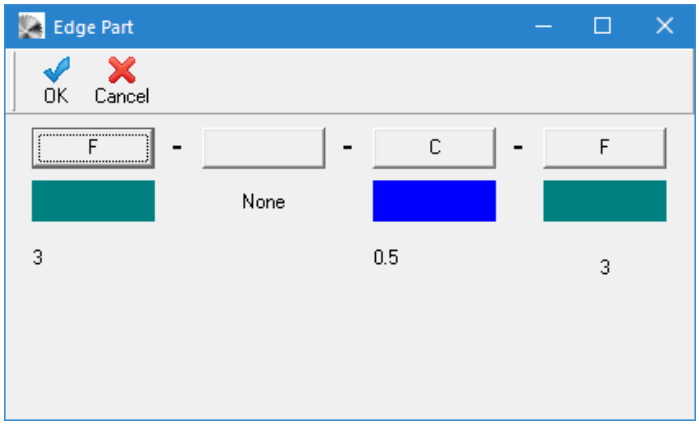
Edging Editor

With CutMaster Plus double clicking on a cell in the Edging column brings up an Edging Editor. You can change the edging by clicking on 1 of the 4 buttons. Each button represents one edge on the part. Each buttons caption represents the type of edging by the edging's short code (explained with the Edging Grid immediately following the Editor).

Colored labels below each button represent the report color of the edge. These colors are not Sketchup textures, they are used to distinguish each edge type on various reports. The number that appears below the edge is the thickness of the edging and will be subtracted from each parts length or width.

The order of the parts edging is from that parts point of view. In this example the part is a Top where the sides are sandwiched between the Top and the Bottom therefore the left and right edges are also edge banded. The first edge is the front of the part. The second is the back (no edging). The third is right side and the fourth is the left side. Notice that this cabinet is finished on the left side but not on the right side.

Parts are oriented in the cut plan so that the side of the part requiring the majority of joinery is always placed upwards. This means that Tops and Bottoms are reversed as are Left and right Sides. Also drawer sides are reversed and drawer fronts and backs are reversed.

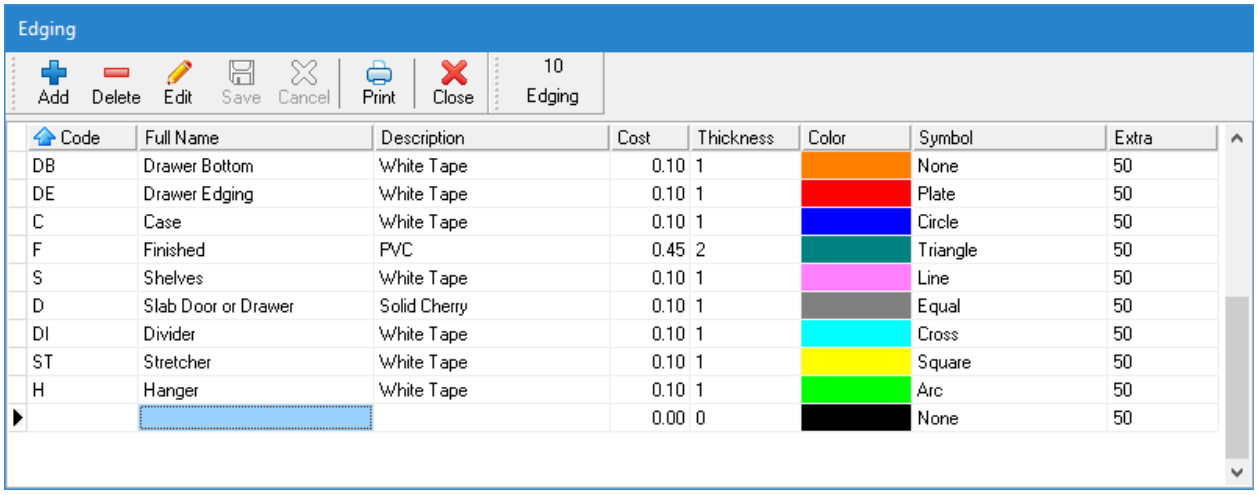


To change an edging or to remove an edging click on one of the four buttons. This brings up the Edging Grid.

Edging Grid

The Edging Grid has two purposes. The first is to manage edgings and the second purpose is when editing a parts edging. You then select an edge and Click Select.

Notice that the last entry is colored black and has no Short Code. Use this selection to remove edging from a parts edge when editing parts edging.

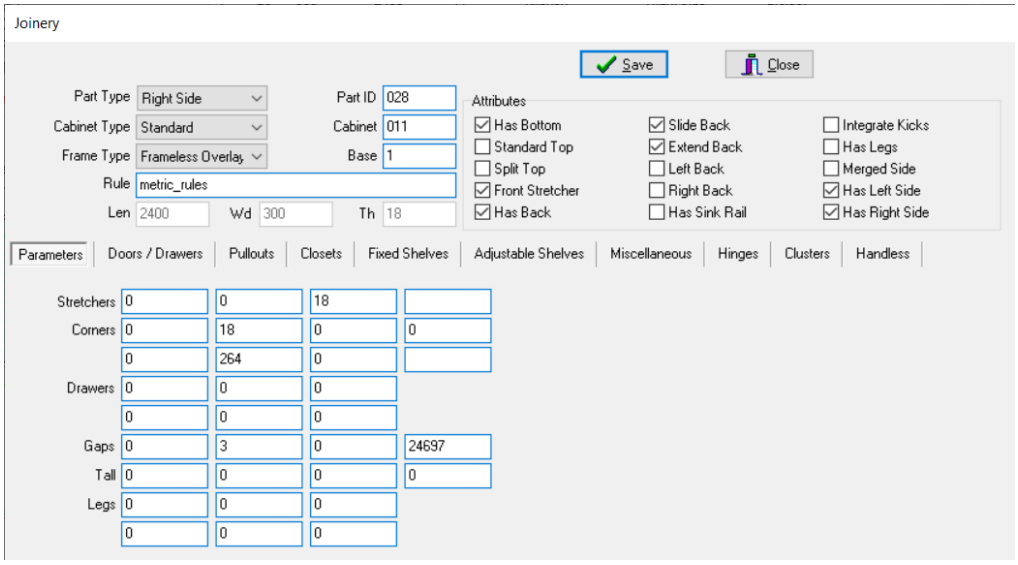


Code	Full Name	Description	Cost	Thickness	Color	Symbol	Extra
DB	Drawer Bottom	White Tape	0.10	1		None	50
DE	Drawer Edging	White Tape	0.10	1		Plate	50
C	Case	White Tape	0.10	1		Circle	50
F	Finished	PVC	0.45	2		Triangle	50
S	Shelves	White Tape	0.10	1		Line	50
D	Slab Door or Drawer	Solid Cherry	0.10	1		Equal	50
DI	Divider	White Tape	0.10	1		Cross	50
ST	Stretcher	White Tape	0.10	1		Square	50
H	Hanger	White Tape	0.10	1		Arc	50
			0.00	0		None	50

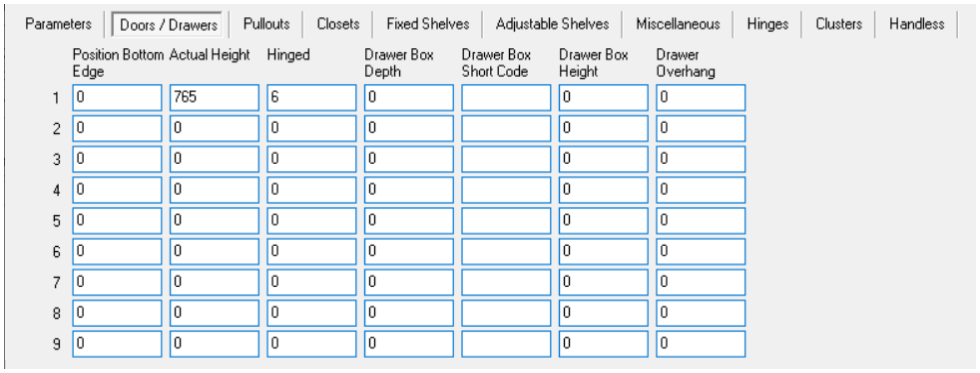
9 Joinery Form

The Joinery is available on the Parts Grid as a CutMaster Plus feature in preparation for DXF support. Various drop down list controls and or text editors will show up based on the part type. For instance a Shelf does not require any more information whereas a Side requires drawer placement etc. so that the proper holes are set up in the DXF file.

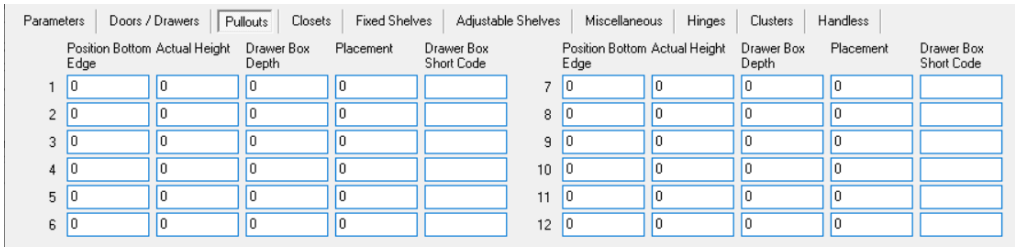
These values are usually exactly what CutMaster requires. However you can edit them if you wish.



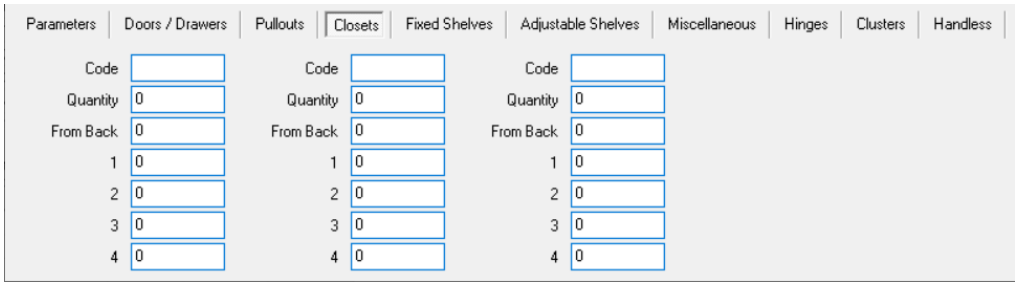
Here is the Doors / Drawers section.



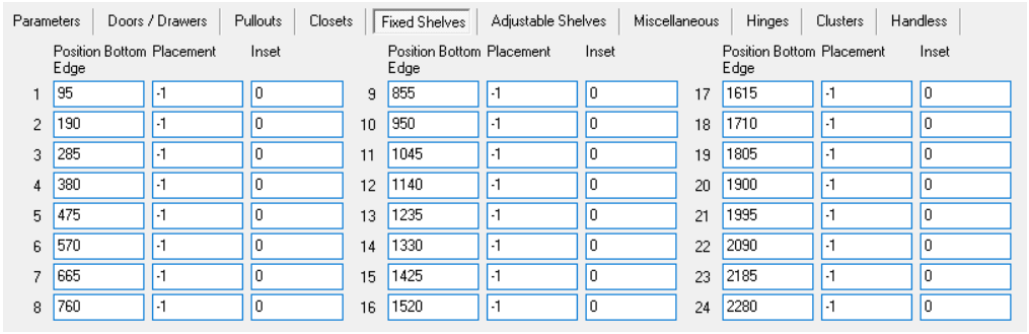
Here is the Pullouts section.



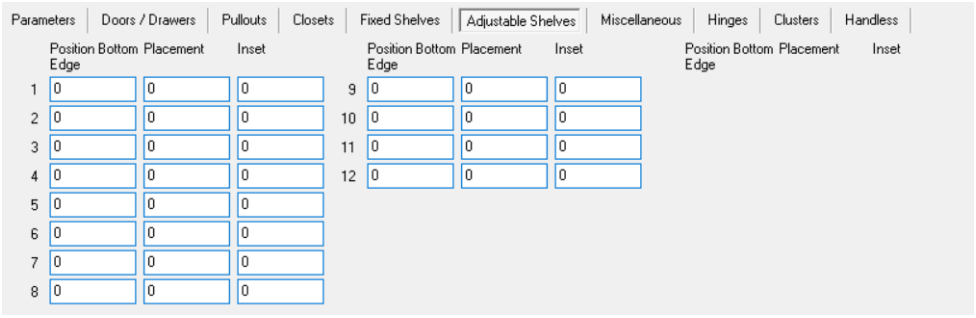
Here is the Closets section



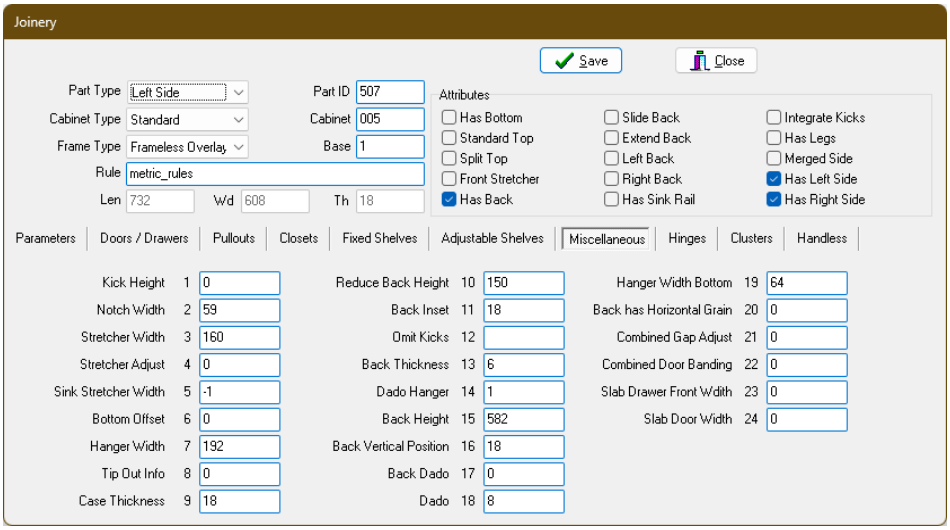
Here is the Fixed Shelves section



Here is the Adjustable Shelves section



Here is the Miscellaneous section



Here is the Hinges section

Here is the Clusters section

Here is the Handless section

CabMaker sends these values over to CutMaster during the import.

10 DXF Layout

The View Dxf button is available with CutMaster Plus. You can toggle between Standard View and DXF view. The DXF button is only enabled when in this view. The print button will honor the current view choice. In this example the Dxf view is for thumbnail 2. You can click on a part in the list or click on the part in the layout. The current part will display as a hatch and the part will become selected in the list.

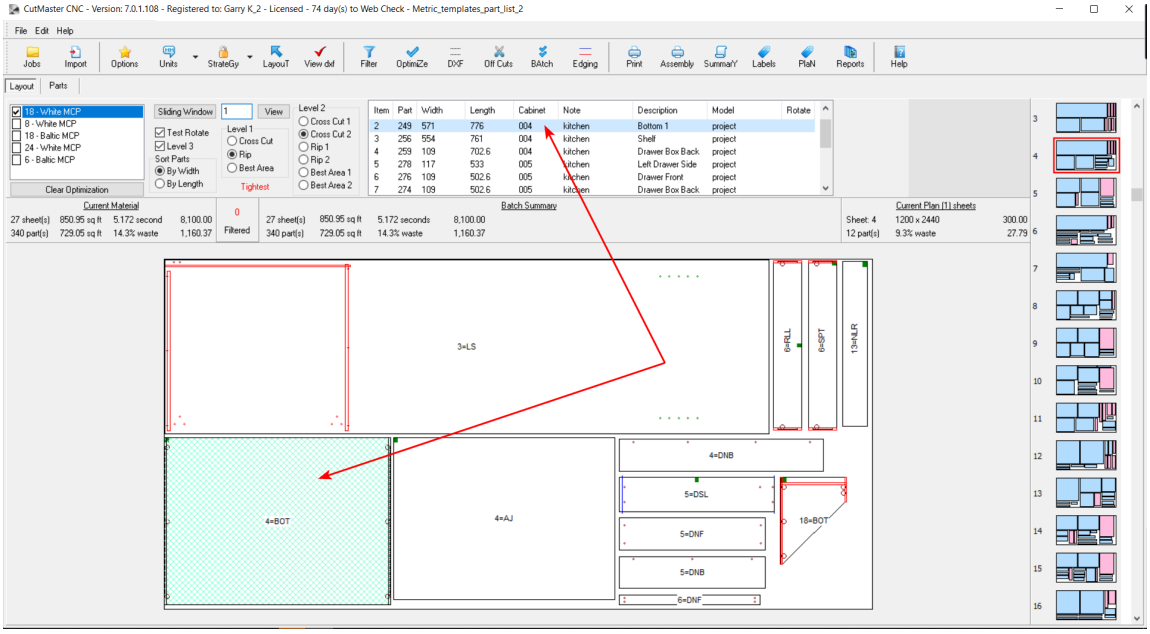
You can also right click on the selected part and choose CAD. If you have created the dxf files and have choosen 1 part per dxf then your CAD will open with that part.

If you did not choose 1 part per dxf then you can right click on the selected thumbnail and open the nested dxf in the CAD. CAD is used to modify the selected part prior to running CNC.

You can double click on the part line and it will take you to the Parts Tab and you will be on the correct part.

You can also Left Click on a part while holding down either the Shift Key, the Ctrl Key or the Alt Key.

- Shift Key – Left Mouse Button will take you to the Configuration System.
- Ctrl Key – Left Mouse Button will take you to the Joinery Form.
- Alt Key – Left Mouse Button will take you to the Parts Tab.
- Escape – will clear the highlighting on the chosen part.
- Left Mouse – will clear the chosen part if already highlighted or willl choose the part if not already highlighted and at the same time clear a different part if a different part was highlighted.



11 Grid Traversal

You may also use the Tab key and or Shift Tab key to move between columns in a grid. If you are on the last column in a grid then the Tab key moves you to the next record.

Home (or Ctrl Left) and End (or Ctrl Right) keys move you to the first or last column.

Page Up and Page Down keys move you a page full of records.

Ctrl Page Up (or Ctrl Up) and Ctrl Page Down (or Ctrl Down) keys move you to the first or last record in the visible window.

Ctrl Home and Ctrl End keys move you to the very first or very last record.

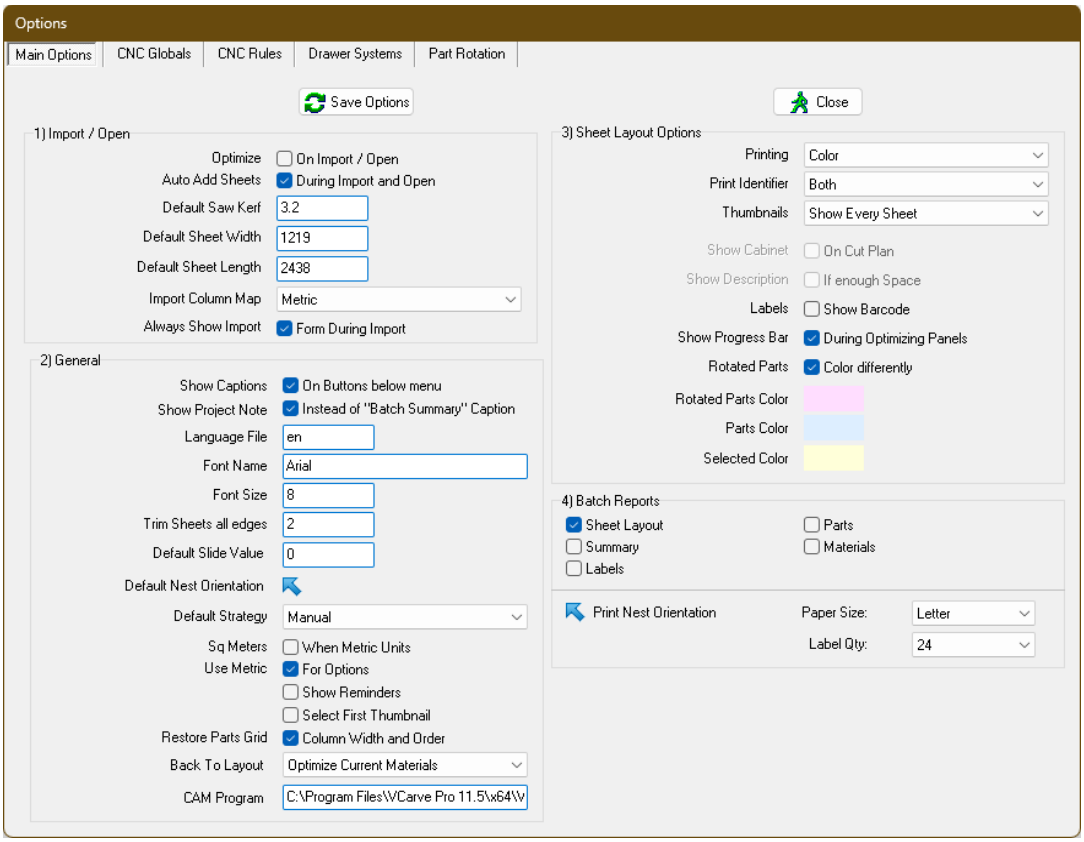
In Grid Editing

There are a few things to mention about in grid editing.

1. Ctrl-Delete will delete the current record directly and bypass the Delete Confirmation.
2. The parts grid “Thickness” column is read only. The thickness value is set after you choose a material.
3. The parts grid “Material” column uses a drop down list. The drop down button appears on the right had side when you enter the column. The drop down list contains a complete list of material choices.
4. The sheet grid “Has Grain” column displays a check box. You can use the down arrow key in conjunction with the space bar to move quickly down the grid and to toggle the check marks. You can also use click the left mouse button within the checkbox to toggle the check mark.
5. All editable measurement columns, “Width”, “Thickness” and “Length” have built in expression evaluators.
6. If data entry is set to inches you can enter expressions such as
   a) 8 * 12
   b) 23 1/2” + 1/8”
4. If data entry is set to millimeters you can enter expressions such as
   a) 800 – 38
   b) 1200 / 5

Main Options Tab

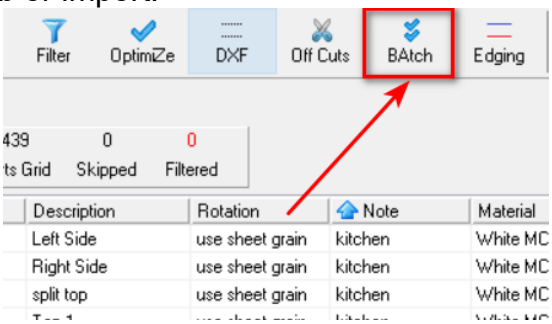
There are a number of options available for CutMaster.



1) Import / Open

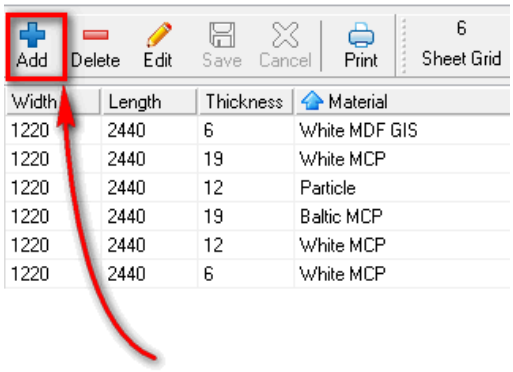
1 Optimize

Check “Optimize on Import / Open” if you want the CutMaster to optimize all materials every time you open a job or import.



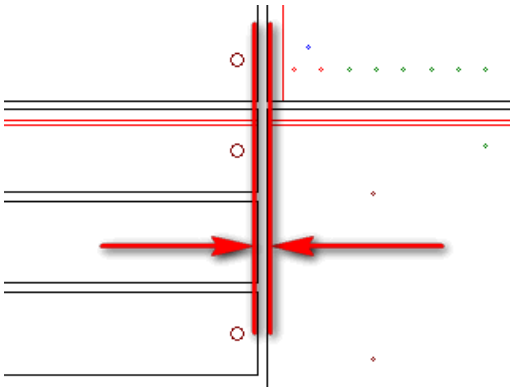
2 Auto Add Sheets

If you import or open a job that has material that is not in the sheet list then you can have CutMaster automatically add the required material to the sheet grid.



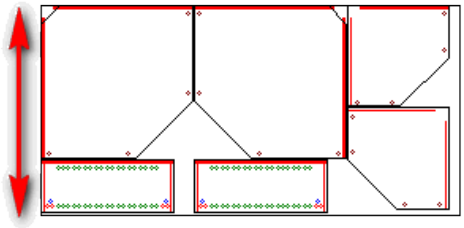
3 Default Saw Kerf

Saw Kerf is the thickness of the saw blade or router bit. CutMaster will apply this value for the Kerf of each newly added sheet.



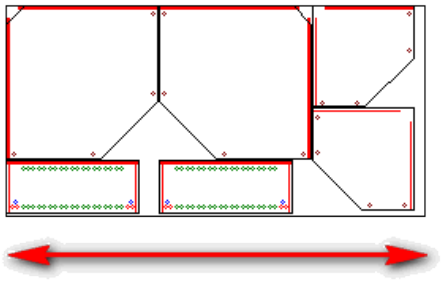
4 Default Sheet Width

When Auto Add Sheets is checked this is the Default Width for the added sheet.



5 Default Sheet Length

When Auto Add Sheets is checked this is the Default Length for the added sheet.

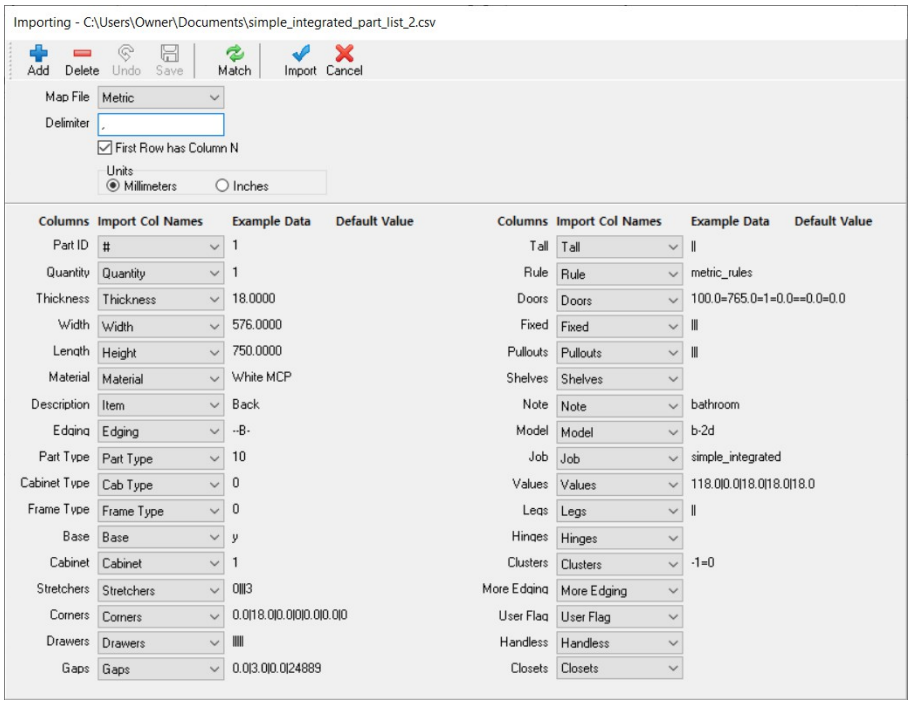


6 Import Column Map

This is the name of the import configuration.

7 Always Show Import

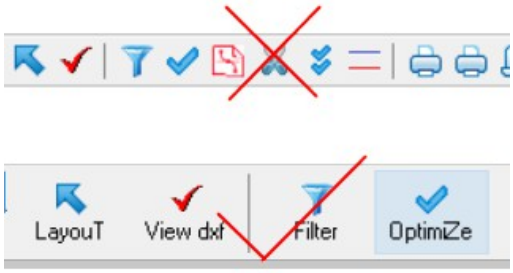
Check this if you want the import map form to always show during an import. If you are using CutMaster from Cabmaker32 then you will probably want to leave this un-checked.



2) General

1 Show Captions

Check Show Captions displays captions on the main form buttons. Un-Check for small buttons.



2 Show Project Note instead of “Batch Summary” Caption

The layout screen can show the project note instead of the caption “Batch Summary”.

3 Language File

The default language is en – English. You can choose other language files (some are partially created). Fr – French, ru – Russian etc. You can also help work on the language files and I will distribute them with the CutMaster Installer.

4 Font Name

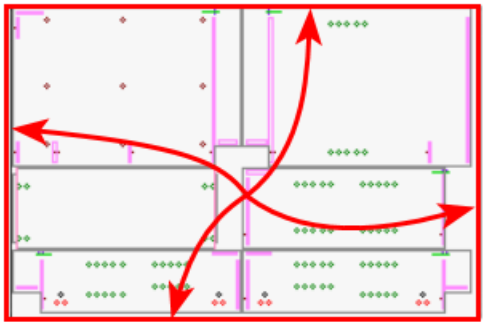
Choose the font that you would like to use. The recommendation is Arial.

5 Font Size

Choose the font size that you would like to use. The recommendation is 8.

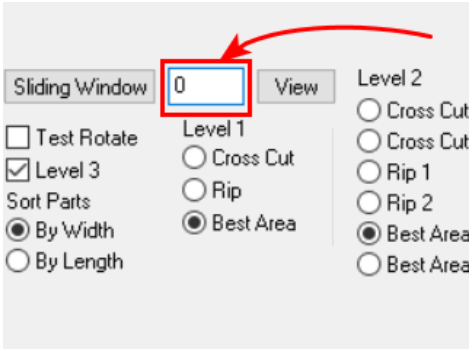
6 Trim Sheets all edges

Trim Sheets is the amount you need to trim from all 4 sides of sheets.



7 Default Slide Value

If Slide value is set to 0 then it is ignored otherwise this is the number of cabinets to provide to the optimizer. When a cabinet is completely optimized the the optimizer picks the next cabinet to add in for optimization.

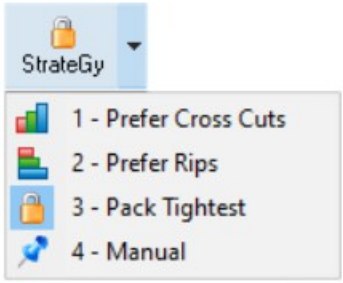


8 Default Nest Orientation

Optimization will use this Orientation for new materials.

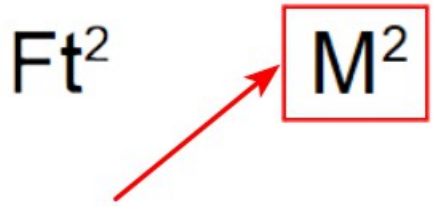
9 Default Strategy

Default Strategy is used at startup, during Imports and on New Job.



10 Sq Meters

When units are set to Metric you can have summaries in sq ft (unchecked) or in sq Meters (checked).

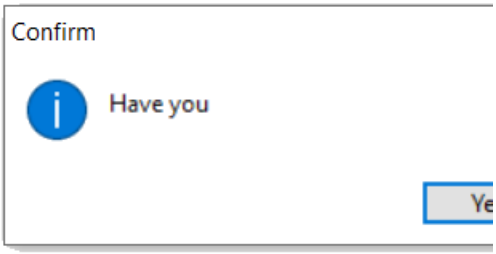


11 Use Metric

You can force options to remain metric regardless of report units.

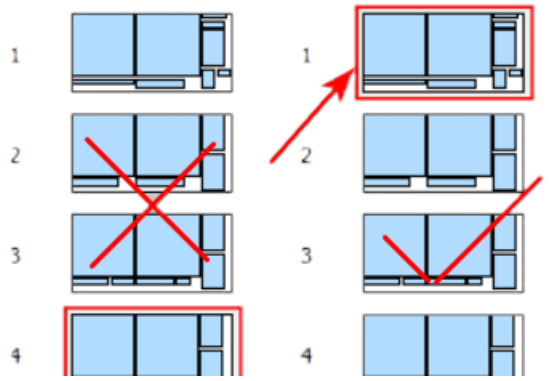
12 Show Reminders

You can turn off reminders such as “Have you checked Edging thickness?”.



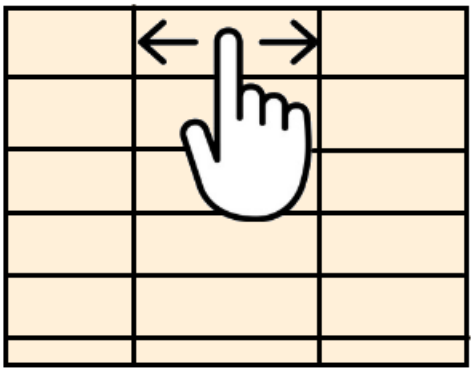
13 Select First Thumbnail

After optimization you can have CutMaster jump to the first thumbnail instead of the last one.



14 Restore Parts Grid

Saves the Column widths and Column order at cutmaster shut down and restores the next time cutmaster starts.

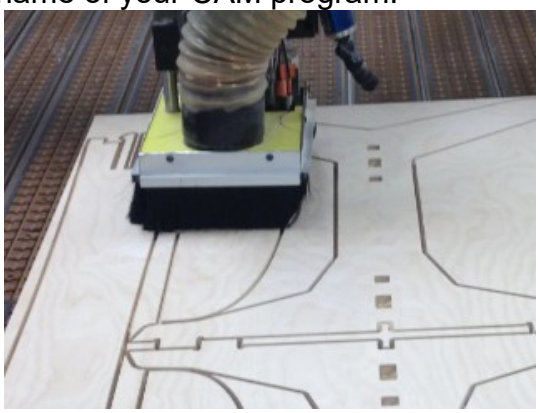


15 Back to Layout

After making an edit in the Parts Grid you can choose one of the following
0 = No Optimization
1 = Optimize Current Material
2 = Batch Optimize

16 CAM Program

Type in the path and the name of your CAM program.



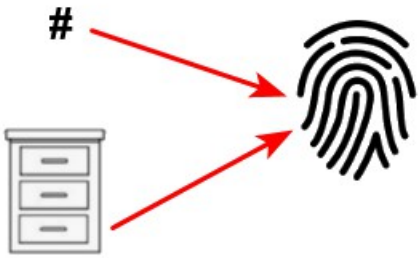
3) Sheet Layout Options

1 Printing

Choose B&W or Color for printouts.

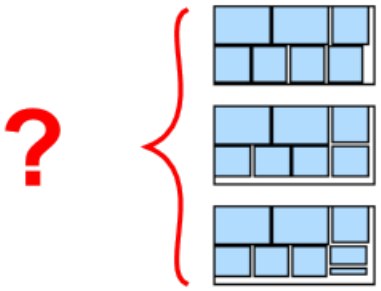
2 Print Identifier

CutMaster will use the “Cabinet #” or CutMaster will use it's own “item #”. The “Item #” starts at 1 for each sheet.



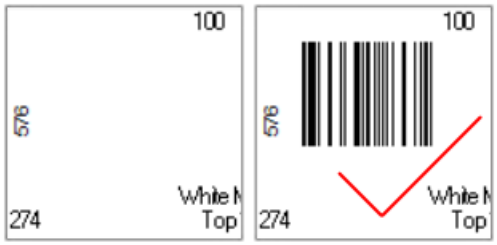
3 Thumbnails

Choose “Unique Cut Plan”, “Unique Routing Plan” or “Show Every Sheet”. “Unique Cut Plan” reduces paper by combining cut patterns that are the same. “Unique Routing Plan” is for a future release and for dxf files.



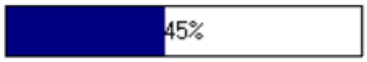
4 Labels

Check this to print or view barcodes for part labels.



5 Show Progress Bar

Show Progress Bar lets you choose to display the progress bar or not.

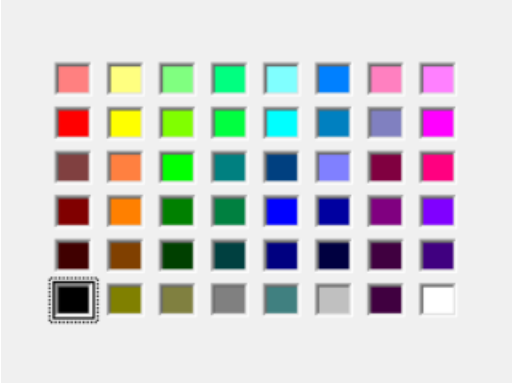


6 Rotated Parts

Rotated Parts lets you visually identify which parts have been rotated through color.

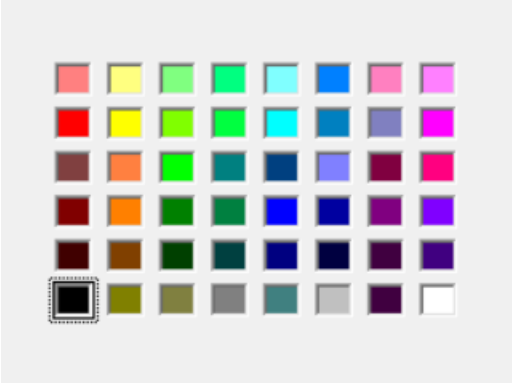
7 Rotated Parts Color

If Color Rotated Parts is checked then this is the color that you want to use for Rotated Parts.



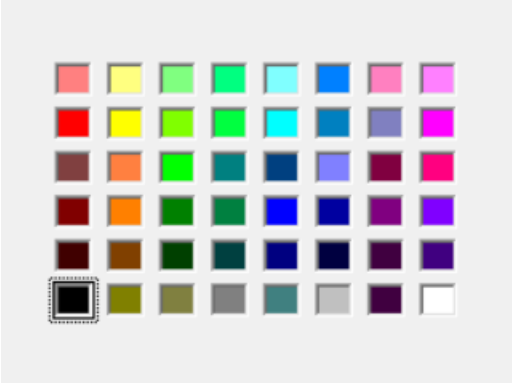
8 Parts Color

This is the Color you want to use for non rotated Parts.



9 Selected Color

This is the Color you want for the one selected part.



4) Batch Reports

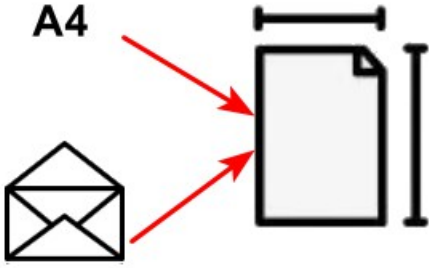
Check each report that you want to include in the Batch of Reports.

1 Print Nest Orientation

Adjust the Orientation to simplify working with CNC routers.

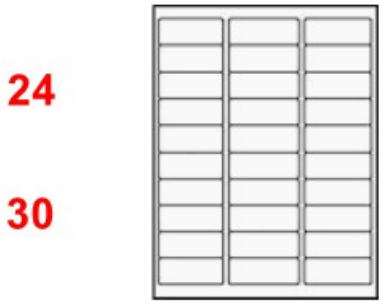
2 Paper Size

Printed reports can be in either Letter format or A4 format.



3 Label Qty

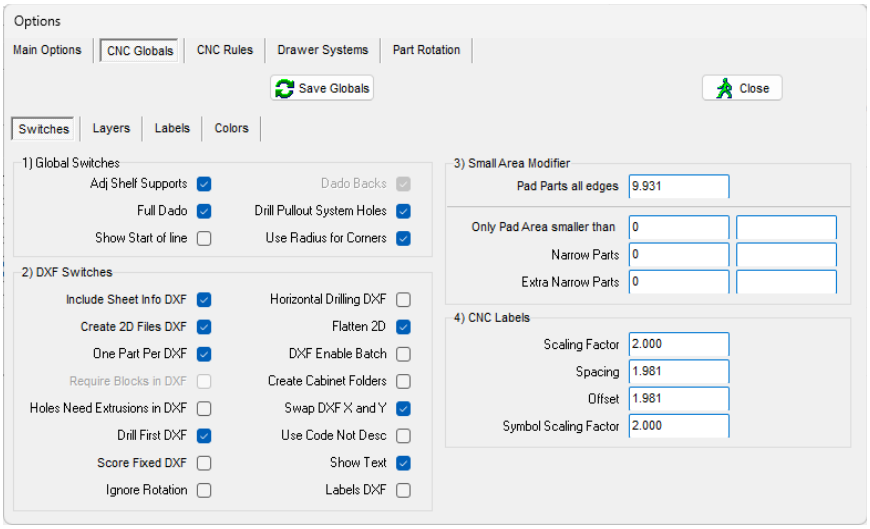
This is the number of labels per sheet. Letter supports 30. A4 supports 24 or 30. Additionally A4 supports L7159.



CNC Globals Tab

The CNC Globals section contains Switches, Flags, Layers and Slides.

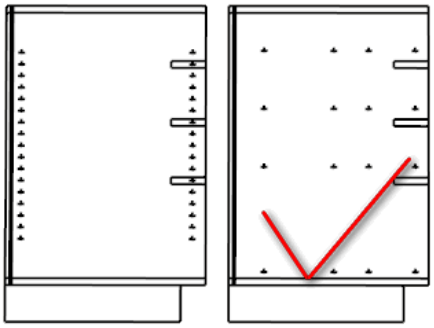
Switches Tab



1) Global Switches

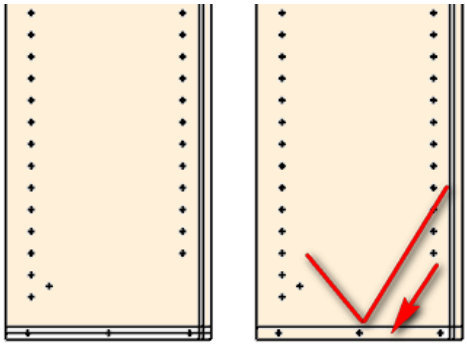
1 Adj Shelf Supports

Check Adjust Shelf Supports if you want the End Holes setting to be from the last drawer instead of from the Top Edge of the Side Panel.



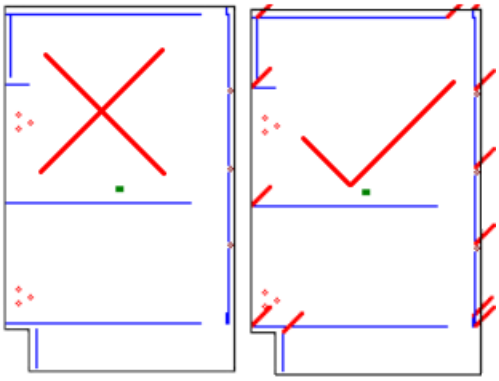
2 Full Dado

Check this if your blind dado's are the same width as the thickness of the case material.



3 Show Start of Line

This option puts a small red slash at the starting point of single lines (not pockets) and indicates directionality of the CNC rout.

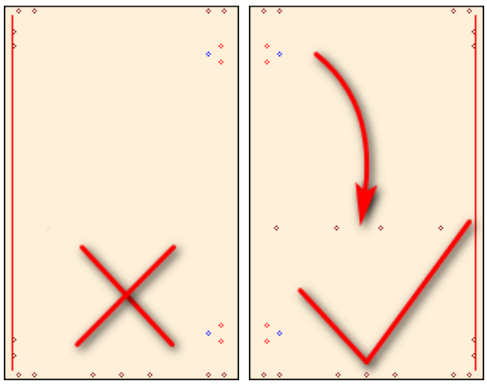


4 Dado Backs

This is currently disabled

5 Drill Pullout System Holes

Check this if you want pullout drilling for side panels.

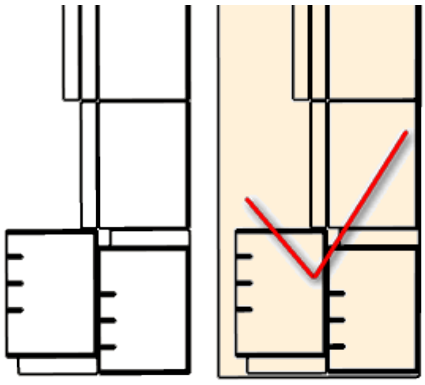


6 Use Radius for Corners

2) DXF Switches

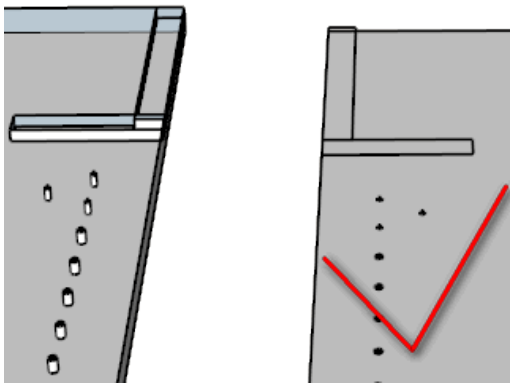
1 Include Dxf Sheet Info

This setting will include the sheet information in the Dxf file when checked.



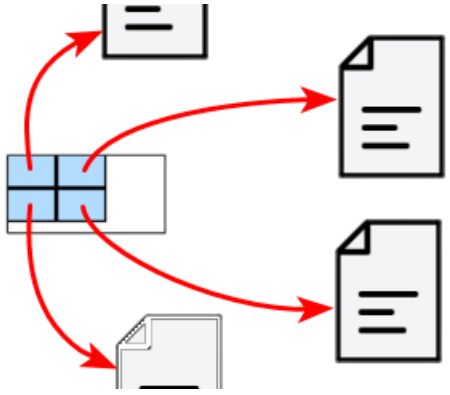
2 Create 2D Dxf Files

You now have the option to create 2D Dxf Files. The default (unchecked) is 3D.



3 One Part Per DXF

Some cabinet shops cut parts with a saw and rout parts one at a time. In this case check this setting and you will get one part per DXF file. DXF will also include horizontal drilling if DXF is 3D and “One Part Per DXF” is checked.

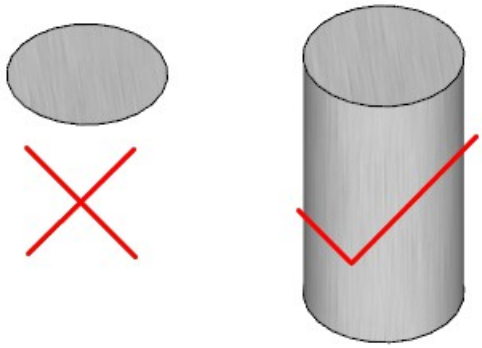


4 Require Blocks in DXF

Some CAM software requires blocks in DXF. This is currently disabled

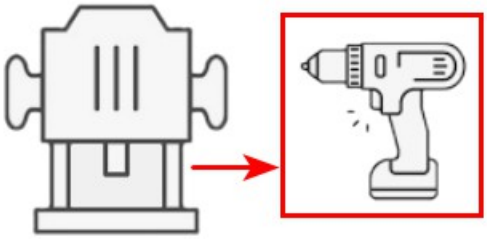
5 Holes Need Extrusions in DXF

Some CAM software requires 210, 220 and 230 codes for drilling.



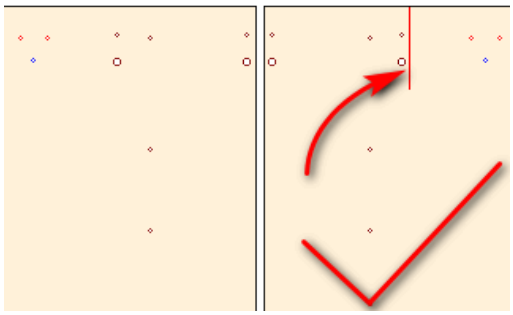
6 Drill First DXF

Some CAM software chooses tooling order based on DXF order. In this case nested solutions usually want to do all the drilling before cutting out the parts whereas One part per DXF usually wants to trim the part first.



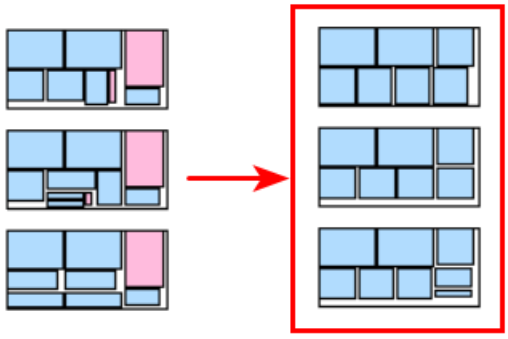
7 Score Fixed DXF

Some manufacturers use a score line to line up Fixed shelves and Drawer Stretchers.



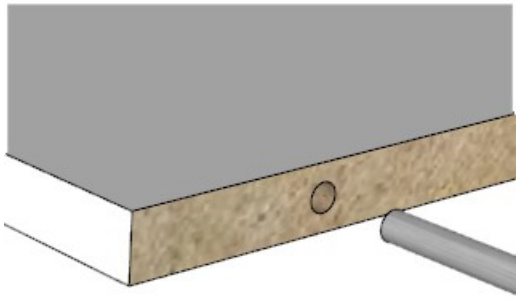
8 Ignore Rotation

This setting overrides the grain direction in the Sheet Grid.



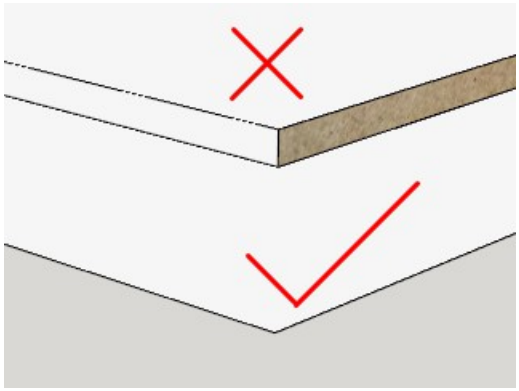
9 Horizontal Drilling DXF

Some CNC machines are able to drill horizontal holes. Horizontal Drilling is only partially supported.



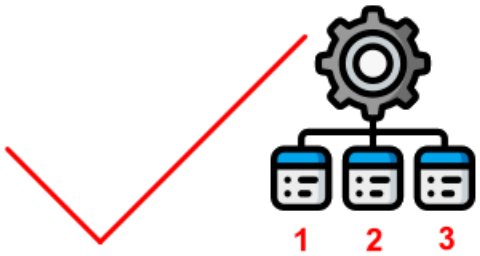
10 Flatten 2D

This forces all geometry to Z axis 0.



11 DXF Enable Batch

Using the filter you can create small batches of DXF files – just what you can machine today.

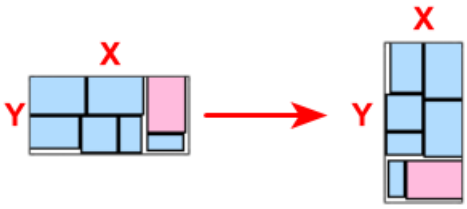


12 Create Cabinet Folders

This option organizes all DXF files and creates folders for each cabinet and places the DXF files into the appropriate folder. Cabinets without Cabinet Number have their DXF's placed int the projects root.

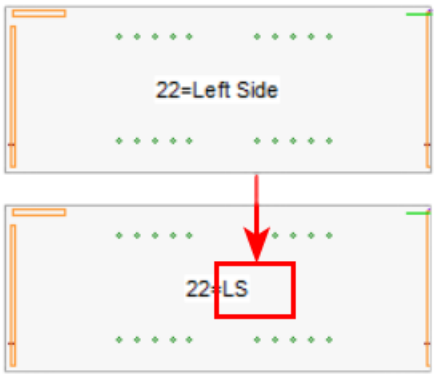
13 Swap DXF X and Y

Some CAM software such as Vcarve want X and Y swapped.



14 Use Code not Desc

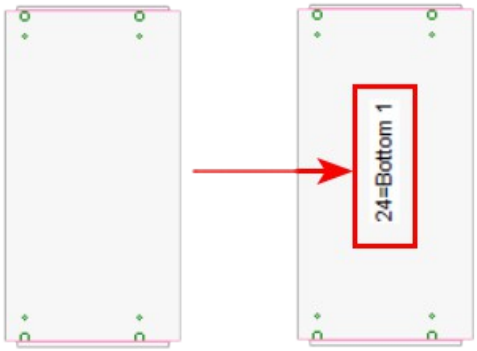
There is a Short Code that you can use instead of part description. You can enter Short Codes in the next section “Flags”.



15 Show Text

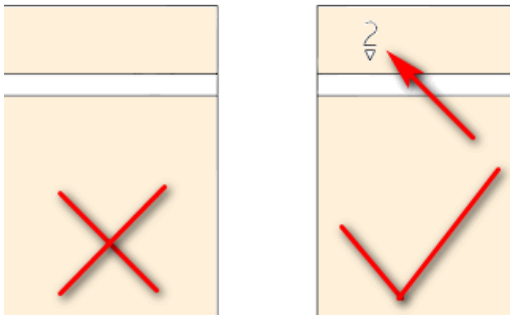
You can turn of labelling parts for the DXF and Plan view.

Additionally this switch will create material folders for nested DXF's



16 Labels DXF

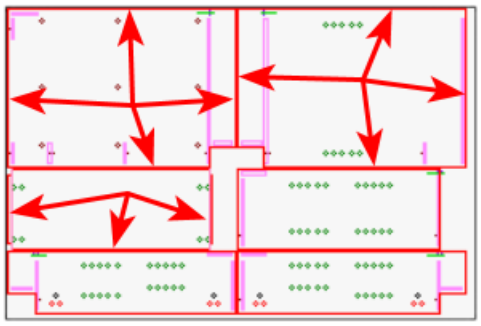
Some shops prefer to have the CNC score the labeling information on to the various parts. You can choose where the label goes and also choose which parts you do not want labels.



3) Small Area Modifiers

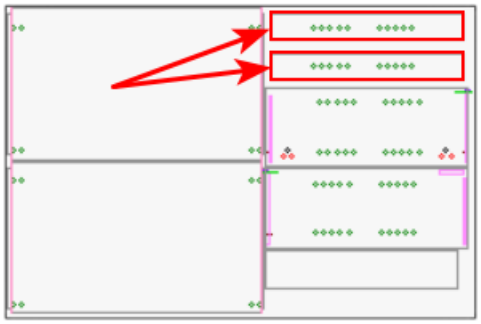
1 Pad Parts all edges

Trim Parts is the amount of extra room that you want to add to all 4 edges of Parts. If you set it to 1/8” then CutMaster adds 1/4” to the width and to the length of each part.



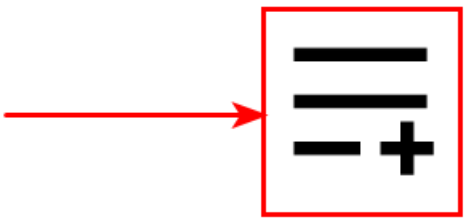
2 Only Pad Area smaller than

This provides extra space for small parts so the CNC router doesn't grab the part and throw it across the room.



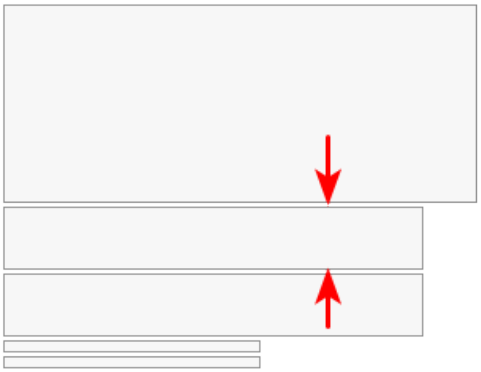
3 Small Area Modifier

Specify the modifier for parts with a Small Area.



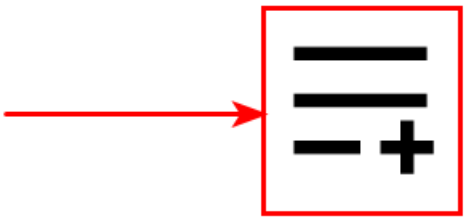
4 Narrow Parts

Specify the width of narrow parts and also specify the modifier which will be added to the end of the layer name.



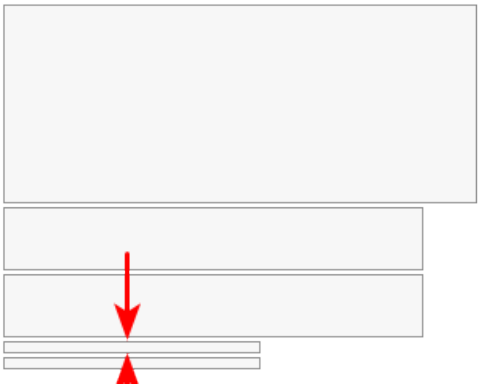
5 Narrow Parts Modifier

Specify the modifier for Narrow Parts.



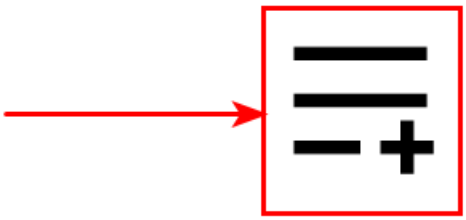
6 Extra Narrow Parts

Specify the width of extra narrow parts and also specify the modifier which will be added to the end of the layer name.



7 Extra Narrow Parts Modifier

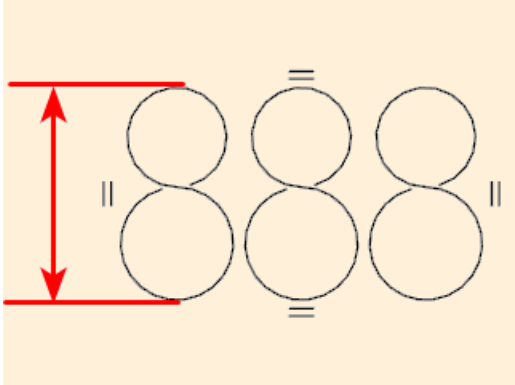
Specify the modifier for Extra Narrow Parts.



4) CNC Labels

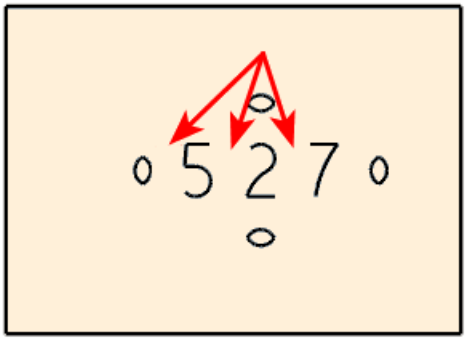
1 Scaling Factor

Cabinet numbers by default are 3.5 mm wide and 6.5 mm high. As an example a scalling parameter of 1.25 scales the label to 4.375 mm wide and 8.125 mm high.



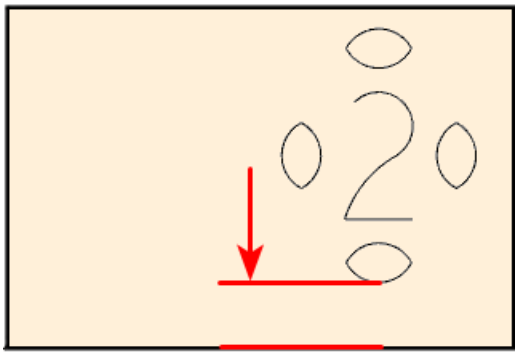
2 Spacing

This is the space between numbers and or symbols.



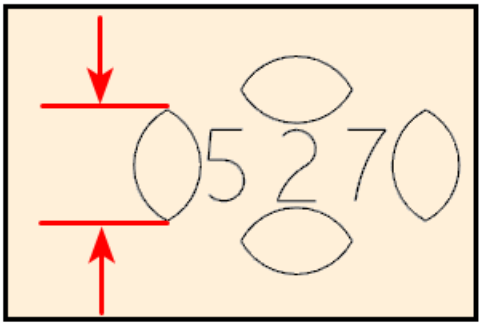
3 Offset

This is the space between the edge of the panel and the symbols.



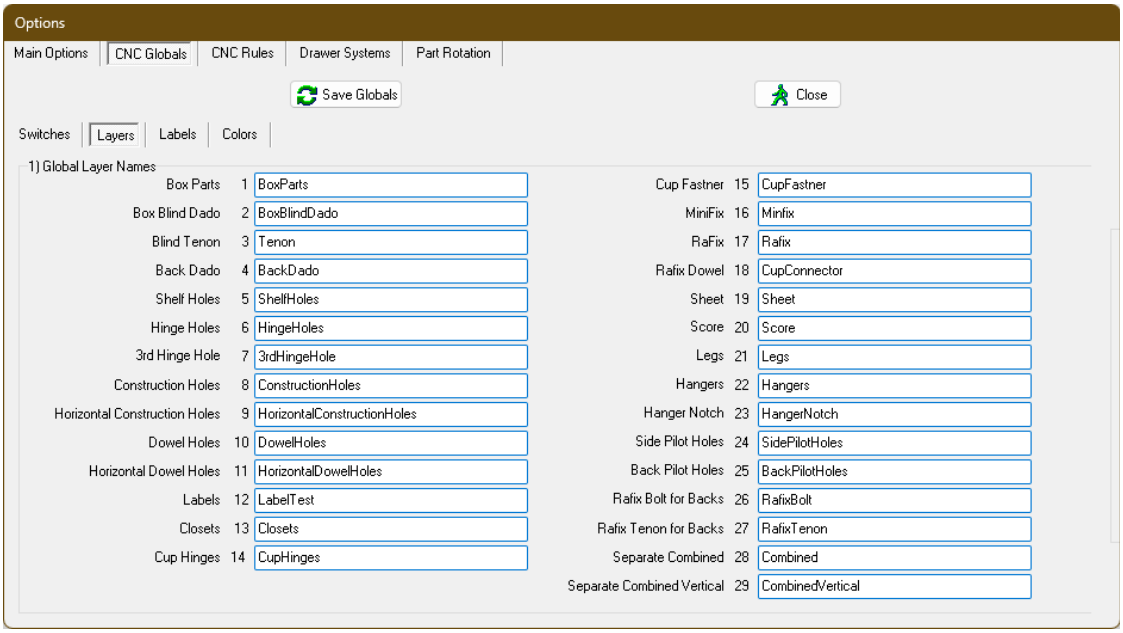
4 Symbol Scaling Factor

A value of 1 keeps the default size. 1.05 increases the size by this factor



Layers Tab

CAM software such as VCarvePro use layer names to determine what machining feature uses which Toolpath.

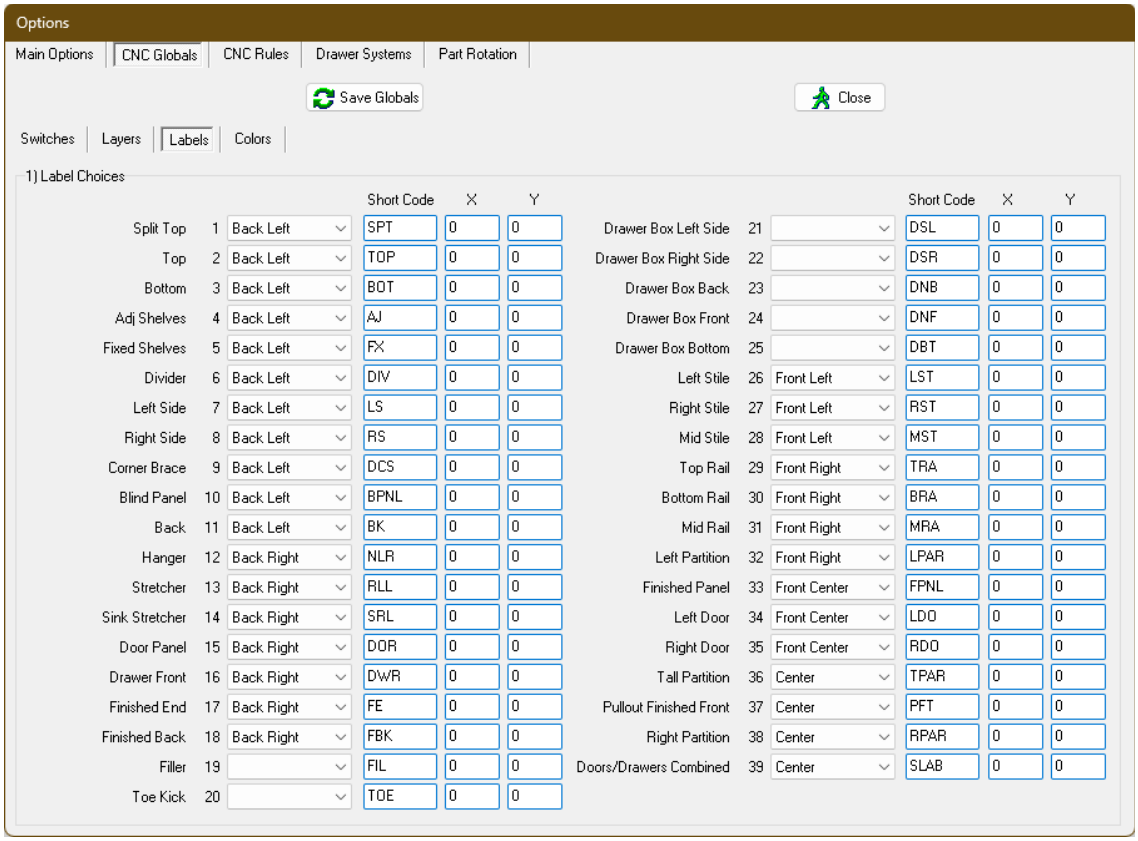


1) Global Layer Names

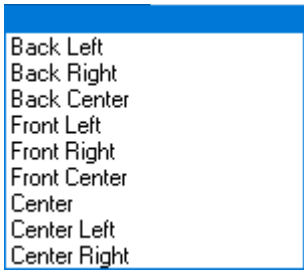
There are 29 layer names. Some 3rd party CNC software require specific names. Change them here as required. Please note that some CNC software have naming rules and may require no spaces in the names.

Labels Tab

There are 39 optional Flags that you can preset during import. Additionally there are 39 Short Codes for Cutmaster to optionally use for DXF and Plan View.



There are also 38 drop downs used for DXF labeling. There are 9 choices for positioning the label on the panels (including none).

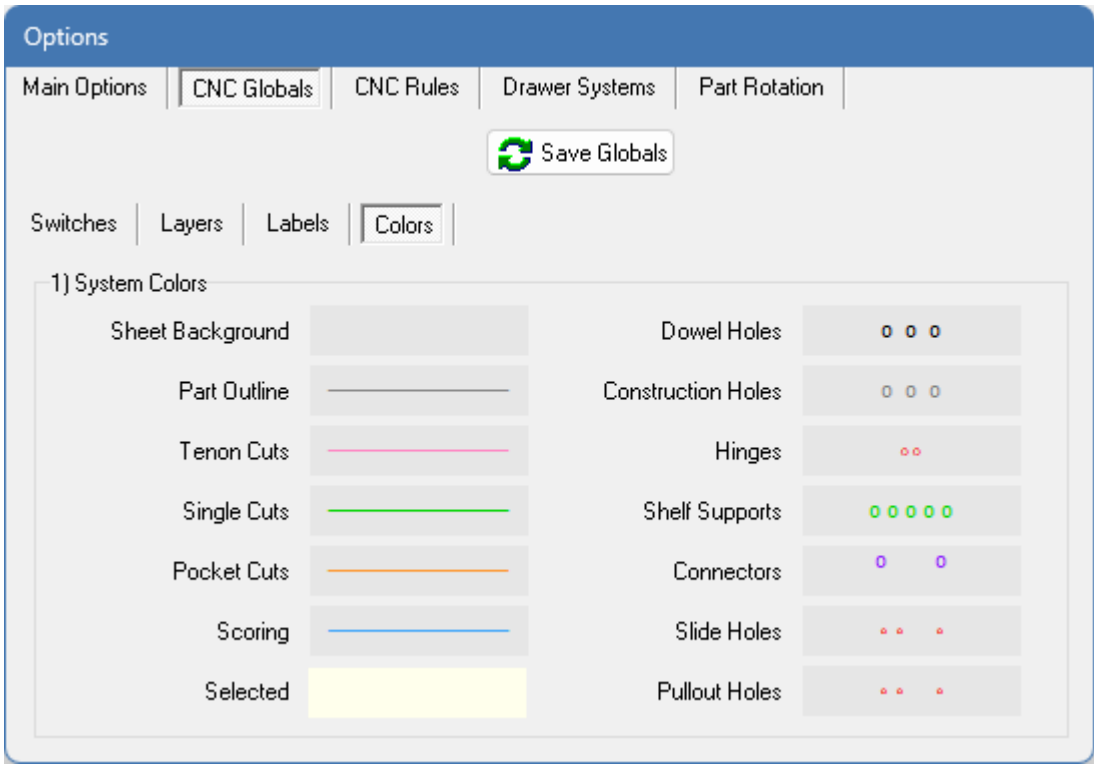


There are also 39 optional check boxes which are used during parts import and may be useful by 3rd party CAM software such as V-Carve

The optional X and Y text boxes are for precision adjustment of DXF labeling. Negative values are converted to 0. Values that have no meaning for example “Center” are internally set to 0.

Colors Tab

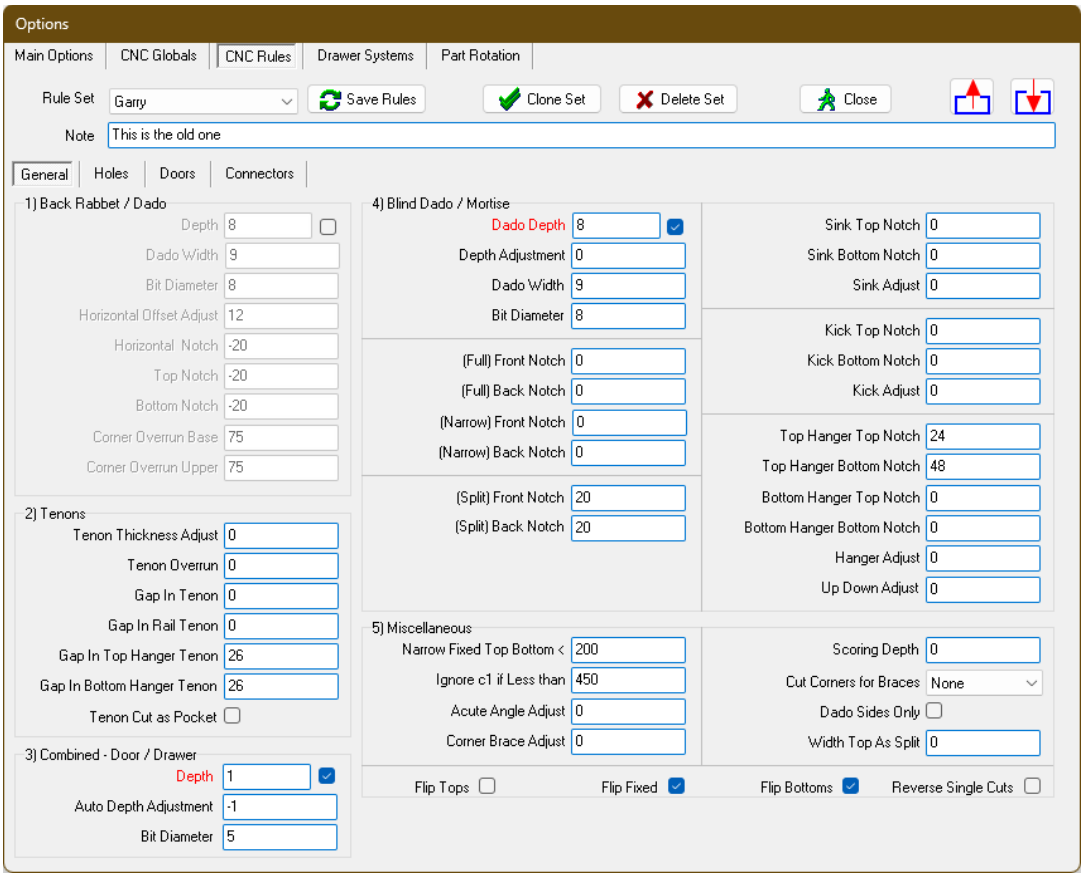
1) System Colors



CNC Rules Tab

These are the general drilling and routing options for CNC routers.

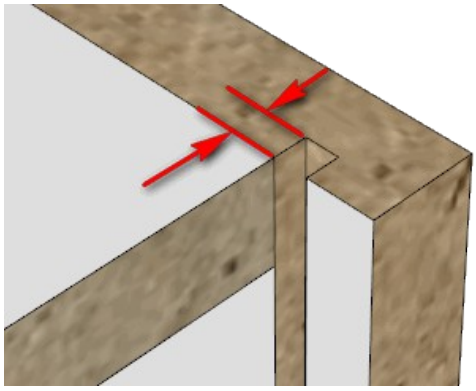
General Tab



1) Back Rabbet / Dado

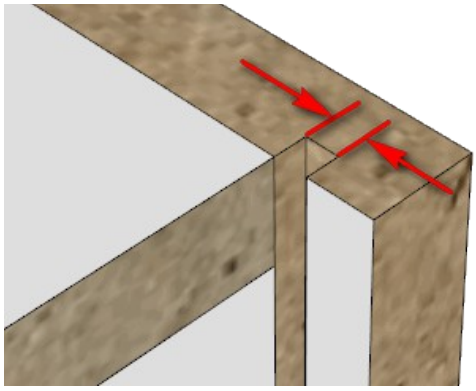
1 Depth

This is the Depth of the Rabbet or Dado. Set this value to 0 if you do not want a back rabbeted or dadoed into the side panels and, top and bottom panels.



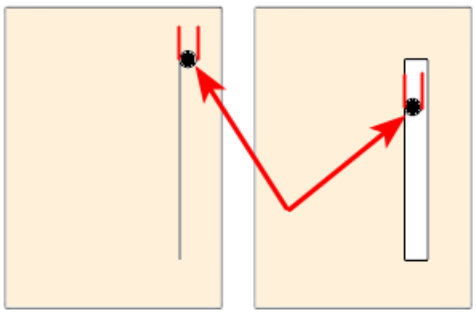
2 Dado Width

This is the width of the Dado or Rabbet. If you use dado's then set this value to the thickness of your backs and make sure that you set Inset Back option to a value. If you rabbet the sides and want the sides to extend past the back then set this value greater than the thickness of your back by the amount you want the sides to overhang the back. Also you must set the Inset Back value to 0 when you use a rabbet.



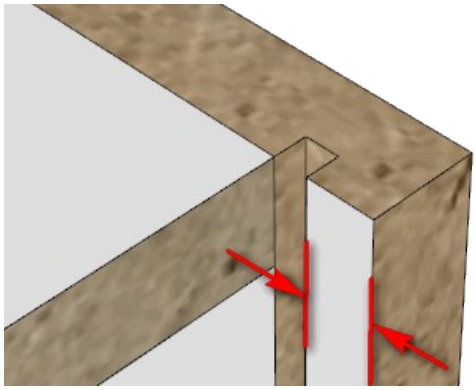
3 Bit Diameter

Single Line mortise uses 1/2 Bit Diameter increasing the length of the mortise. Pocket cuts use the full Bit Diameter.



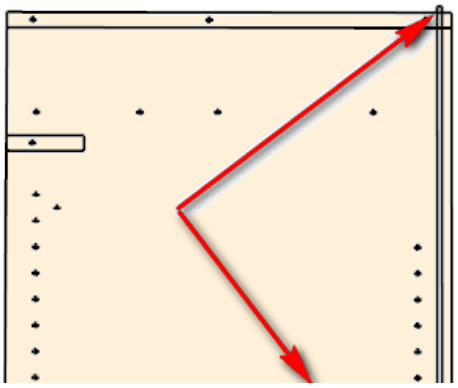
4 Horizontal Offset Adjust

Set this to 0 if your back is flush with the side panel. If you want the back grooves to be dado's then set this value to offset the grooves.



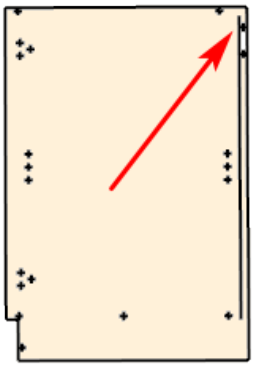
5 Horizontal Notch

This is the actual size of the Notch.



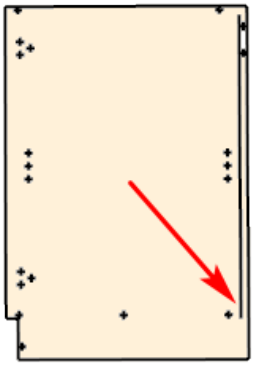
6 Top Notch

The Top Notch is.



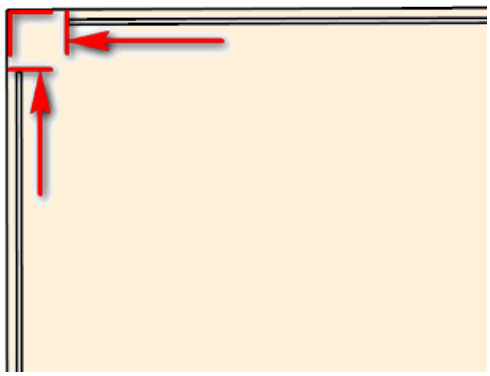
7 Bottom Notch

The Bottom Overrun is the amount that the router goes past the edges of the top panels. Use negative values to keep the routing within the part.



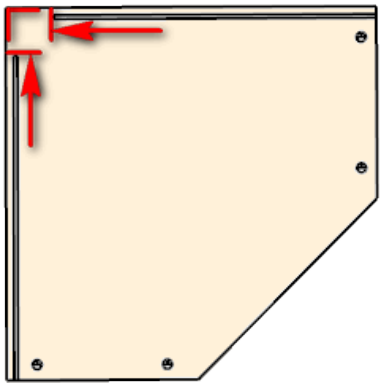
8 Corner Overrun Base

This is for the top and bottom panels for base corner cabinets. If you use corner braces and want the groove to stop where the braces ends then set this value to a larger negative value to accomodate the brace.



9 Corner Overrun Upper

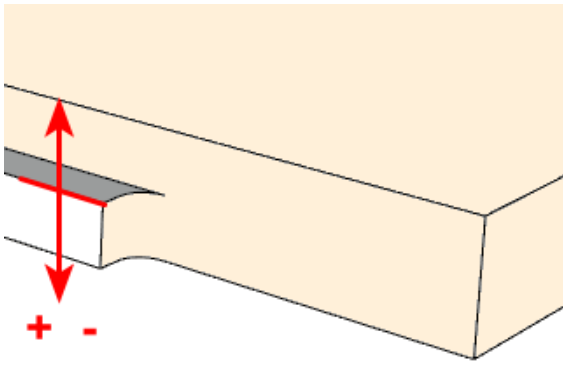
This is for the top and bottom panels for upper corner cabinets. If you use corner braces and want the groove to stop where the braces ends then set this value to a larger negative value to accomodate the brace.



2) Tenons

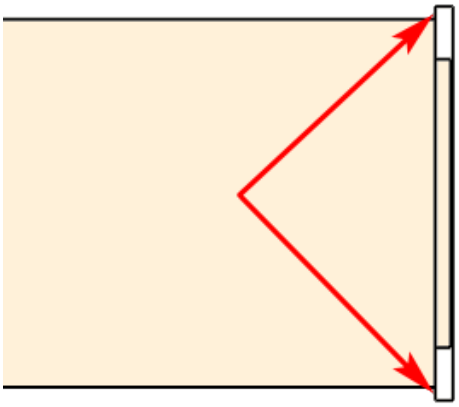
1 Tenon Thickness Adjust

You have fine control to adjust your tenon thickness here. One use is to allow a bit of room for glue.



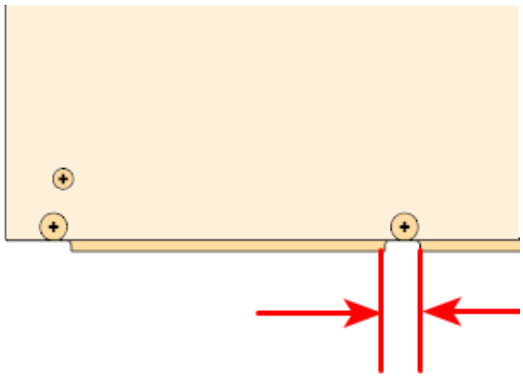
2 Tenon Overrun

Set the tenon Overrun here. A cleaner cut may be achieve with a true overrun.



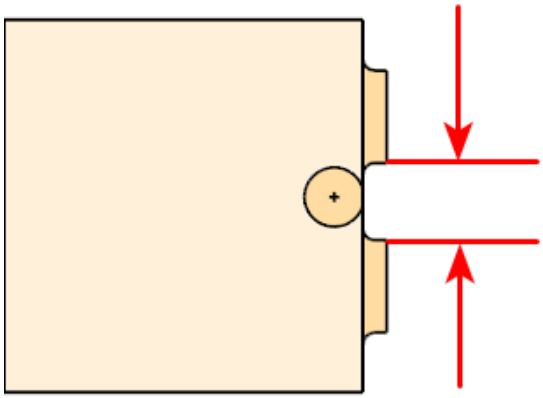
3 Gap In Tenon

If you want a Rafix or a Screw such as a confirmat in the middle of the tenon for bottoms tops or fixed shelves then set the Gap here.



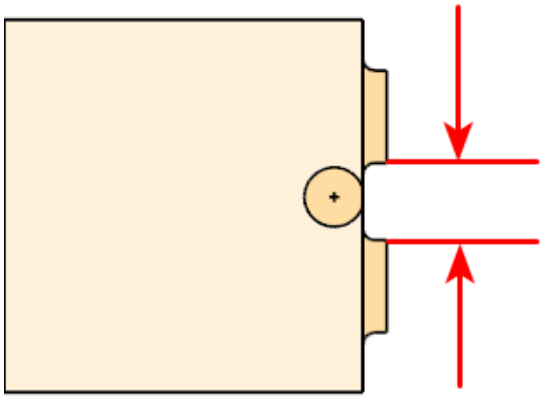
4 Gap In Rail Tenon

If you want a Rafix or a Screw such as a confirmat in the middle of the tenon for stretchers or Split Tops then set the Gap here.



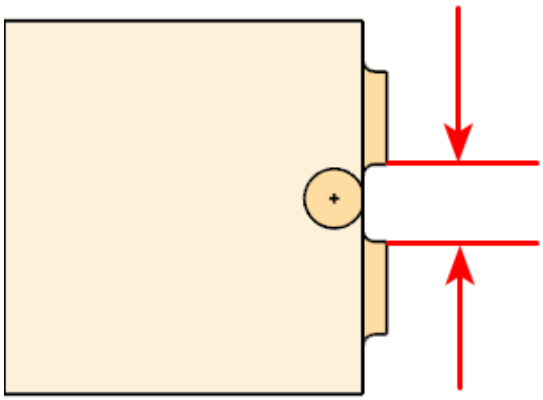
5 Gap In Top Hanger Tenon

If you want a Rafix or a Screw such as a confirmat in the middle of the tenon for Top Hangers then set the Gap here.



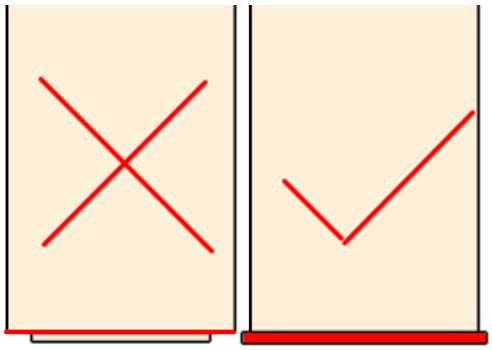
6 Gap In Bottom Hanger Tenon

If you want a Rafix or a Screw such as a confirmat in the middle of the tenon for Top Hangers then set the Gap here.



7 Tenon Cut as Pocket

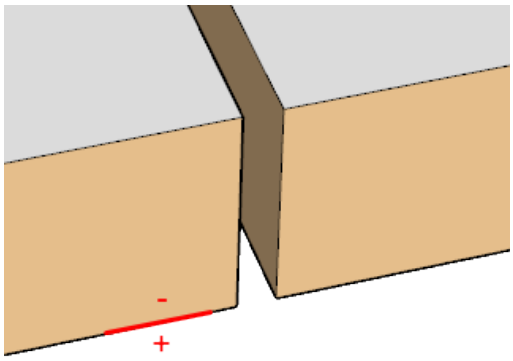
Check this if you want a full pocket for Tenon cuts. Unchecked the CNC router will make a single pass.



3) Combined – Door / Drawer

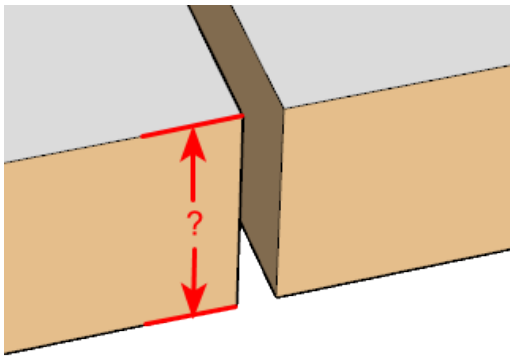
1 Depth

This is the Depth of cut OR a micro adjust if Auto Depth Adjustment is set to -1.



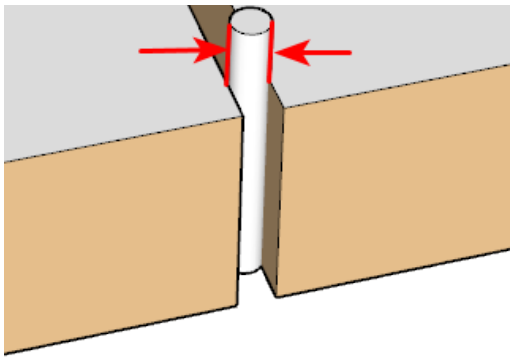
2 Auto Depth Adjustment

Set this to -1 for CutMaster to use the Thickness of the material.



3 Bit Diameter

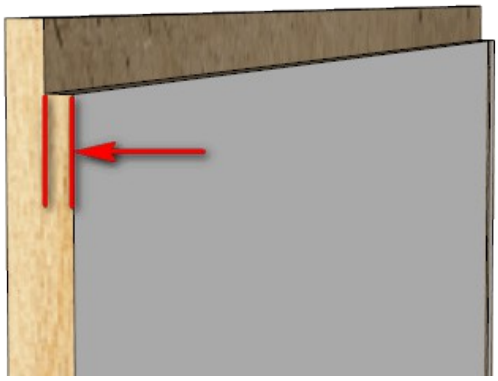
CutMaster calculates over runs and under runs as 1/2 Bit Diameter.



4) Blind Dado / Mortise

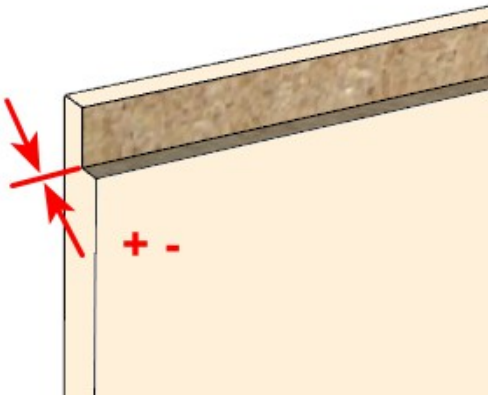
1 Dado Depth

This is the depth of the blind dado. Set this value to 0 if you do not want Blind Dado's.



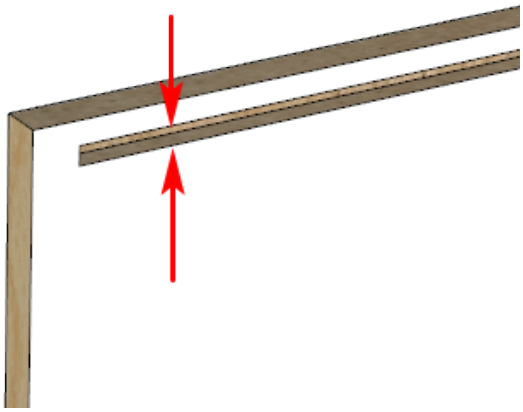
2 Depth Adjustment

Provides additional space for glue.



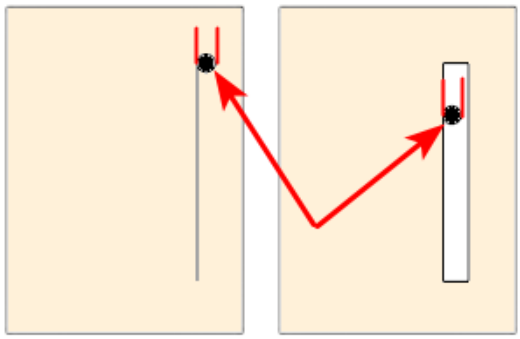
3 Dado Width

This is to set the size of your blind dado. If it is set to 0 then the Dado's width is set to the Bit Diameter



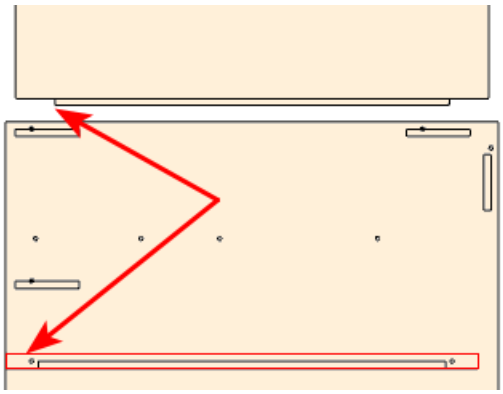
4 Bit Diameter

The Bit Diameter is used to calculate the actual length of the mortise. The mortise is longer than the tenon by the Bit Radius for Single Pass or 2 * Bit Radius for Pocket cuts.



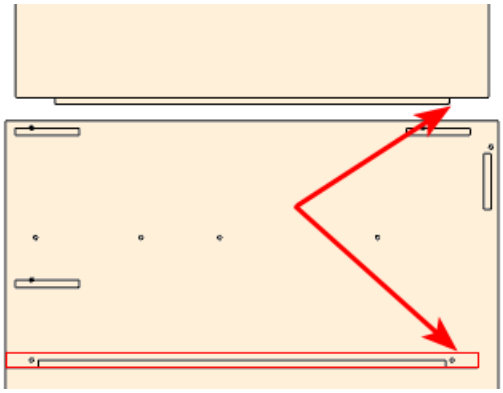
5 (Full) Front Notch

Tops, bottoms and Fixed shelves use the (Full) Front Notch value. The mortise is longer than the tenon by the Bit Radius for Single Pass or 2 * Bit Radius for Pocket cuts.



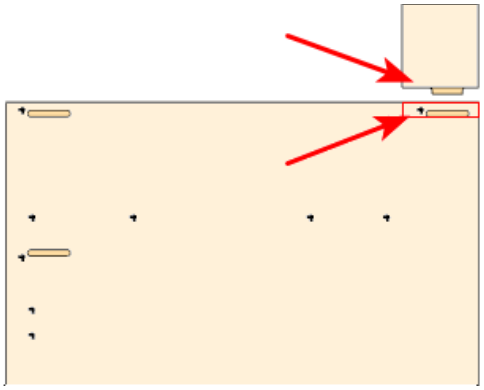
6 (Full) Back Notch

Tops, bottoms and Fixed shelves use the (Full) Back Notch value. The mortise is longer than the tenon by the Bit Radius for Single Pass or 2 * Bit Radius for Pocket cuts.



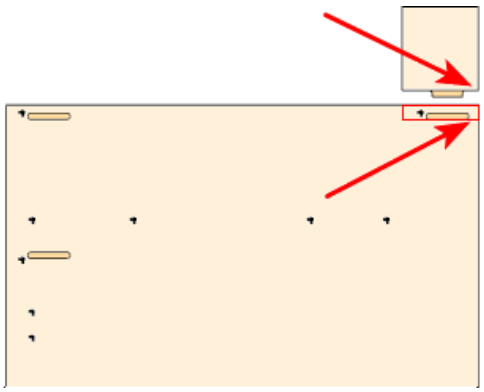
7 (Narrow) Front Notch

Narrow Tops are back portion of the split top and use the (Narrow) Front Notch value. The mortise is longer than the tenon by the Bit Radius for Single Pass or 2 * Bit Radius for Pocket cuts.



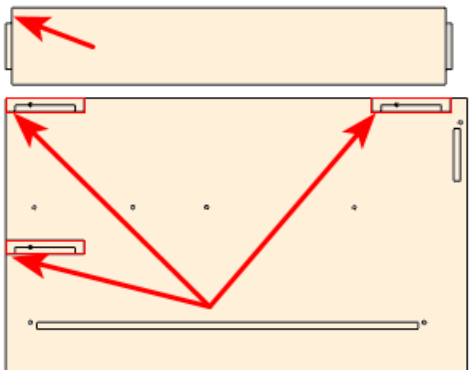
8 (Narrow) Back Notch

Narrow Tops are back portion of the split top and use the (Narrow) Back Notch value. The mortise is longer than the tenon by the Bit Radius for Single Pass or 2 * Bit Radius for Pocket cuts.



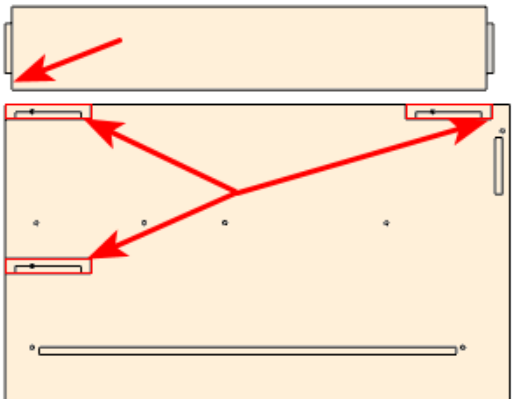
9 (Split) Front Notch

Split Tops and Stretchers use the (Split) Front Notch value. The mortise is longer than the tenon by the Bit Radius for Single Pass or 2 * Bit Radius for Pocket cuts.



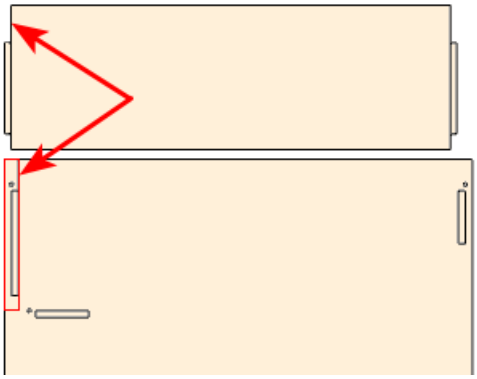
10 (Split) Back Notch

Split Tops and Stretchers use the (Split) Back Notch value. The mortise is longer than the tenon by the Bit Radius for Single Pass or 2 * Bit Radius for Pocket cuts.



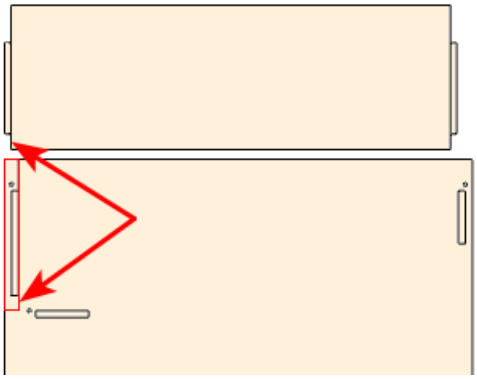
11 Sink Top Notch

Sink Rails use the Sink Top Notch value. The mortise is longer than the tenon by the Bit Radius for Single Pass or 2 * Bit Radius for Pocket cuts.



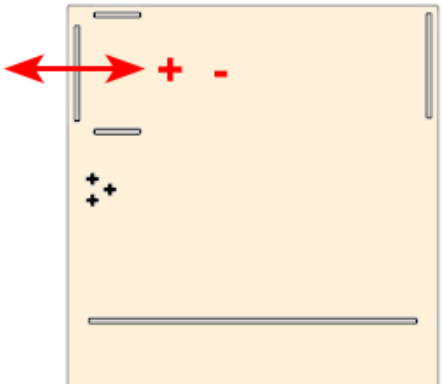
12 Sink Bottom Notch

Sink Rails use the Sink Bottom Notch value. The mortise is longer than the tenon by the Bit Radius for Single Pass or 2 * Bit Radius for Pocket cuts.



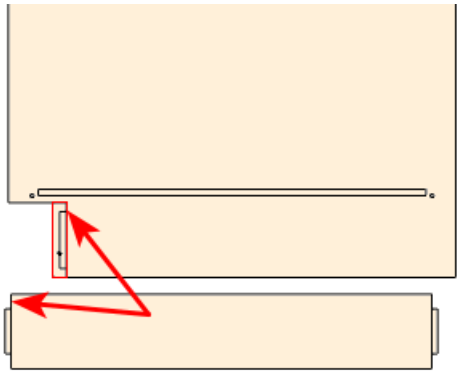
13 Sink Adjust

The Blind Sink Adjust is optional and normally used as a micro adjust to adjust the final placement of the sink rail.



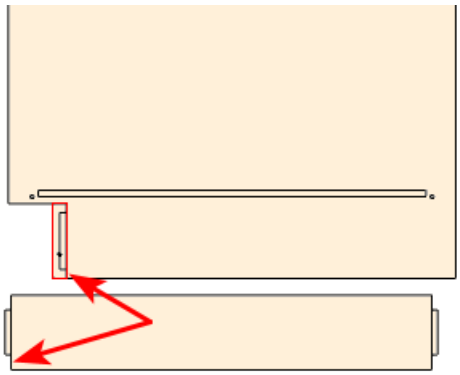
14 Kick Top Notch

This is the Top Notch for kicks. The mortise is longer than the tenon by the Bit Radius for Single Pass or 2 * Bit Radius for Pocket cuts.



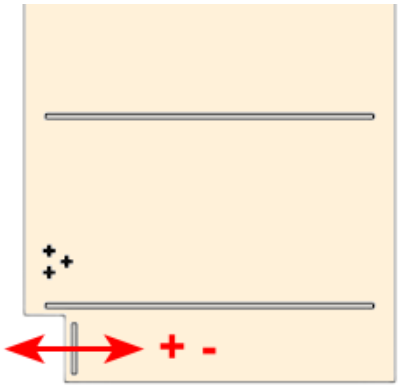
15 Kick Bottom Notch

This is the Bottom Notch for kicks. The mortise is longer than the tenon by the Bit Radius for Single Pass or 2 * Bit Radius for Pocket cuts.



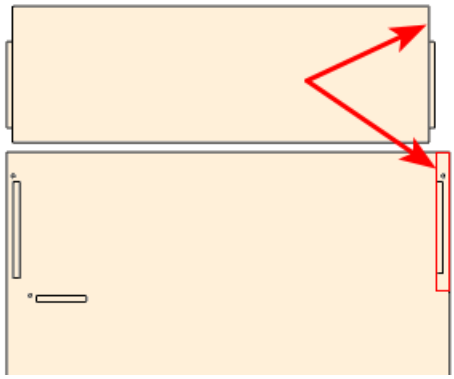
16 Kick Adjust

The Kick Adjust is optional and normally used as a micro adjust to adjust the final placement of the Kick.



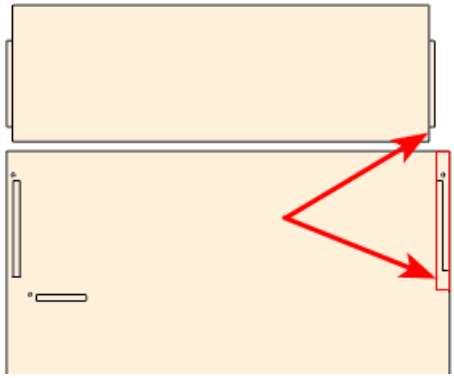
17 Top Hanger Top Notch

This is the Top Notch for Top Hangers. The mortise is longer than the tenon by the Bit Radius for Single Pass or 2 * Bit Radius for Pocket cuts.



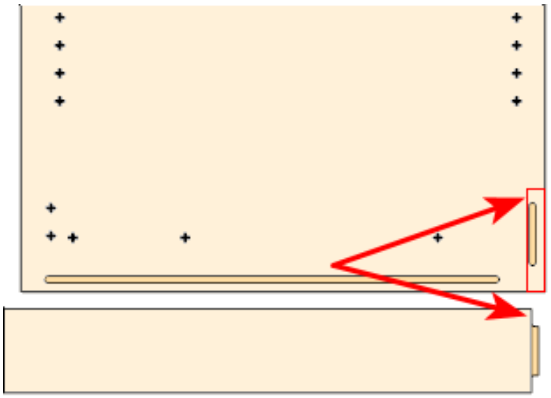
18 Top Hanger Bottom Notch

This is the Bottom Notch for Top Hangers. The mortise is longer than the tenon by the Bit Radius for Single Pass or 2 * Bit Radius for Pocket cuts.



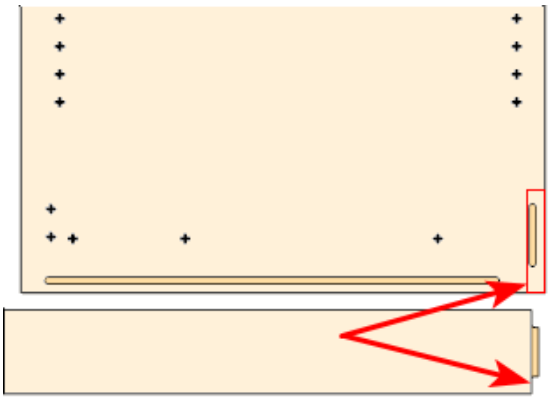
19 Bottom Hanger Top Notch

This is the Top Notch for Bottom Hangers. The mortise is longer than the tenon by the Bit Radius for Single Pass or 2 * Bit Radius for Pocket cuts.



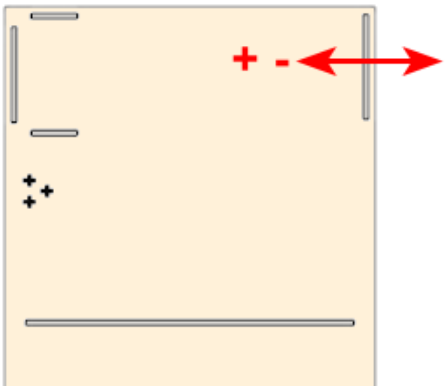
20 Bottom Hanger Bottom Notch

This is the Bottom Notch for Bottom Hangers. The mortise is longer than the tenon by the Bit Radius for Single Pass or 2 * Bit Radius for Pocket cuts.



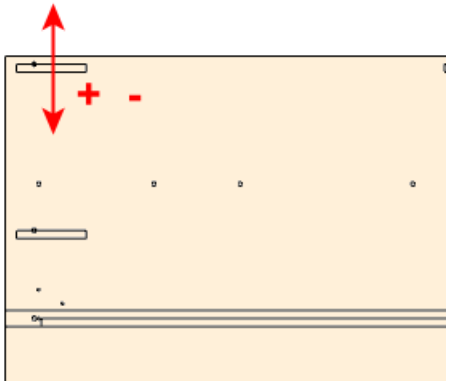
21 Hanger Adjust

The Hanger Adjust is optional and normally used as a micro adjust to adjust the final placement of the Hanger Rail.



22 Up Down Adjust

This allows you to dial in the Tops using a micro adjust.



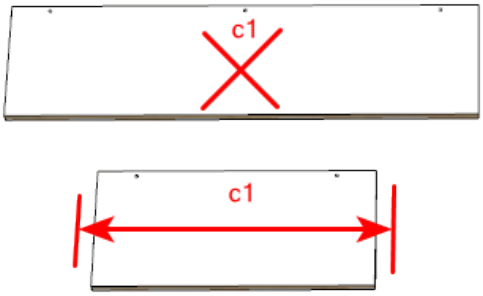
5) Miscellaneous

1 Narrow Fixed Top Bottom

Narrow width parts use different parameters than wider parts.

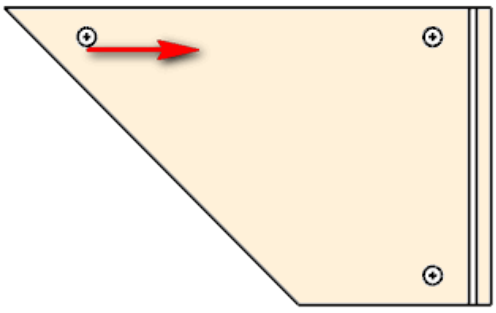
2 Ignore c1 if Less than

Reduce the number of holes or gaps for narrow parts where there isn't enough width.



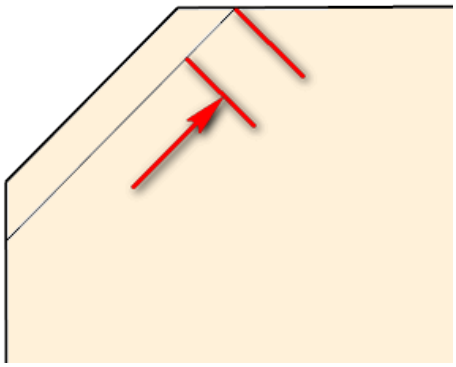
3 Acute Angle Adjust

Angled End Cabinets have Tops and Bottoms that have an acute (45 degree) angle. This parameters adjusts front Connectors, Construction holes and Dowel holes by this amount.



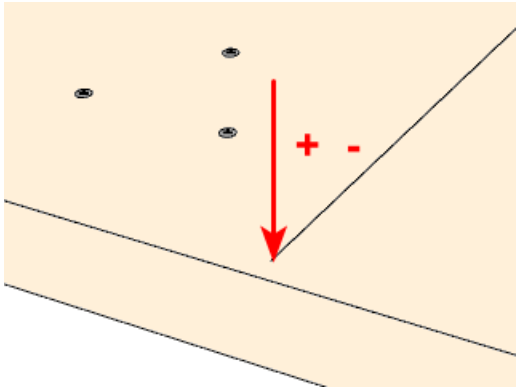
4 Corner Brace Adjust

Top and bottom shelves may have the back corner lopped off. In this case if you want the back brace to sit on top of the bottom at the corner then you need to provide an adjustment which is 2 X brace thickness.



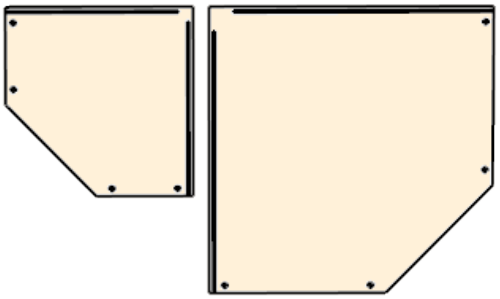
5 Scoring Depth

Set the Scoring Depth for all score lines and for DXF labeling. Some examples of scoring lines include Stretchers and Fixed shelves.

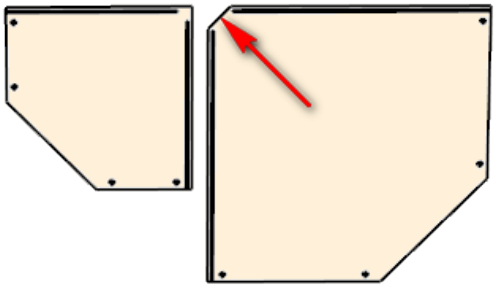


6 Cut Corners for Braces

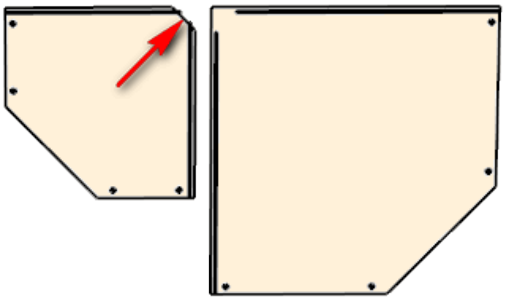
You can now optionally cut the corners off of tops and bottoms for corner cabinets. You can choose None, Base, Uppers or Both.



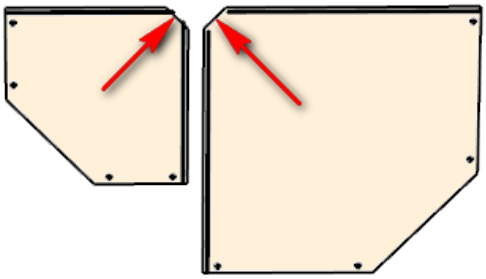
None



Base



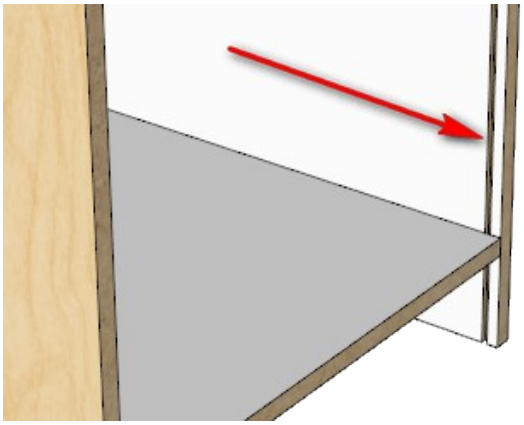
Uppers



Both

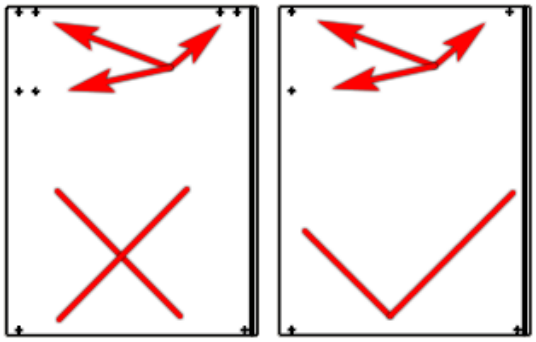
7 Dado Sides Only

Check this option if your backs dado into the sides but not into the tops and bottoms.



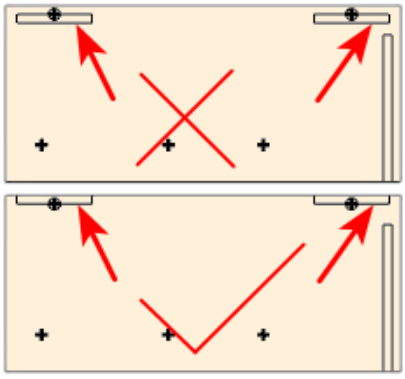
8 Width Top As Split

This is the width of the top when it is a split top. This refers to the second top which is close to the back of the cabinet.



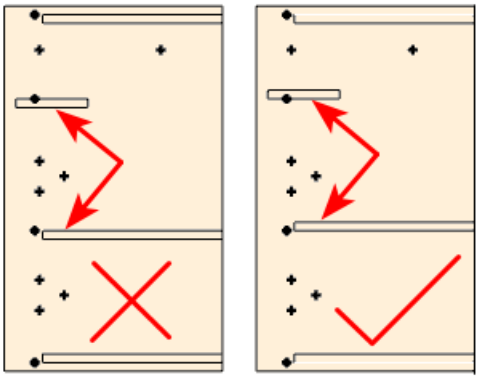
9 Flip Tops

Check this to place Tops - Bottom surface up.



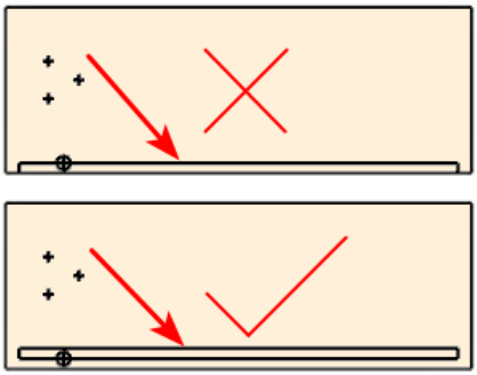
10 Flip Fixed

Check this to place Fixed Shelves and Stretchers - Bottom surface up.



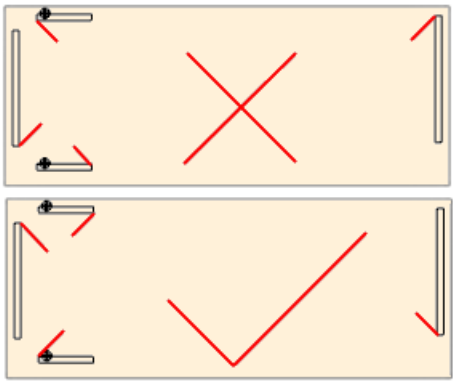
11 Flip Bottoms

Check this to place Bottoms - Bottom surface up.



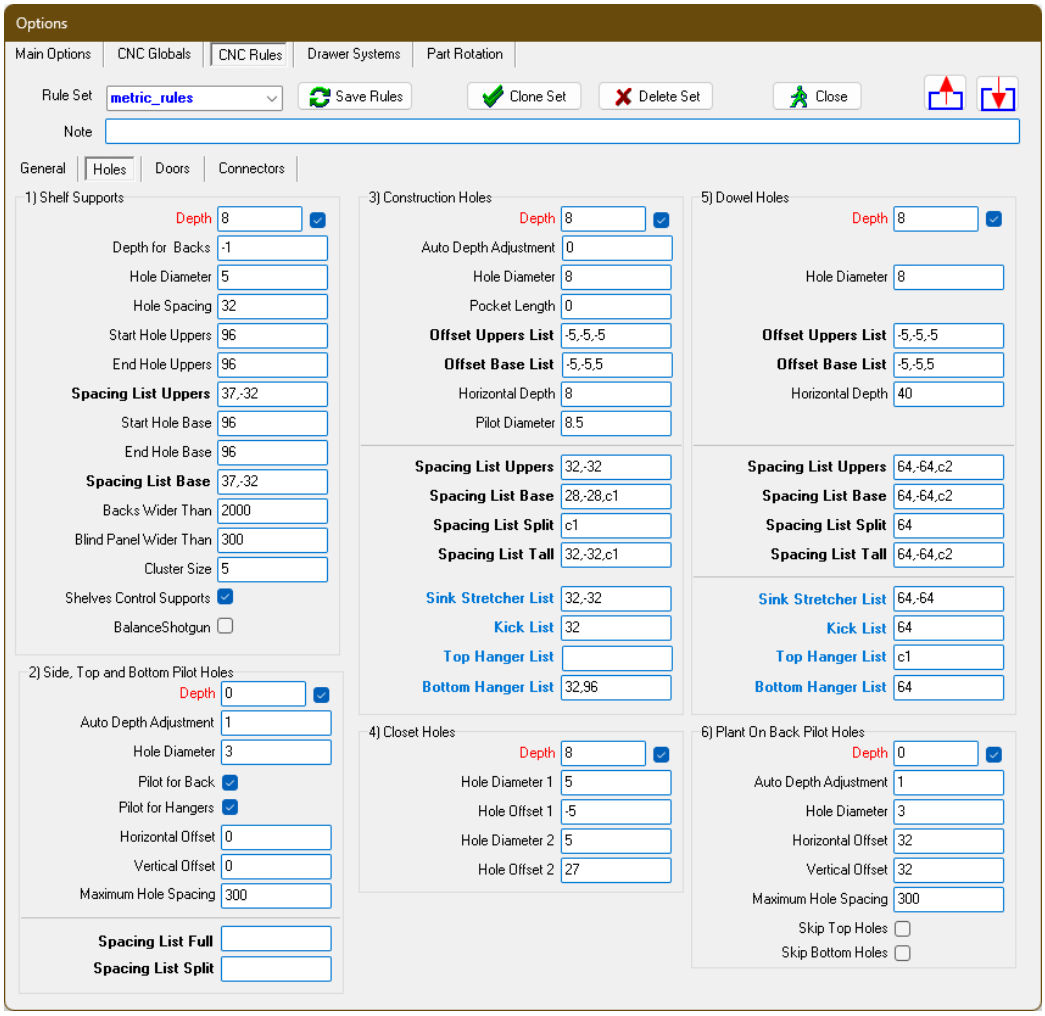
12 Reverse Single Cuts

Check this if you need to change router directions.



Holes Tab

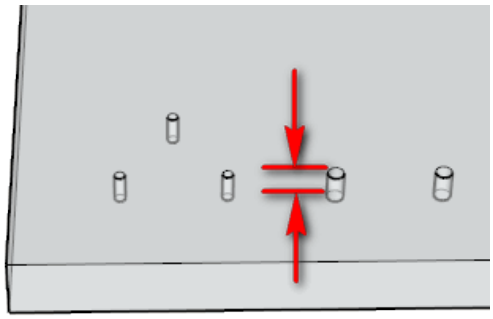
These are mostly for Side Panels and are Construction Holes, Dowel Holes and Rules.



1) Shelf Supports

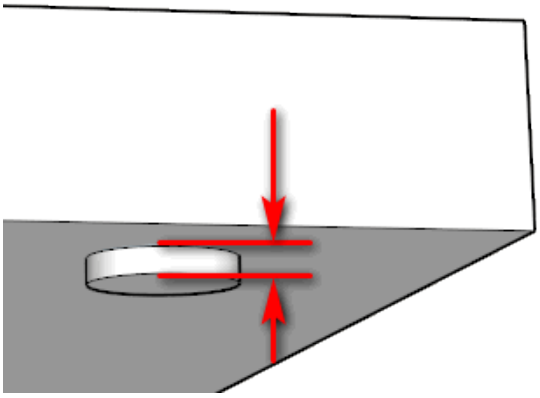
1 Depth

This is the depth of the hole for Shelf Supports. Set to 0 if you do not want Shelf Support holes.



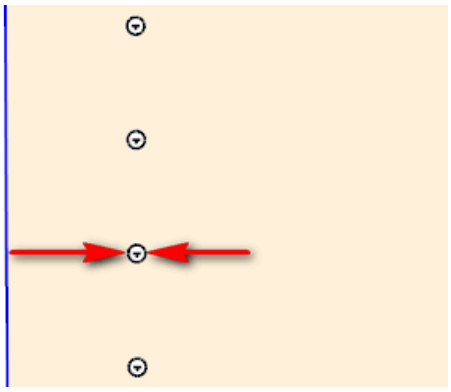
2 Depth for Backs

Set this parameter to -1 if you do not want to use it. If you provide it with a value then the Depth setting is ignored and the Depth will be determined by the thickness of the Sides.



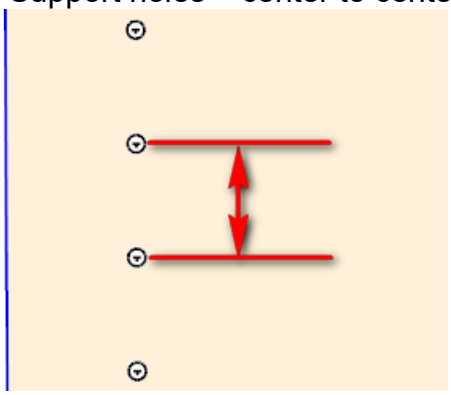
3 Hole Diameter

This is the diameter of the hole for shelf supports.



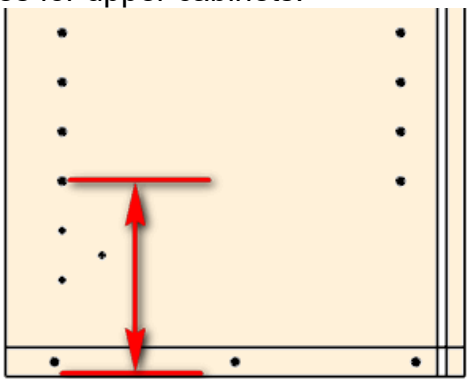
4 Hole Spacing

This is distance between Shelf Support holes – center to center. Typically this is 32 mm.



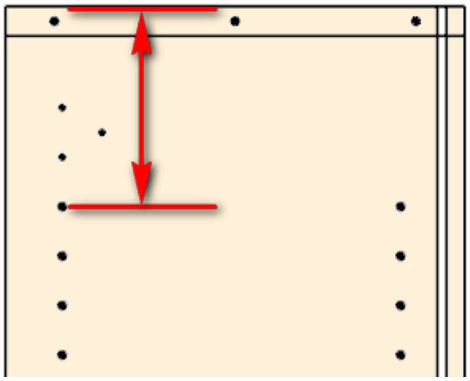
5 Start Hole Uppers

This is the distance to the center of the first hole from the bottom of the side panel. This is used for each column of holes for upper cabinets.



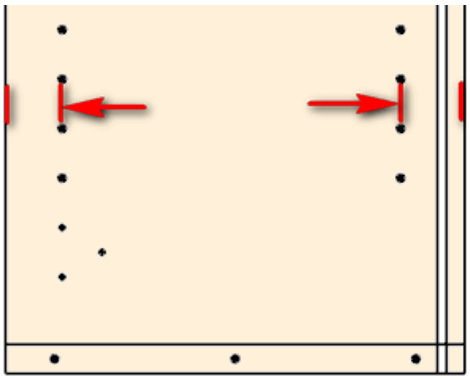
6 End Hole Uppers

This is primarily used to determine the number of shelf holes. The center of the top shelf hole will not be any closer than this value to the top of the opening. This is used for each column of holes for upper cabinets.



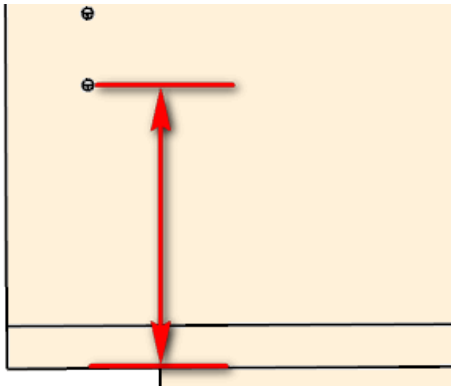
7 Spacing List Uppers

This is a list of distances to the center of the holes from the front edge and from the back edge of the side panel for upper cabinets. The list is separated by commas. Values that are positive are from the front edge and values that are negative are from the back edge. Typically the first column of holes is at 37 mm.



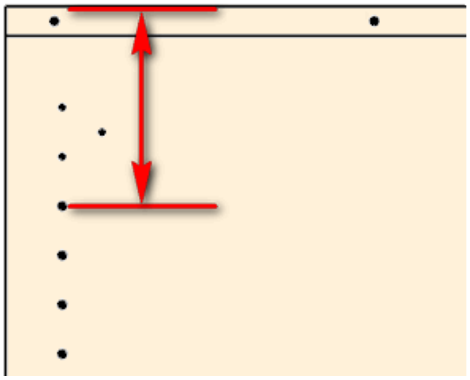
8 Start Hole Base

This is the distance to the center of the first hole from the bottom of the side panel. This is used for each column of holes for base cabinets.



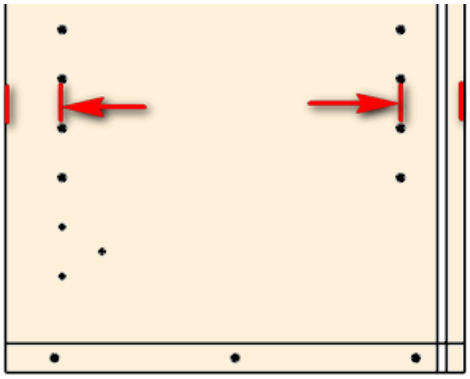
9 End Hole Base

This is primarily used to determine the number of shelf holes. The center of the top shelf hole will not be any closer than this value to the top of the opening. This is used for each column of holes for base cabinets.



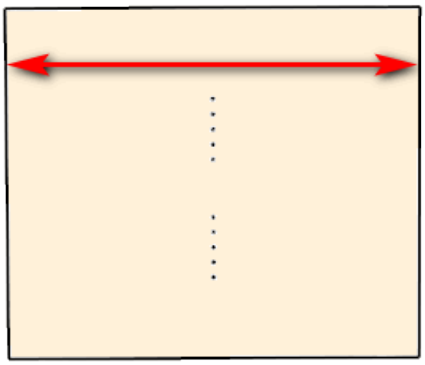
10 Spacing List Base

This is a list of distances to the center of the holes from the front edge and from the back edge of the side panel for base cabinets. The list is separated by commas. Values that are positive are from the front edge and values that are negative are from the back edge. Typically the first column of holes is at 37 mm.



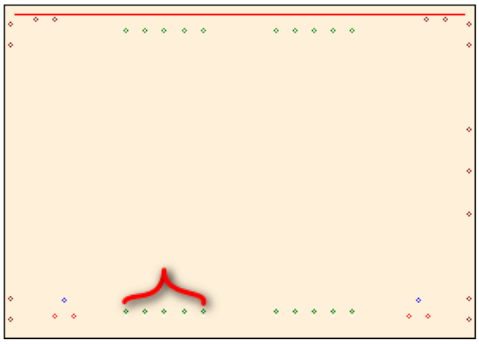
11 Backs Wider Than

Set this to a large number if you do not want shelf supports in the middle of backs.



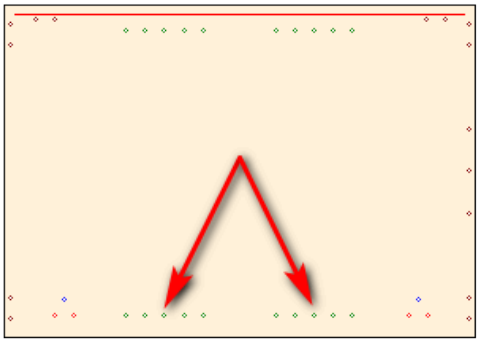
12 Cluster Size

In this example the Cluster Size is 5 and the bottom face of the adjustable shelf controls the position of the middle support hole. You can use an even number. Then the extra hole is placed below the shelf.



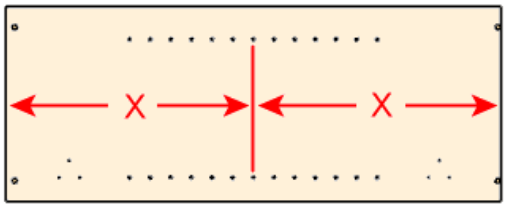
13 Shelves Control Supports

Adjustable shelf information comes across with Sides, Middle partitions, Corner braces etc. and is used to determine if there needs to be shelf supports or not.



14 Balance Shotgun

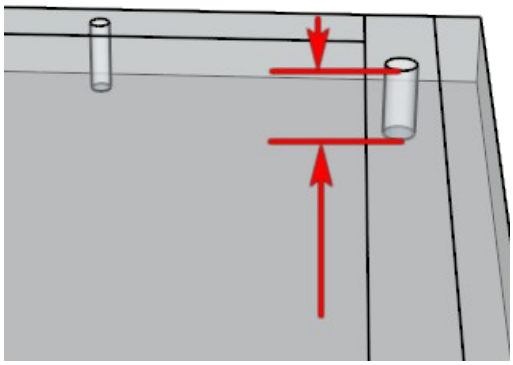
Adjust shelf supports to be centered to ensure a balanced panel.



2) Side, Top and Bottom Pilot Holes

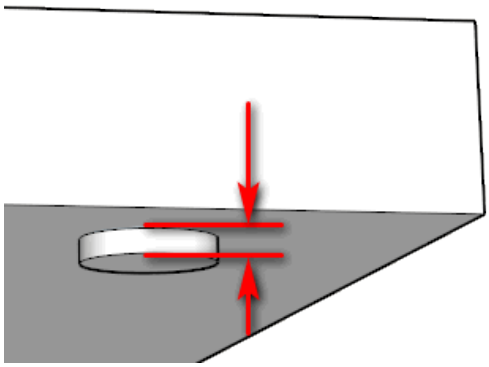
1 Depth

This is the depth of the pilot holes. Set this value to 0 if you do not want Pilot Holes.



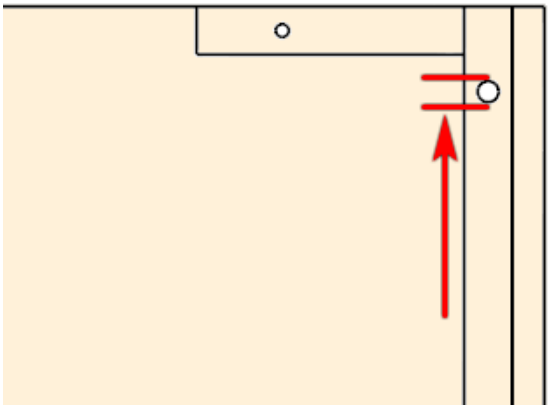
2 Auto Depth Adjustment

Set this parameter to -1 if you do not want to use it. If you provide it with a value then the Depth setting is ignored and the Depth will be determined by the thickness of the Sides.



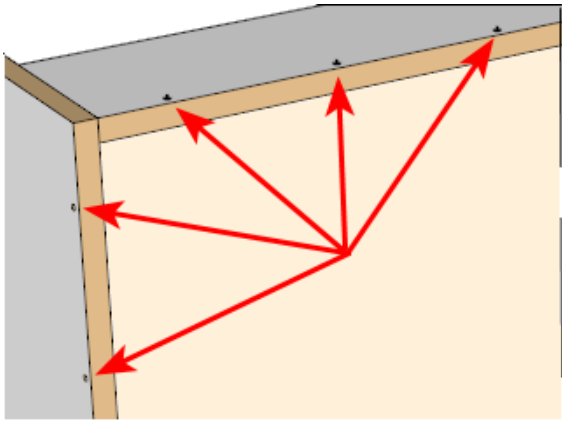
3 Hole Diameter

This is the diameter of the pilot holes.



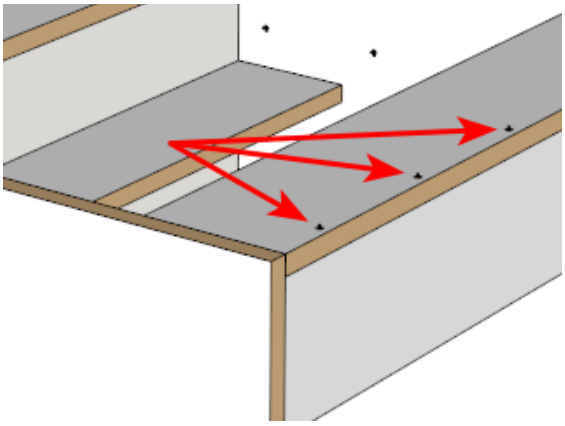
4 Pilot for Back

Turn on / off Pilot holes going through the Side, Top and Bottom to connect to the Back.



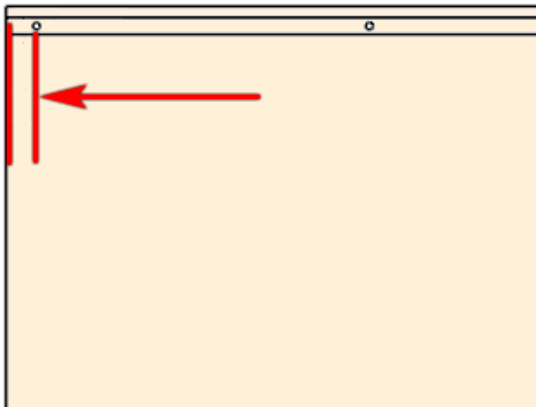
5 Pilot for Hangers

Turn on / off Pilot holes going through Top and or Bottom to connect to Hangers.



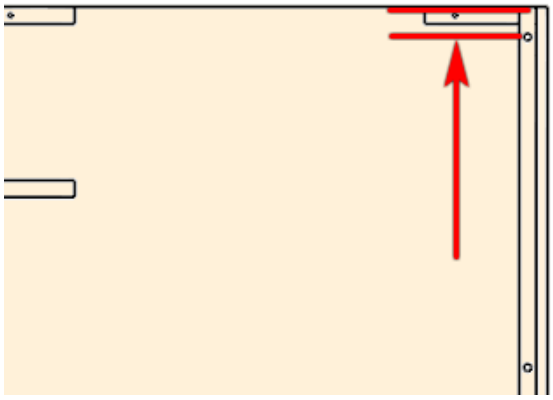
6 Horizontal Offset

Set this to 0 if you don not want Pilot Holes close to the edge. Otherwise the pilot hole center will be this distance from both horizontal edges



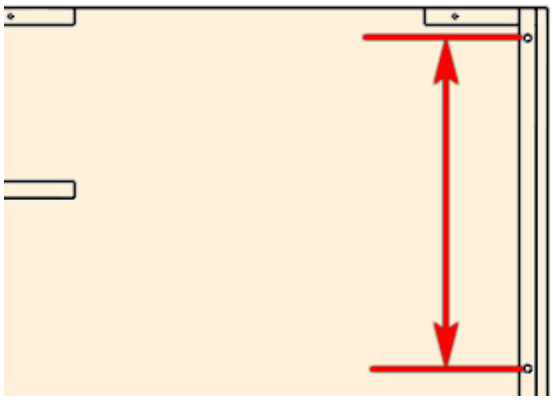
7 Vertical Offset

Set this to 0 if you don not want Pilot Holes close to the edge. Otherwise the pilot hole center will be this distance from both vertical edges.



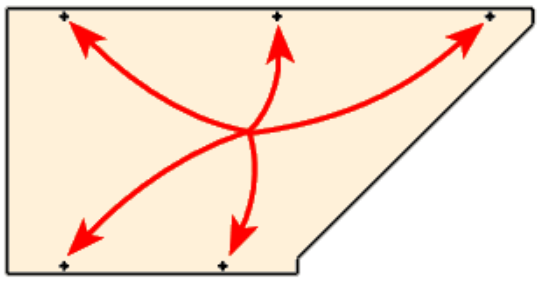
8 Maximum Hole Spacing

This is the maximum allowable distance between pilot holes. This could be from the edge of the panel or from the center of the hole at the offset.



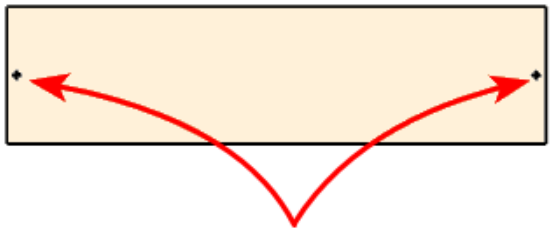
9 Spacing List Full

Overlay Construction has optional pilot holes for Full Tops and Bottoms.



10 Spacing List Split

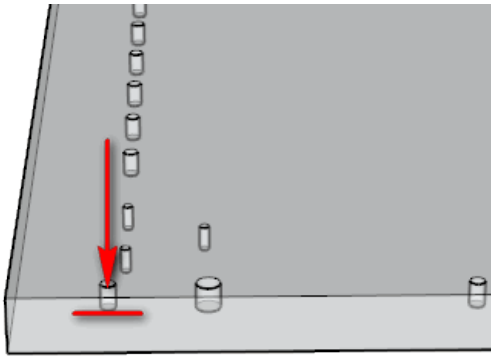
Overlay Construction has optional pilot holes for Split Tops.



3) Construction Holes

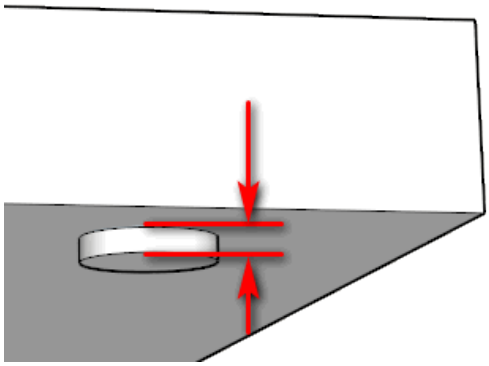
1 Depth

This is the depth of the construction hole. Set this value to 0 if you do not want Construction Holes.



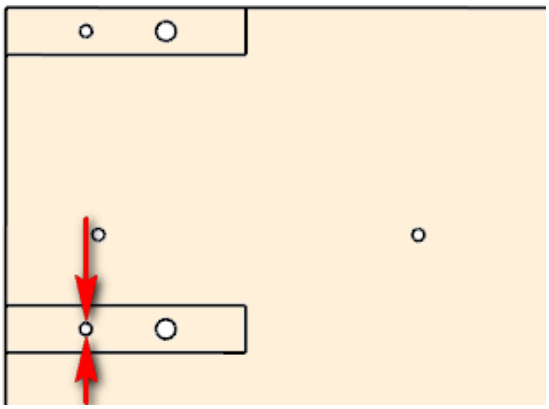
2 Auto Depth Adjustment

Set this parameter to -1 if you do not want to use it. If you provide it with a value then the Depth setting is ignored and the Depth will be determined by the thickness of the Sides.



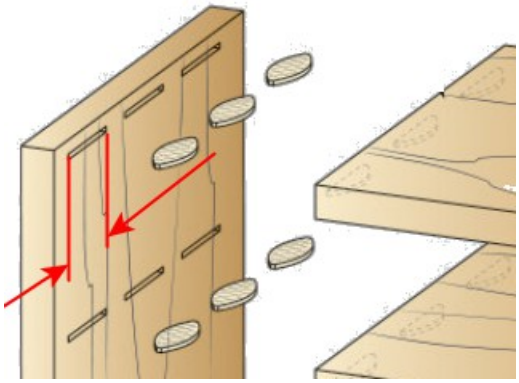
3 Hole Diameter

This is the diameter of Construction holes.



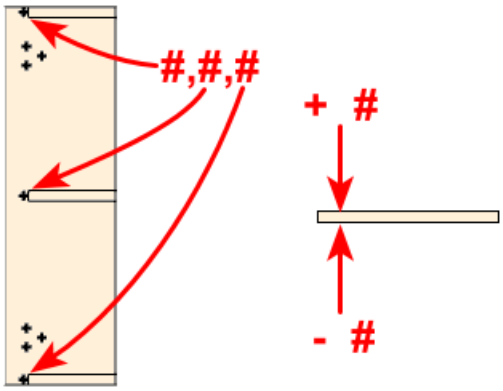
4 Pocket Length

Provides support for Festool Domino and Lamello.



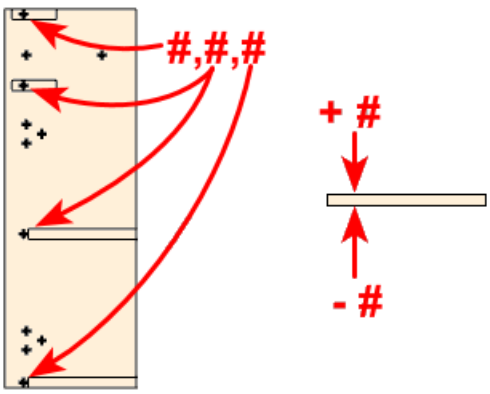
5 Offset Uppers List

For Upper cabinet tops, fixed shelves and bottom construction holes, enter the offset for each part separated by a comma. Please note that the first value is for tops, the second value is for stretchers and fixed shelves and the third value is for bottoms.



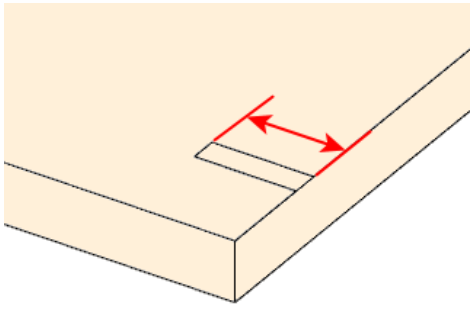
6 Offset Base List

For Base cabinet tops, fixed shelves and bottom construction holes, enter the offset for each part separated by a comma. Please note that the first value is for tops, the second value is for stretchers and fixed shelves and the third value is for bottoms.



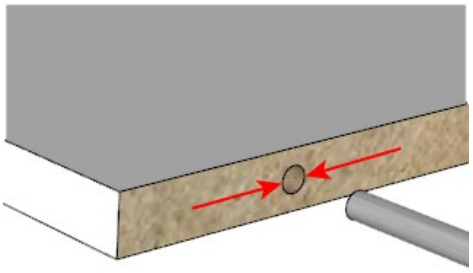
7 Horizontal Depth

This is intended to handle edge drilling for the length of the dowels. It is only supported for 3D Dxf files where there is one part per dxf.



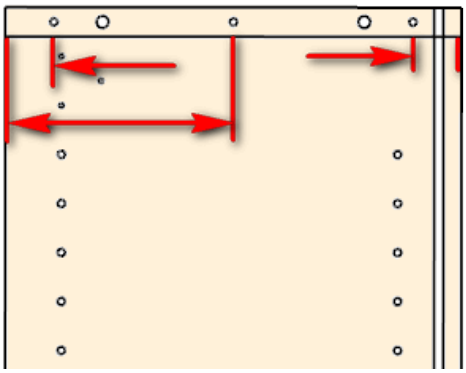
8 Pilot Diameter

Not yet supported. This is intended to handle edge drilling for the pilot holes for confirmats.



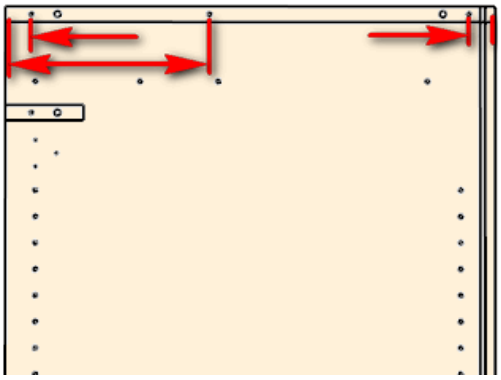
9 Spacing List Uppers

This is a list of distances to the center of the holes from the front edge and from the back edge of the side panel for upper cabinets. The list is separated by commas. Values that are positive are from the front edge and values that are negative are from the back edge. Additionally you can provide one of two formula parameters “c1” and “c2” as the final item in the list. So “32,-40,c1” means 32 mm from the front edge, 40 mm from the back edge and calculate where to put the a hole in between the other two.



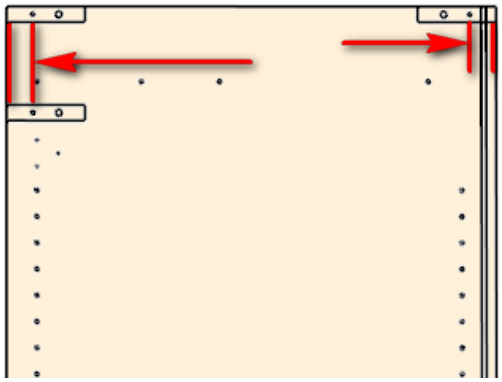
10 Spacing List Base

This is a list of distances to the center of the holes from the front edge and from the back edge of the side panel for base cabinets. The list is separated by commas. Values that are positive are from the front edge and values that are negative are from the back edge. Additionally you can provide one of two formula parameters “c1” and “c2” as the final item in the list. So “32,-40,c1” means 32 mm from the front edge, 40 mm from the back edge and calculate where to put the a hole in between the other two.



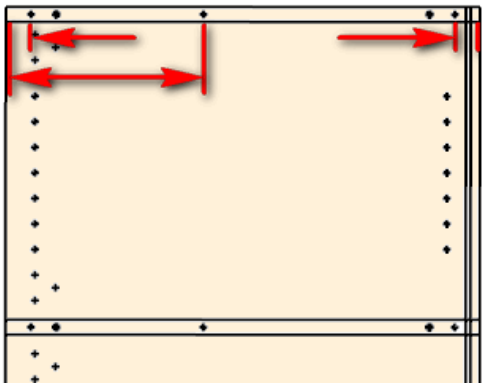
11 Spacing List Split

This is a list of distances to the center of the holes from the front edge and from the back edge of the side panel for base cabinets where they have Split Tops. The list is separated by commas. Values that are positive are from the front edge and values that are negative are from the back edge. “c1” and “c2” are supported here.



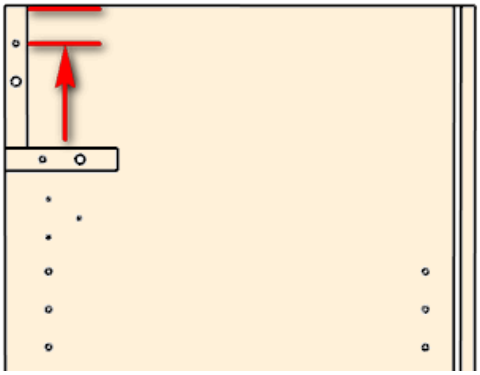
12 Spacing List Tall

This is a list of distances to the center of the holes from the front edge and from the back edge of the side panel. The list is separated by commas. Values that are positive are from the front edge and values that are negative are from the back edge. This extra list allows you to have additional connectors for tall cabinets. “c1” and “c2” are supported here.



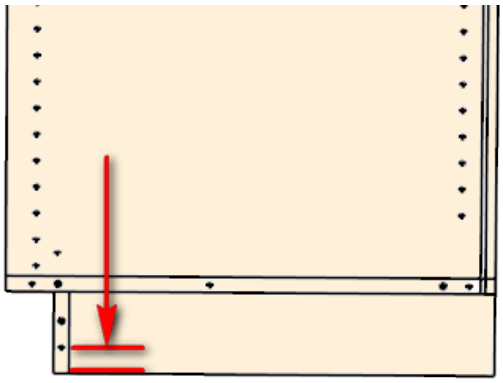
13 Sink Stretcher List

The Sink Stretcher is a special case and is usually required when the sink cabinet does not have a top. Panel



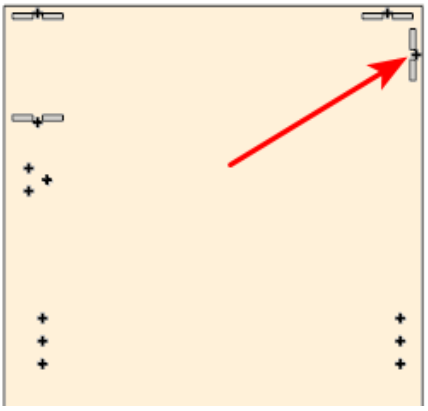
14 Kick List

Used by Side Panels for Base cabinets with integrated kicks. Currently only supporting kicks that are between the Side Panels.



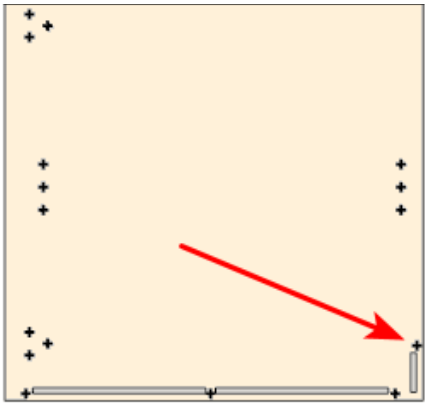
15 Top Hanger List

Used by Side Panels for drilling of the Top Hangers.



16 Bottom Hanger List

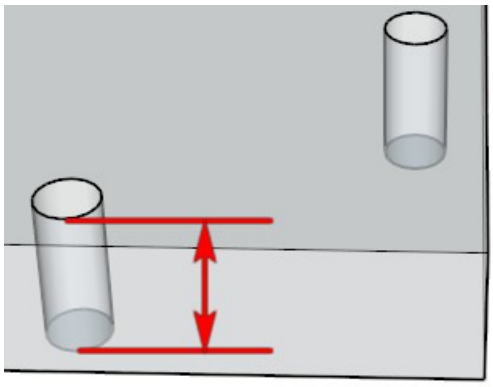
Used by Side Panels for drilling of the Bottom Hangers.



5) Closet Holes

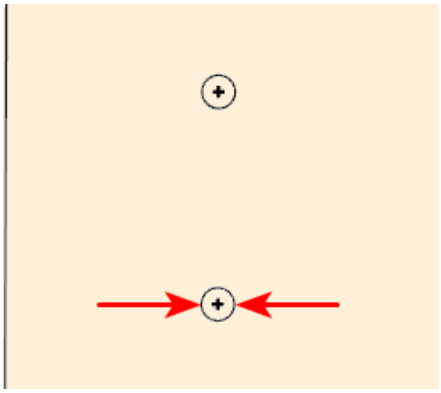
1 Depth

This is the Depth for the Closet Holes. You can have 1 or 2 holes.



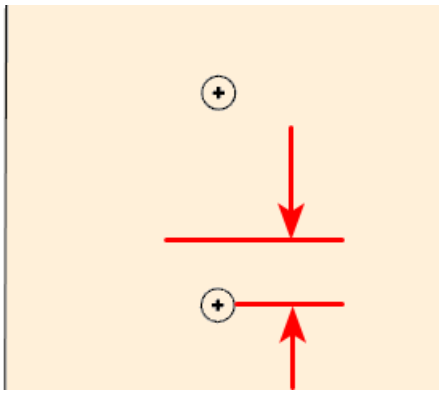
2 Hole Diameter 1

This is the diameter of the first closet hole. One hole may be for the closet rod or for a fixing screw. The second hole may be used for a fixing screw.



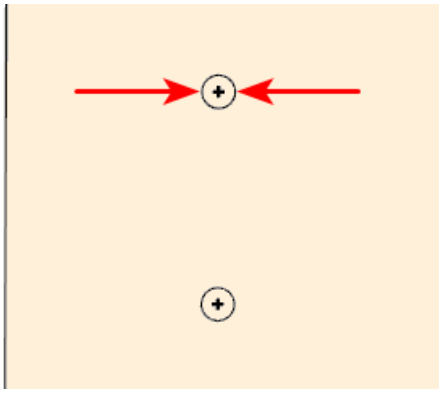
3 Hole Offset 1

This is the Vertical Offset from the center of the Closet Rod. The offset can be a positive or negative value.



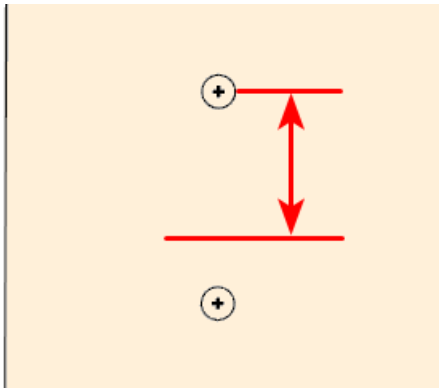
4 Hole Diameter 2

This is the diameter of the first closet hole. One hole may be for the closet rod or for a fixing screw. The second hole may be used for a fixing screw.



5 Hole Offset 2

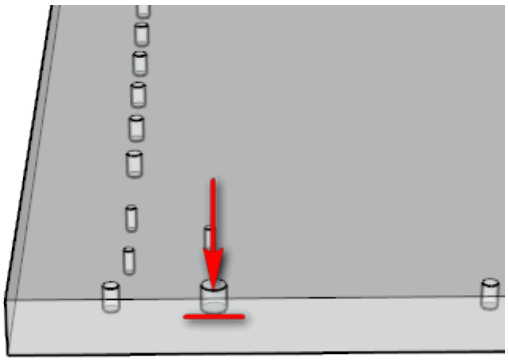
This is the Vertical Offset from the center of the Closet Rod. The offset can be a positive or negative value.



5) Dowel Holes

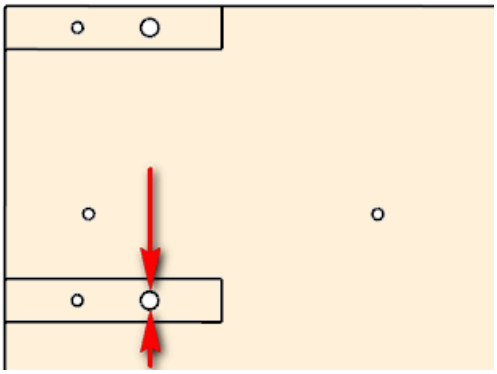
1 Depth

This is the depth of the dowel holes. Set this value to 0 if you do not want Dowel Holes.



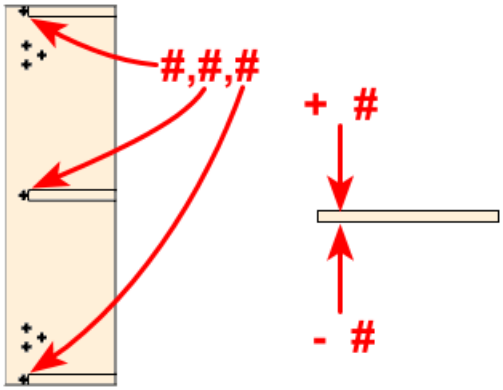
2 Hole Diameter

This is the diameter of the Dowel Hole.



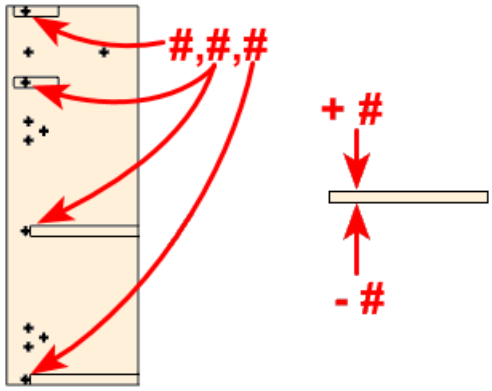
3 Offset Uppers List

For Upper cabinet tops, fixed shelves and bottom dowel holes, enter the offset for each part separated by a comma. Please note that the first value is for tops, the second value is for stretchers and fixed shelves and the third value is for bottoms.



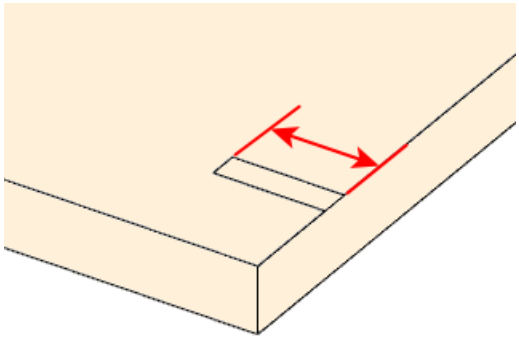
4 Offset Base List

For Base cabinet tops, fixed shelves and bottom dowel holes, enter the offset for each part separated by a comma. Please note that the first value is for tops, the second value is for stretchers and fixed shelves and the third value is for bottoms.



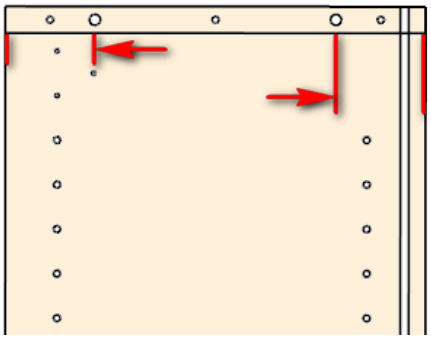
5 Horizontal Depth

This is intended to handle edge drilling for the length of the construction holes. It is only supported for 3D Dxf files where there is one part per dxf. This feature is not currently supported.



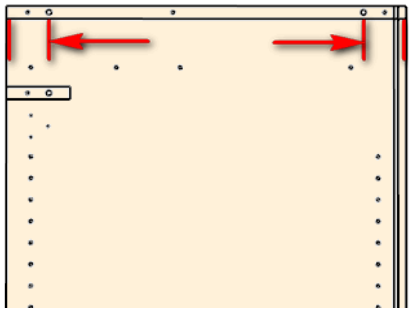
6 Spacing List Uppers

This is a list of distances to the center of the holes from the front edge and from the back edge of the side panel for upper cabinets. The list is separated by commas. Positive values are from the front edge and negative values are from the back edge. “c1” and “c2” are supported here.



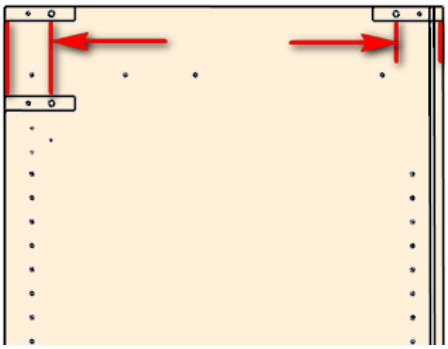
7 Spacing List Base

This is a list of distances to the center of the holes from the front edge and from the back edge of the side panel for base cabinets. The list is separated by commas. Positive values are from the front edge and negative values are from the back edge. “c1” and “c2” are supported here.



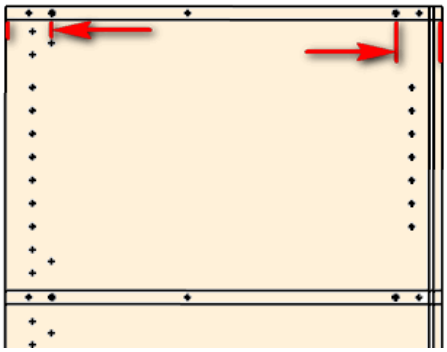
8 Spacing List Split

This is a list of distances to the center of the holes from the front edge and from the back edge of base cabinet side panels with Split Tops. The list is separated by commas. Positive values are from the front edge and negative values are from the back edge. “c1” and “c2” are supported here.



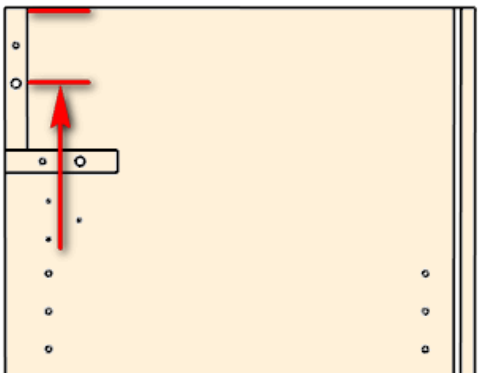
9 Spacing List Tall

This is a list of distances to the center of the holes from the front edge and from the back edge of the side panel. The list is separated by commas. Positive values are from the front edge and negative values are from the back edge. This extra list allows you to have additional connectors for tall cabinets. “c1” and “c2” are supported here.



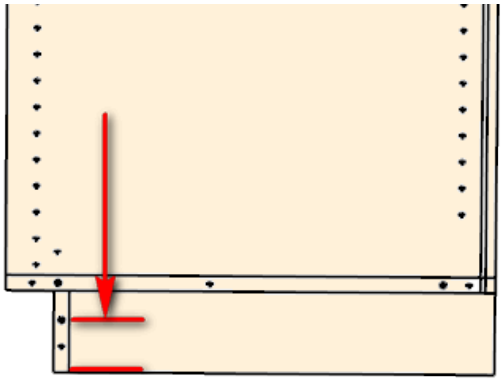
10 Sink Stretcher List

The Sink Stretcher is a special case and is usually required when the sink cabinet does not have a top. Panel



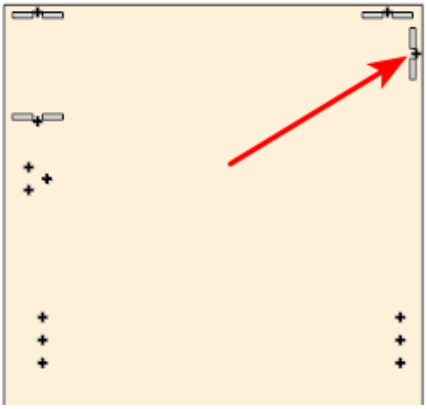
11 Kick List

Used by Side Panels for Base cabinets with integrated kicks. Currently only supporting kicks that are between the Side Panels.



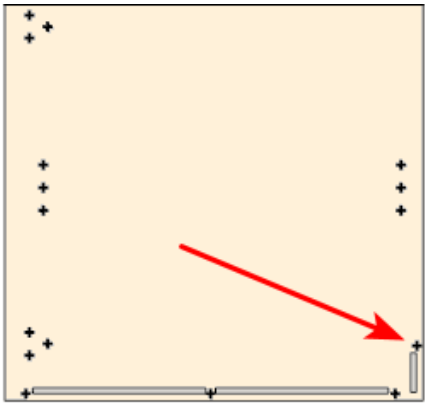
12 Top Hanger List

Used by Side Panels for drilling of the Top Hangers.



13 Bottom Hanger List

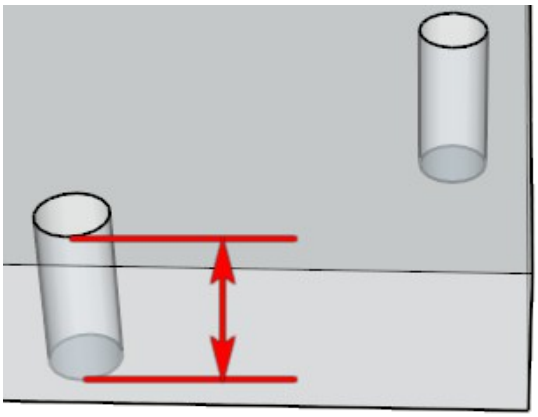
Used by Side Panels for drilling of the Bottom Hangers.



6) Plant on Back Pilot Holes

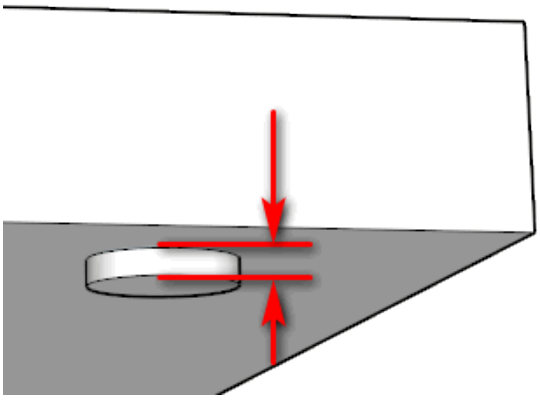
1 Depth

This is the depth of the pilot holes. Set this value to 0 if you do not want Pilot Holes.



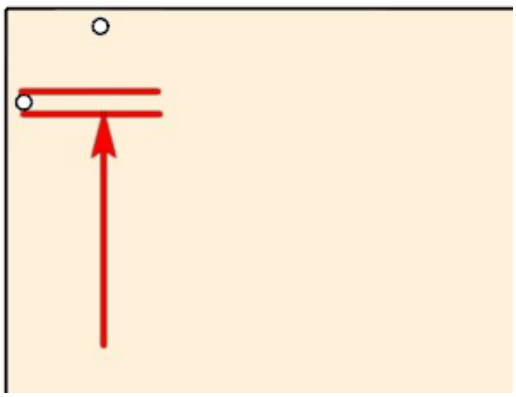
2 Auto Depth Adjustment

Set this parameter to -1 if you do not want to use it. If you provide it with a value then the Depth setting is ignored and the Depth will be determined by the thickness of the Sides.



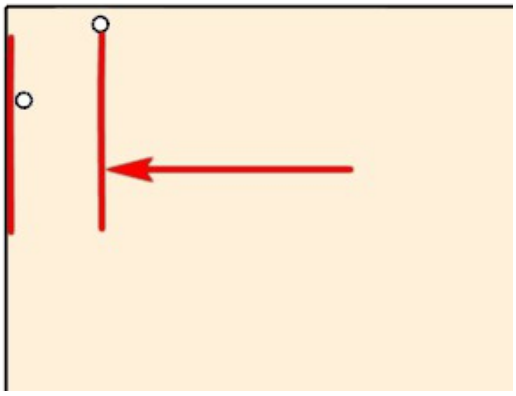
3 Hole Diameter

This is the diameter of the pilot holes.



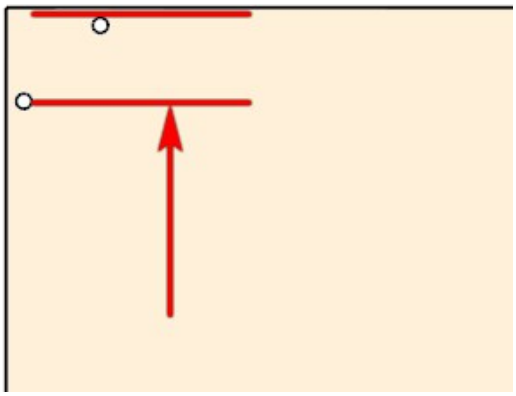
4 Horizontal Offset

Set this to 0 if you don not want Pilot Holes close to the edge. Otherwise the pilot hole center will be this distance from both horizontal edges



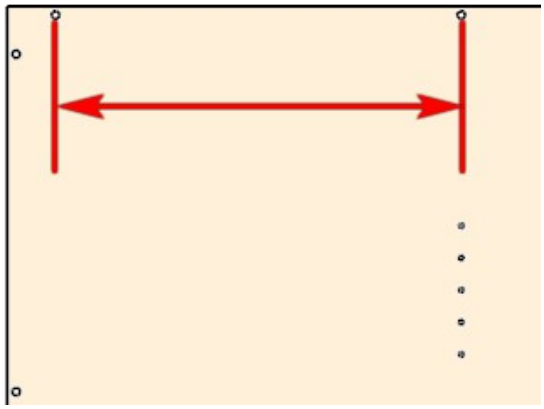
5 Vertical Offset

Set this to 0 if you don not want Pilot Holes close to the edge. Otherwise the pilot hole center will be this distance from both vertical edges.

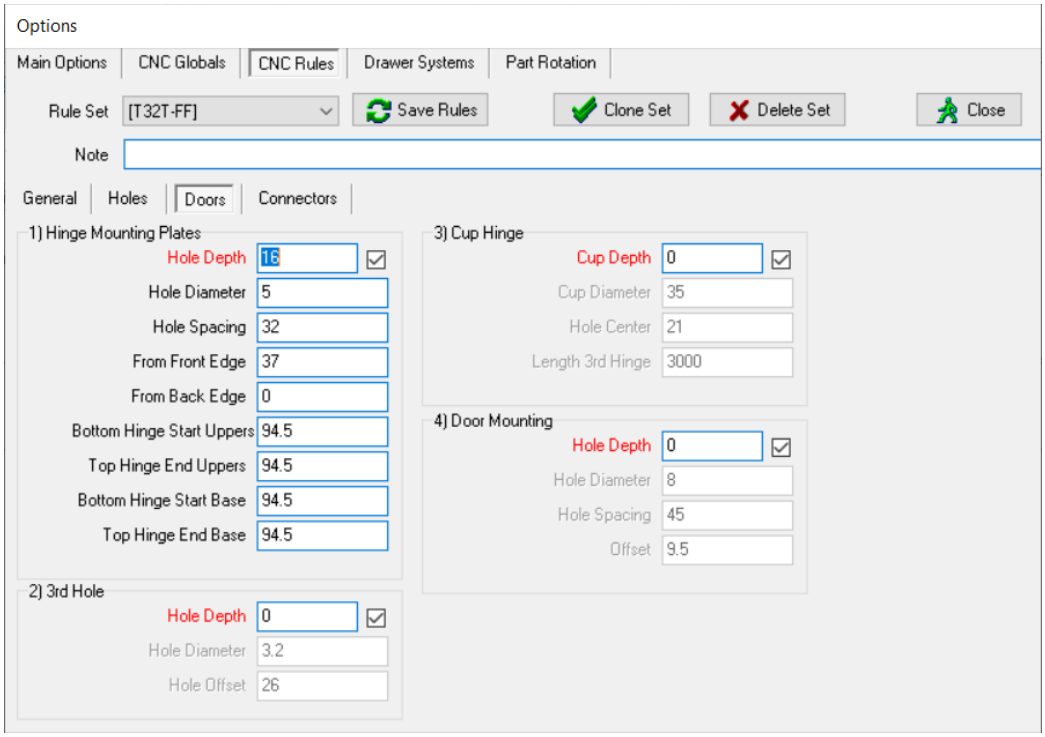


6 Maximum Hole Spacing

This is the maximum allowable distance between pilot holes. This could be from the edge of the panel or from the center of the hole at the offset.



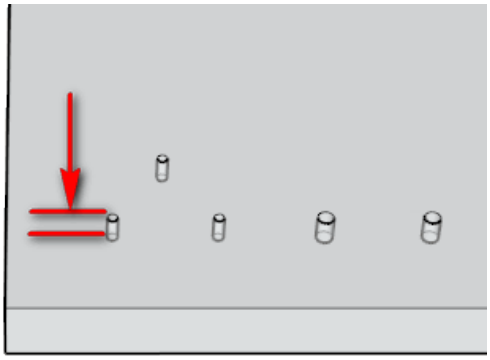
Doors Tab


Options
Main Options
CNC Globals
CNC Rules
Drawer Systems
Part Rotation
Rule Set
[T32T-FF]
Save Rules
Clone Set
Delete Set
Close
Note
General
Holes
Doors
Connectors
1) Hinge Mounting Plates
Hole Depth
16
Hole Diameter
5
Hole Spacing
32
From Front Edge
37
From Back Edge
0
Bottom Hinge Start Uppers
94.5
Top Hinge End Uppers
94.5
Bottom Hinge Start Base
94.5
Top Hinge End Base
94.5
2) 3rd Hole
Hole Depth
0
Hole Diameter
3.2
Hole Offset
26
3) Cup Hinge
Cup Depth
0
Cup Diameter
35
Hole Center
21
Length 3rd Hinge
3000
4) Door Mounting
Hole Depth
0
Hole Diameter
8
Hole Spacing
45
Offset
9.5

1) Hinge Mounting Plates

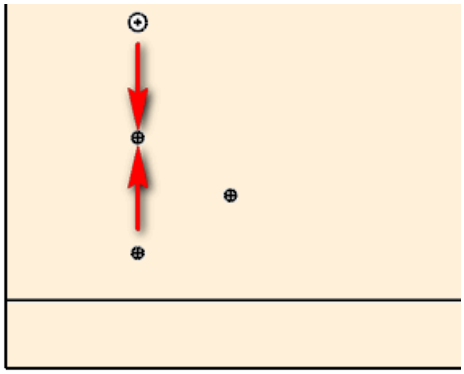
1 Hole Depth

This is the Depth of the holes used for Hing mouting plates. Set this value to 0 if you do not want Hinge mounting plate holes.



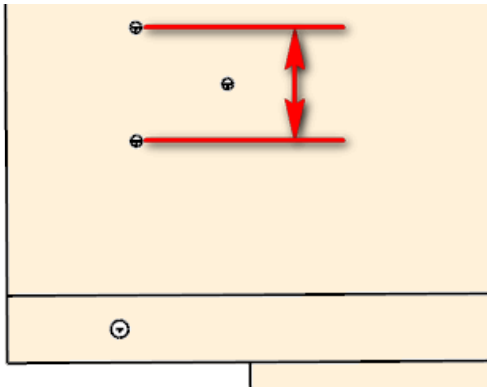
2 Hole Diameter

This is the Diameter of the mounting plate holes.



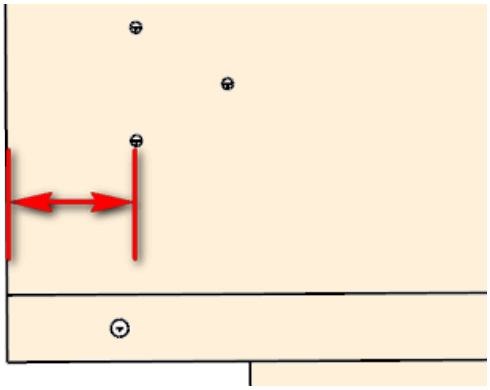
3 Hole Spacing

This is the Spacing of the holes for the mounting plates. For winged plates this value is often 32mm. For simple plates that aren't winged set this value to 0.



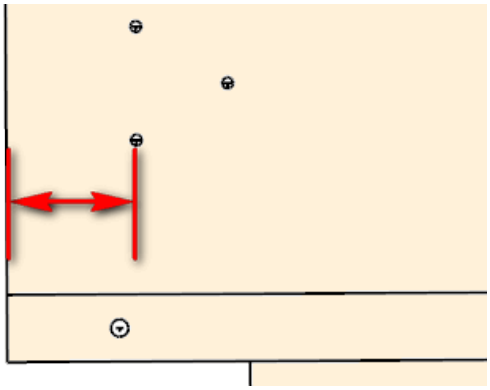
4 From Front Edge

Typically there are holes for the mounting plate at 37mm.



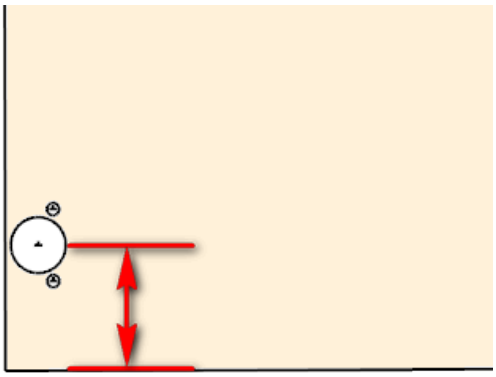
5 From Back Edge

If you have doors instead of a back you may have holes near the rear edge.



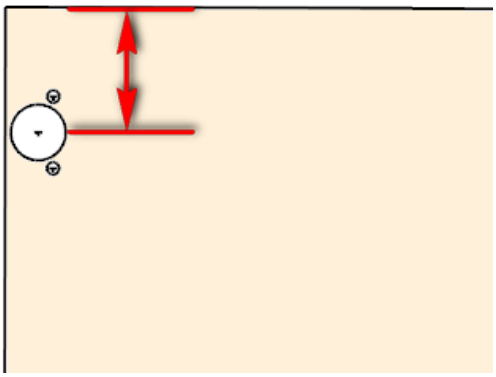
6 Bottom Hinge Start Uppers

The Bottom Hinge Start is the distance from the bottom of the door to the center of the bottom mounting plate for Upper cabinets.



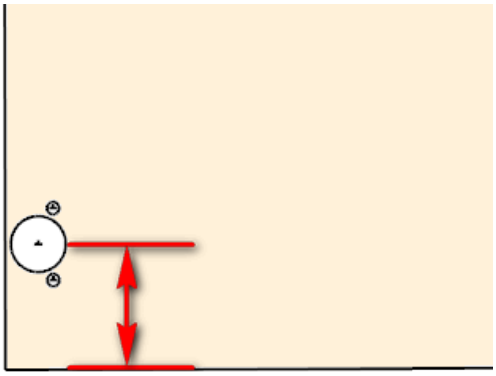
7 Top Hinge End Uppers

The Top Hinge End is the distance from the top of the door to the center of the top mounting plate for Upper cabinets.



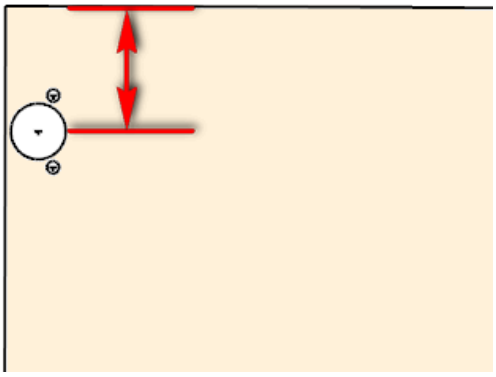
8 Bottom Hinge Start Base

The Bottom Hinge Start is the distance from the bottom of the door to the center of the bottom mounting plate for Base cabinets.



9 Top Hinge End Base

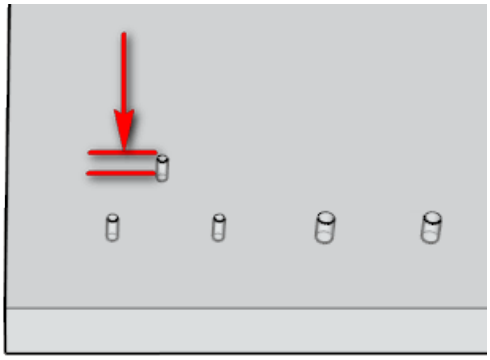
The Top Hinge End is the distance from the top of the door to the center of the top mounting plate for Base cabinets.



2) 3rd Hole

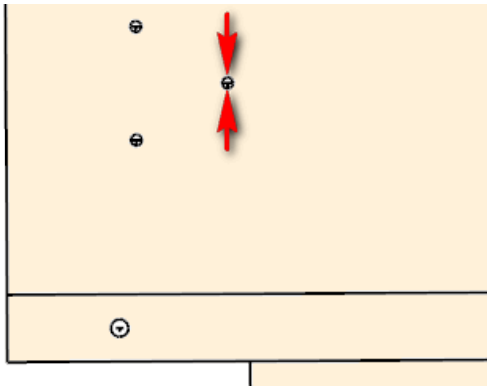
1 Hole Depth

Some mounting plates have a 3rd hole. Simple mounting plates use this for the back hole. Set this to 0 if you do not require the 3rd hold.



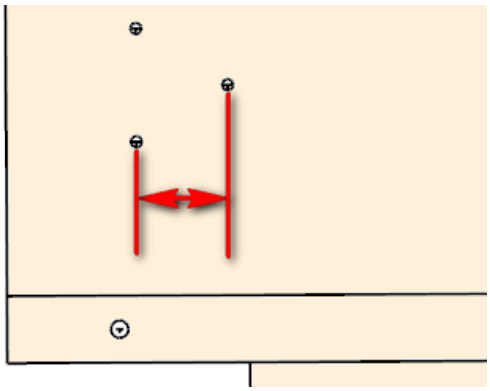
2 Hole Diameter

This is the diameter of the 3rd hole. Often it is 5mm when using euro screws. Set this value to drill the appropriate pilot hole that you require.



3 Third Offset

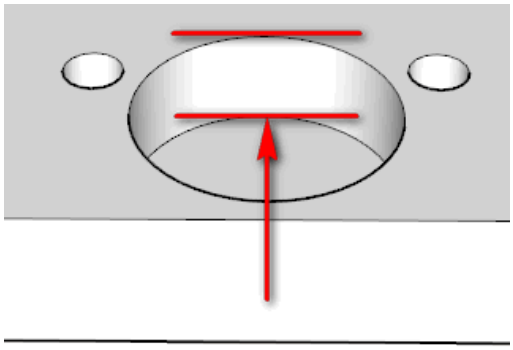
This is the distance at the vertical plane between front and back mounting holes.



3) Cup Hinge

1 Cup Depth

The Cup Depth is the depth of the main hole. Set this to 0 if you do not want these holes. Only Slab doors and Embossed doors get Hinge holes.

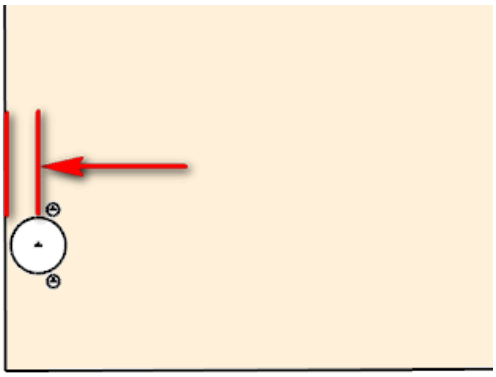


2 Cup Diameter

The Cup Diameter is usually 35mm. There are other sizes such as 26mm for mini hinges.

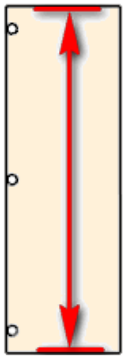
3 Hole Center

The Hole Center is from the Edge of the door to the center of the hole.



4 Length 3rd Hinge

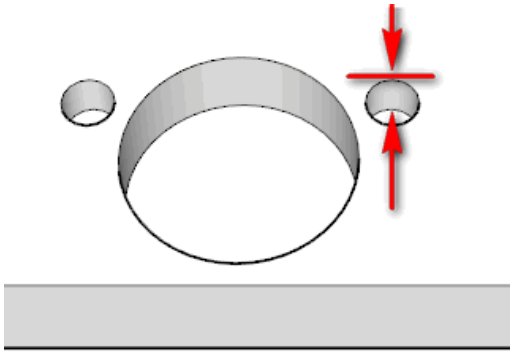
Often you will want a 3rd hinge for very tall doors. If a door exceeds this value then a 3rd hinge will be centered between the other 2 hinges.



4) Door Mounting

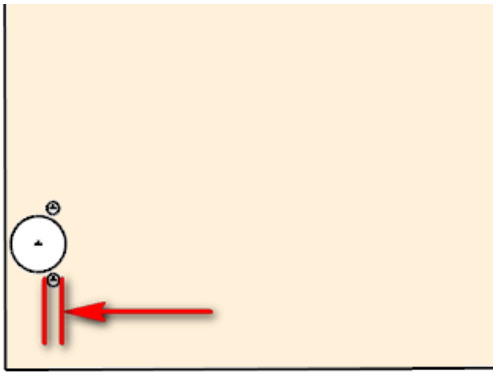
1 Hole Depth

Set Hole Depth to 0 if you do not require hinge mounting holes in the doors. There are various options for fixing hinges to the doors.



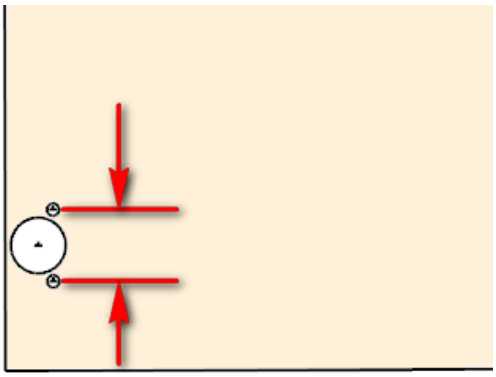
2 Hole Diameter

The Hole Diameter for the mounting system is set here.



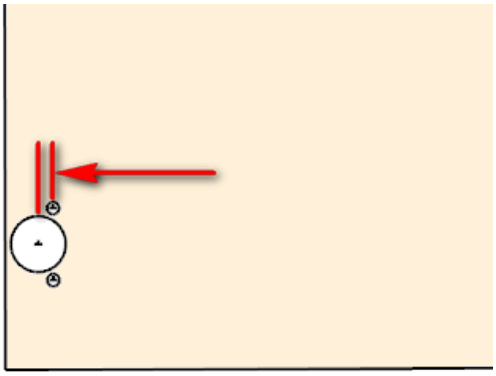
3 Hole Spacing

Hole Spacing is center to center for the two holes used for fastening the hinges to the doors.



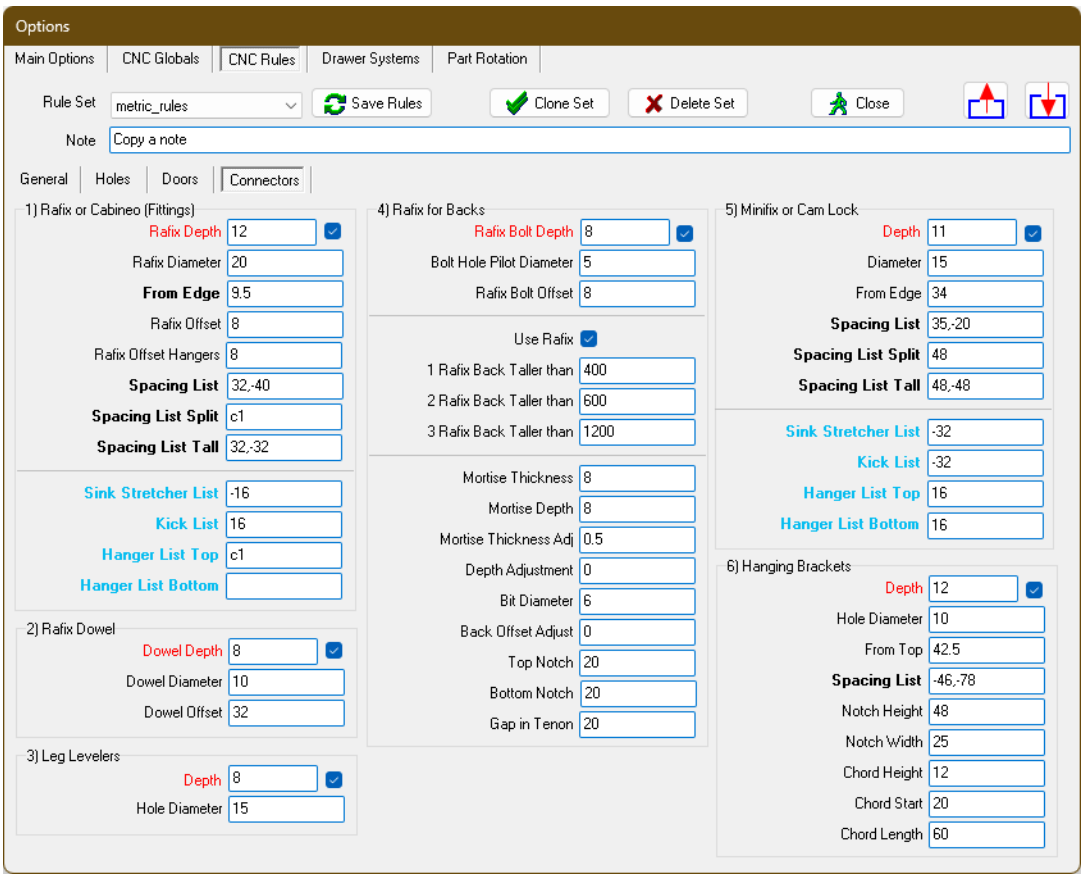
4 Offset

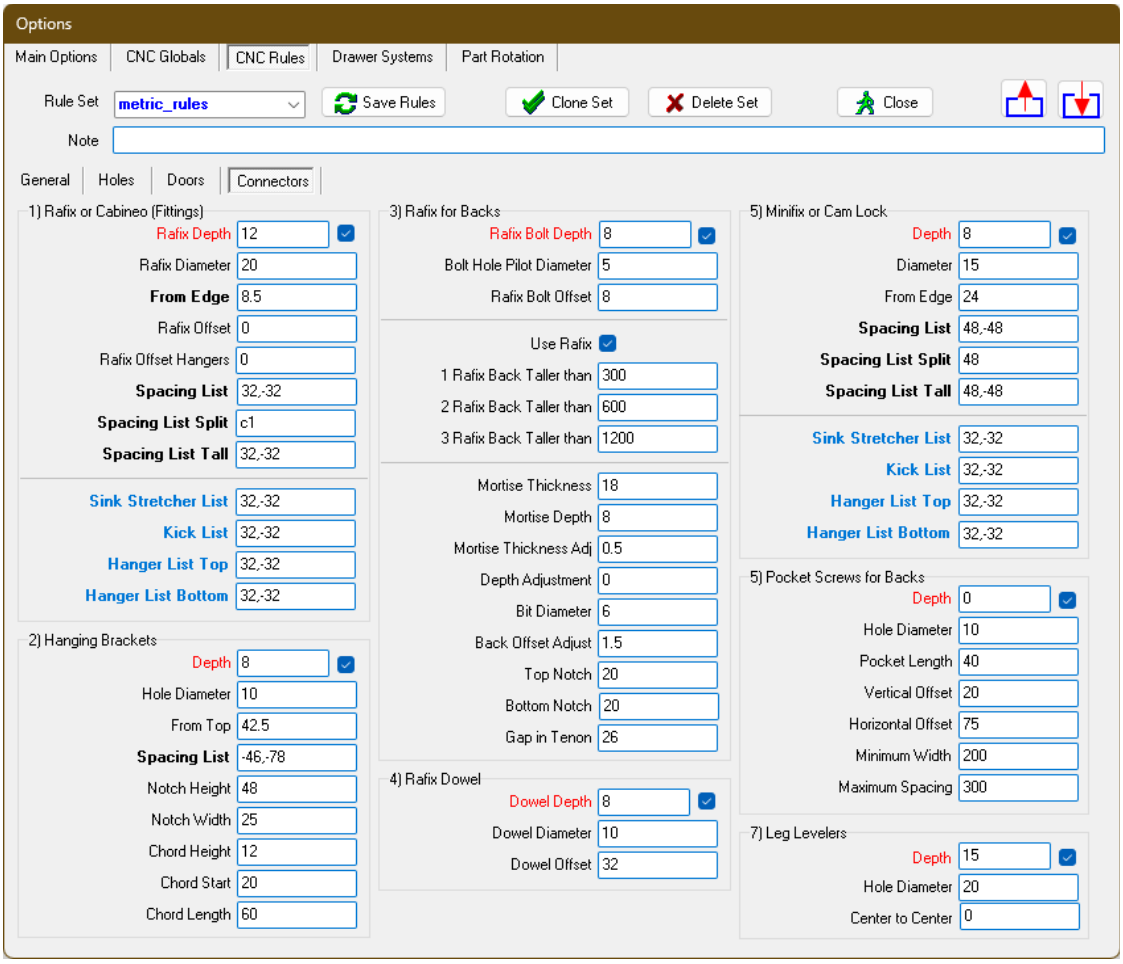
This is the distance at the vertical plane between the centers of the mounting holes and the Center of the main Cup hole. Since this is relative you can change the vertical position of the hinge or the offset of the hinge without having to change any of these other values.



Connectors Tab

Currently we support Rafix, Cam Lock and Minifix Panel Connectors. Confirmats, Domino and Lamello are also supported. Rafix can be modified for Cabineo.

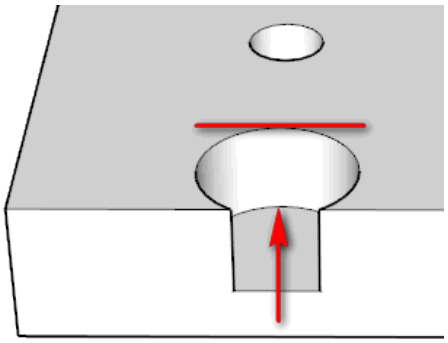



Options
Main Options
CNC Globals
CNC Rules
Drawer Systems
Part Rotation
Rule Set
metric_rules
Save Rules
Clone Set
Delete Set
Close
Note
General
Holes
Doors
Connectors
1) Rafix or Cabineo (Fittings)
Rafix Depth 12
Rafix Diameter 20
From Edge 8.5
Rafix Offset 0
Rafix Offset Hangers 0
Spacing List 32,-32
Spacing List Split c1
Spacing List Tall 32,-32
Sink Stretcher List 32,-32
Kick List 32,-32
Hanger List Top 32,-32
Hanger List Bottom 32,-32
2) Hanging Brackets
Depth 8
Hole Diameter 10
From Top 42.5
Spacing List -46,-78
Notch Height 48
Notch Width 25
Chord Height 12
Chord Start 20
Chord Length 60
3) Rafix for Backs
Rafix Bolt Depth 8
Bolt Hole Pilot Diameter 5
Rafix Bolt Offset 8
Use Rafix
1 Rafix Back Taller than 300
2 Rafix Back Taller than 600
3 Rafix Back Taller than 1200
Mortise Thickness 18
Mortise Depth 8
Mortise Thickness Adj 0.5
Depth Adjustment 0
Bit Diameter 6
Back Offset Adjust 1.5
Top Notch 20
Bottom Notch 20
Gap in Tenon 26
4) Rafix Dowel
Dowel Depth 8
Dowel Diameter 10
Dowel Offset 32
5) Minifix or Cam Lock
Depth 8
Diameter 15
From Edge 24
Spacing List 48,-48
Spacing List Split 48
Spacing List Tall 48,-48
Sink Stretcher List 32,-32
Kick List 32,-32
Hanger List Top 32,-32
Hanger List Bottom 32,-32
5) Pocket Screws for Backs
Depth 0
Hole Diameter 10
Pocket Length 40
Vertical Offset 20
Horizontal Offset 75
Minimum Width 200
Maximum Spacing 300
7) Leg Levelers
Depth 15
Hole Diameter 20
Center to Center 0

1) Rafix

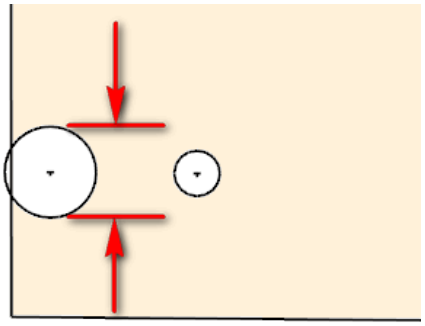
1 Rafix Depth

This is the depth of the main hole for the Rafix connector. Set this value to 0 if you do not use Rafix connectors. If you use Rafix connectors then this value is typically 12.7mm. Check your specific Rafix connector's drilling information.



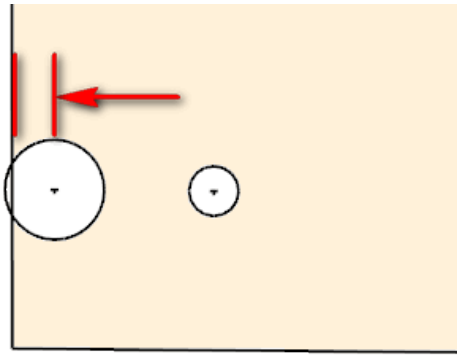
2 Rafix Diameter

This is the diameter of the main hole for the Rafix connector. If you use Rafix connectors then this value is typically 24mm. There are other Rafix connectors that use a 20mm diameter.



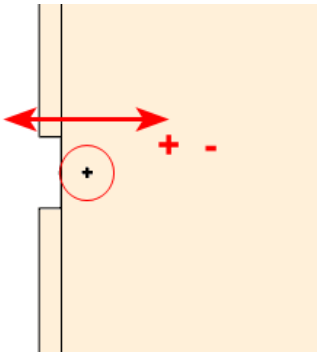
3 From Edge

This is the center of the the main hole to the edge of the Panel. The 24mm diameter connector typically requires the center of the hole to be 8.8mm from edge. 20Mm diameter connectors often need the hole's center to be 9.5mm from the edge.



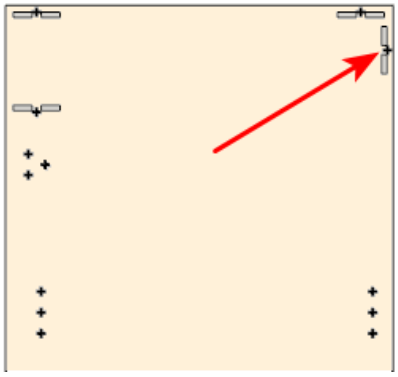
4 Rafix Offset

This is the adjustment for the positioning of the Rafix fitting. In this example it would be set to the same value as the Tenon Length.



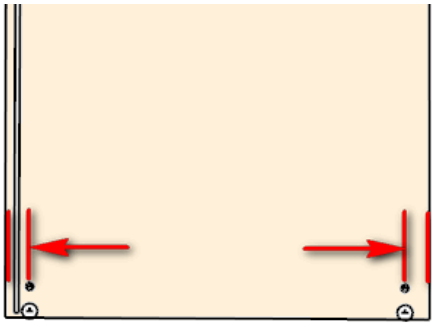
5 Rafix Offset Hangers

This is the adjustment for the positioning of the Rafix fitting. In this example it would be set to the same value as the Tenon Length. This is a separate parameter since Hangers can be of a different thickness.



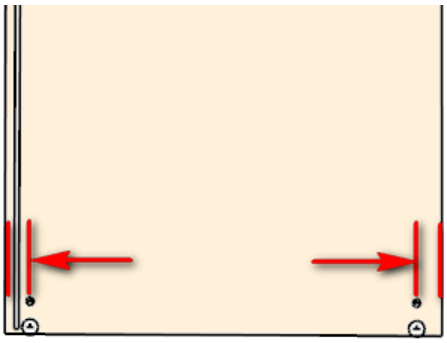
6 Spacing List

This is a list of distances to the center of the holes from the front edge and from the back edge of the side panel for base and upper cabinets. The list is separated by commas. Values that are positive are from the front edge and values that are negative are from the back edge. “c1” and “c2” are supported here.



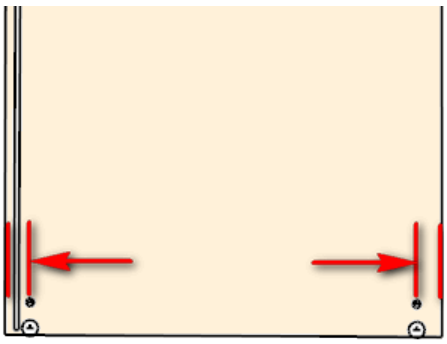
7 Spacing List Split

This is a list of distances to the center of the holes from the front edge and from the back edge of the side panel for base cabinets where they have Split Tops. The list is separated by commas. Values that are positive are from the front edge and values that are negative are from the back edge.



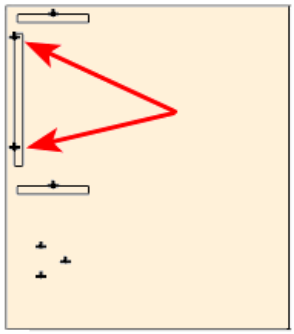
8 Spacing List Tall

This is a list of distances to the center of the holes from the front edge and from the back edge of the side panel. The list is separated by commas. Values that are positive are from the front edge and values that are negative are from the back edge. This extra list allows you to have additional connectors for tall cabinets. “c1” and “c2” are supported here.



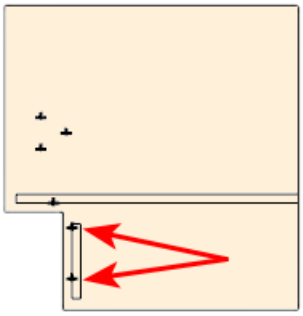
9 Sink Stretcher List

You can provide 0, 1 or more locations for the Rafix Fitting. The Rafix Bolt would be drilled on the Side Panel.



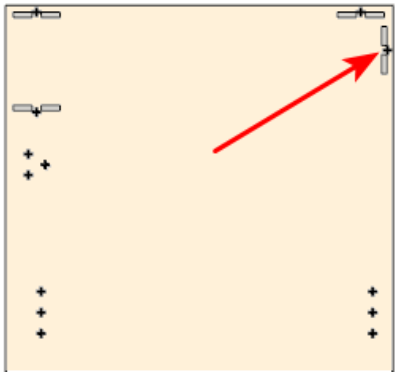
10 Kick List

You can provide 0, 1 or more locations for the Rafix Fitting. The Rafix Bolt would be drilled on the Side Panel.



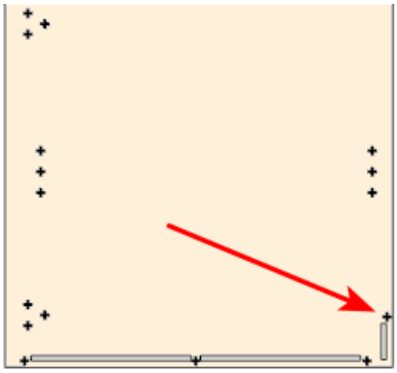
11 Hanger List Top

You can provide 0, 1 or more locations for the Rafix Fitting. The Rafix Bolt would be drilled on the Side Panel.



12 Hanger List Bottom

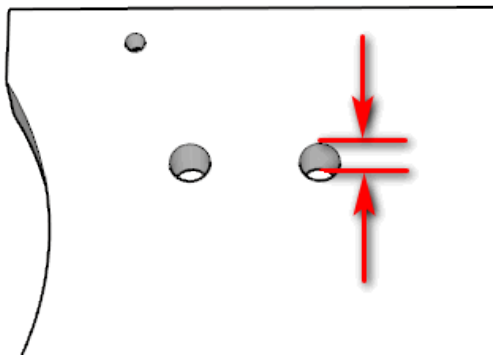
You can provide 0, 1 or more locations for the Rafix Fitting. The Rafix Bolt would be drilled on the Side Panel.



2) Hanging Brackets

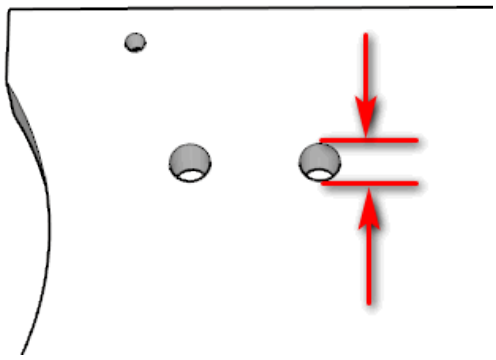
1 Depth

If you use Hanging Brackets when installing Upper cabinets then set the Depth for the fastening dowels here. Make sure that you check the specifications as these holes must be sufficiently deep and have precise diameter. Set this value to 0 if you do not use Hanging Brackets.



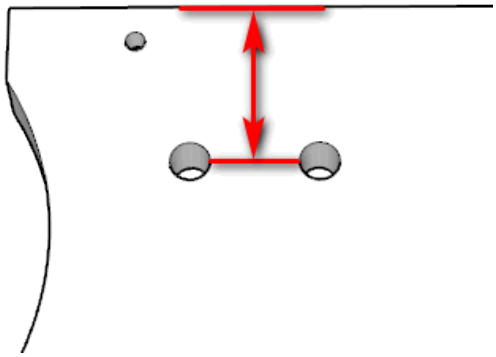
2 Hole Diameter

Set the Diameter for fastening dowels here. Make sure that you check the specifications.



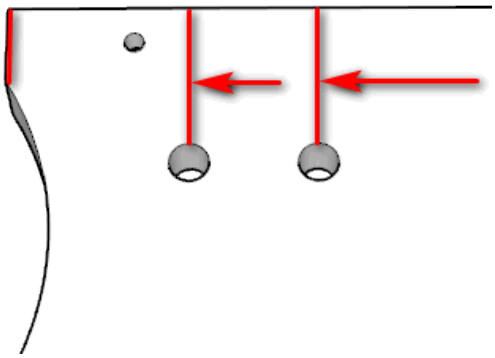
3 From Top

This is the distance from the top edge of the side panel to the center of the dowel hole.



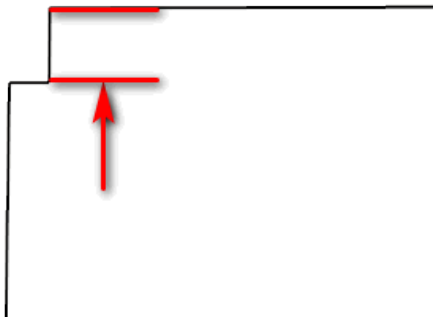
4 Spacing List

This is a list of distances to the center of the holes from the back edge of the side panel for upper cabinets. The list is separated by commas. Just use negative values.



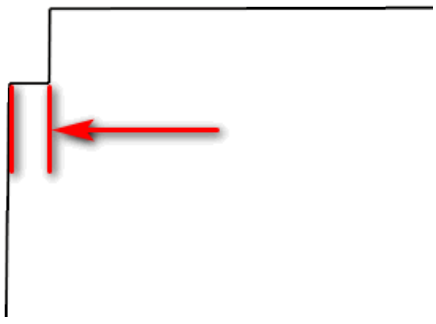
5 Notch Height

When using Back panels you need to notch the top corners in order to provide clearance for the Hanging bracket.



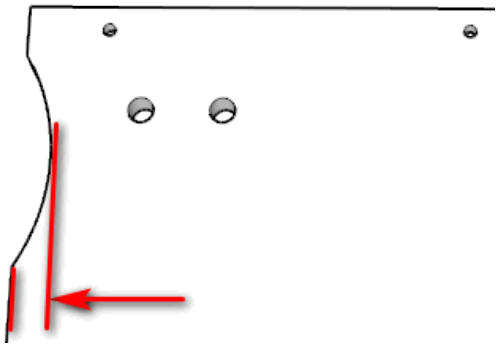
6 Notch Width

When using Back panels you need to notch the top corners in order to provide clearance for the Hanging bracket.



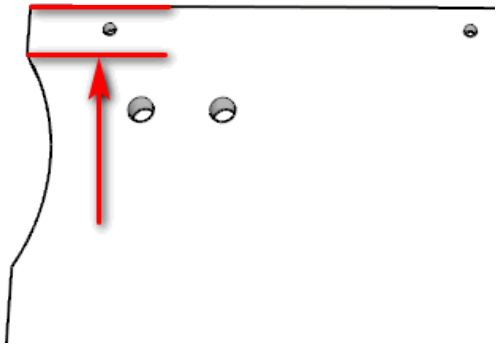
7 Chord Height

We use the arc cut away as it is the easiest on CNC and the fastest. If you don't want the arc then set the Chord Height to 0.



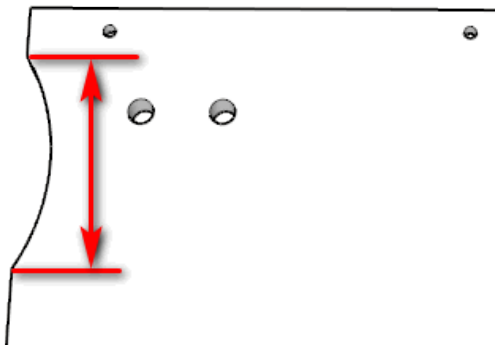
8 Chord Start

This is the distance from the top edge of the side panels to the beginning of the arc.



9 Chord Length

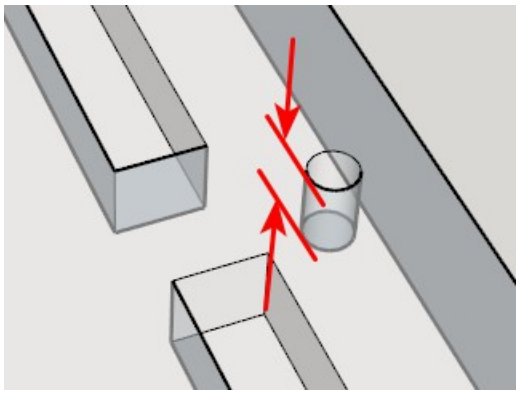
This is the overall length of the arc.



3) Rafix for Backs

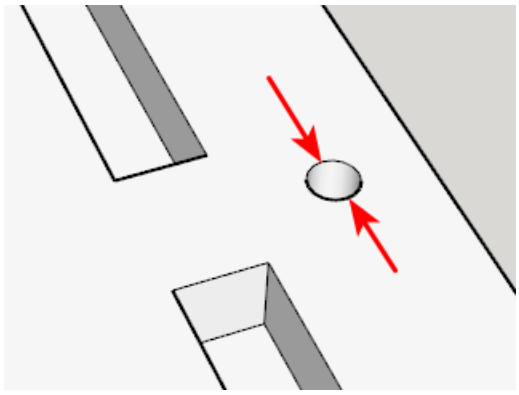
1 Rafix Bolt Depth

Enter the depth for the Rafix Bolt.



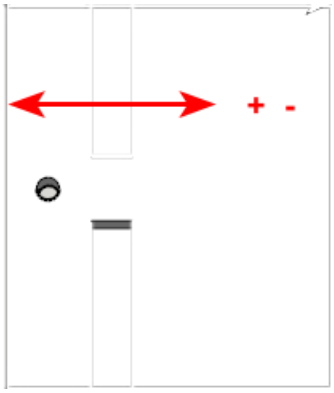
2 Bolt Hole Pilot Diameter

This is the Diameter of the pilot hole for the Rafix Bolt.



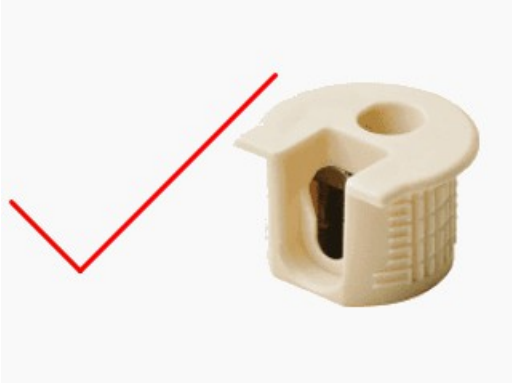
3 Rafix Bolt Offset

The Rafix Bolt hole can be finely tuned to provide a cleaner joint. This can be accomplished by setting the offset by aprox. 0.5 mm .



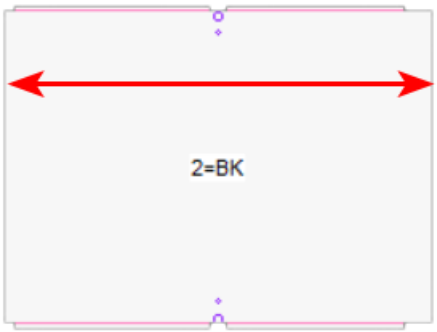
4 Use Rafix

Uncheck this option if you want mortise and tenon's for the back but you don't want to use Rafix Fittings.



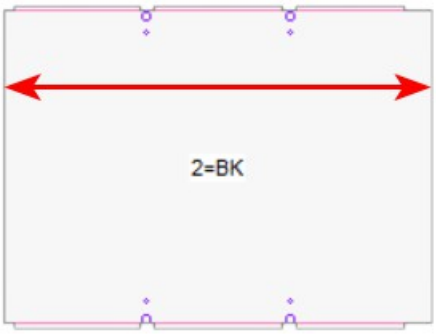
5 1 Rafix Back Taller than

Set this to the shortest back height to have at least 1 Rafix Fitting.



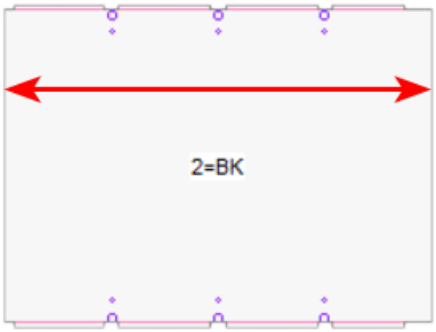
6 2 Rafix Back Taller than

Set this to the shortest back height to have at least 2 Rafix Fittings.



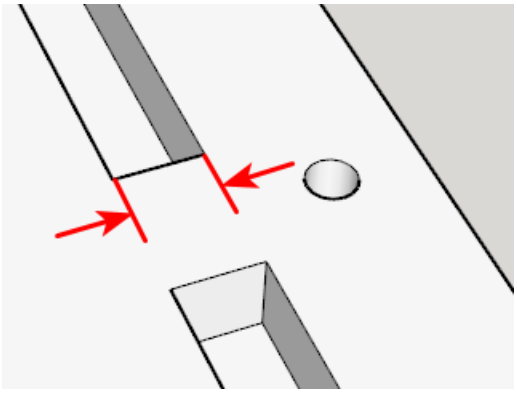
7 3 Rafix Back Taller than

Set this to the shortest back height to have at least 3 Rafix Fitting.



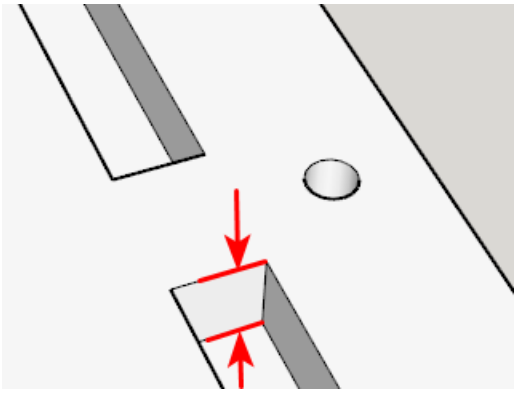
8 Mortise Thickness

This is the width of the Mortise. You can adjust this width for a single pass even after sharpening router bits .



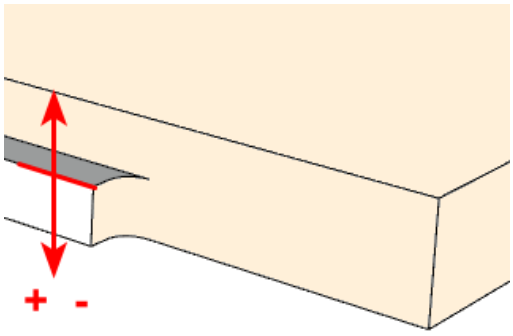
9 Mortise Depth

The Mortise depth should be at least the same as the Tenon Length. Usually you want the Mortise to be slightly deeper than the Tenon is long



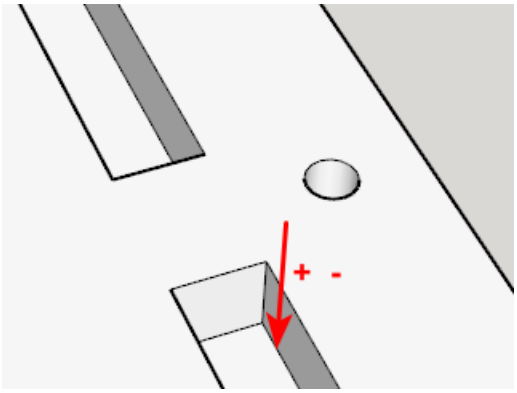
10 Mortise Thickness Adjust

This is the micro adjust for the tenon thickness.



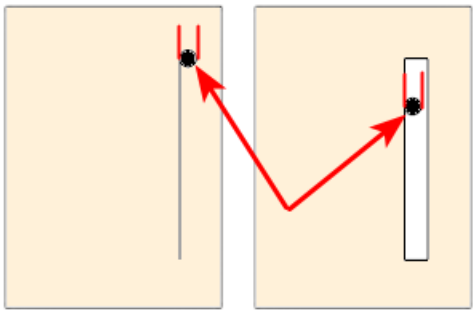
11 Depth Adjustment

The Mortise Depth adjustment allows you to have a bit more room to handle the length of the Tenon



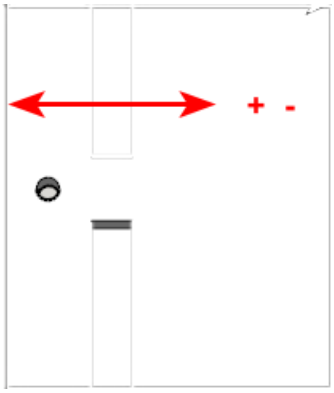
12 Bit Diameter

The bit Diameter is used to determine the Mortise Overruns. Single pass adds 1 bit Diameter to the overall length of the mortise and Pocket cuts adds 2 * bit diameter overrun.



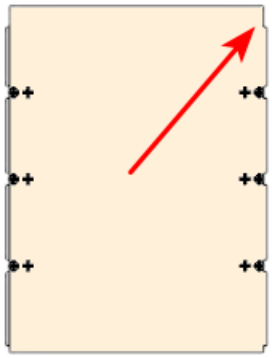
13 Back Offset Adjust

You can move the Back in or out based on the Back Offset Adjust.



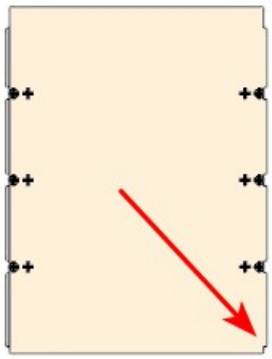
14 Top Notch

This the optional Top Notch value. This allows the mortise to be blind which in turn allows the edgebander to band the top and or bottom of the sides without having the mortise / dado to go through the side.



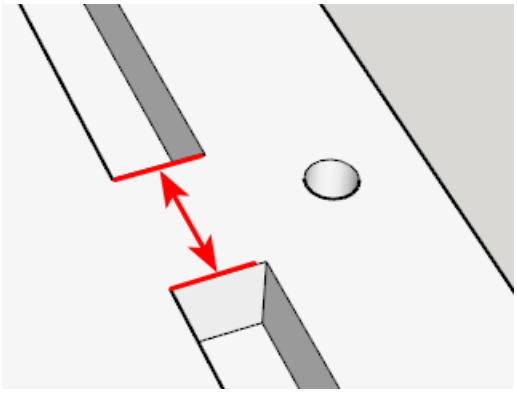
15 Bottom Notch

This the optional Bottom Notch value. This allows the mortise to be blind which in turn allows the edgebander to band the top and or bottom of the sides without having the mortise / dado to go through the side.



16 Gap in Tenon

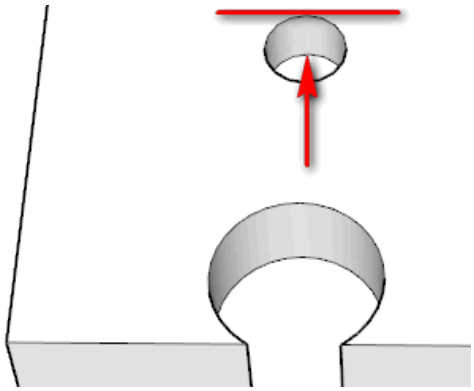
The Gap in Tenon provides more meat for the Rafix bolt.



4) Rafix Dowel

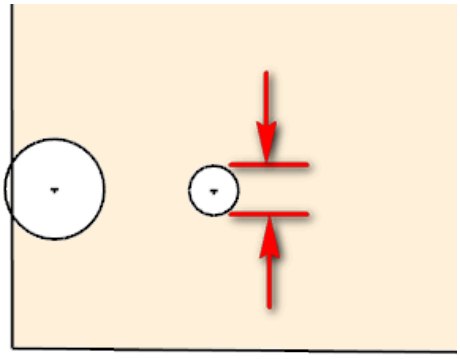
1 Dowel Depth

This is the depth of the optional dowel hole for the Rafix connector. Set this value to 0 if you do not have a Rafix Dowel. A typical value for the depth of the dowel is 10mm. Check your specific Rafix connector's drilling information.



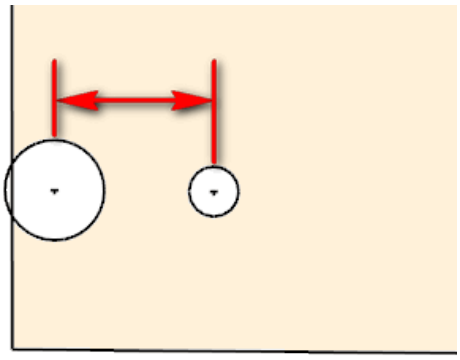
2 Dowel Diameter

This is the diameter of the Rafix dowel. It is typically 8mm. Check your specific Rafix connector's drilling information.



3 Dowel Offset

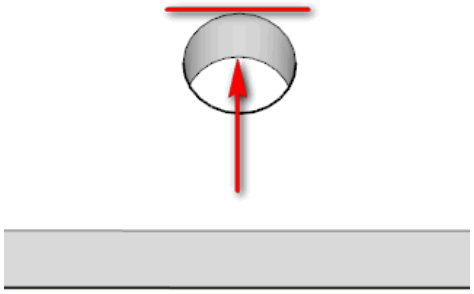
The Hole Offset value for the Rafix Dowel is the center to center distance on plane between the main Rafix Hole and the Rafix Dowel. Typically it is 32mm.



5) Minifix or Cam Lock

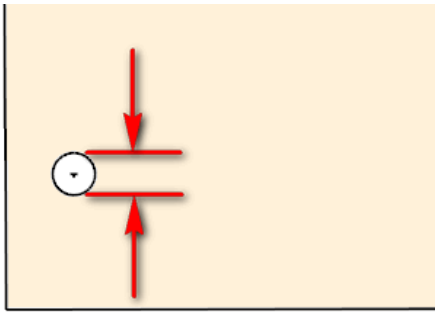
1 Depth

This is the depth of the main hole for the Minifix connector. Set this value to 0 if you do not use Minifix connectors. If you use Minifix connectors then this value is dependent on the thickness of your case material. Check your specific Minifix connector's drilling information.



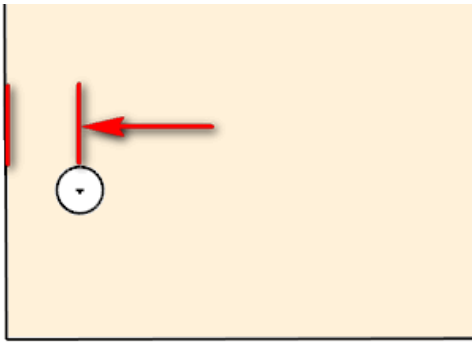
2 Diameter

This is the diameter of the main hole for the Minifix connector. If you use Minifix connectors then this value is typically 15mm although there are Minifix connectors that use a 12mm diameter.



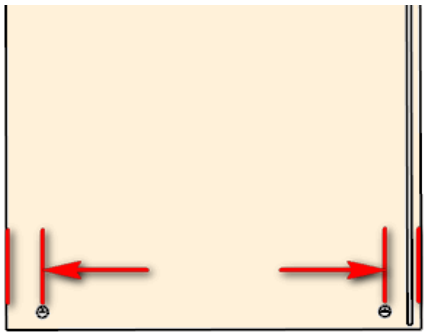
3 From Edge

This is the center of the the main hole to the edge of the Panel. The 15mm diameter connector come in different styles and the From Edge value could be 24mm or 34mm.



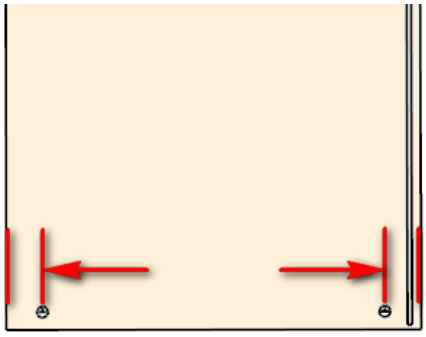
4 Spacing List

This is a list of distances to the center of the holes from the front or back edge of the side panel for base and upper cabinets. The list is separated by commas. Positive vales are from the front edge and negative values are from the back edge. “c1” and “c2” are supported here.



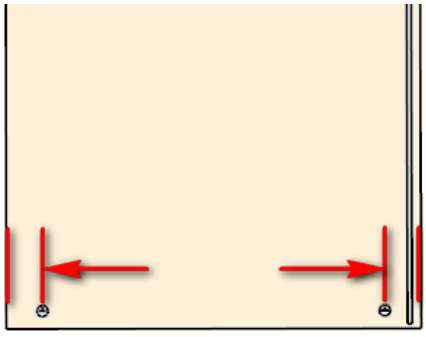
5 Spacing List Split

This is a list of distances to the center of the holes from the front or back edge of the side panel for base cabinets where they have Split Tops. The list is separated by commas. Positive vales are from the front edge and negative values are from the back edge.



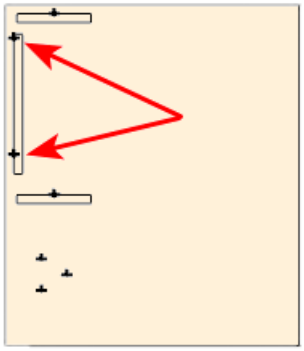
6 Spacing List Tall

This is a list of distances to the center of the holes from the front or back edge of the side panel. The list is separated by commas. Positive values are from the front edge and negative values are from the back edge. This extra list allows you to have additional connectors for tall cabinets. “c1” and “c2” are supported here.



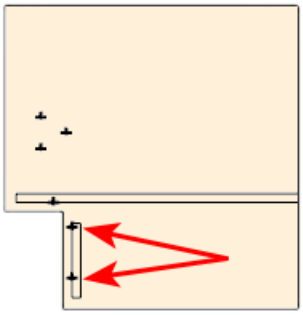
7 Sink Stretcher List

You can provide 0, 1 or more locations for the Fitting. The Bolt would be drilled on the Side Panel.



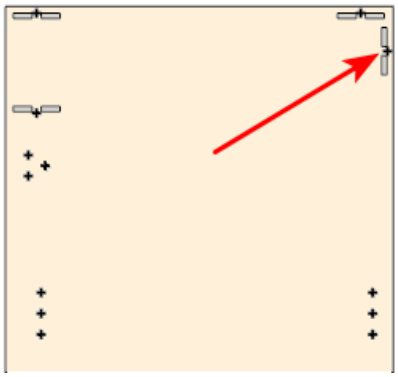
8 Kick List

You can provide 0, 1 or more locations for the Fitting. The Bolt would be drilled on the Side Panel.



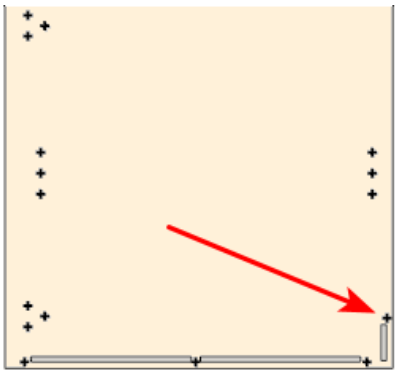
9 Hanger List Top

You can provide 0, 1 or more locations for the Fitting. The Bolt would be drilled on the Side Panel.



10 Hanger List Bottom

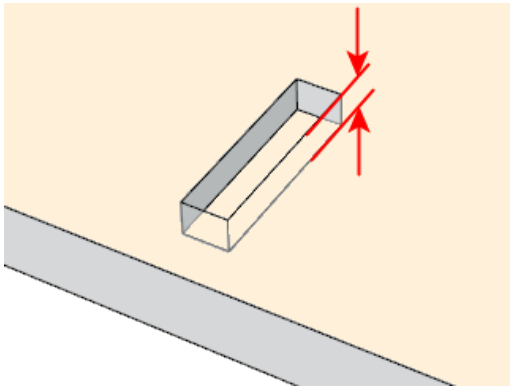
You can provide 0, 1 or more locations for the Fitting. The Bolt would be drilled on the Side Panel.



6) Pocket Screws for Backs

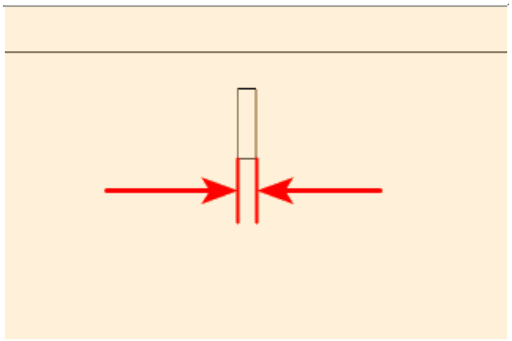
1 Depth

This is the depth of the pocket for the Pocket Screws.



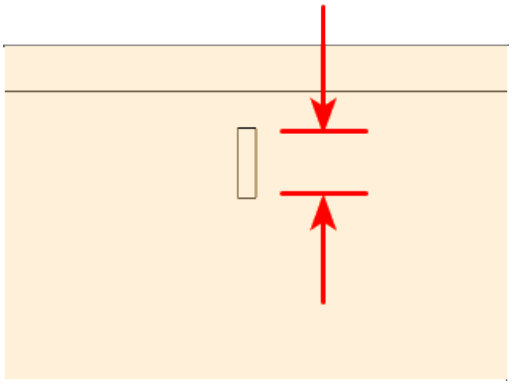
2 Hole Diameter

This is the Width of the Pocket which is created with a single pass as opposed to a pocket.



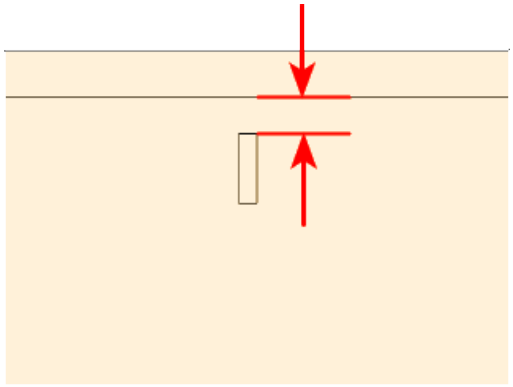
3 Pocket Length

Enter the length of your pocket in this parameter.



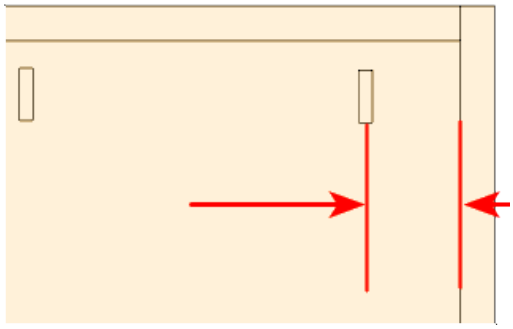
4 Vertical Offset

Enter the Vertical Offset in the next parameter.



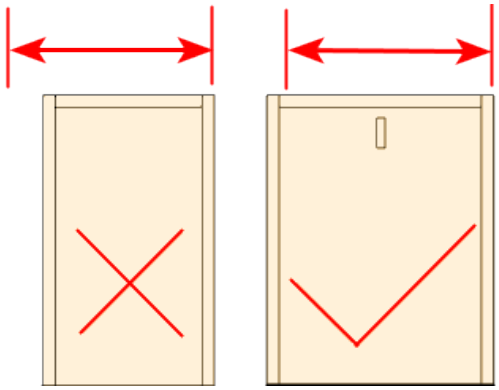
5 Horizontal Offset

The Horizontal Offset allows you to specify how close to the edge of the back panel that you want your pockets (on both sides).



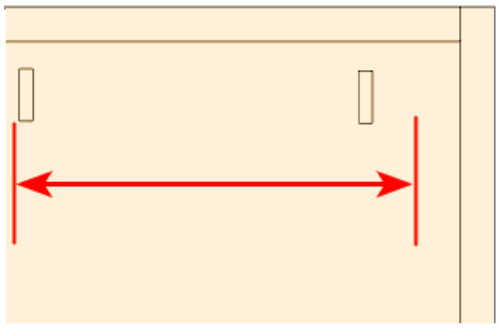
6 Minimum Width

The back panel must be at least this wide otherwise there will be no pockets.



7 Maximum Spacing

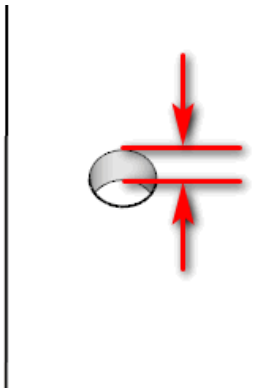
This parameter is used to guarantee that your pockets won't exceed this spacing.



7) Leg Levelers

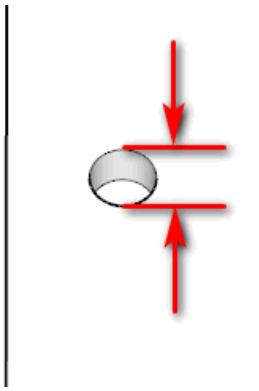
1 Depth

This is the depth for the main leg hole. Set this value to 0 if you do not use Leg Levelers.



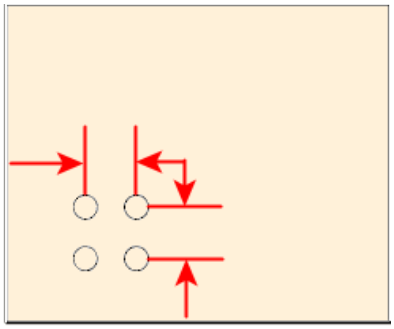
2 Hole Diameter

This is the diameter for the main leg hole.



3 Center to Center

Set to 0 if leg requires a single hole otherwise set center to center value for 4 holes.

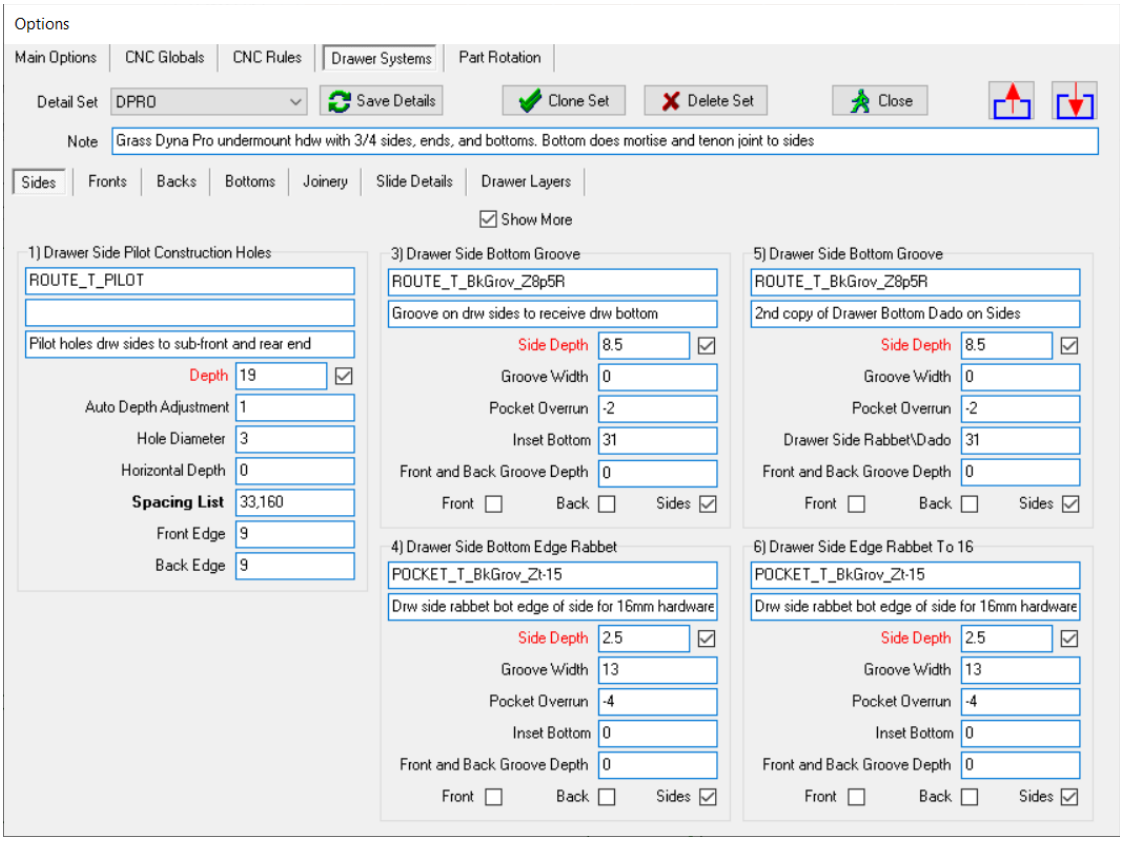


Drawer Systems Tab

A Cabinet can have different Drawer hardware and Pullout hardware. There are a lot of settings when it comes to these systems.

Sides Tab

Drawer Systems with side mount drawer slides use this section to specify mounting holes.



1) Drawer Side Pilot Construction Holes

Pilot holes Drawer Sides to sub-front and rear end.

1 Layer Name

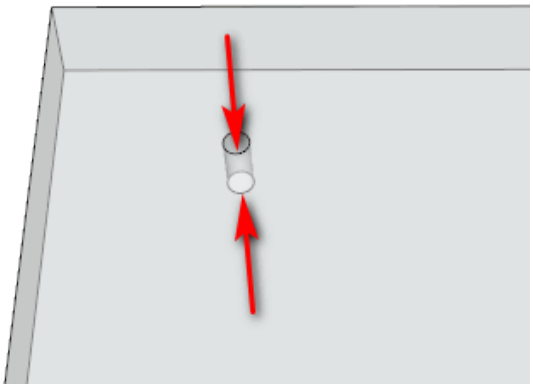
This is the Layer Name for Drawer Side Hardware Holes.

2 Comment / Purpose

This is the Comment for Drawer Side Hardware Holes.

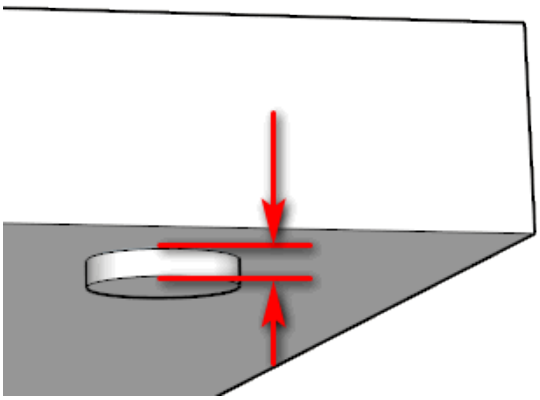
3 Depth

This is the depth for Drawer Construction Holes. Set this value to 0 if you do not want Drawer Construction Holes.



4 Auto Depth Adjustment

Set this parameter to -1 if you do not want to use it. If you provide it with a value then the Depth will be determined by the thickness of the Sides plus the value of the Auto Depth. The Depth setting must be greater than 0 to turn on the drilling, however it's value is otherwise ignored.

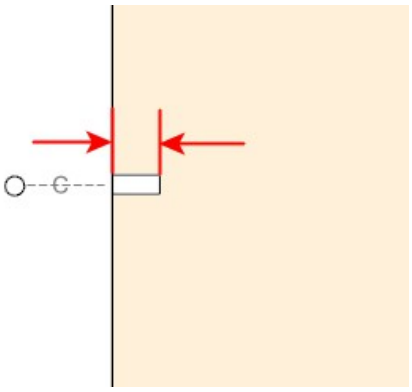


5 Hole Diameter

This is the diameter of the dowels for the Construction Holes.

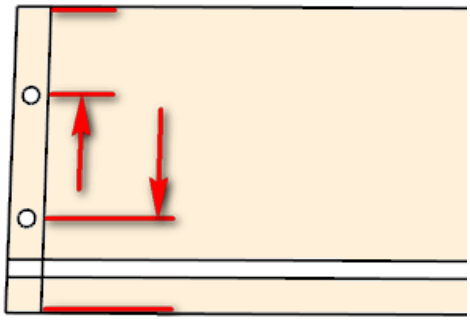
6 Horizontal Depth

This is for end drilling the Drawer Box Backs and Fronts. Currently supported for Wood Hog. You can set the depth.



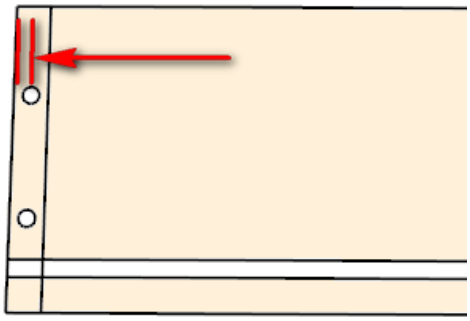
7 Spacing List

This is a list of distances to the center of the holes from the top or bottom edge of the drawer side. The list is separated by commas. Positive vales are from the top edge and negative values are from the bottom edge. “c1” and “c2” are supported here.



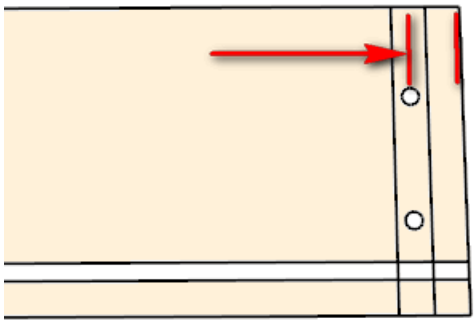
8 Front Edge

This is the distance from the end of the drawer side to the center of the Construction Holes.



9 Back Edge

This is the distance from the top of the drawer side to the center of the first Construction Hole.



2) Drawer Side for Bottom Groove

This is the width of the dado used by Drawer boxes for sides, backs and fronts.

1 Layer Name

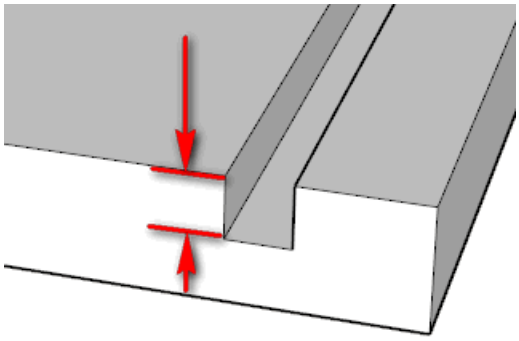
This is the Layer Name for Drawer Side Bottom Groove.

2 Comment / Purpose

This is the Comment for Drawer Side Bottom Groove.

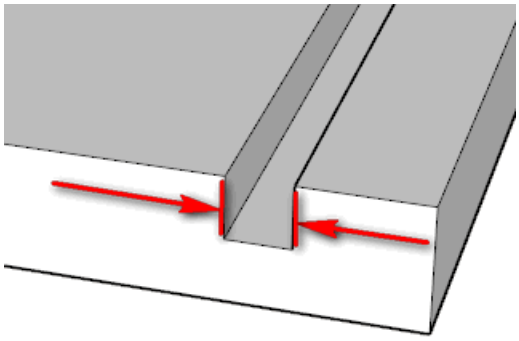
3 Side Depth

Dado on drawer parts that receives drawer bottom.



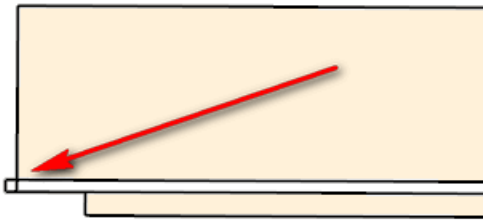
4 Groove Width

This is the width of the dado used by drawer boxes for sides, backs and fronts.



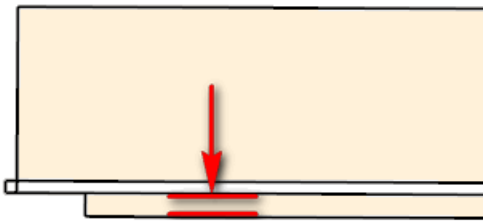
5 Pocket Overrun

This is how much you want the router to run past the part.



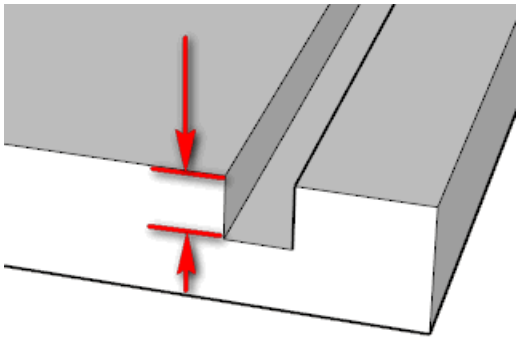
6 Inset Bottom

This is the amount you want the dado offset used by drawer parts for sides, backs and fronts.



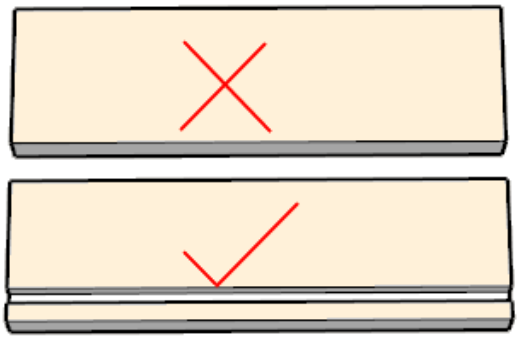
7 Front And Back Groove Depth

Dado on drawer parts that receives drawer bottom.



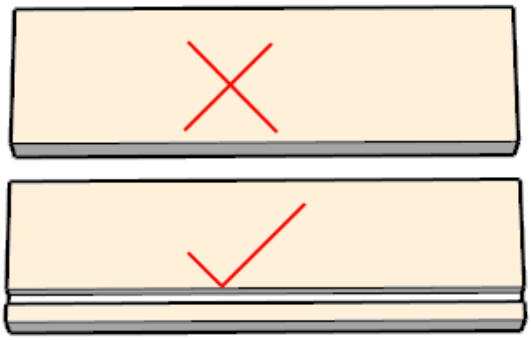
8 Front

Dado on drawer parts that receives drawer bottom.



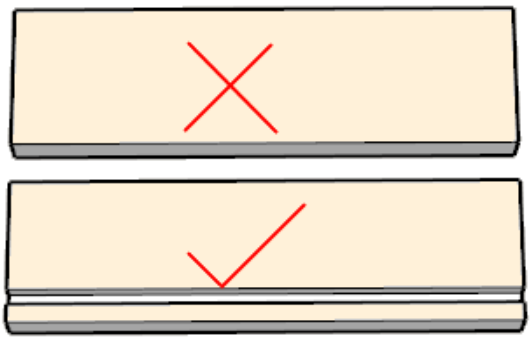
9 Back

Dado on drawer parts that receives drawer bottom.



10 Sides

Dado on drawer parts that receives drawer bottom.



3) Drawer Side Bottom Edge Rabbet

Drawer Side rabbet bottom edge of side for 16mm hardware.

1 Layer Name

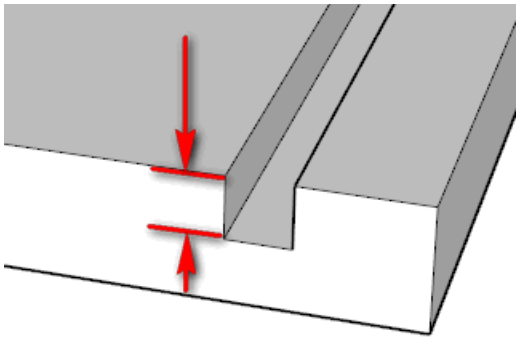
This is the Layer Name for Drawer Side Bottom Groove.

2 Comment / Purpose

This is the Comment for Drawer Side Bottom Groove.

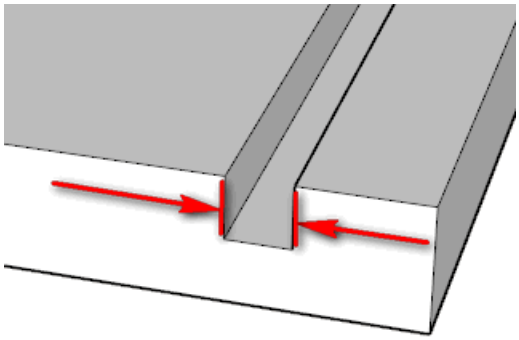
3 Side Depth

Rabbet at bottom of plywood drawer sides to allow use of hardware designed for 16mm sides.



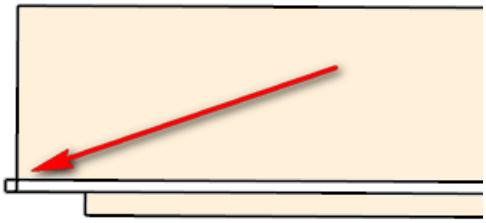
4 Groove Width

This is the width of the dado used by drawer boxes for sides, backs and fronts.



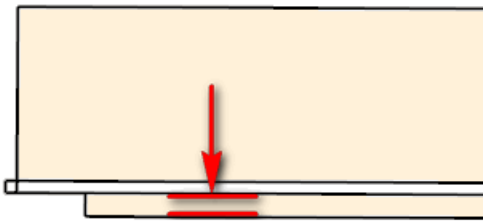
5 Pocket Overrun

This is how much you want the router to run past the part.



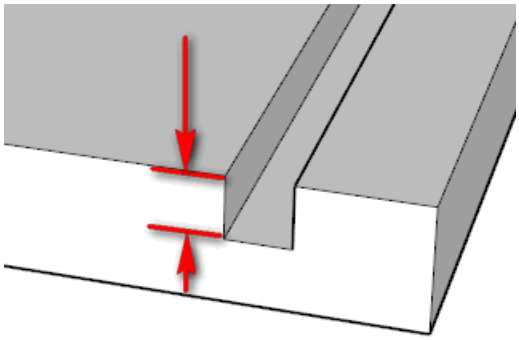
6 Inset Bottom

This is the amount you want the dado offset used by drawer parts for sides, backs and fronts.



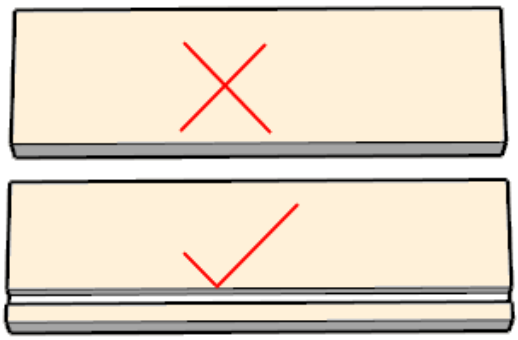
7 Front And Back Groove Depth

Rabbet at bottom of plywood drawer sides to allow use of hardware designed for 16mm sides.



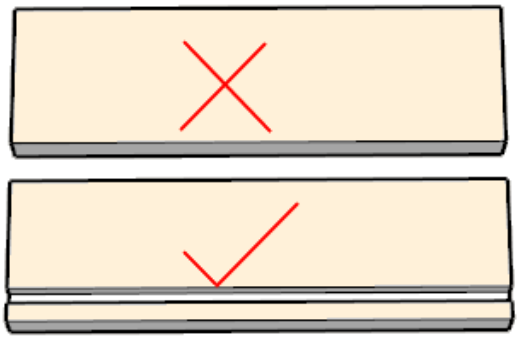
8 Front

Rabbet at bottom of plywood drawer sides to allow use of hardware designed for 16mm sides.



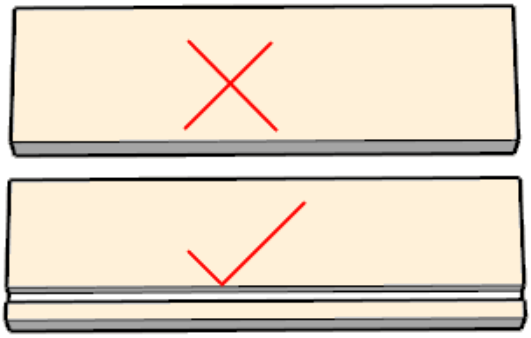
9 Back

Rabbet at bottom of plywood drawer sides to allow use of hardware designed for 16mm sides.



10 Sides

Rabbet at bottom of plywood drawer sides to allow use of hardware designed for 16mm sides.



4) Drawer Side Bottom Edge Rabbet

2nd copy of Drawer Bottom Dado on Sides.

1 Layer Name

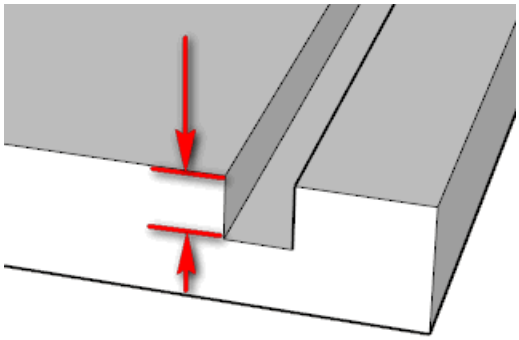
This is the Layer Name for Drawer Side Bottom Groove.

2 Comment / Purpose

This is the Comment for Drawer Side Bottom Groove.

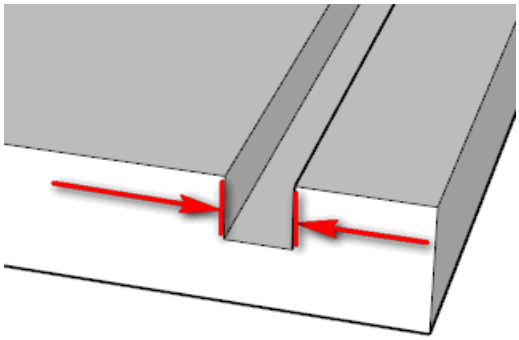
3 Side Depth

Dado on drawer parts that receives drawer bottom.



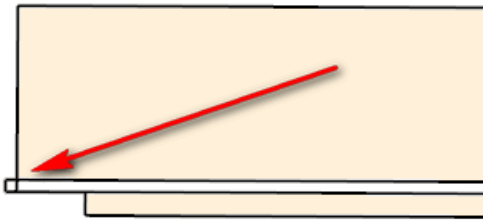
4 Groove Width

This is the width of the dado used by drawer boxes for sides, backs and fronts.



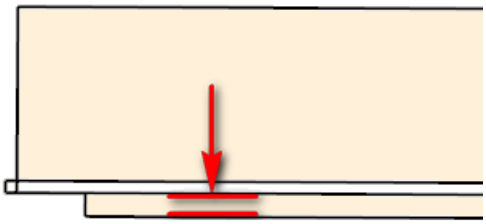
5 Pocket Overrun

This is how much you want the router to run past the part.



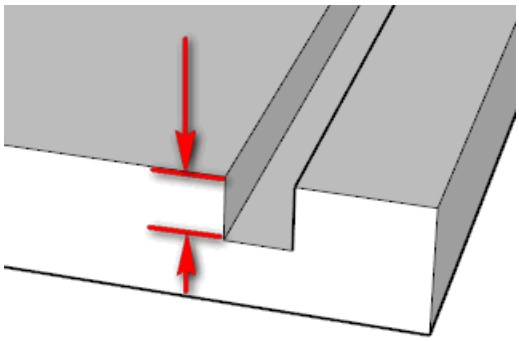
6 Inset Bottom

This is the amount you want the dado offset used by drawer parts for sides, backs and fronts.



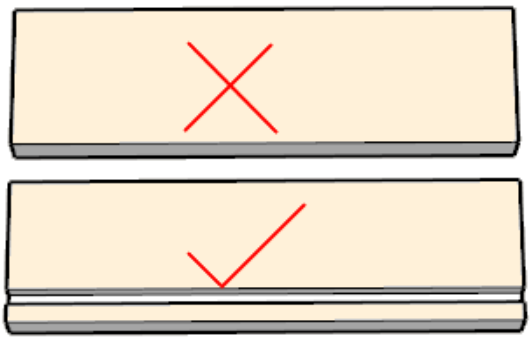
7 Front And Back Groove Depth

Dado on drawer parts that receives drawer bottom.



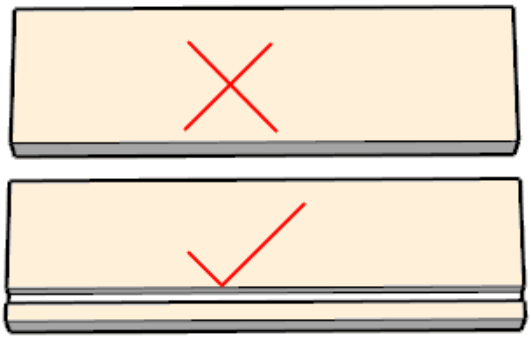
8 Front

Rabbet at bottom of plywood drawer sides to allow use of hardware designed for 16mm sides.



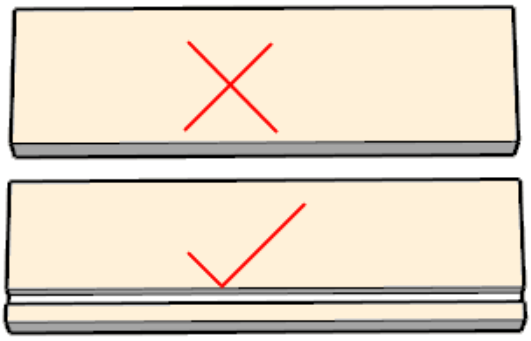
9 Back

Rabbet at bottom of plywood drawer sides to allow use of hardware designed for 16mm sides.



10 Sides

Rabbet at bottom of plywood drawer sides to allow use of hardware designed for 16mm sides.



5) Drawer Side Bottom Groove

Another copy of Drawer Bottom Dado on Sides.

1 Layer Name

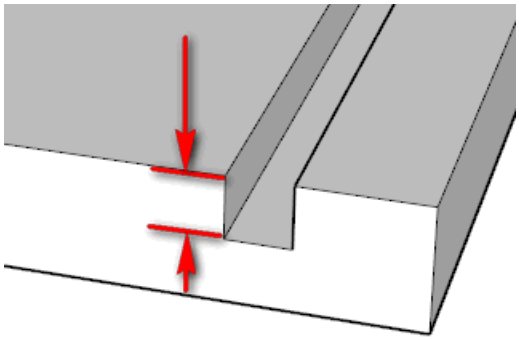
This is the Layer Name for Drawer Side Bottom Groove.

2 Comment / Purpose

This is the Comment for Drawer Side Bottom Groove.

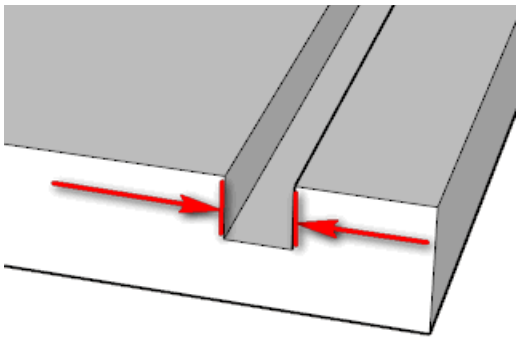
3 Side Depth

Rabbet at bottom of plywood drawer sides to allow use of hardware designed for 16mm sides.



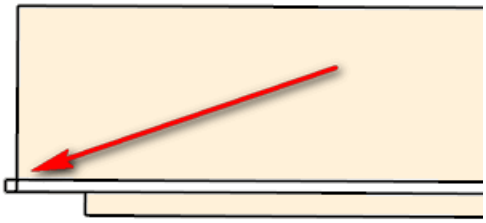
4 Groove Width

This is the width of the dado used by drawer boxes for sides, backs and fronts.



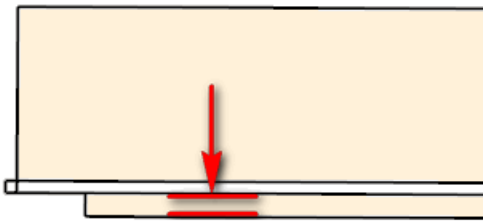
5 Pocket Overrun

This is how much you want the router to run past the part.



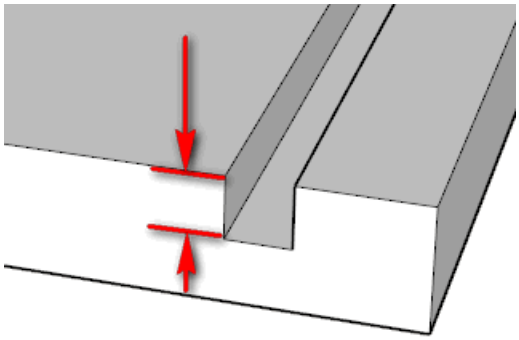
6 Drawer Side Rabbet / Dado

This is the amount you want the dado offset used by drawer parts for sides, backs and fronts.



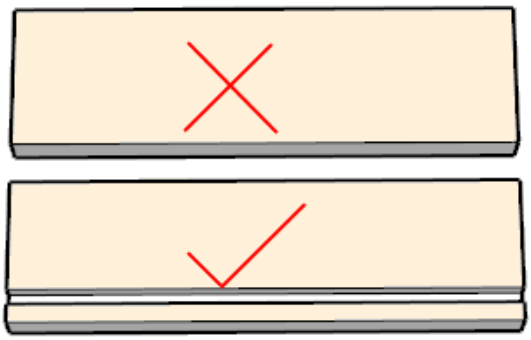
7 Front And Back Groove Depth

Rabbet at bottom of plywood drawer sides to allow use of hardware designed for 16mm sides.



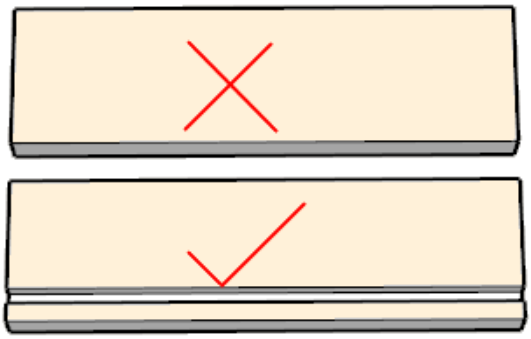
8 Front

Rabbet at bottom of plywood drawer sides to allow use of hardware designed for 16mm sides.



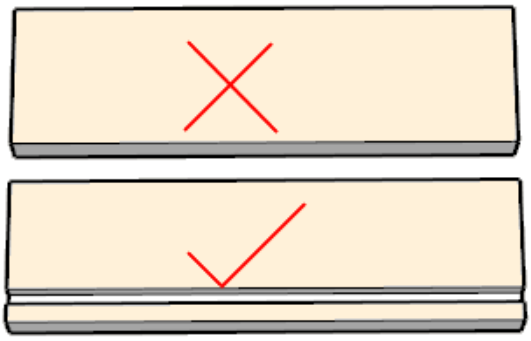
9 Back

Rabbet at bottom of plywood drawer sides to allow use of hardware designed for 16mm sides.



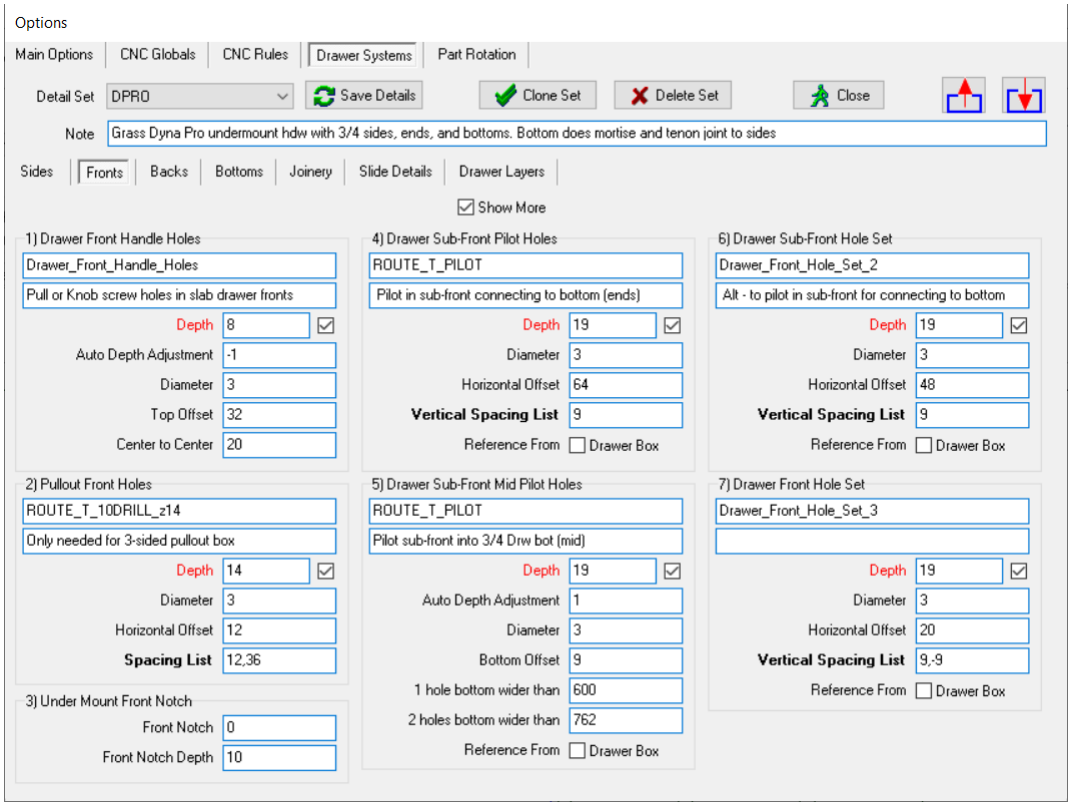
10 Sides

Rabbet at bottom of plywood drawer sides to allow use of hardware designed for 16mm sides.



Fronts Tab

This tab contains the machining information for the back side of Drawer Fronts.



1) Drawer Front Handle Holes

Holes for drawer front handles or knobs.

1 Layer Name

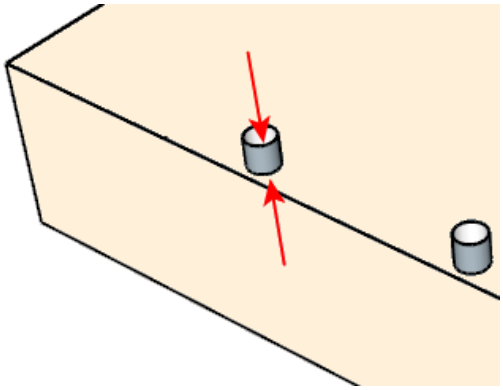
This is the Layer Name for Drawer Front Handle Holes.

2 Comment / Purpose

This is the Comment for Drawer Front Handle Holes

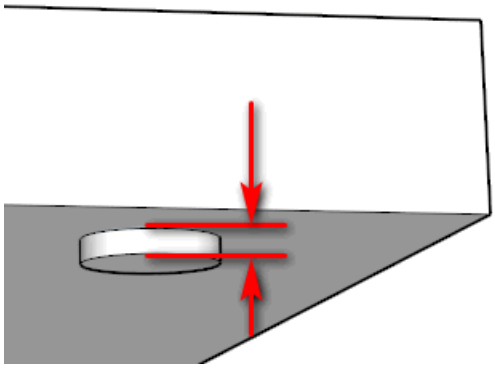
3 Depth

Set to 0 to turn off this section.



4 Auto Depth Adjustment

Set to -1 to ignore the auto adjustment.

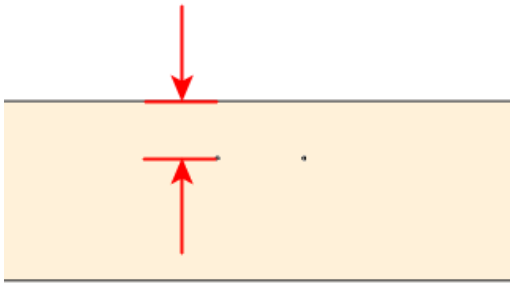


5 Diameter

This is the diameter of the pullout finished front dowel holes.

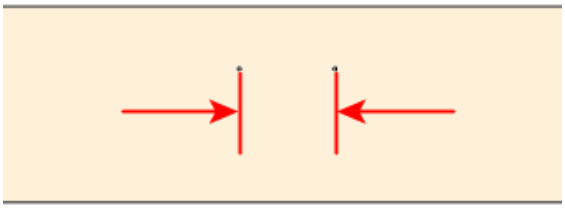
6 Top Offset

This is the distance from the top edge to the center of the holes



7 Center to Center

Handles have 2 holes. This is the center to center distance. Set to 0 if using a knob with a single centered hole.



2) Pullout Front Holes

Only needed for 3-sided pullout box.

1 Layer Name

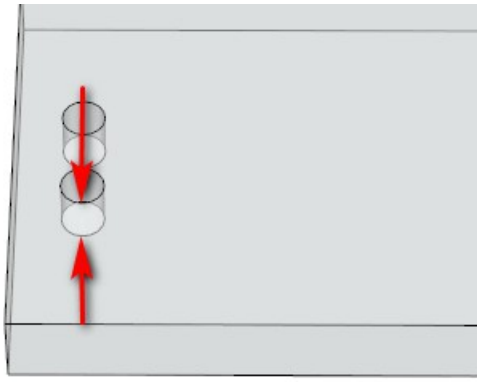
This is the Layer Name for Pullout Front Holes.

2 Comment / Purpose

This is the Comment for Pullout Front Holes.

3 Depth

Set to 0 to turn off this section.



4 Diameter

If your drawer slide requires notched front panels then set it here.

5 Horizontal Offset

This is the distance from each end of the pullout finished front (not including side overhang) to the center of the dowel hole.

6 Spacing List

This is the distance from the top or bottom (negative) of the pullout finished front to the center of the dowel hole (not including bottom overhang).

7 Reference From Drawer Box

Currently not used.

3) Drawer / Pullout Box Front Holes

Pilot in sub-front for connecting to bottom.

1 Layer Name

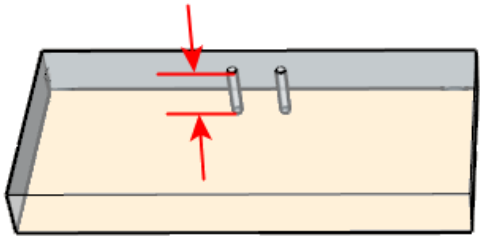
This is the Layer Name for Sub-Front Pilot Holes.

2 Comment / Purpose

This is the Comment for Sub-Front Pilot Holes.

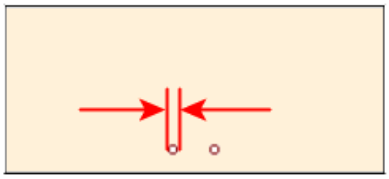
3 Depth

Set to 0 to turn off this section.



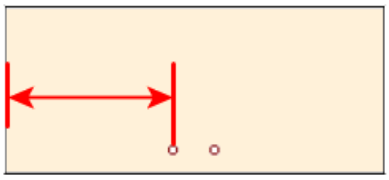
4 Diameter

This is the diameter of the holes for this Hole Set



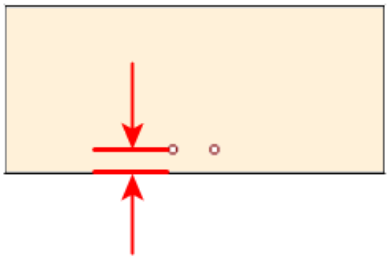
5 Horizontal Offset

This is the distance from each end of the front to center of the hole for this Hole Set.



6 Vertical Spacing List

For multiple columns of holes, enter the offset for each column separated by a comma.



7 Reference From Drawer Box

Not Currently Used

4) Drawer Pullout Box Front Mid Holes

Pilot Sub-Front into 3/4 Drawer bottom (mid)

1 Layer Name

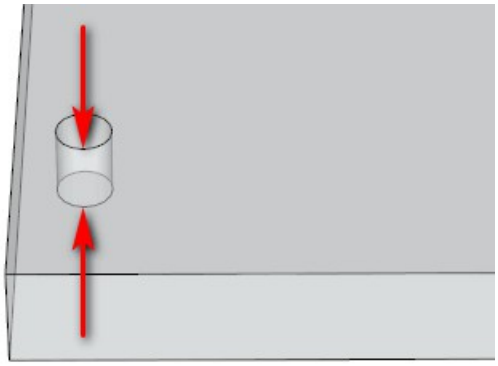
This is the Layer Name for Sub-Front Mid Pilot Holes.

2 Comment / Purpose

This is the Comment for Sub-Front Mid Pilot Holes.

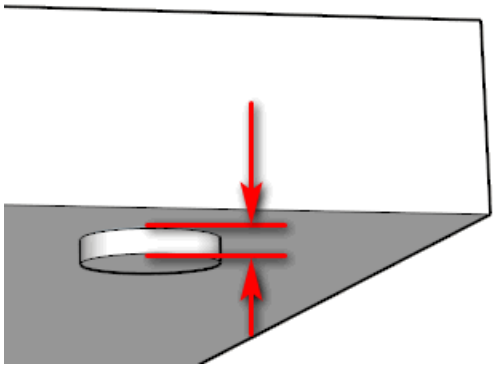
3 Depth

Set to 0 to turn off this section.



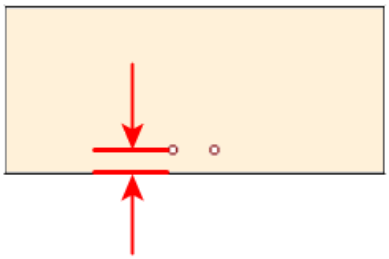
4 Auto Depth Adjustment

Set to -1 to ignore the auto adjustment.



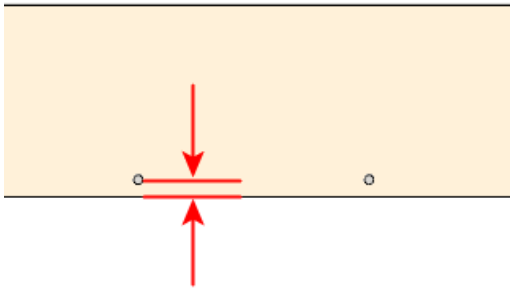
5 Diameter

This is the diameter of the pilot holes.



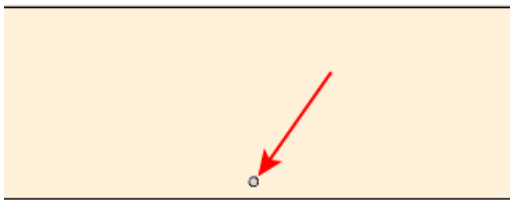
6 Bottom Offset

This is the diameter of the pilot holes.



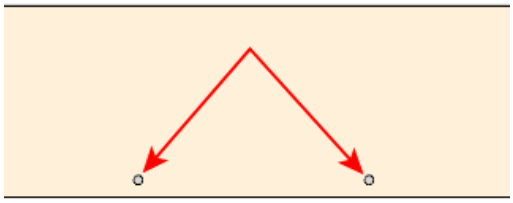
7 1 hole bottom wider than

If bottom panels are this wide or wider then add a centered panel hole.



8 2 holes bottom wider than

If bottom panels are this wide or wider then add a 2 centered panel holes. If panel is at least this wide then the previous parameter is ignored.



9 Reference From Drawer Box

Not Currently Used

5) Drawer Pullout Box Front Hole Set

Alternate - to pilot in sub-front for connecting to bottom.

1 Layer Name

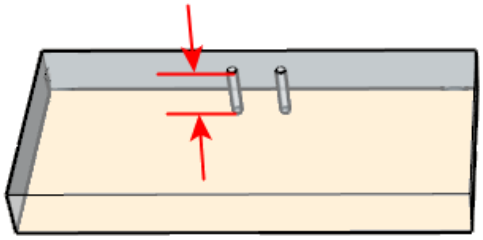
This is the Layer Name for Sub-Front Pilot Holes.

2 Comment / Purpose

This is the Comment for Sub-Front Pilot Holes.

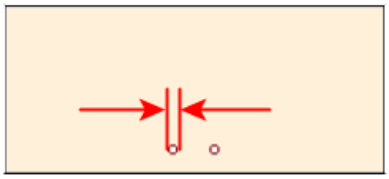
3 Depth

Set to 0 to turn off this section.



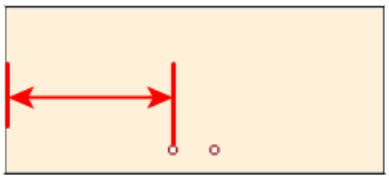
4 Diameter

This is the diameter of the holes for this Hole Set



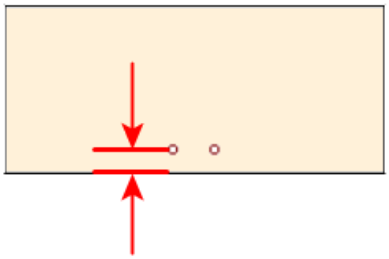
5 Horizontal Offset

This is the distance from each end of the front to center of the hole for this Hole Set.



6 Vertical Spacing List

For multiple columns of holes, enter the offset for each column separated by a comma.



6) Drawer Front Hole Set

Needs attention for metal system and actual drawer front.

1 Layer Name

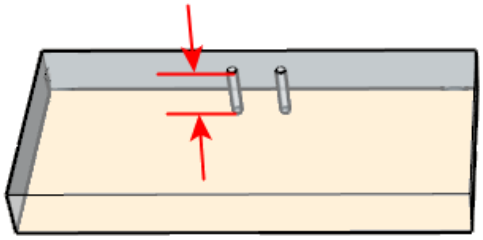
This is the Layer Name for Sub-Front Pilot Holes.

2 Comment / Purpose

This is the Comment for Sub-Front Pilot Holes.

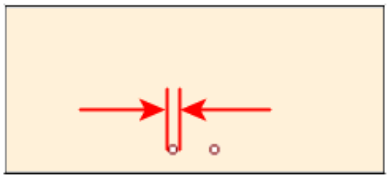
3 Depth

Set to 0 to turn off this section.



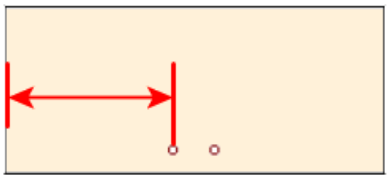
4 Diameter

This is the diameter of the holes for this Hole Set



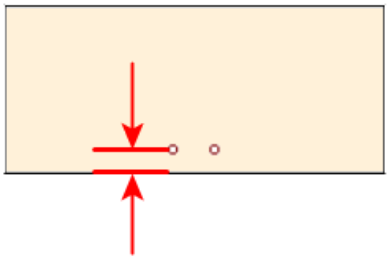
5 Horizontal Offset

This is the distance from each end of the front to center of the hole for this Hole Set.



6 Vertical Spacing List

For multiple columns of holes, enter the offset for each column separated by a comma.



7 Reference From Drawer Box

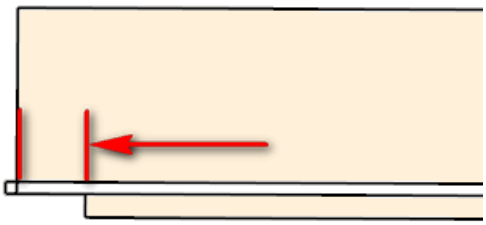
Not Currently Used

7) Undermount Front Notch

Drawer part notching for under mount drawer slides

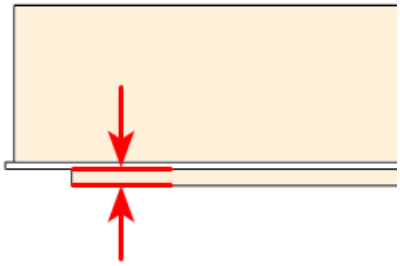
1 Front Notch

If your drawer slide requires notched front panels then set it here.



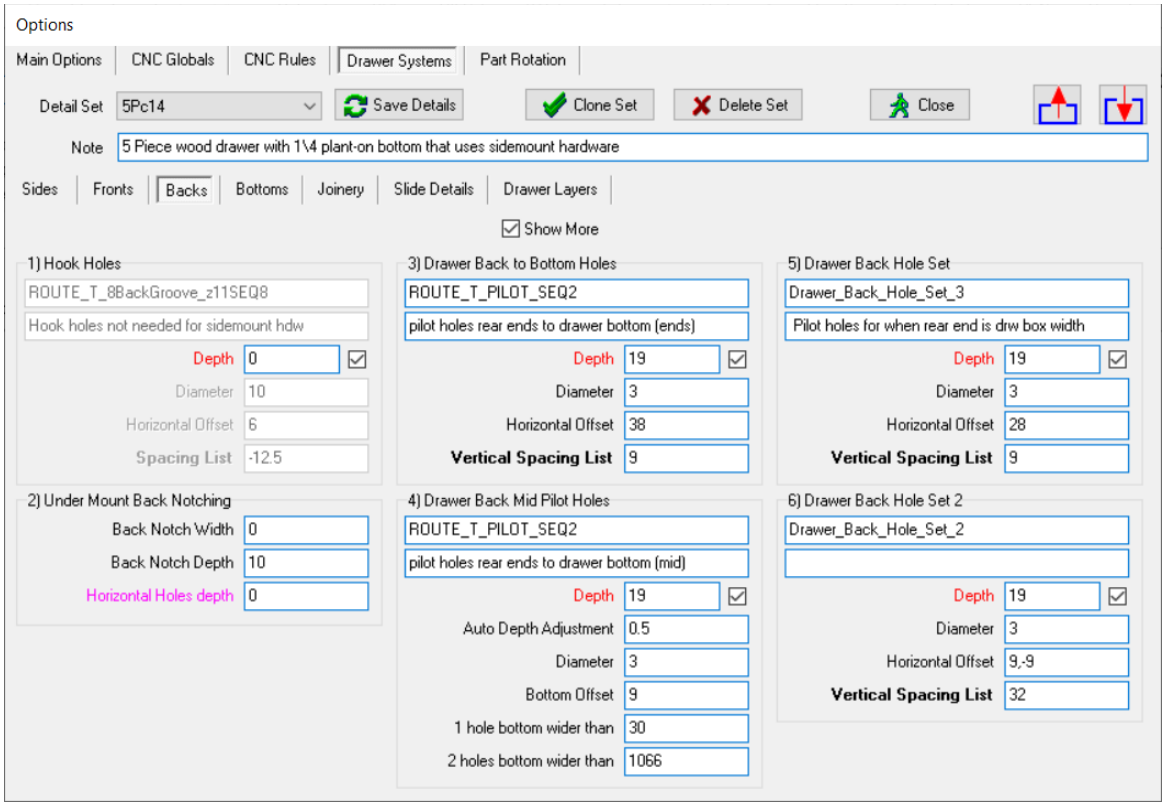
2 Front Notch Depth

This is the Depth of the Front Notch for Undermount Slides.



Backs Tab

This tab contains the machining information for the back side of Drawer Box Rear End.



1) Hook Holes

Drill for under mount hardware hook hole that attaches hardware to drawer box at back.

1 Layer Name

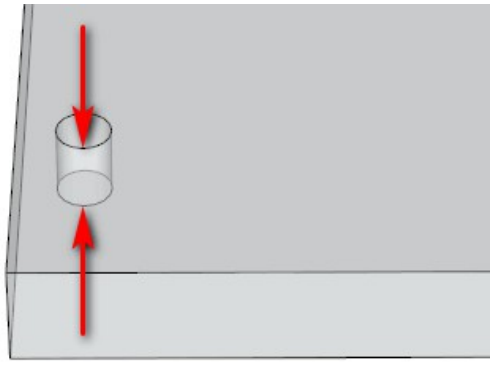
This is the Layer Name for Drawer Box Rear End Hook Holes.

2 Comment / Purpose

This is the Layer Name for Drawer Box Rear End Hook Holes.

3 Depth

Set to 0 to turn off this section.



4 Diameter

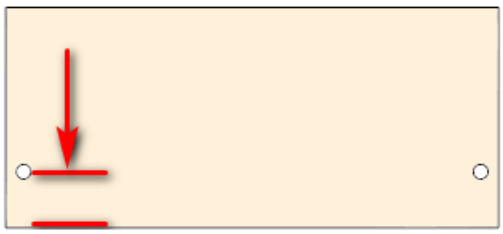
This is the diameter of the drawer hook hole on the drawer box rear end.

5 Horizontal Offset

This is the distance from each end of the drawer box rear end to the center of the Hook hole.

6 Spacing List

This is the distance from the top or bottom (negative) of the drawer box back to the center of the Hook hole.

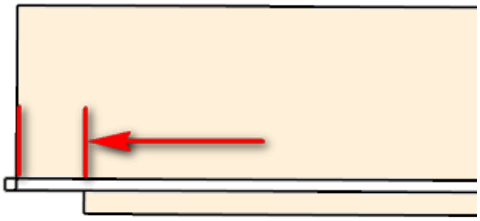


2) Under Mount Back Notching

.

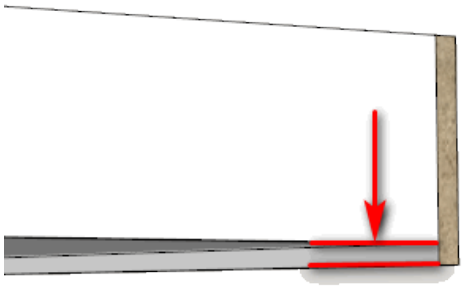
1 Back Notch

The Back Notch is used with undermount drawer slides that require a small notch on the Back Panel of the drawer box. There are two notches on either side of the Back Panel. The depth of the Notch is determined by where the drawer bottom groove is on the Back Panel.



2 Back Notch Depth

Drawer part notching for under mount drawer hardware.



3) Drawer Back to Bottom Holes

Pilot holes in drawer back for connecting drawer back to back edge of drawer bottom. Both ends only.

1 Layer Name

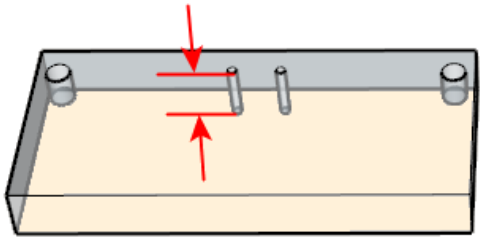
This is the Layer Name for Drawer Back to Bottom Holes.

2 Comment / Purpose

This is the Layer Name for Drawer Back to Bottom Holes.

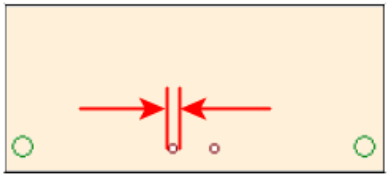
3 Depth

Set to 0 to turn off this section.



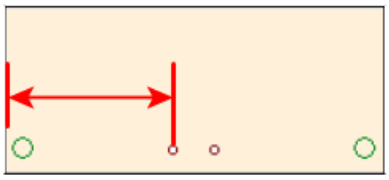
4 Diameter

This is the diameter of the holes for this Hole Set.



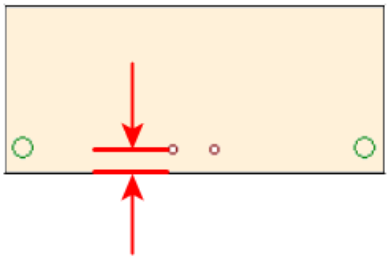
5 Horizontal Offset

This is the distance from each end of the Front to center of the hole for this Hole Set.



6 Vertical Spacing List

For multiple columns of holes, enter the offset for each column separated by a comma.



4) Drawer Back Mid Pilot Holes

Pilot holes in drawer back for connecting drawer back to edge of drawer bottom. Mid holes only.

1 Layer Name

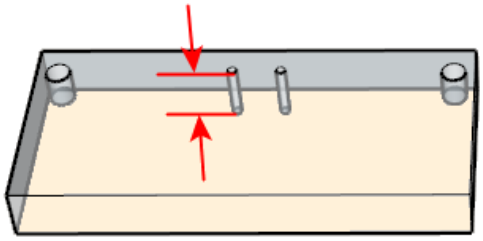
This is the Layer Name for Drawer Back Mid Pilot Holes.

2 Comment / Purpose

This is the Layer Name for Drawer Back Mid Pilot Holes.

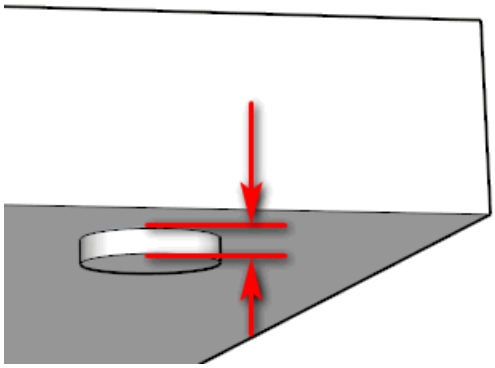
3 Depth

Set to 0 to turn off this section.



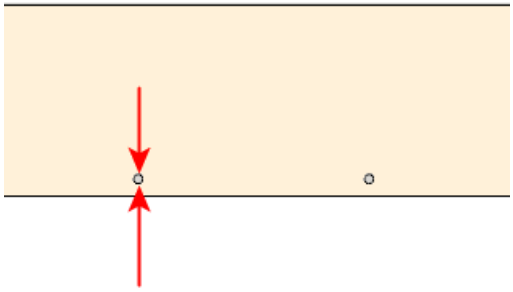
4 Auto Depth Adjust

Set to -1 to ignore the auto adjustment



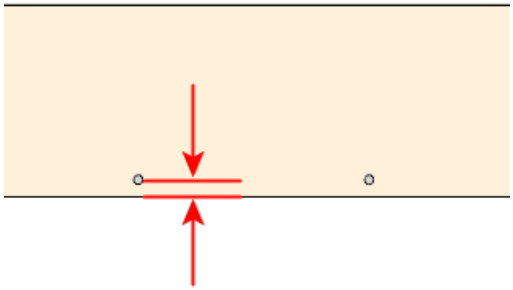
5 Diameter

This is the diameter of the pilot holes.



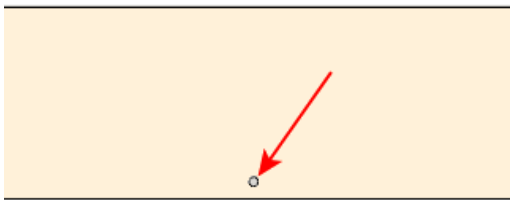
6 Bottom Offset

If bottom panels are this wide or wider then add a centered panel hole.



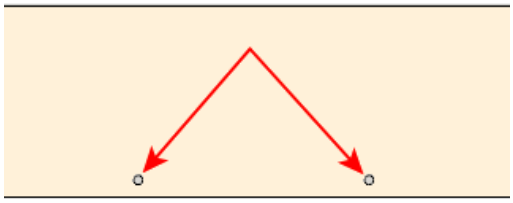
7 1 hole bottom wider than

If bottom panels are this wide or wider then add a centered panel hole.



8 2 holes bottom wider than

If bottom panels are this wide or wider then add a 2 centered panel holes. If panel is at least this wide then the previous parameter is ignored.



5) Drawer Back Hole Set

Used if back length is drawer box width.

1 Layer Name

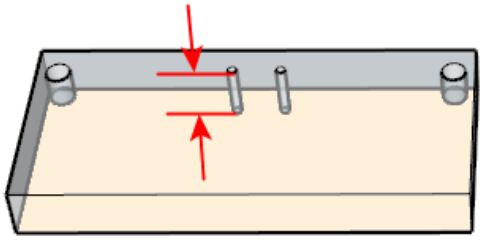
This is the Layer Name for Drawer Back Hole Set.

2 Comment / Purpose

This is the Layer Name for Drawer Back Hole Set.

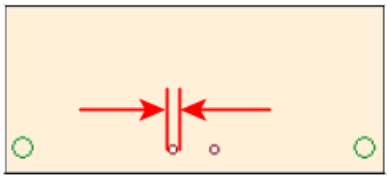
3 Depth

Set to 0 to turn off this section.



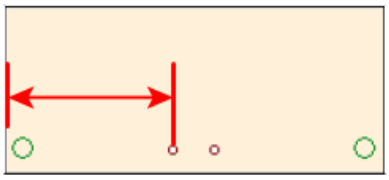
4 Diameter

This is the diameter of the holes for this Hole Set.



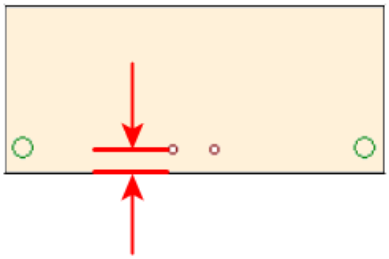
5 Horizontal Offset

This is the distance from each end of the Front to center of the hole for this Hole Set.



6 Vertical Spacing List

For multiple columns of holes, enter the offset for each column separated by a comma.



6) Drawer Back Hole Set 2

Metal drawer system to connect sides to back.

1 Layer Name

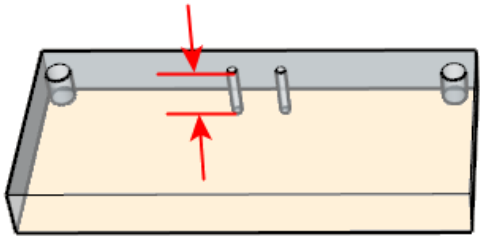
This is the Layer Name for Drawer Back to Bottom Holes.

2 Comment / Purpose

This is the Layer Name for Drawer Back to Bottom Holes.

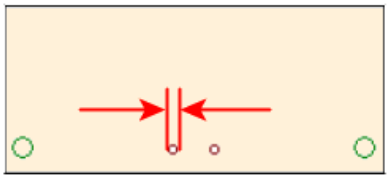
3 Depth

Set to 0 to turn off this section.



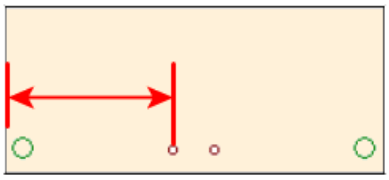
4 Diameter

This is the diameter of the holes for this Hole Set.



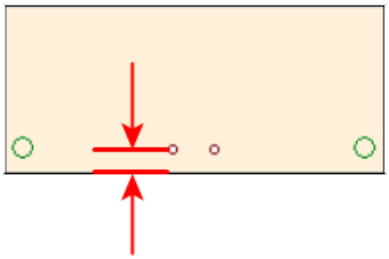
5 Horizontal Offset

This is the distance from each end of the Front to center of the hole for this Hole Set.



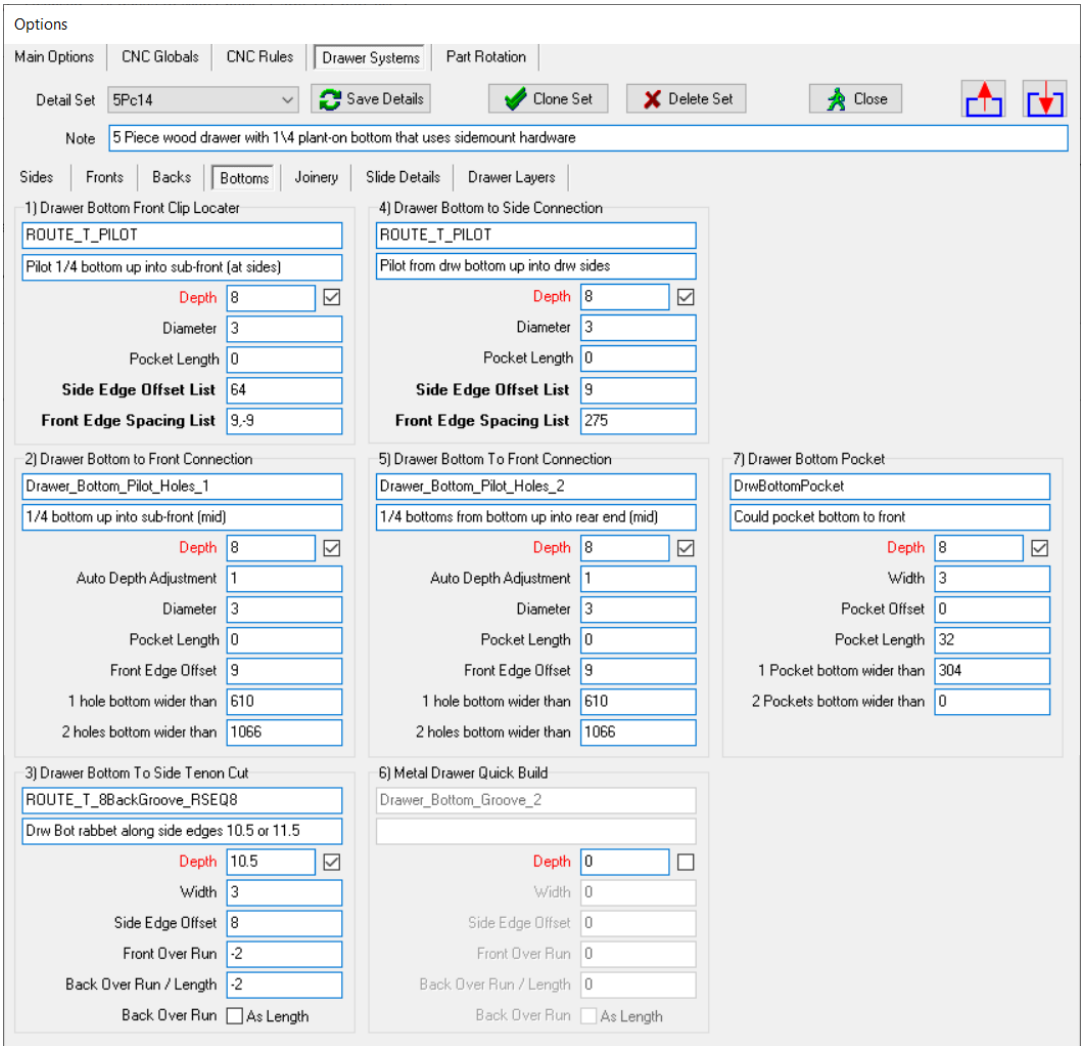
6 Vertical Spacing List

For multiple columns of holes, enter the offset for each column separated by a comma.



Bottoms Tab

This tab contains the machining information for the back side of Drawer Box Rear End.



1) Drawer Bottom Front Clip Locator

Pilot holes to locate under mount hardware front clips on drawer bottom.

1 Layer Name

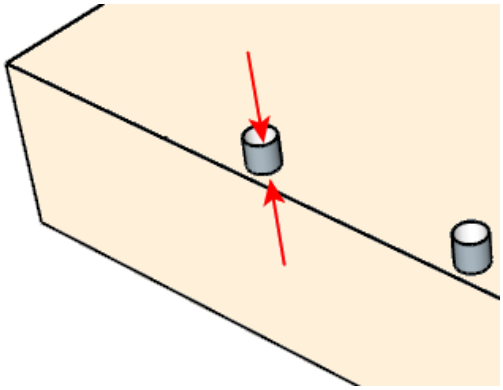
This is the Layer Name for Drawer Bottom Front Clip Locator.

2 Comment / Purpose

This is the Layer Name for Drawer Bottom Front Clip Locator.

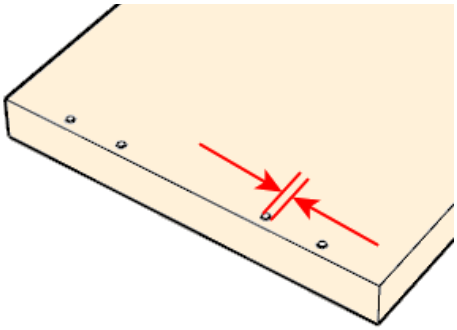
3 Depth

Pilot holes to locate under mount hardware front clips on drawer bottom.



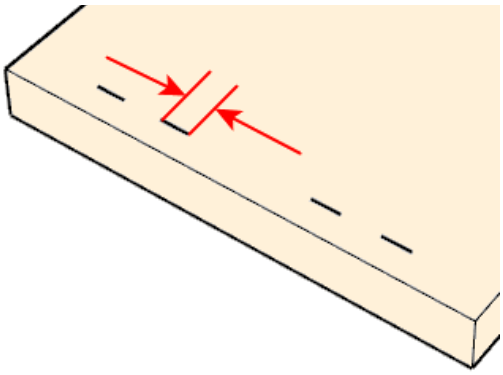
4 Diameter

This is the diameter of the holes for this Hole Set.



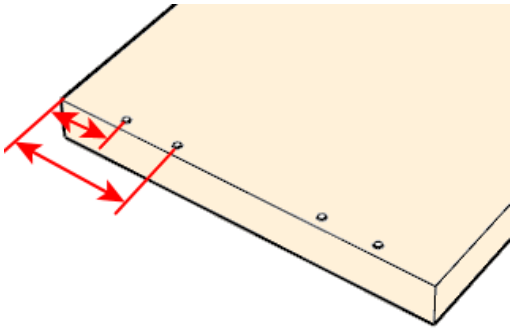
5 Pocket Length

Pilot holes to locate under mount hardware front clips on drawer bottom.



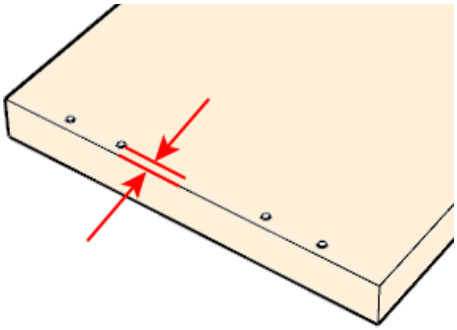
6 Side Edge Offset List

This is the distance from each end of the Back to the center of the hole for this Hole Set.



7 Front Edge Spacing List

For multiple columns of holes, enter the offset for each column separated by a comma.



2) Drawer Bottom to Front Connection

Pilot holes from drawer bottom to subfront.

1 Layer Name

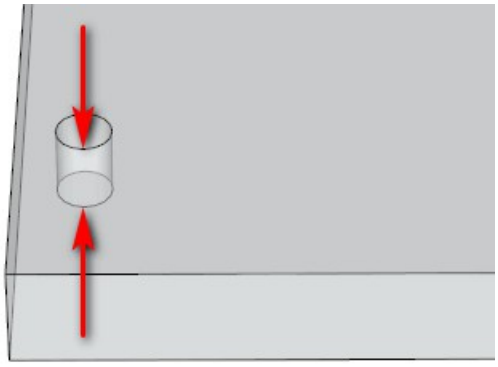
This is the Layer Name for Drawer Bottom to Front Connection.

2 Comment / Purpose

This is the Layer Name for Drawer Bottom to Front Connection.

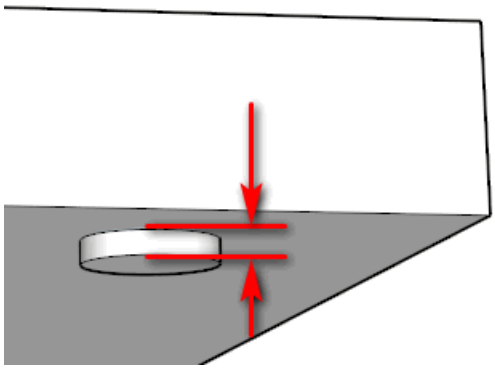
3 Depth

Set to 0 to turn off this section



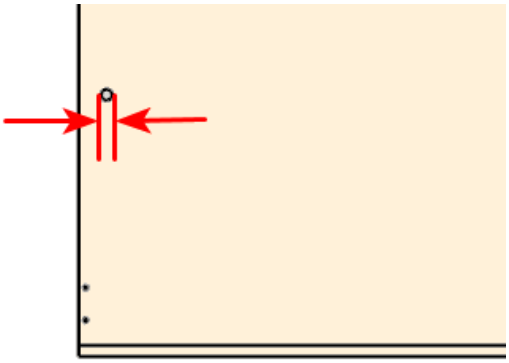
4 Auto Depth Adjustment

Set to -1 to ignore the auto adjustment



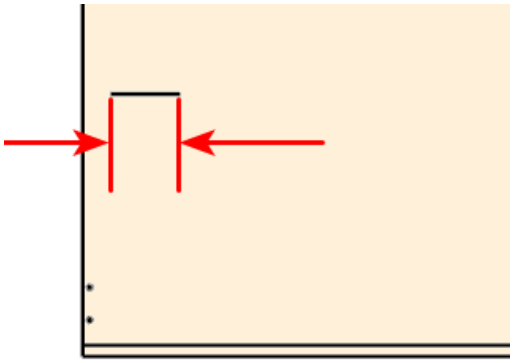
5 Diameter

This is the diameter of the pilot holes.



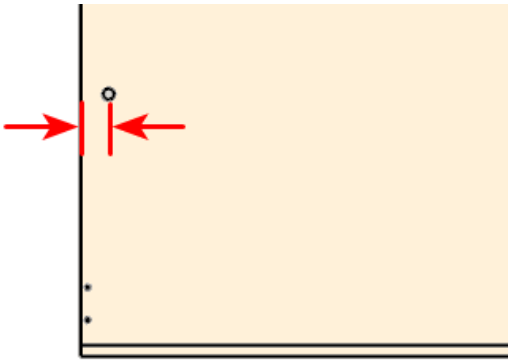
6 Pocket Length

Pilot holes from drawer bottom up into drawer sub-front. Also can do pocket cut for connecting 3-sided drawer to drawer front.



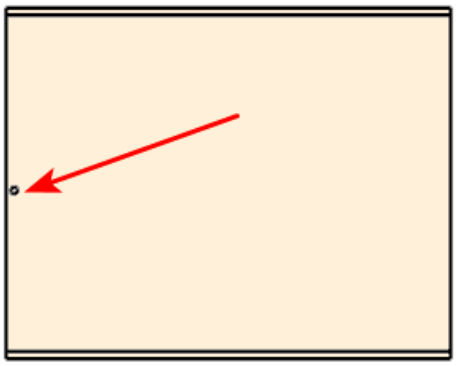
7 Front Edge Offset

This is the distance from each end of the panel to the center of the hole(s)



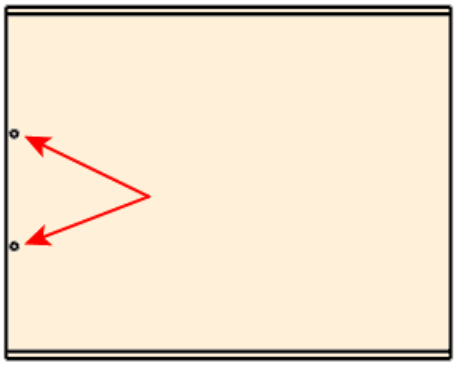
8 1 hole bottom wider than

If bottom panels are this wide or wider then add a centered panel hole



9 2 holes bottom wider than

If bottom panels are this wide or wider then add a 2 centered panel holes. If panel is at least this wide then the previous parameter is ignored.



3) Drawer Bottom To Side Tenon Cut

Drawer bottom rabbet along side edges 10.5 or 11.5.

1 Layer Name

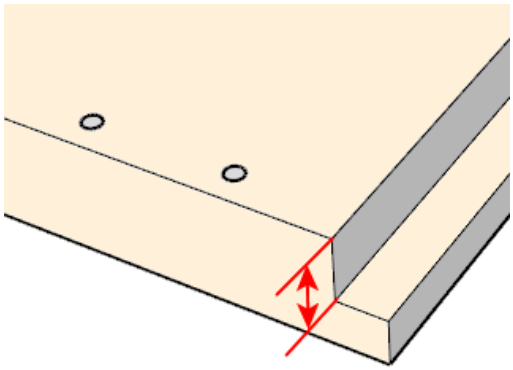
This is the Layer Name for Drawer Bottom To Side Tenon Cut.

2 Comment / Purpose

This is the Layer Name for Drawer Bottom To Side Tenon Cut.

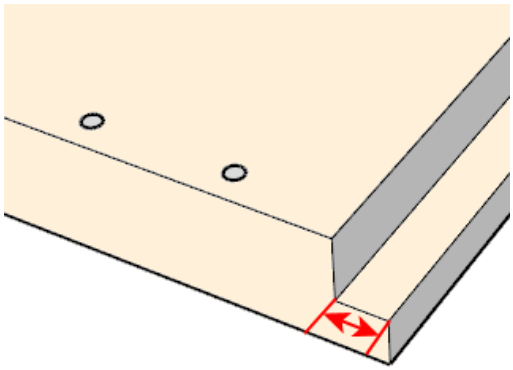
3 Depth

Set to 0 to turn off this section



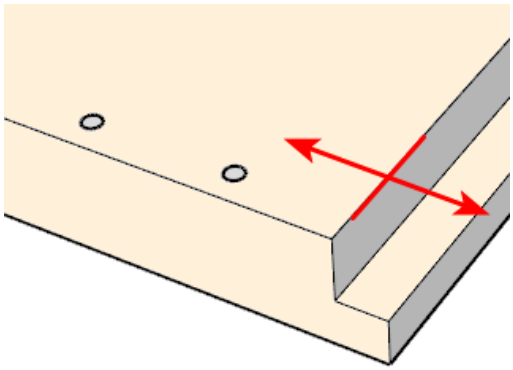
4 Width

This is the horizontal offset from the edge of the bottom to the start of the groove.



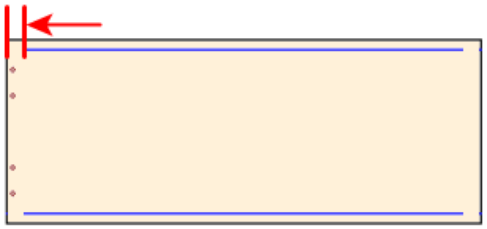
5 Side Edge Offset

This is the horizontal offset from the edge of the bottom to the start of the groove.



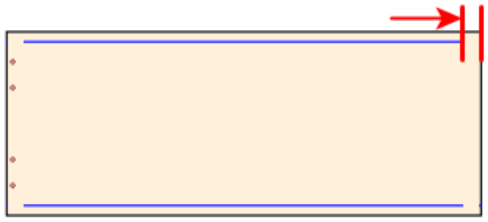
6 Front Overrun

This is the Groove overrun at the front of the back.



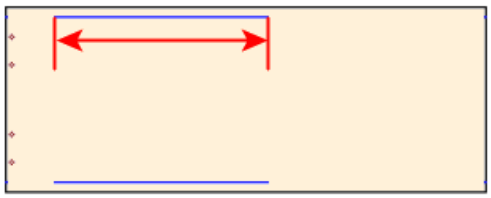
7 Back Overrun / Length

This is the back overrun at the back of the back.



8 Back Overrun as Length

Cut a rabbet along bottom side edges that allows drawer bottom to connect into groove on drawer sides.



4) Drawer Bottom to Side Connection

Pilot holes to locate under mount hardware front clips on drawer bottom.

1 Layer Name

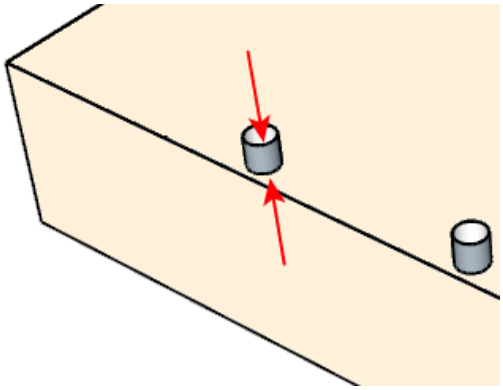
This is the Layer Name for Drawer Bottom Front Clip Locator.

2 Comment / Purpose

This is the Layer Name for Drawer Bottom Front Clip Locator.

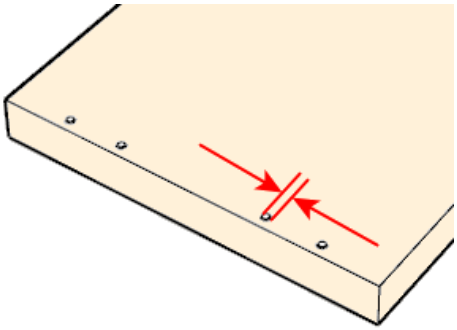
3 Depth

Pilot holes to locate under mount hardware front clips on drawer bottom.



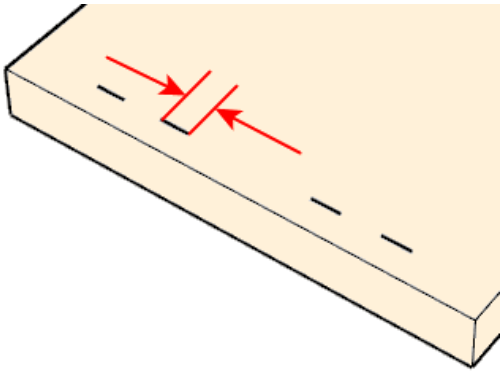
4 Diameter

This is the diameter of the holes for this Hole Set.



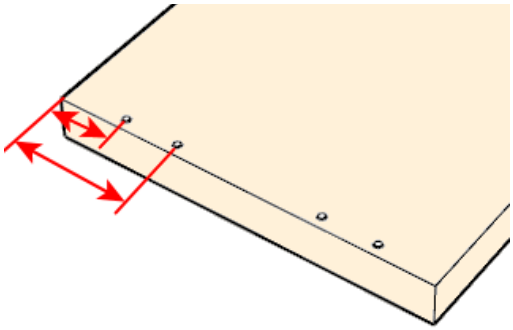
5 Pocket Length

Pilot holes to locate under mount hardware front clips on drawer bottom.



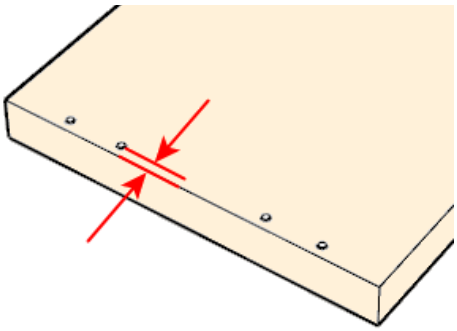
6 Side Edge Offset List

This is the distance from each end of the Back to the center of the hole for this Hole Set.



7 Front Edge Spacing List

For multiple columns of holes, enter the offset for each column separated by a comma.



5) Drawer Bottom to Front Connection

Center drawer bottom at front pockets or pilots.

1 Layer Name

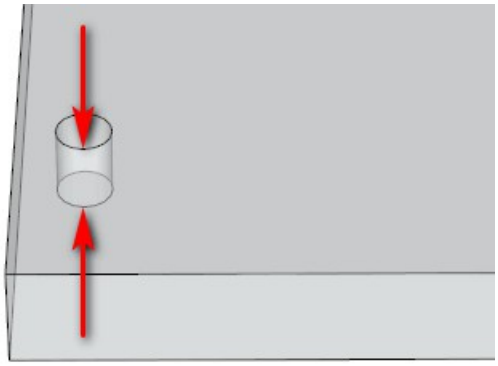
This is the Layer Name for Drawer Bottom to Front Connection.

2 Comment / Purpose

This is the Layer Name for Drawer Bottom to Front Connection.

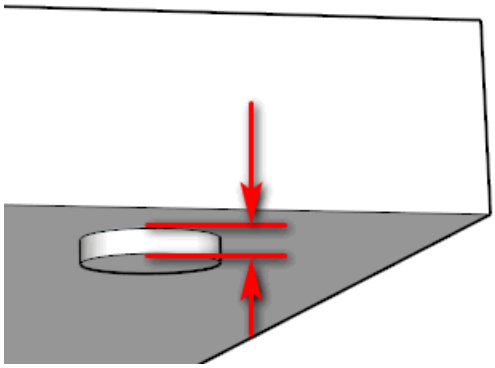
3 Depth

Set to 0 to turn off this section



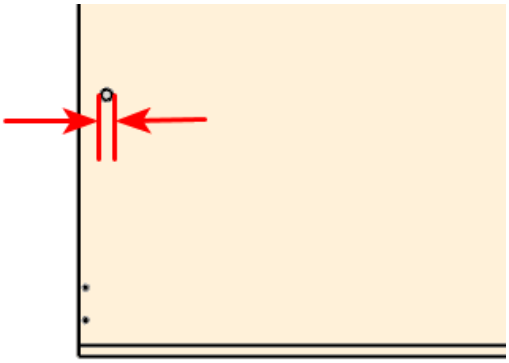
4 Auto Depth Adjustment

Set to -1 to ignore the auto adjustment



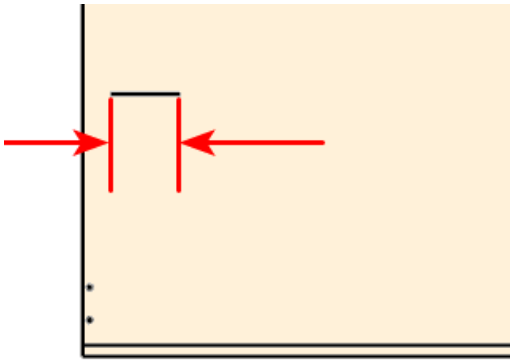
5 Diameter

This is the diameter of the pilot holes.



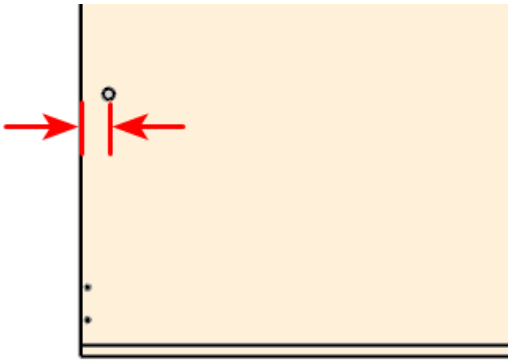
6 Pocket Length

Pilot holes from drawer bottom up into drawer sub-front. Also can do pocket cut for connecting 3-sided drawer to drawer front.



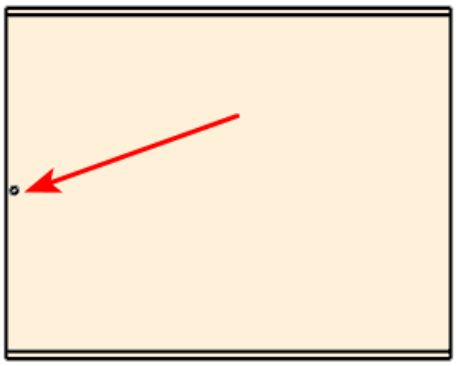
7 Front Edge Offset

This is the distance from each end of the panel to the center of the hole(s)



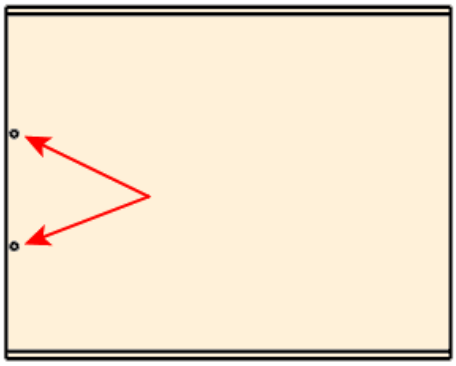
8 1 hole bottom wider than

If bottom panels are this wide or wider then add a centered panel hole



9 2 holes bottom wider than

If bottom panels are this wide or wider then add a 2 centered panel holes. If panel is at least this wide then the previous parameter is ignored.



6) Metal Drawer Quick Build

Zargen Quick Build Machining or Pocket Front.

1 Layer Name

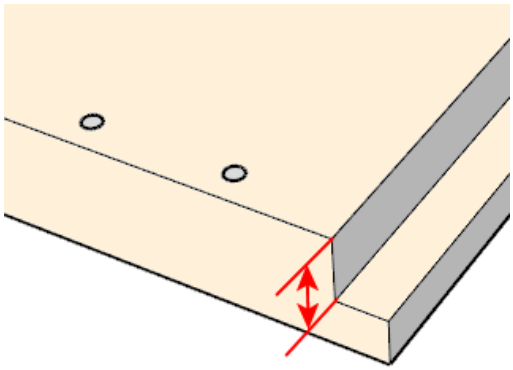
This is the Layer Name for Drawer Bottom To Side Tenon Cut.

2 Comment / Purpose

This is the Layer Name for Drawer Bottom To Side Tenon Cut.

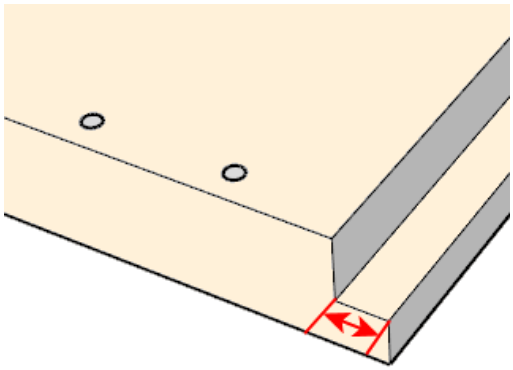
3 Depth

Set to 0 to turn off this section



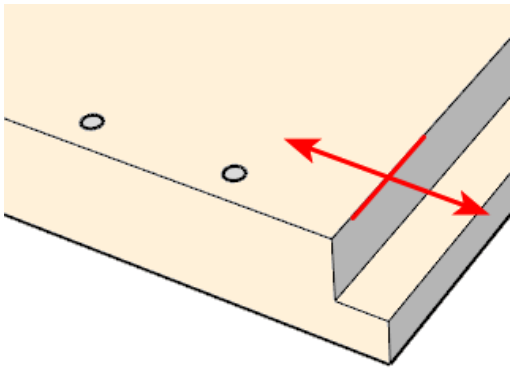
4 Width

This is the horizontal offset from the edge of the bottom to the start of the groove.



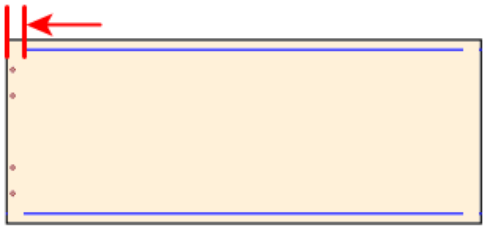
5 Side Edge Offset

This is the horizontal offset from the edge of the bottom to the start of the groove.



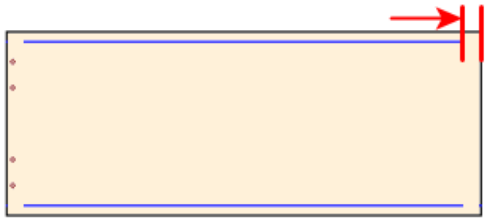
6 Front Overrun

This is the Groove overrun at the front of the back.



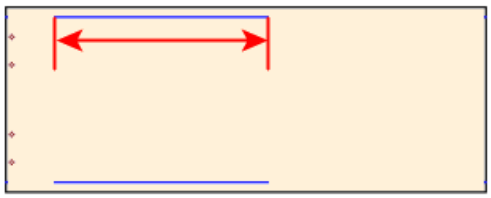
7 Back Overrun / Length

This is the back overrun at the back of the back.



8 Back Overrun as Length

Use to run a groove along side edges of drawer bottom as required by Grass Zargen Quick Build feature. Also can cut pockets for attaching drawer bottom to drawer front.



7) Drawer Bottom Pocket

Pocket Bottom to Front (Mid).

1 Layer Name

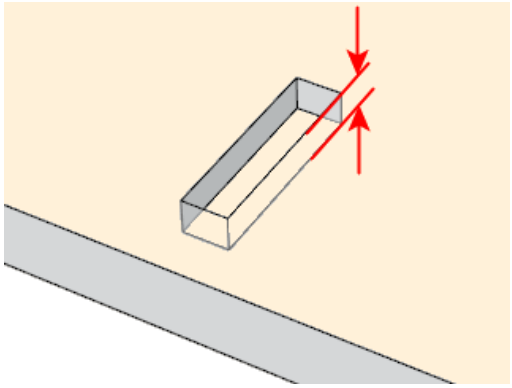
This is the Layer Name for Pocket Bottom to Front (Mid).

2 Comment / Purpose

This is the Layer Name for Pocket Bottom to Front (Mid).

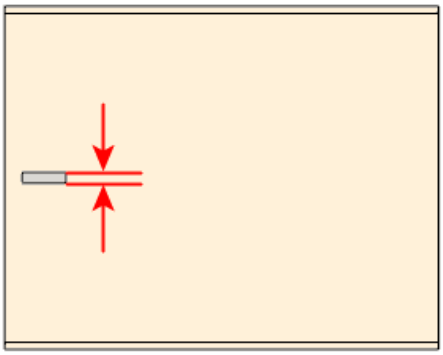
3 Depth

Set to 0 to turn off this section.



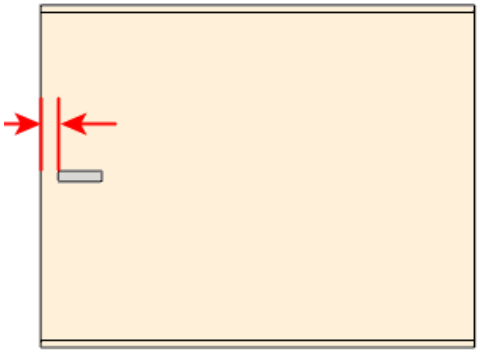
4 Width

This is the diameter of the pilot holes.



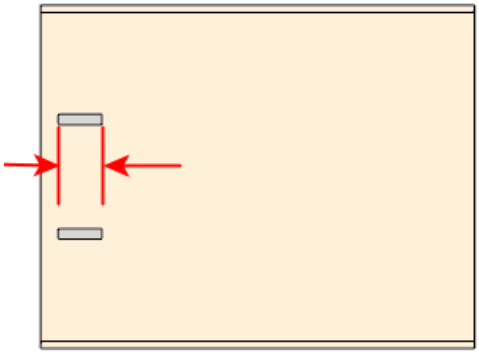
5 Pocket Offset

This is the distance from each end of the panel to the edge of the Pocket.



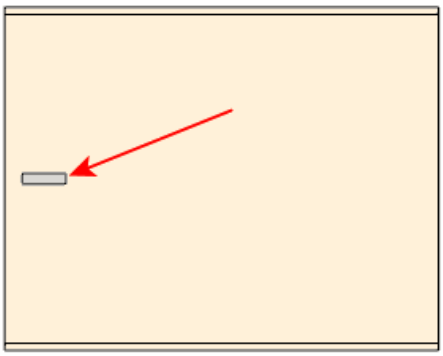
6 Pocket Length

This is the Length of the Pocket.



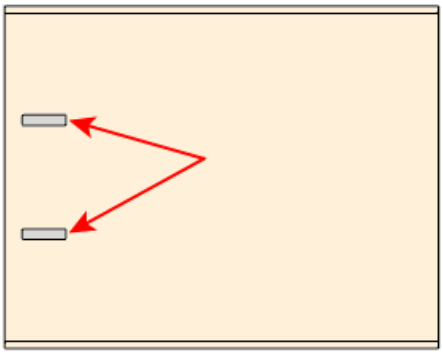
7 1 Pocket bottom wider than

If bottom panels are this wide or wider then add a centered Groove.

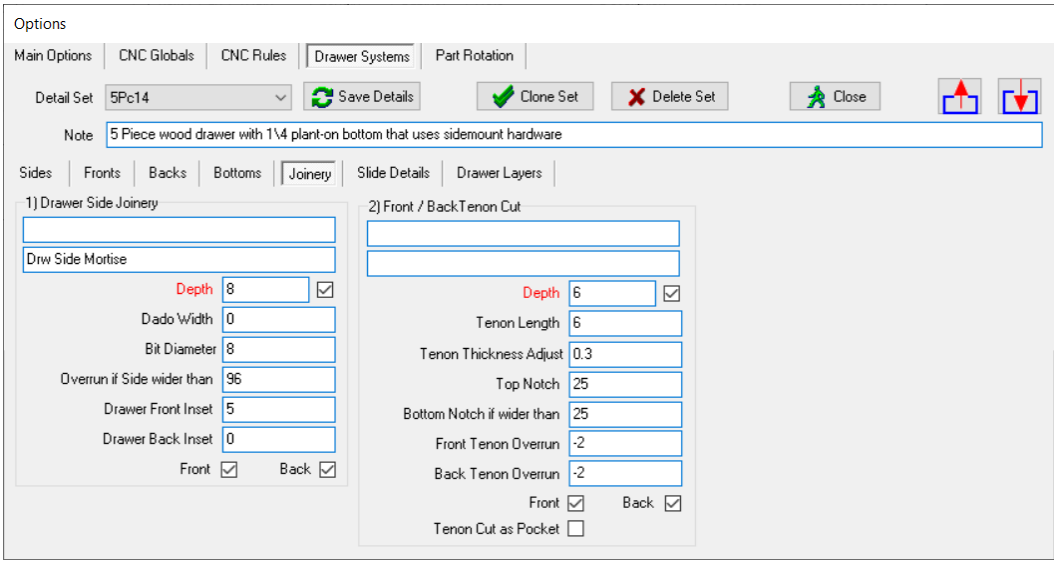


8 2 Pockets bottom wider than

If bottom panels are this wide or wider then add 2 centered Grooves. If panel is at least this wide then the previous parameter is ignored.



Joinery Tab



1) Drawer Side Joinery

Rabbet or Dado on Drawer Sides at front and or back.

1 Layer Name

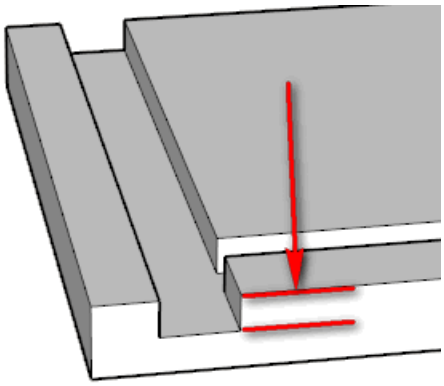
This is the Layer Name for Drawer Side Joinery.

2 Comment / Purpose

This is the Comment for Drawer Side Joinery.

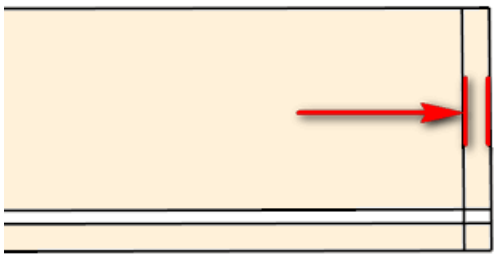
3 Depth

This is the Width of the dado or rabbet. Set this value to the width of your drawer fronts and backs if you want a rabbet. Set this value to 1/2 the width if you want a blind dado.



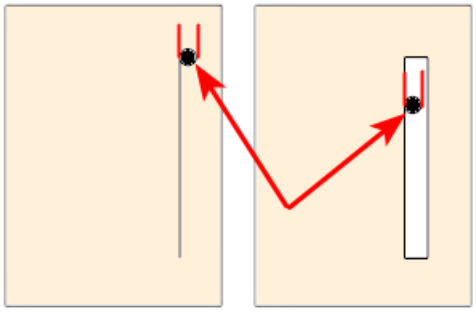
4 Dado Width

This is for the mortise width. Set this to 0 if you use a single line pass or to the width if you use pockets.



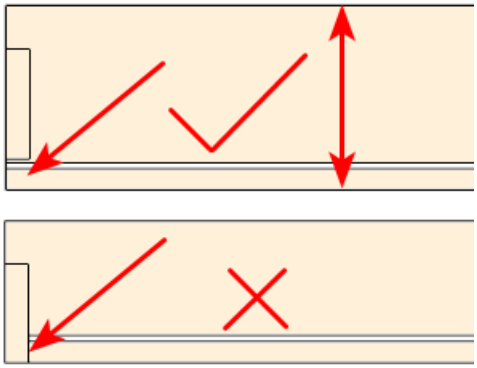
5 Bit Diameter

This is the bit diameter of the router bit that you are using to make the mortise. Bit overruns are calculated using this value.



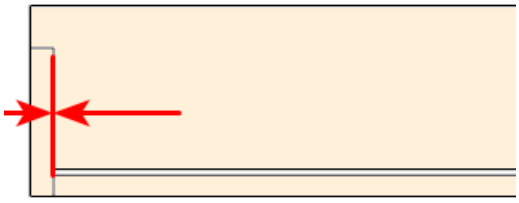
6 Overrun if Side Wider than

Use negative values to keep the routing within the part.



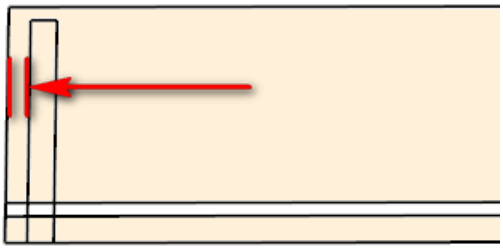
7 Drawer Front Inset

This is the micro adjust for the mortise.



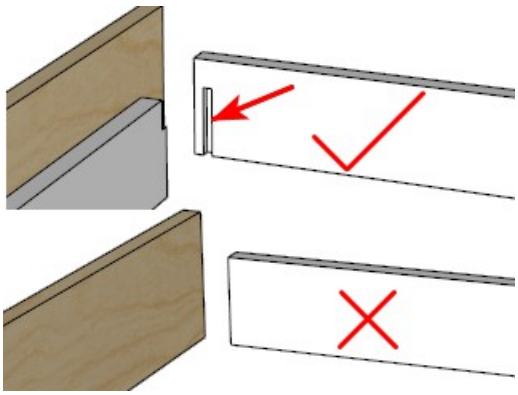
8 Drawer Back Inset

The Notch Size is used on the ends of the drawer fronts and backs when you want blind dado's. Set this value to 0 for straight rabbets.



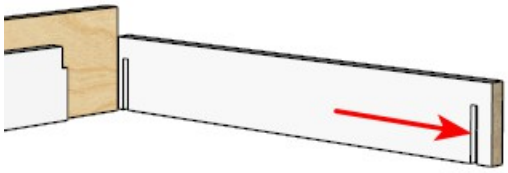
9 Front

Check this if you want a mortise for fronts on the Side Panel.



10 Back

Check this if you want a mortise for backs on the Side Panel.



Front / Back Tenon Cut

This is for having Tenons on the Front and or Back Drawer parts. This tenon will fit into the mortise on the Drawer Sides..

1 Layer Name

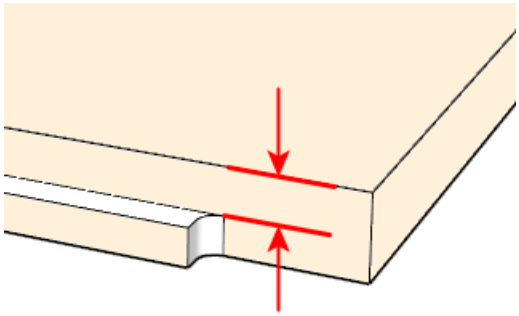
This is the Layer Name for Front / Back Tenon Cut.

2 Comment / Purpose

This is the Comment for Front / Back Tenon Cut.

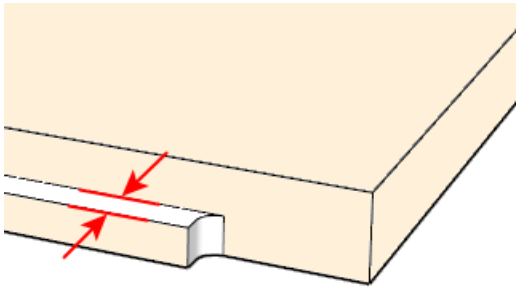
3 Depth

This is the Width of the dado or rabbet. Set this value to the width of your drawer fronts and backs if you want a rabbet. Set this value to 1/2 the width if you want a blind dado.



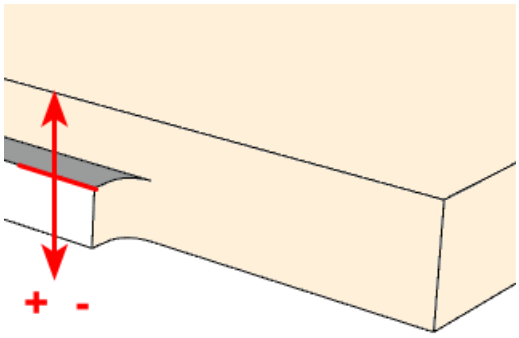
4 Tenon Length

This is the setting for how much the Tenon sits in the mortise.



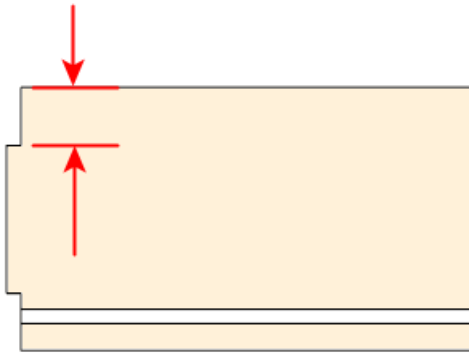
5 Tenon Thickness Adjust

This is the micro adjust for the Tenon Thickness.



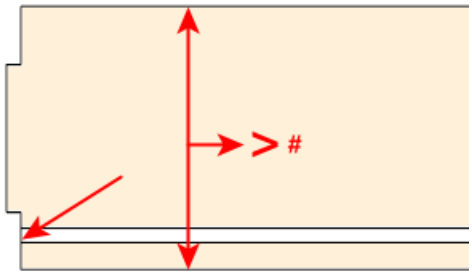
6 Top Notch

Make the top Notch large enough so you don't have edge banding issues.



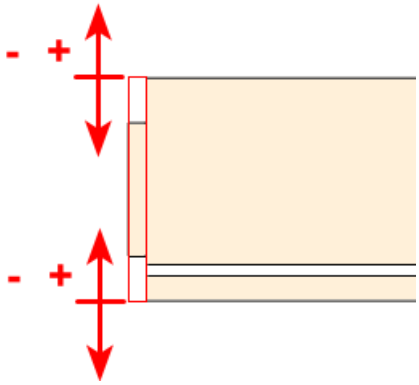
7 Bottom Notch if wider than

You can skip the Bottom Notch for narrow Fronts / Backs. Only allow a Bottom Notch if the Front / Back is at least this Height.



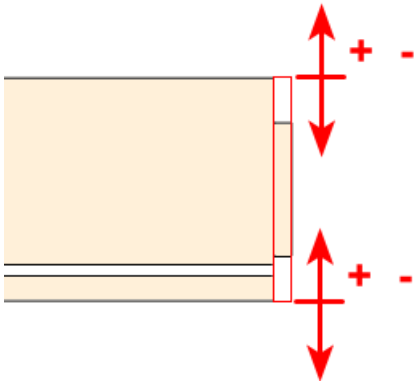
8 Front Tenon Overrun

This is the micro adjust for the Tenon Sizing Cut.



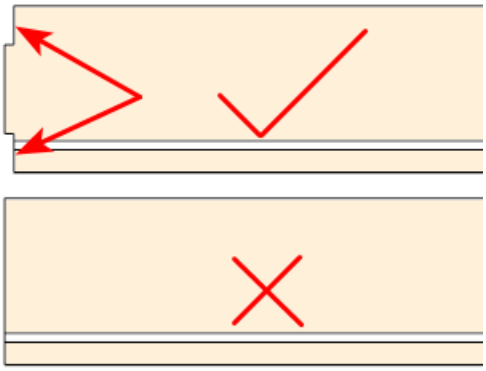
9 Back Tenon Overrun

This is the micro adjust for the Tenon Sizing Cut.



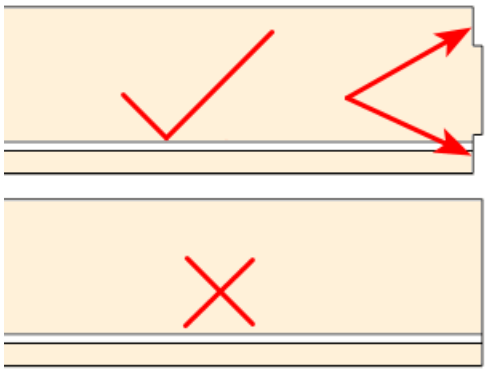
10 Front

Check this if you want to use Mortise and Tenon for Drawer Sub Fronts.



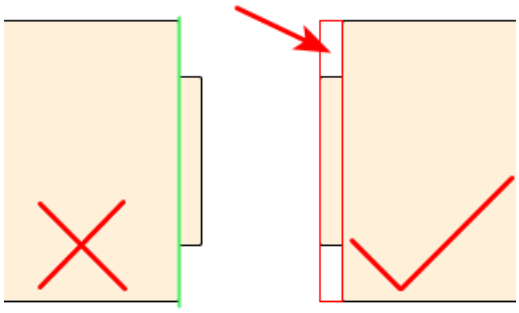
11 Back

Check this if you want to use Mortise and Tenon for Drawer Backs.



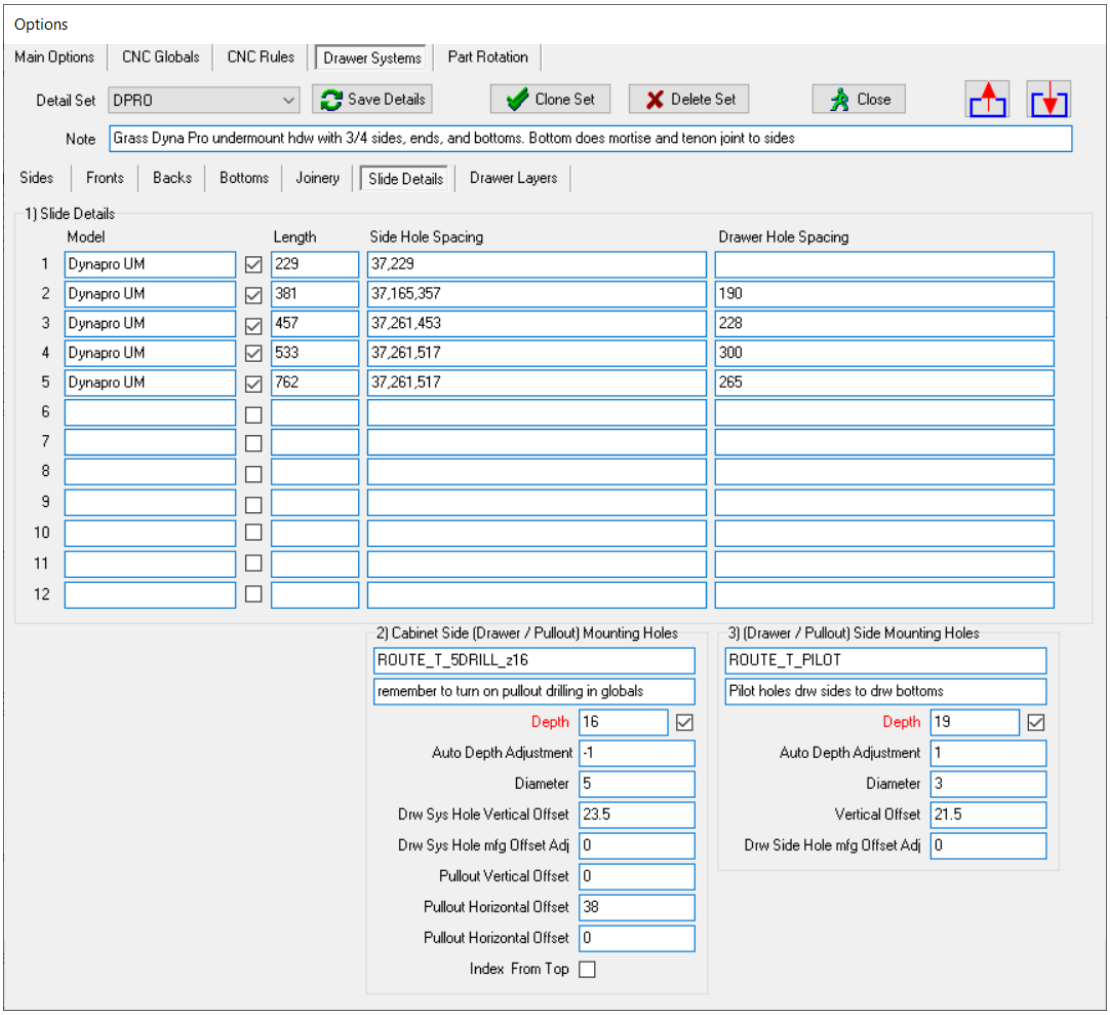
12 Tenon Cut as Pocket

Check this if you want the Tenon Sizing cut to be a pocket. Otherwise it is a single pass Cut.



Slide Details Tab

This is where you store drilling for the various slide lengths and Drilling information for Cabinet sides for Drawers and Pullouts.



2) Cabinet Side (Drawer / Pullout) Mounting Holes

These are 5mm system holes on cabinet sides for drawer and pullout hardware. Turn on in CNC Globals with checkbox for pullout system holes.

1 Layer Name

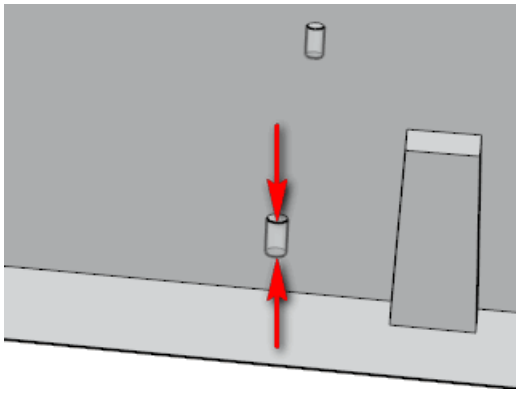
This is the Layer Name for Pocket Bottom to Front (Mid).

2 Comment / Purpose

This is the Layer Name for Pocket Bottom to Front (Mid).

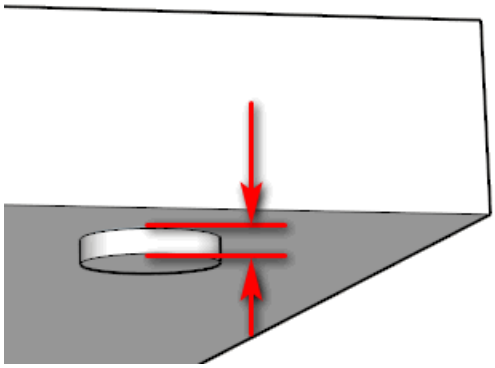
3 Depth

Set to 0 to turn off this section.



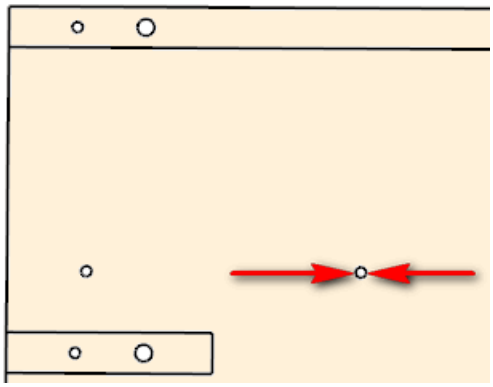
4 Auto Depth Adjustment

Set to -1 to ignore the auto adjustment.



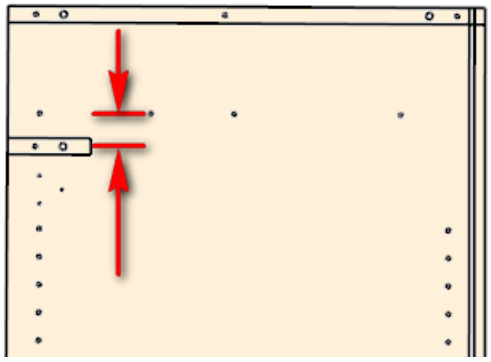
5 Diameter

This is the diameter of the holes in the cabinet sides used to mount the drawer slides.



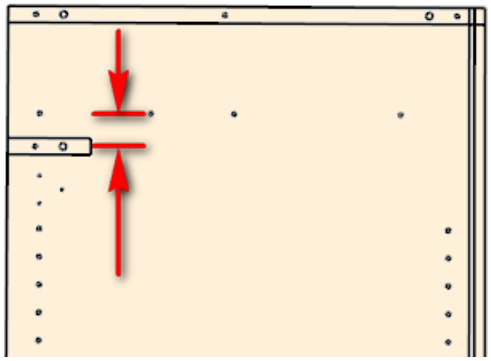
6 Drw Sys Hole Vertical Offset

This is the vertical offset dimension for 5mm system mounting holes on cabinet side panels. This is the most import dimension for properly locating these holes using the 32mm system.



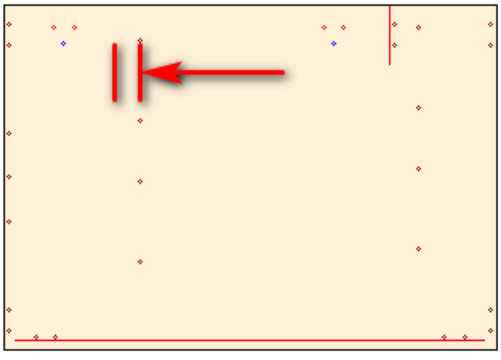
7 Drw Sys Hole mfg Offset Adj

This is the horizontal offset small adjustment to compensate for the difference between the mfg stated system hole setback and 37 system setback dimension.



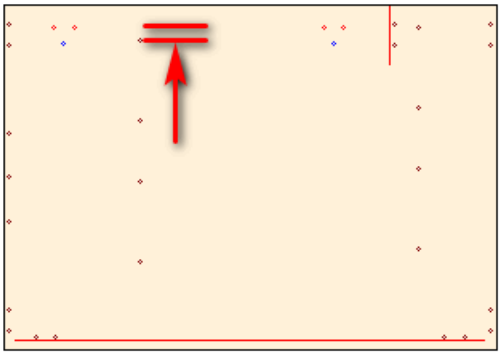
8 Pullout Vertical Offset

This value allows you to move all pullout holes up or down.



9 Pullout Horizontal Offset

This value allows you to push the pullout further into the cabinet allowing for front and hinge clearance.

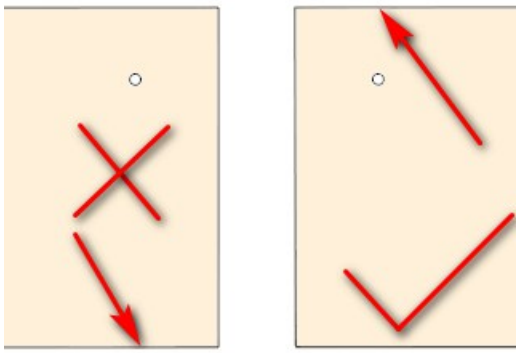


10 Pullout Sys Hole mfg Offset Adj

This is the vertical offset small adjustment to compensate for the difference between the mfg stated system hole setback and 37 system setback dimension. Not much of a concern for pullouts.

11 Index From Top

These are 5mm system holes on cabinet sides for drawer and pullout hardware. Turn on in CNC Globals with checkbox for pullout system holes.



3) (Drawer / Pullout) Side Mounting Holes

Pilot holes drawer sides to drawer bottoms.

1 Layer Name

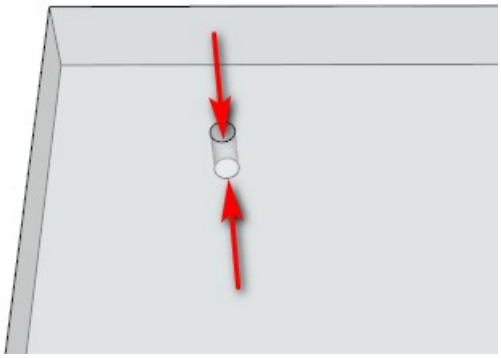
This is the Layer Name for Pocket Bottom to Front (Mid).

2 Comment / Purpose

This is the Layer Name for Pocket Bottom to Front (Mid).

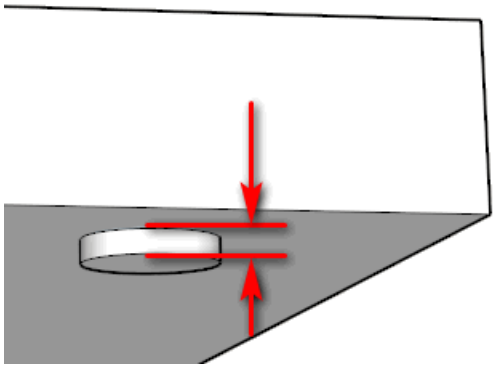
3 Depth

Set to 0 to turn off this section.



4 Auto Depth Adjustment

Set to -1 to ignore the auto adjustment.

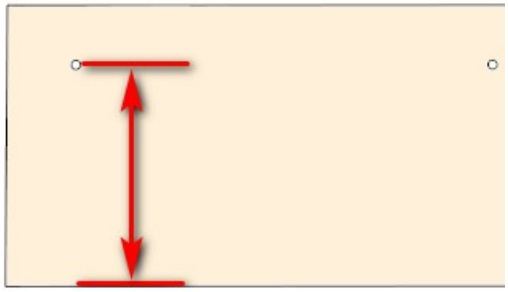


5 Diameter

This is the diameter of the drawer slide holes for the drawer box sides.

6 Vertical Offset

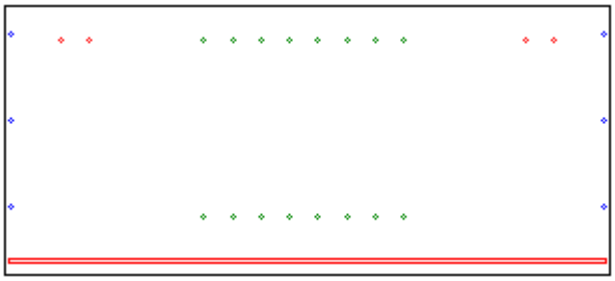
This is the vertical offset for drw member hdw mounting holes on drawer box sides. Also can be used for pilot holes to attach drw sides to 3/4 thick drawer bottoms.



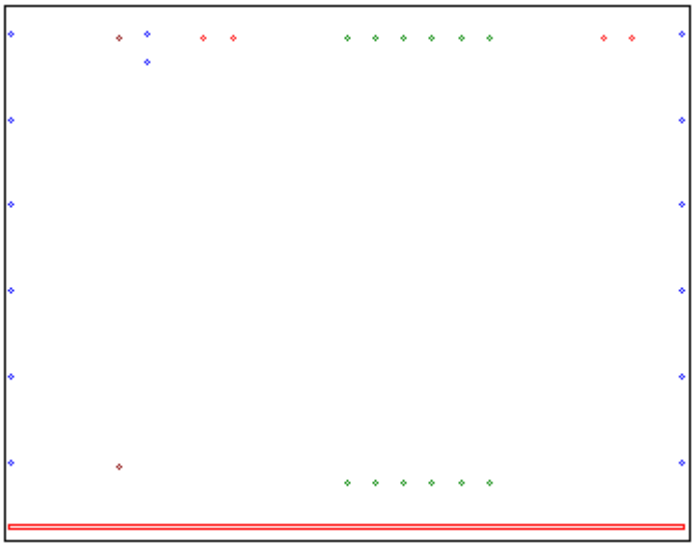
7 Drw Side Hole mfg Offset Adj

This is the horizontal offset small adjustment to compensate for the difference between the mfg stated drawer slide member hole setback and the dimension to where the hole is drilled on a drw side.

Here is an example of a 300mm X 680mm upper side panel using sine of the above construction options on the DXF Options page.

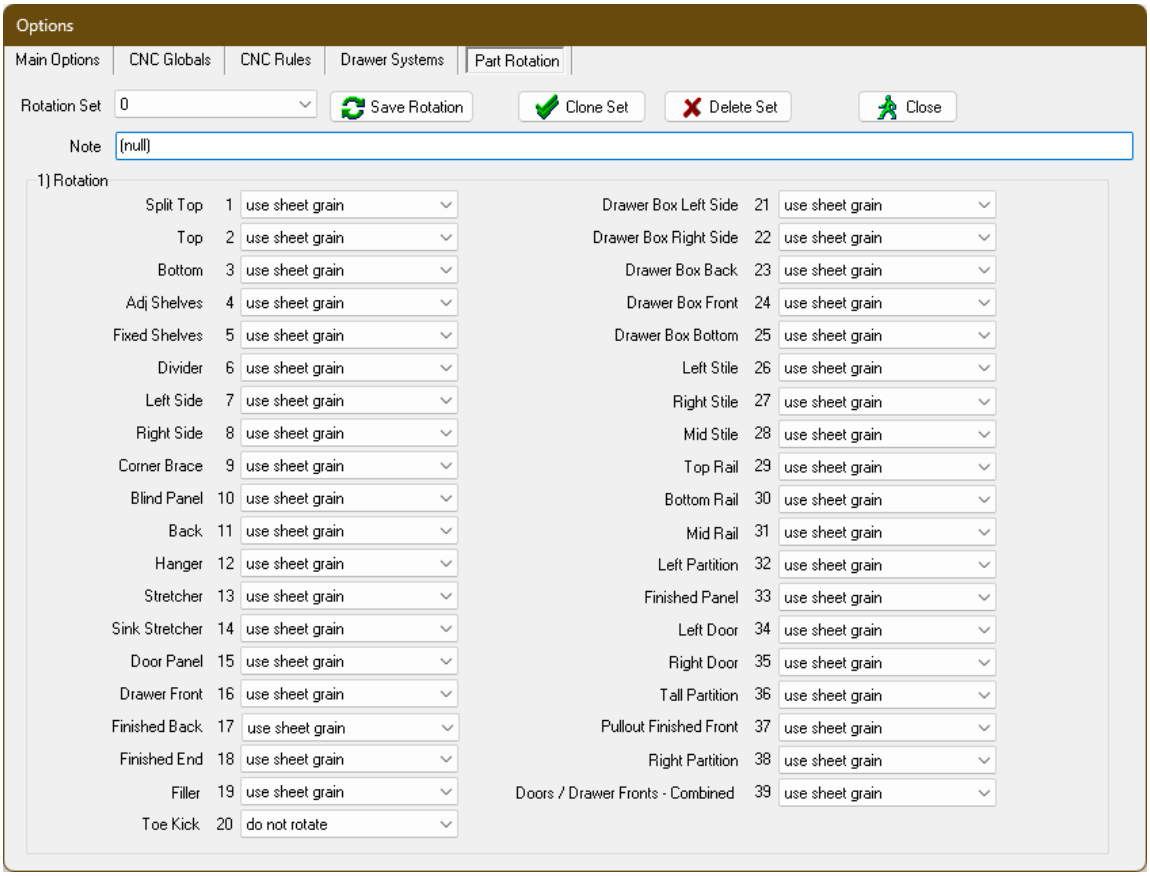


The shelf support holes are in green. The hinge holes are in red. The construction holes are in blue.Here is an example of a 600mm X 768mm lower side panel with a 160mm drawer again using some of the above construction options on the DXF Options page.



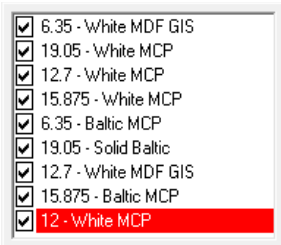
Part Rotation Tab

These settings are used to determine rotation by part by category during import.

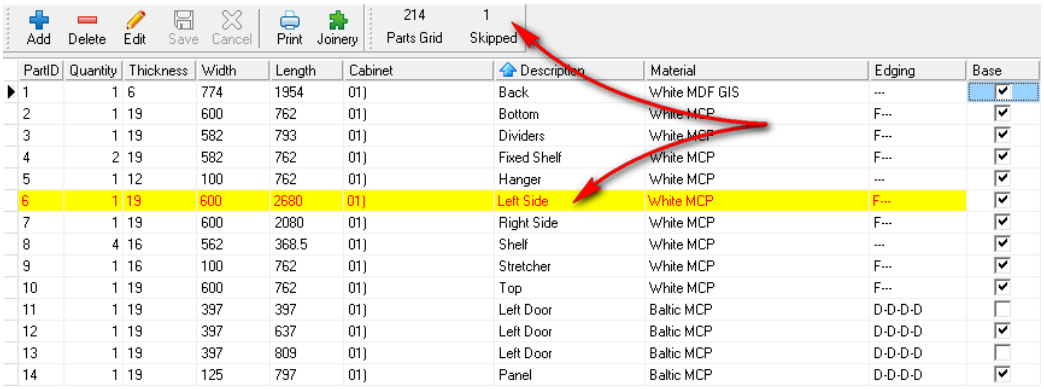


12 Skipped Parts

If parts are larger than the available material then you will have skipped parts. These are identified in a number of ways. The Material List will alert you that there are skipped parts by highlighting the Material in red.

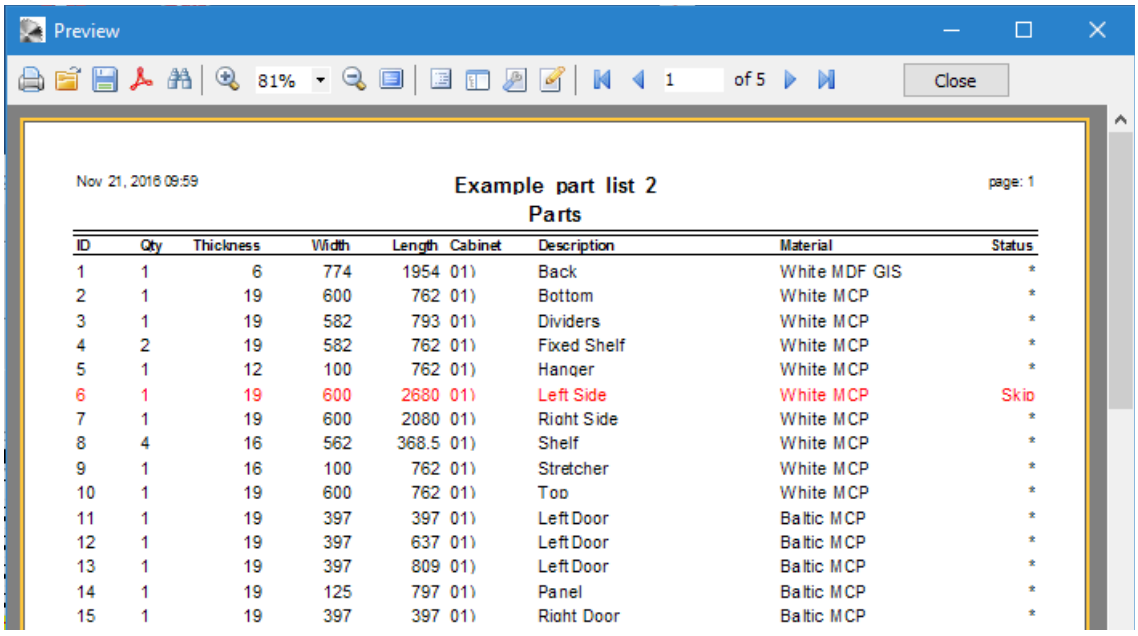


The Parts Grid also alters the color for skipped parts and displays a count for the number of skipped parts



PartID	Quantity	Thickness	Width	Length	Cabinet	Description	Material	Edging	Base
1	1	6	774	1954	01)	Back	White MDF GIS	---	☑
2	1	19	600	762	01)	Bottom	White MCP	F---	☑
3	1	19	582	793	01)	Dividers	White MCP	F---	☑
4	2	19	582	762	01)	Fixed Shelf	White MCP	F---	☑
5	1	12	100	762	01)	Hanger	White MCP	---	☑
6	1	19	600	2680	01)	Left Side	White MCP	F---	☑
7	1	19	600	2080	01)	Right Side	White MCP	F---	☑
8	4	16	562	368.5	01)	Shelf	White MCP	---	☑
9	1	16	100	762	01)	Stretcher	White MCP	F---	☑
10	1	19	600	762	01)	Top	White MCP	F---	☑
11	1	19	397	397	01)	Left Door	Baltic MCP	D-D-D-D	☐
12	1	19	397	637	01)	Left Door	Baltic MCP	D-D-D-D	☑
13	1	19	397	809	01)	Left Door	Baltic MCP	D-D-D-D	☐
14	1	19	125	797	01)	Panel	Baltic MCP	D-D-D-D	☑

And Finally the Parts Listing report will also identify that there are skipped parts.



ID	Qty	Thickness	Width	Length	Cabinet	Description	Material	Status
1	1	6	774	1954	01)	Back	White MDF GIS	*
2	1	19	600	762	01)	Bottom	White MCP	*
3	1	19	582	793	01)	Dividers	White MCP	*
4	2	19	582	762	01)	Fixed Shelf	White MCP	*
5	1	12	100	762	01)	Hanger	White MCP	*
6	1	19	600	2680	01)	Left Side	White MCP	Skip
7	1	19	600	2080	01)	Right Side	White MCP	*
8	4	16	562	368.5	01)	Shelf	White MCP	*
9	1	16	100	762	01)	Stretcher	White MCP	*
10	1	19	600	762	01)	Top	White MCP	*
11	1	19	397	397	01)	Left Door	Baltic MCP	*
12	1	19	397	637	01)	Left Door	Baltic MCP	*
13	1	19	397	809	01)	Left Door	Baltic MCP	*
14	1	19	125	797	01)	Panel	Baltic MCP	*
15	1	19	397	397	01)	Right Door	Baltic MCP	*

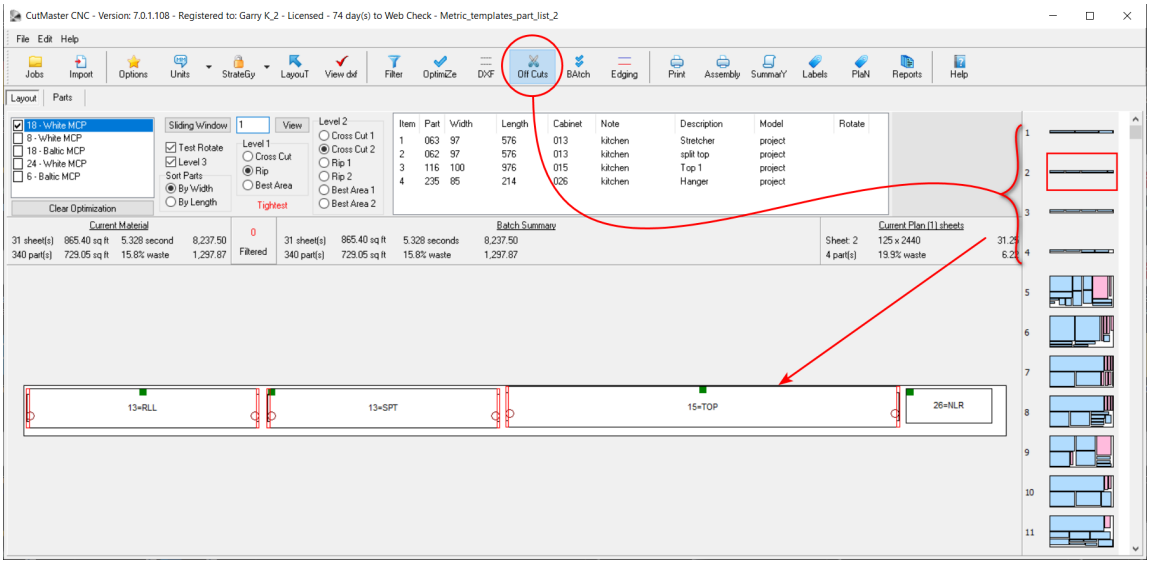
Either edit the part's Width and or Length or Edit the Materials Width and or Length and then re optimize.

13 Manual Optimization

Try experimenting with manual optimization. In some cases you may prefer the results. Here is an example of Manual Optimization where we are interested in Best usage.

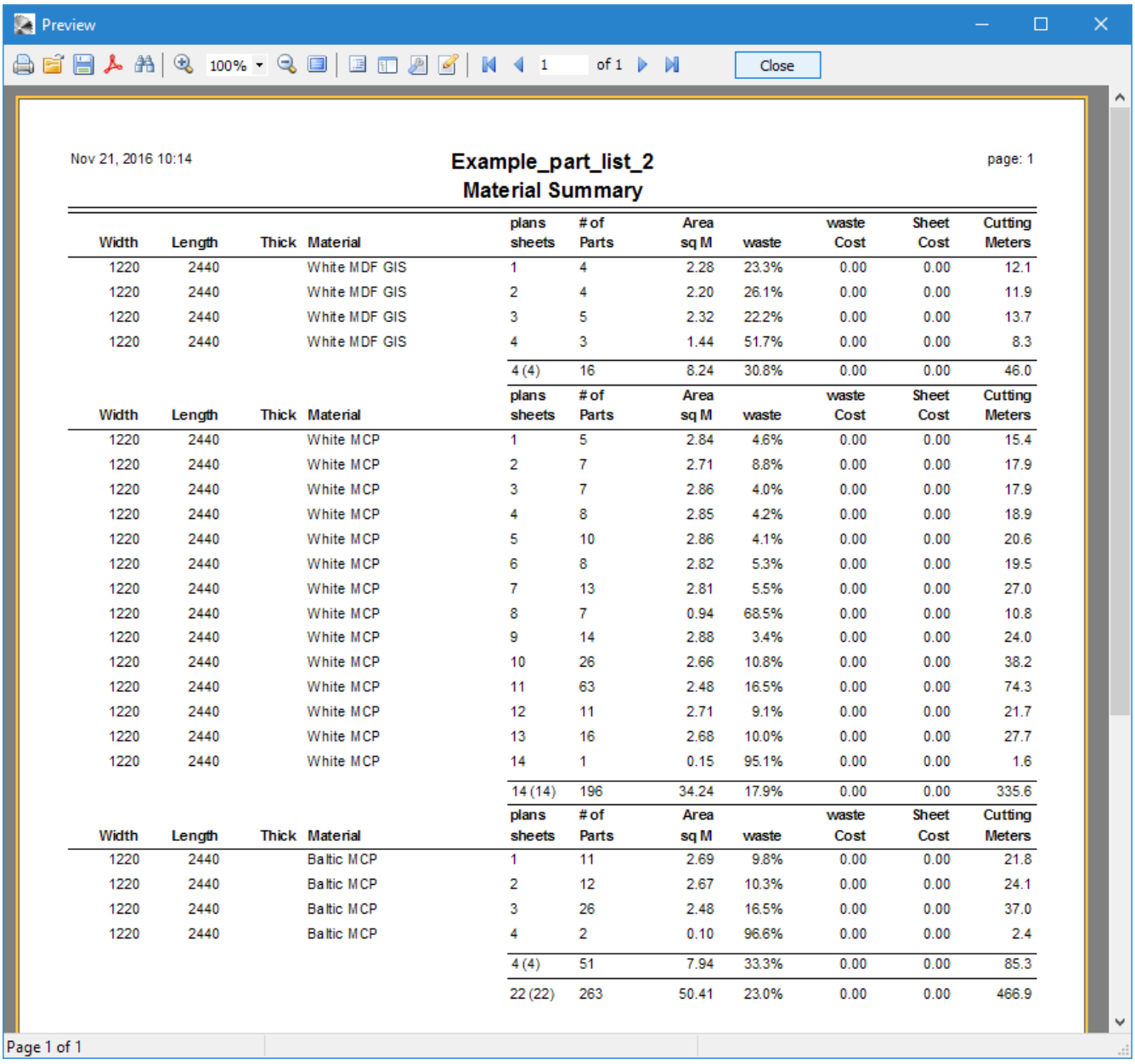
The options are enabled when you choose “Manual” from the “Strategy” drop down list. In this example the user had a 210 mm wide off cut. Click “Off Cuts” and CutMaster will make use of your inventory of off cuts.

You can see that the majority of sheets have parts placed using a rip strategy. Do notice that the Level1 setting is also set to Best Area.



14 Summary Report

The Summary report has 1 line per sheet and includes statistics and costing information. There is a summary line for each material type and a grand summary for the entire report.



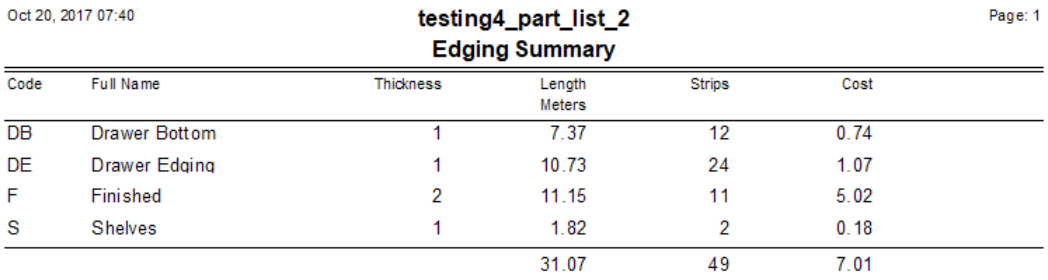
Width	Length	Thick	Material	plans sheets	# of Parts	Area sq M	waste	waste Cost	Sheet Cost	Cutting Meters
1220	2440		White MDF GIS	1	4	2.28	23.3%	0.00	0.00	12.1
1220	2440		White MDF GIS	2	4	2.20	26.1%	0.00	0.00	11.9
1220	2440		White MDF GIS	3	5	2.32	22.2%	0.00	0.00	13.7
1220	2440		White MDF GIS	4	3	1.44	51.7%	0.00	0.00	8.3
				4 (4)	16	8.24	30.8%	0.00	0.00	46.0

Width	Length	Thick	Material	plans sheets	# of Parts	Area sq M	waste	waste Cost	Sheet Cost	Cutting Meters
1220	2440		White MCP	1	5	2.84	4.6%	0.00	0.00	15.4
1220	2440		White MCP	2	7	2.71	8.8%	0.00	0.00	17.9
1220	2440		White MCP	3	7	2.86	4.0%	0.00	0.00	17.9
1220	2440		White MCP	4	8	2.85	4.2%	0.00	0.00	18.9
1220	2440		White MCP	5	10	2.86	4.1%	0.00	0.00	20.6
1220	2440		White MCP	6	8	2.82	5.3%	0.00	0.00	19.5
1220	2440		White MCP	7	13	2.81	5.5%	0.00	0.00	27.0
1220	2440		White MCP	8	7	0.94	68.5%	0.00	0.00	10.8
1220	2440		White MCP	9	14	2.88	3.4%	0.00	0.00	24.0
1220	2440		White MCP	10	26	2.66	10.8%	0.00	0.00	38.2
1220	2440		White MCP	11	63	2.48	16.5%	0.00	0.00	74.3
1220	2440		White MCP	12	11	2.71	9.1%	0.00	0.00	21.7
1220	2440		White MCP	13	16	2.68	10.0%	0.00	0.00	27.7
1220	2440		White MCP	14	1	0.15	95.1%	0.00	0.00	1.6
				14 (14)	196	34.24	17.9%	0.00	0.00	335.6

Width	Length	Thick	Material	plans sheets	# of Parts	Area sq M	waste	waste Cost	Sheet Cost	Cutting Meters
1220	2440		Baltic MCP	1	11	2.69	9.8%	0.00	0.00	21.8
1220	2440		Baltic MCP	2	12	2.67	10.3%	0.00	0.00	24.1
1220	2440		Baltic MCP	3	26	2.48	16.5%	0.00	0.00	37.0
1220	2440		Baltic MCP	4	2	0.10	96.6%	0.00	0.00	2.4
				4 (4)	51	7.94	33.3%	0.00	0.00	85.3
				22 (22)	263	50.41	23.0%	0.00	0.00	466.9

15 Edge Banding Report

The Edge banding reports displays the required edging for the optimized parts. This report runs immediately following the Summary Report.



Oct 20, 2017 07:40 — testing4_part_list_2 — Page: 1

Edging Summary

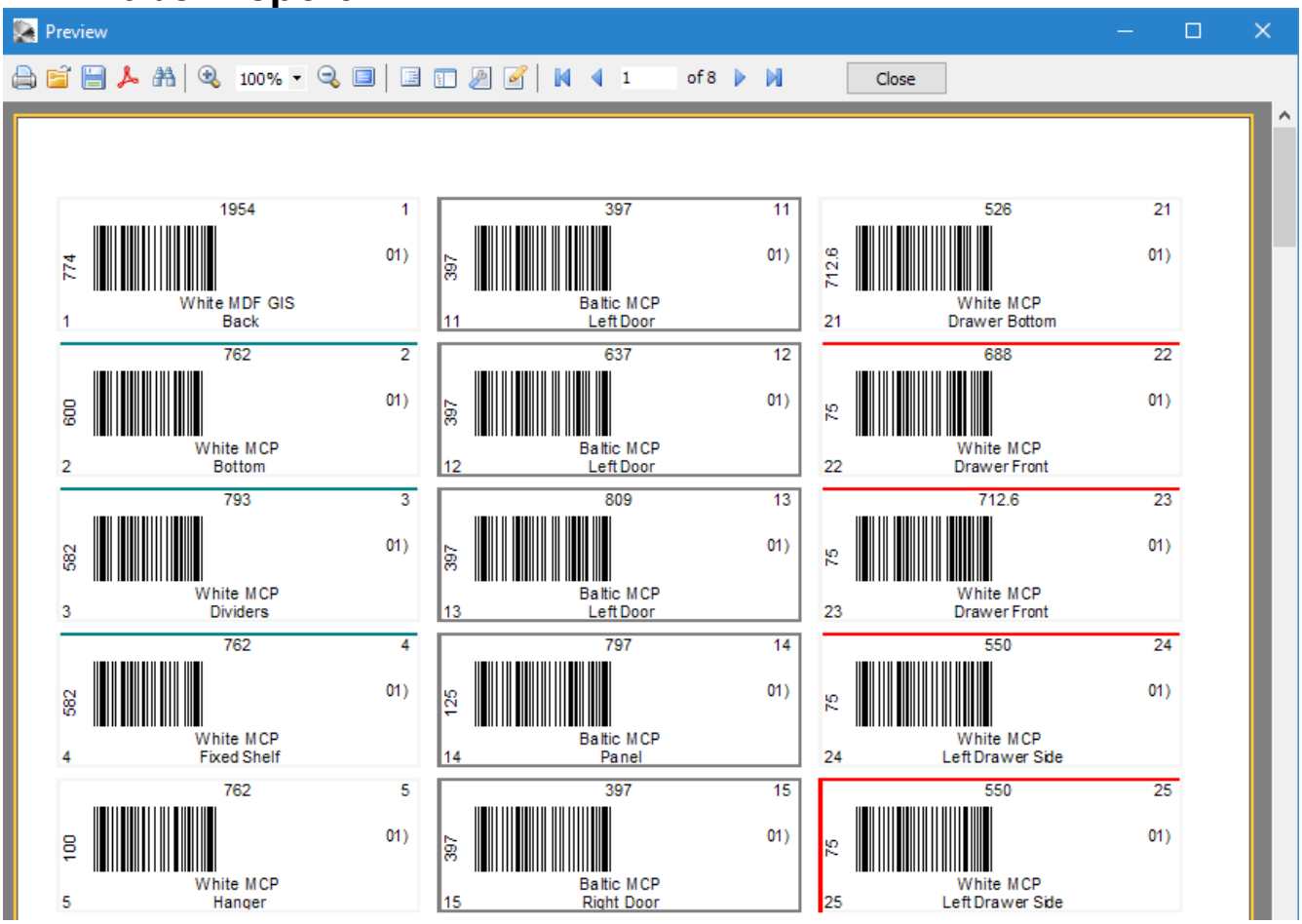
Code	Full Name	Thickness	Length Meters	Strips	Cost
DB	Drawer Bottom	1	7.37	12	0.74
DE	Drawer Edging	1	10.73	24	1.07
F	Finished	2	11.15	11	5.02
S	Shelves	1	1.82	2	0.18
			31.07	49	7.01

16 Labels

CutMaster now prints 2 5/8” x 1” Part Labels complete with bar codes.

1. PartID
2. Width of Part
3. Length of Part
4. Layout Page # and Layout Item
5. Bar Code – 93
6. Thickness and Material
7. Part Description
8. Cabinet Name
9. Colored line represents edging type

17 Label Report



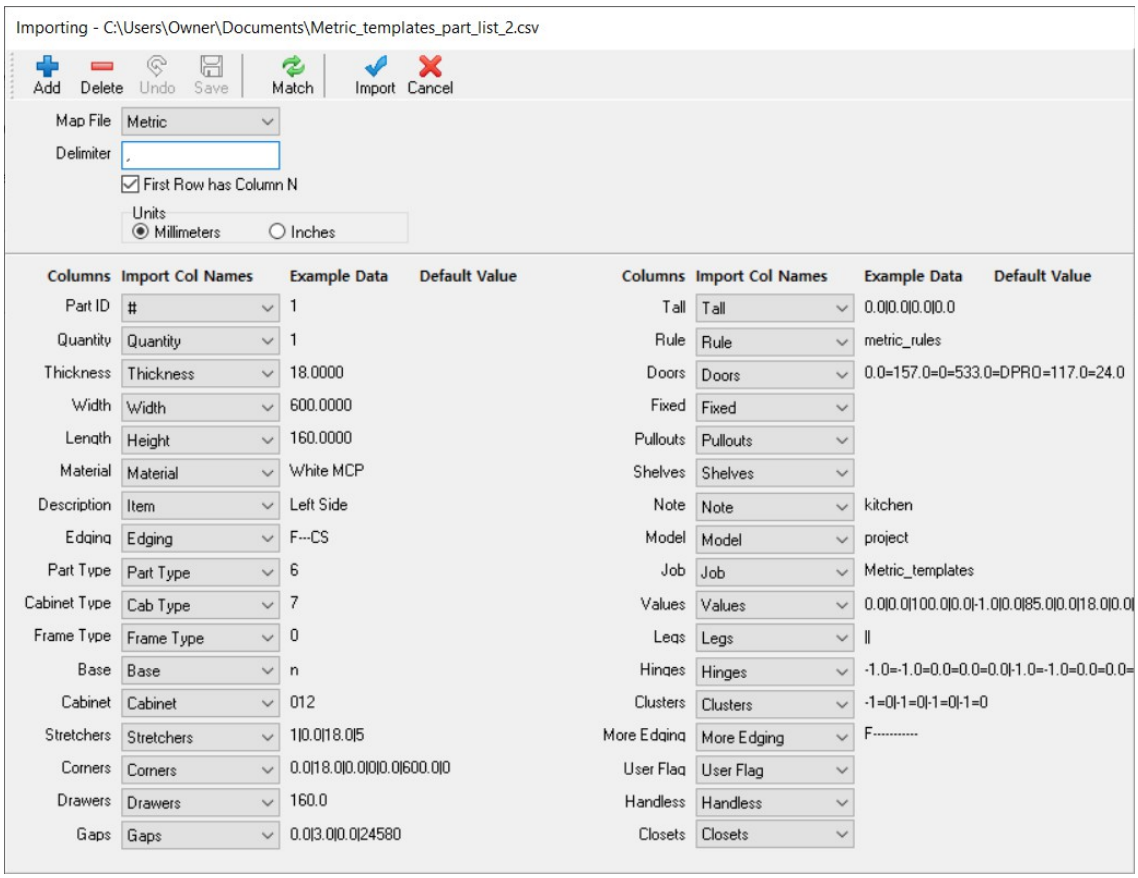
Avery 06498 are removable labels. These labels are 30 per sheet and are removable. The labels print in metric or inches. The width and length are to the left and above the bar code. The top right hand corner has the page number and item number which correlates with the sheet report. This make it easy to determine which label belongs to which sheet.

The bottom left hand corner contains the PartID which is the same as the bar code. The bar code will make it easy to get the correct DXF file.

Please note that the colored lines represents a part with 1 or more edging.

18 Import CSV File

The Current version looks for a number if the second column as the first column can be anything you want. If it finds a number then it uses the first row as data otherwise it skips the first row assuming that it contains names for the columns. Please note that only the first 7 columns are required. We will be adding additional import columns as required by the DXF files.



Add Button

Click Add button to save the current configuration as a new import configuration.

Delete Button

Click the Delete button to delete the current import configuration.

Undo Button

The Undo button will enable when you have made changes to the current configuration. Click the button to undo changes.

Save Button

The Undo button will enable when you have made changes to the current configuration. Click the button to save changes to the current configuration.

Match Button
The Match button tries to match up the column header names with standard names that CutMaster uses.

Import Button
The Import button starts the import process using the current configuration and changes the Import Column Map (Options Form) to the currently selected configuration.

Cancel Button
The cancel button aborts the import.

Import Name
The Import Name is the currently selected Import configuration.

First Row has Column Names
Check this if you know that the CSV file has column names in the first row. When CutMaster is used with Cabmaker32 all the names map out. When you use CutMaster with other cabinet making software you can create your own import specifications and map out the columns yourself.

Please note that you can do this regardless of whether the CSV file has column names or not. It is just easier if there are column names.

Units
Choose Auto Detect, Millimeters or Inches. The Auto Detect is the recommended setting if you are using this with Cabmaker32. It looks for a double quote “ which represents inches.

1 PartID
The PartID is a unique identifier that comes from Cabmaker32 or from some other system. It is used on reports and on the layout sheets.

2 Quantity
If you set this to <Ignore> you can set the default value to 1. CutMaster uses the default value for quantity. This works well when you have a file of individual parts to make 1 assembly and you want to build X number of assemblies.

3 Thickness
Although this is a required column you could set to <Ignore> and set the default value to the actual thickness of the material. This is useful if the Cabinet software does not provide thickness as a separate column.

4 Width
CutMaster currently works with Millimeters or inches. This is a required column.

5 Length
CutMaster currently works with Millimeters or inches. This is a required column.

6 Material
This is a required column. CutMaster uses this column to map the parts to the correct Sheet.

If the Sheet does not exist and “Auto Add Sheets” is checked in the Option Form then CutMaster will create a new sheet using “Material” and Thickness.

7 Description

Description is used in the parts report and the layout report.

8 Edging

Edging is a hyphen delimited list of edging short codes starting with the most import edge. For a Side panel the first edge is the front edge. The second edge is the opposite or back edge. Then comes the Top Edge and finally the Bottom Edge.

9 Part Type

The Part Type is used by CutMaster for joinery and dxf files.

0 Top Split Shelf

1 Top Shelf

2 Bottom Shelf

3 Middle Shelves

4 Fixed Shelf

5 Divider

6 Left Side

7 Right Side

8 Corner Brace

9 Blind Panel

10 Cabinet Back

11 Cabinet Hanger

12 Stretcher

13 Sink Stretcher

14 Door Panel

15 Drawer Front

16 Finished Back

17 Finished End

18 Filler

19 Toe Kick

20 Drawer Left Side

21 Drawer Right Side

22 Drawer Back

23 Drawer Front

24 Drawer Bottom

25 Left Stile

26 Right Stile

27 Mid Stile

28 Top Rail

29 Bottom Rail

30 Mid Rail

31 Partition

32 Finished Panel

33 Left Door

34 Right Door

35 Tall cabinets only

36 Pullout - Optional Front

37 Side by Side Partition

38 Combined Slab

10 Cabinet Type

The Cabinet Type is used by CutMaster for joinery and dxf files. There are 10 supported cabinet types. These are listed in the documentation for DxfConfig.

11 Frame Type

Currently Frameless Overlay is the only supported type for dxf files. There are 6 different Frame types

1. Frameless Overlay
2. Frameless Inset
3. Partial Overlay
4. Partial Inset
5. Full Overlay
6. Full Inset

12 Base

Base is used by CutMaster for joinery and dxf files. Bottom panels for side panels are adjusted for base cabinets using integrated kicks.

13 Cabinet

This is the description from cabmaker. By default CabMaker numbers the cabinets in the format of “01)”, “02)” etc. This strategy forces the sorting of the parts_list_2 csv file to be by cabinet. The Cabinet value is included with labels, the part list report, the cut plan report and the dxf plan report.

14 Stretchers

Stretchers is used by CutMaster for joinery and dxf files. The Stretchers section has 4 values separated by the “|” pipe symbol. The first value can be positive or negative and is the height adjustment for the actual placement of the Stretcher. Then second value is the width of the stretcher and the third value is the thickness of the stretcher. Stretchers are centered behind doors and drawers by default. The fourth value is a flag used internally.

15 Corners

Corners is used by CutMaster for joinery and dxf files. The Corners section has 4 values separated by the “|” pipe symbol. The first value is the amount the Top's and Bottom's are dadoed into the Side Panels (often 0). If you used Blind dado's then set this value in CabMaker to the depth of the blind dado. The second value is the width of the back brace (if used) and can be different for base cabinets and upper cabinets. The third value is the Depth of the Cabinet. The fourth value which is the Depth of the right side.

16 Drawers

Drawer information is used by CutMaster for joinery and dxf files. The drawer section has up to 6 values separated by the “|” pipe symbol. These are the values that you set in CabMaker for each of the spacing for drawers. This section is needed for proper joinery for Side Panels, Back Braces and special Panels such as for Blind Cabinets.

17 Gaps

Gaps is used by CutMaster for joinery and dxf files. The Gaps section has 3 values separated by the “|” pipe symbol. The first value is the Top Gap, the second value is the Gap and the third value is the Bottom Gap.

18 Tall

The side panels for tall cabinets need additional information so as to properly place additional fixed shelves. Tall is used by CutMaster for joinery and dxf files. The Tall section has 3 values separated by the “|” pipe symbol. The first value is the available room for the Top section. The second value is the available room for the middle section. The third value is optional and used for double ovens. It is the placement of the extra fixed shelf used to support the top oven.

19 Rule

The Rule is the CabMaker rule used for each specific part. CutMaster supports multiple rules. If the Rule is not setup in CutMaster then CutMaster will use the default rule.

20 Doors

The doors section contains one row for each Door / Drawer Front. The first column is the starting distance from the bottom of the panel to the bottom of the Door / Drawer Front. The second column contains the actual height of the Door / Drawer Front. The third column contains one of the following:

0 – Drawer

1 – Pair of Doors – right and left hinges

2 – Opening – no door or drawer

3 – Hinge Top

4 – Hinge Bottom

5 – Pullout

6 – Hinge Left

7 – Hinge Right

The fourth column is the depth of the drawer box.

21 Fixed Shelves

The Fixed Shelves section contains one entry for up to four fixed shelves. Any entry with a value greater than 0 represents a fixed shelf. It is the distance from the bottom of the Bottom to the bottom of the fixed shelf.

22 Pullouts

The Pullouts section contains one pullout for each row. The First column is the distance from the bottom of the Bottom to the bottom of the pullout. The second column is the height of the pullout and the third column is the depth of the pullout box.

23 Shelves

The Adj Shelves section contains one entry for up to four adjustable shelves. Any entry with a value greater than 0 represents an adjustable shelf. It is the distance from the bottom of the Bottom to the bottom of the adjustable shelf. This value is used to determine the middle hole when using clustered shelf supports.

24 Note

The Note is the CabMaker Note which is normally used to contain the cabinet room number

25 Model

The Model column is the CabMaker Model which is often the cabinet template name.

26 Job

The Job Name is the Sketchup file name without the .skp

27 Values

The Values section contains internal extended cabinet information and is used by CutMaster to fine tune various parts.

28 Legs

29 Hinges

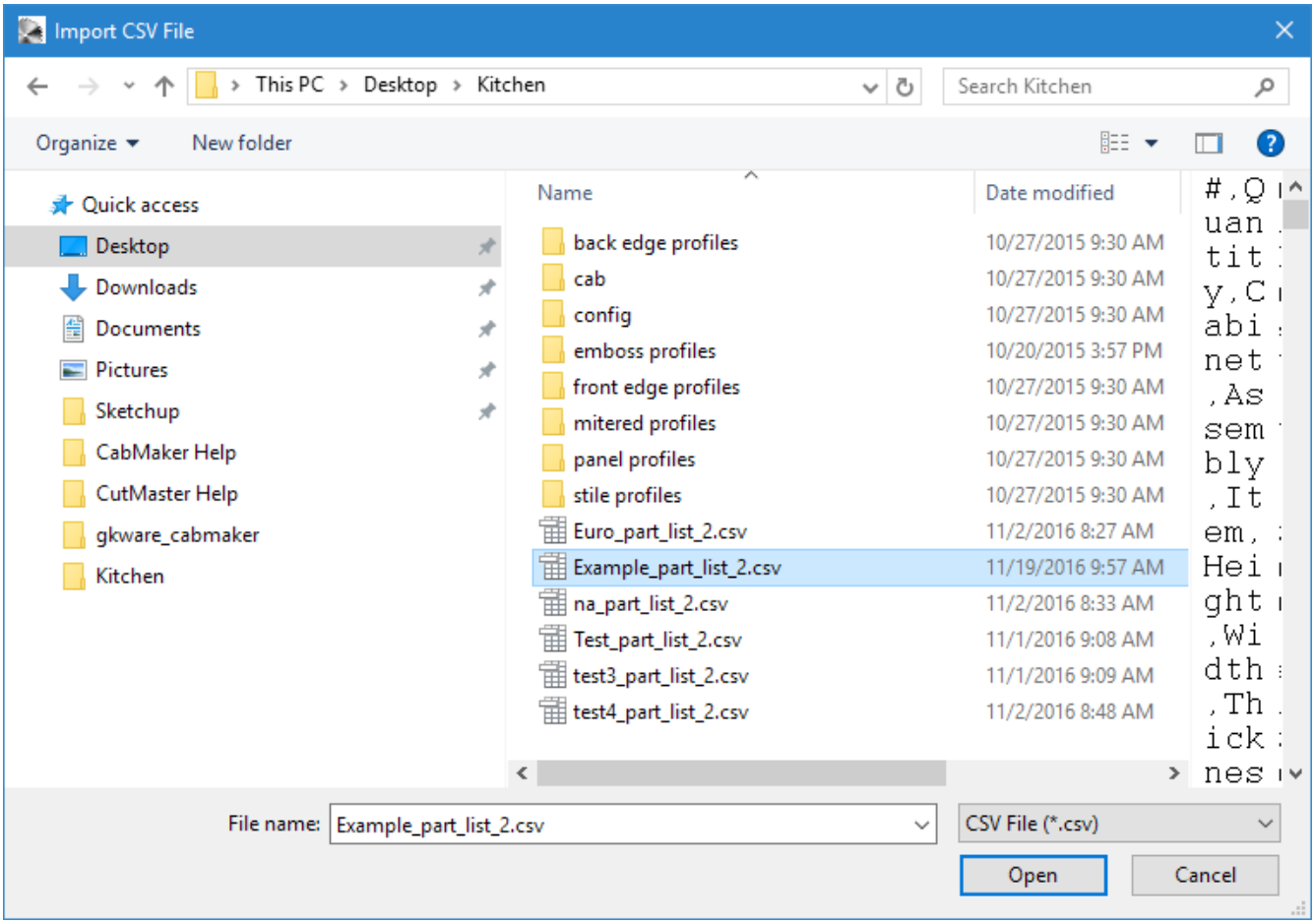
30 Clusters

31 More Edging

32 User Flag

19 Import Selection

The Import CSV File Dialogue box appears when you click the Import button.



Example 1 - CSV File - millimeters

#	Quantity	Cabinet	Assembly	Item	Height	Width	Thickness	Material	Material Type	Edging	Part Type	Frame Type	Base	Cab Type	Drawers	Stretchers	Corners	Gaps	Tall	Rule
1	1	01)	Cabinet	Back	1954	774	6	White MDF GIS	Sheet Good	---	10	0	y	7	|||||	||	||	||	||	metric_rules
2	1	01)	Cabinet	Bottom	762	600	19	White MCP	Sheet Good	F---	2	0	y	7	|||||	||	||	||	||	metric_rules
3	1	01)	Cabinet	Dividers	793	582	19	White MCP	Sheet Good	F---	5	0	y	7	|||||	||	||	||	||	metric_rules
4	2	01)	Cabinet	Fixed Shelf	762	582	19	White MCP	Sheet Good	F---	4	0	y	7	|||||	||	||	||	||	metric_rules
5	1	01)	Cabinet	Hanger	762	100	12	White MCP	Sheet Good	---	11	0	y	7	|||||	||	||	||	||	metric_rules
6	1	01)	Cabinet	Left Side	2080	600	19	White MCP	Sheet Good	F---	6	0	y	7	128.0	1|0.0|16.0	||	0.0|3.0|0.0	373.0|793.0|600.0	metric_rules
7	1	01)	Cabinet	Right Side	2080	600	19	White MCP	Sheet Good	F---	7	0	y	7	128.0	1|0.0|16.0	||	0.0|3.0|0.0	373.0|793.0|600.0	metric_rules
189	1	12)	Cabinet	Back	742	525.1594	6	White MDF GIS	Sheet Good	---	10	0	n	3	|||||	||	||	||	||	metric_rules
190	1	12)	Cabinet	Back	742	625.1594	6	White MDF GIS	Sheet Good	---	10	0	n	3	|||||	||	||	||	||	metric_rules
191	1	12)	Cabinet	Bottom	581	681	19	White MCP	Sheet Good	F---	2	0	n	3	|||||	||	0.0|100.0|300.0	||	||	metric_rules
192	1	12)	Cabinet	Corner Brace	730	100	19	White MCP	Sheet Good	---	8	0	n	3	|||||	||	||	||	||	metric_rules

Example 2 - CSV File – decimal inches

#	Quantity	Cabinet	Assembly	Item	Height	Width	Thickness	Material	Material Type	Edging	Part Type	Frame Type	Base	Cab Type	Drawers	Stretchers	Corners	Gaps	Tall	Rule
1	1	01)	Cabinet	Back	81.0	24.0	0.25	White MDF GIS	Sheet Good	---	10	0	y	7	|||||	||	||	||	||	default
2	1	01)	Cabinet	Bottom	30.5	23.5	0.75	White MCP	Sheet Good	F---	2	0	y	7	|||||	||	||	||	||	default
3	1	01)	Cabinet	Dividers	793	22.75	0.75	White MCP	Sheet Good	F---	5	0	y	7	|||||	||	||	||	||	default
4	2	01)	Cabinet	Fixed Shelf	30.5	22.75	0.75	White MCP	Sheet Good	F---	4	0	y	7	|||||	||	||	||	||	default
5	1	01)	Cabinet	Hanger	30.5	4.0	0.5	White MCP	Sheet Good	---	11	0	y	7	|||||	||	||	||	||	default
6	1	01)	Cabinet	Left Side	82.0	23.5	0.75	White MCP	Sheet Good	F---	6	0	y	7	5.0	0.0|0.0|0.75	||	0.0|3.0|0.0	15.5|32.0|24.0	default
7	1	01)	Cabinet	Right Side	82.0	23.5	0.75	White MCP	Sheet Good	F---	7	0	y	7	5.0	0.0|0.0|0.75	||	0.0|3.0|0.0	15.5|32.0|24.0	default
189	1	12)	Cabinet	Back	31.0	20.625	0.25	White MDF GIS	Sheet Good	---	10	0	n	3	|||||	||	||	||	||	default
190	1	12)	Cabinet	Back	31.0	24.625	0.25	White MDF GIS	Sheet Good	---	10	0	n	3	|||||	||	||	||	||	default
191	1	12)	Cabinet	Bottom	22.75	26.75	0.75	White MCP	Sheet Good	F---	2	0	n	3	|||||	||	0.0|4.0|11.5	||	||	default
192	1	12)	Cabinet	Corner Brace	30.5	4.0	0.75	White MCP	Sheet Good	---	8	0	n	3	|||||	||	||	||	||	default

Notice the first 2 parts for example 2 have '---' for edging. This means those parts do not get edged.

20 Version History

Version 10.0.1.138 , 2025

1. You can now Rename a Project – F2 Key works. You can also Merge 2 projects into 1.
2. Modified Job form to show group 1 and group 2 switch totals. You can quickly update the switches by holding down the Alt Key and left click the mouse on Group 1 or Group 2 cell. Copies the default values over to the current record. Plus version only.
3. Added second group of Dxf switches in Dxf Configuration area. As an example you can create 3D Dxf one Dxf per part on the first group and create 2D Nesting on the second group.
4. The config.ini has an optional entry named DatabaseName=cutmaster?.db where ? can be a different database such as a backup.
   You can use the escape key or X button and cause cutmaster.db to load without updating the ini file.
5. Rule Set and Drawer System dropdowns are now in Bold Blue to more easily show you which Rule / Drawer you are on.
6. Vertical and Horizontal Dividers have drilling for dowels or screws for Tops, Bottoms and Sides.
7. Added a new Global Layer for Divider shelf supports.
8. Horizontal shelves can now be “Fixed”, “Adjustable” or “Interlocked”.
9. Added Pocket Screw section for captured backs (top and bottom). Honors Slide in and or extend back.
10. Added Balanced Shotgun for Shelf Supports.
11. The Hanging bracket section can now be configured for French Cleats.
12. CabMaker sending more info over to cutmaster for sides, tops, bottoms and backs etc.
13. Return cabinets now have a split top / bottom option making the corner cabinet into a 2 cabinet corner.
14. Added more hinge options for Return Cabinets. Supports 2 doors hinged and 1 door hinged.
15. Base Cabinet door drilling for hinge positions was using Upper Cabinet drilling positions. Fixed.
16. Alt Left Click now copies Edging to another part.
17. When you choose project material automatically putting the panel count X panel height into the paste buffer. You can now paste into vcarve for use with tiling. mm works best.
18. Enter Key now enabled on Open Job. Calls Optimize.
19. Increased the width of the Rule and Drawer drop down controls.
20. Added Outside Angle cabinet style. Works with mortise and tenon, rafix and minifix.
21. Assembly report would give an exception from time to time. Fixed it by modifying the

sql switched from Count() to Total().

22. Imperial CNC Labels weren't forming the Cabinet Numbers properly. Fixed.
23. Loosing Switches configuration from time to time. Added new Global table.

Version 9.0.1.136 Oct 25, 2024

1. Some legs use skids with 4 press in fittings. Now supported.

Version 9.0.1.135 Sep 20, 2024

1. Now handling Blind Panel offset and Blind Panel Wider than. Fixed.

Version 9.0.1.134 Sep 08, 2024

1. Blind cabinets were not handling hinge drilling and shelf supports properly. Fixed.

Version 9.0.1.133 Sep 05, 2024

1. DXF's were set at UTF-7 Encoding. Fixed.

Version 9.0.1.132 Aug 15, 2024

1. You can now turn off plant on back Top or Bottom pilot holes.
2. Assembly report now available in imperial units (inches).

Version 9.0.1.131 Mar 15, 2024

1. Added JobName for Assembly Reports.
2. All reports now have Preview turned on.
3. Batch reports had index out of bounds error if main report was chosen. Fixed.
4. Temporarily Disables Optimize On Open during Clear All.
5. Hide Thumbnails during Clear All.
6. Fixed Section 4) for Front and Back in Drawers Options.
7. Layout is now stored per Material Instance along with plan parameters.
8. Now storing Layout in Plan table. Now have a default Layout for nest per material.
9. Now have a default Layout for printing (separate from dxf nest).
10. Material list now has a Plan indicator (small rose colored box next to check mark)
11. Materials now looking up strategies when clicked (check mark turns on)
12. Added Delete Plan for current material.
13. Added Import / Export of Rules.
14. Materials occasionally finds the wrong material because of a partial locate. Fixed.
15. Single slab for drawer fronts and doors – sizes come across as description so you can cut the parts out of the single sheet.
16. Added configuration parameters for slabs.

17. Cabinet Labels and Assembly Cabinets have better graphics.
18. Added Door / No Door Choice when running Cabinet Labels.
19. Modified JobName for Cabinet Labels. Removed '_Part_List_2' from the end of the name.
20. Added Filter by Part Type. You can now user Saved Names for Filter by Part Type.

Version 8.0.1.129 Dec 28, 2023

1. Updated documentation.

Version 8.0.1.128 Dec 10, 2023

1. Added material thickness to material pick form.
2. Added new optional form when adding a part manually.
3. Added Option column for parts grid. You can now update checked parts when changing materials or changing grain rotation.
4. Added Check button for parts grid. Check Button toggles between select ALL and unselect ALL. Alt button click selects only materials that match.
5. Delete key now honors check boxes.
6. You can now update checked parts with Rotation or material by updating one record.
7. Mouse wheel was moving between records in Parts Grid when various editors were showing. Fixed.
8. Cutmaster was not honoring horizontal grain on backs. Fixed.
9. Drawer Fronts with vertical grain not drilling connection holes for metabox etc. Fixed.
10. Cutmaster not handling pilot holes through tops / bottoms into hanger correctly. Fixed.
11. If part wouldn't fit on sheet but could fit if rotated it was still marked as not fitting. Now honors Must Rotate and Can Rotate.
12. Escape key deselects current part on Sheet Layout. You then had to choose a different part before choosing the same part again. Fixed.
13. Left mouse down now acts like a toggle when choosing part on a sheet.
14. In Dxf View the part layer is now rendered before geometry. Looks clearner.
15. Got rid of hatch for selected parts in Dxf View and Plan View.
16. Dxf View now has transparent labels. The background is same color as the part layer.
17. Under various condtions parts that do not fit on material were not showing up in red. Fixed.
18. Sometimes deleting the wrong sheet. Fixed.

Version 8.0.1.127 Nov 20, 2023

1. Added 2 items to Joinery form - Hanger width bottom and Back has Horizontal grain.

2. Added Double Click when picking jobs which works the same as clicking Select.
3. Current Job now appears above materials in Layout tab
4. Added Color for selected part in Global settings for CNC.
5. Added Color for selected part when in Plan view.

Version 8.0.1.125 Oct 16, 2023

1. Radiused Corners did not handle the last corner properly. Fixed.

Version 8.0.1.122 Jul 21, 2023

1. Added an optional feature for mortise and tenons. Fixed Shelves, Bottoms and Full tops may have a third rafix connector or pilot hole in a gap. This extends to horizontal rails.

Version 8.0.1.121 Jul 16, 2023

1. Added Split Overlay as a construction method.
2. Dropped Fixed Shelf Offset – now passing information over from CabMaker.
3. Added Spacing List Full and Spacing List Split for Overlay construction.
4. Fixed bug when initializing part variables.

Version 8.0.1.119 Jun 12, 2023

1. Change from WMI to Registry to get the UUID for security.
2. Fixed issue in CutMaster where Drawer Layer Names were not always saving correctly.
3. Modified drawer fronts in CutMaster Options.
4. Cleaned up Job form. No longer reloading job when you choose "Close".
5. Added global button in cutmaster options to restore Dxf Switches from Project.
6. Added ini file choice to run Dxf Create twice with a second Dxf Switches stored and the Job level.
7. Modified DXF Export housekeeping when using group 2.
8. Added new security strategy to get around gigabyte motherboards when OEM didn't set up a machine ID.
9. Slide holes were missing in partition for side by side drawers. Fixed
10. Clear Selected in Cutmaster was not properly updating the rest of the UI – Fixed.
11. CutMaster Removed Help button and Added Save Button (Strategies).
12. Modified Assembly report. Added a small dialog box before running the report which allows you to reduce number of report sections.
13. Added a small dialog box before the Sheet report allowing you to adjust the origin in the layout.

14. Added Cabinet Labels report.
15. Support for Concave shelves for angled cabinets including Dxf bulge.
16. Added material choices when printing main cut plan report.
17. The main layout wasn't updating after optimize when Select First Thumbnail was set to false - fixed.

Version 8.0.1.116 Apr 17, 2023

1. Fixed Door count in Assembly report.
2. On Joinery tab - 2) Front / Back Tenon Cut Setting the Overruns to 0 disabled the other parameters – fixed.
3. Escape key now clearing selected parts in CutMaster.
4. Alt-C now cloning current record in CutMaster.
5. Added count on Layout tab for Parts Grid in CutMaster.
6. Added radius for all inside cuts (especially tenons) - from Bit Diameter.
7. Cleaned up code for 72 arcs in CutMaster.
8. Added Refresh() command to materials click - drawer part no longer missing undermount notch first time through.
9. Changed Hint duration from 5 seconds back to default 2.5 seconds.
10. Enable / Disable Clone button and Adjust Button Just Like the Print Button.
11. Filtered Labels now updating when you manually change the number of filtered records.
12. Fixed parts.csv file - length and width now are original sizes.
13. New Globals (most moved from config.ini) - Language, Font Name, Font Size, Show Note .

Version 8.0.1.112 Feb 27, 2023

1. Added Mortise and Tenon for backs with 0,1,2 or 3 rafix connectors per side.
2. Extended Fixed shelves to 24 for tall wine racks.
3. Modified Joinery form to include len, wid and ht etc.
4. Shift Left button now takes you to the correct rule or correct drawer system.
5. Reorganized Drawer System.
6. Added CSV custom export.
7. Now displaying Drawers or Pullouts in Parts grid.
8. Alt-Delete now deletes from data grids without confirmation.
9. Fixed optimizer bug where a part may get rotated when it shouldn't
10. Fixed Shelf support bug where shelf supports on backs no lining up with Sides.

11. Fixed cloning and saving empty text – no longer showing as (null)
12. Added Flatten 2D for Dxf Options.
13. Removed Try Rotation from Sliding Window area. It was redundant. Doubled the optimization speed for Tightest.
14. Modified Main Report – dropped PartID and added Short Code. Displays optimization settings.
15. Modified Labels – added Cabinet Number, PartID and Job when Barcode is turned off.
16. Added Custom Colors for Dxf View and Dxf Report.
17. Added Export and Import to Drawer Systems.
18. Enhanced Job Form – now a data grid.
19. Added note field for Jobs, Rules and Drawer Systems.
20. Added See More button for Drawer System (Sides, Front and Back).
21. Added Clear Selected button beside Clear Optimization.
22. Added Restore Plan button for optimizer settings. Restores Settings to last saved values.
23. Added Mortise & Tenon for Drawer Sides, Fronts and Backs.
24. Added Filter Button on Parts Grid. Toggles Show All parts and Show non filtered.
25. Modified Filter Form. Now filtering all but current selection.
26. Now automatically storing Dxf Switches at the Project level.

Version 7.0.1.111 Dec 18, 2022

1. Added Mortise and Tenon for backs with 0,1,2 or 3 rafix connectors per side.
2. Added 2 new values to miscellaneous in Joinery Form.
3. Added FontSize to config.ini. Default is 8 – works well up to 11.
4. Added hot keys which take you to Parts Tab, Joinery Form and or Configuration System.

Version 7.0.1.110 Dec 12, 2022

1. Major changes to Drawer Systems including Slide drilling per System instead of global.
2. Added new tables to support the change to Drawer Systems.
3. Reorganized Top Buttons to work better with work flow.

Version 7.0.1.108 Nov 18, 2022

1. Added Closet Rod drilling - Plus version only.
2. Added Filtering to CutMaster - Plus version only.
3. Organized CNC options
4. Added Short Code to parts.csv for DXF files. Now shows on Dxf View

5. Fixed Import form - easier to read.
6. Added Closet section and 3 new variables to Joinery form. Reorganized
7. Now supporting many small DXF batches - now 8 variations
8. You can now clone a part with 1 button press

Version 7.0.1.106 Oct 3, 2022

9. Added swap X amd Y for VCarve etc.
10. Simplifying licensing - no longer using mac address.
11. Now showing number of days until next web check.

Version 7.0.1.105 Jul 23, 2022

12. Added horizontal drilling for WoodHog.
13. Added commercial shelf standards.
14. Fixed Sink rail machining in sides for handless system.

Version 6.0.1.104 Oct 16, 2020

15. Added callback for drawer system options for Description. Cut and paste now works.
16. Modified Sink rail machining in sides for handless system.

Version 6.0.1.103 Aug 24, 2020

1. Added check in Pilot holes to avoid a divide by 0 error.

Version 6.0.1.102 Aug 7, 2020

1. Added Hardware summary report.
2. Added Hardware section to Assembly report.

Version 6.0.1.101 Jun 30, 2020

1. Fixed drawer bottoms for single line routing directionality.
2. Added pocket screws for drawer bottoms.
3. Added optional X / Y offsets for routed label positioning.

Version 6.0.1.99 Jun 19, 2020

1. Fixed Parts report when using fractions such as 16 29/64”. Had to increase the size of the Width and Length columns.
2. Fixed merged panels for DXF. The left panel of the right merged cabinet now goes into a folder named “BackFace”.
3. Modified Blind Mortise and Tenon for CNC. More control for handling tenon notches.

Version 6.0.1.98 Jun 7, 2020

1. Added Flip Tops, Flip Fixed and Flip Bottoms to General Options.

2. Removed “Drill From Bottom”
3. Completed Angled Ends for Blind Dado.
4. Added Single line tenon cuts instead of pockets.
5. Modified Leg positions for Return cabinets and Angled Ends.
6. Added pocket option for Construction holes and Dowels. This supports Festool Domino and Lamelo.

Version 6.0.1.97 May 11, 2020

1. Configuration settings now has checkboxes to turn on / off DXF sections.
2. You can now have any width of blind tenon (stop tenon).
3. You can now set full dado width to 0 to get single line instead of a pocket.
4. Bottoms, Tops, Stretchers, Fixed Shelves and rails can now have single line choice instead of pocket.
5. For Blind Dado's added 4 new parameters, Depth Adjustment, Up Down Adjustment, Tenon Width Adjustment and Reverse Bottoms.
6. Reverse bottoms is intended to be used with integrated kicks.
7. Added Pocket Length to Construction Holes to support Festool Domino and Lamello.
8. Added Start Line indicator for CNC view.

Version 6.0.1.96 Mar 31, 2020

1. Added Handless support.

Version 6.0.1.95 Feb 29, 2020

1. Kicks were not getting blind dado's. Fixed

Version 6.0.1.94 Feb 15, 2020

1. Angled Tops and Bottoms - no backs - Fixed
2. Import mapping modified in database
3. Cleaned up 4 tables in database - no more fixed length characters
4. Layout listing now adjusts sizing for extra room for small parts.
5. DXF Reports now use adjusted size but without parts padding.
6. Angled fixed shelves were not angled. Fixed.

Version 6.0.1.92 Jan 31, 2020

1. Added new Sliding report to CutMaster Plus version.
2. Now have ability to adjust room between small parts using area smaller than X.
3. Fixed hinge locations to honor what comes over from CabMaker.
4. Added note to Layout list and to Cabinet reports.

5. Blind cabinets no longer have hinge plate drilling on the hidden side.
6. Blind cabinets now have hinge drilling on the backside of the Blind Panel.
7. Blind panels now have shelf supports.

Version 4.0.1.91 Oct 14, 2019

1. Fixed Tall Cabinet shelf support holes.

Version 4.0.1.90 Sep 27, 2019

1. Added Sliding window for Cabinet number priority optimization.
2. Added Rotation control during import.
3. Added Rotation Drop Down for each part.
4. Added narrow part layer name modifier.
5. Fixed Tall cabinets - no longer drilling hinge holes twice.
6. Fixed Backs with notches for hanging brackets.
7. Added option to jump to first thumbnail after optimize.
8. Fixed Off cuts.

Version 4.0.1.88 Jun 23, 2019

1. Drawer layer names no longer can have spaces. Now converted to underscores.
2. Drawer layer names now show in applicable machining section.
3. Added machining section for drawer bottoms pocket screws.
4. Added comment / purpose for each machining section.

Version 3.0.1.87 Jun 11, 2019

1. Drawer slide drilling on sides got confused when skipping a drawer box. Fixed
2. Sink Rail drilling and grooving not working with a drawer bank. Fixed

Version 3.0.1.85 Feb 9, 2018

1. Modified database for more edging information.

Version 3.0.1.82 Dec 9, 2018

2. Added pilot holes for backs.

Version 3.0.1.81 Nov 26, 2018

1. Added Width and Length editor to Parts Grid.
2. Modified attributes that are sent over from CabMaker.

Version 3.0.1.80 Nov 5, 2018

1. Added Edging to Parts Grid.
2. Added Adjusted Button to Parts Grid. You can now toggle between Adjusted and

Original for sizes. Adjusted has to do with edging and edging thickness.

3. Parts printout now includes edging short codes. It also shows Adjusted or Original depending on the Parts Grid setting.

Version 3.0.1.79 Oct 11, 2018

1. Added Reference from Drawer Box for configuring Drawer Fronts Hole Sets and Pilot holes.
2. Fixed bug where spaces in Purpose breaks the configuration.

Version 3.0.1.78 Oct 2, 2018

1. Modified Drawer Rules. Added drawer box drilling and machining operations.
2. Drawer Rules now contain layer name information.
3. Slide configuration now synchronizes Drawer Rules.

Version 3.0.1.77 Jul 12, 2018

1. Modified shelf support drilling. Auto Depth Adjustment only works for Backs.
2. Fixed shelf support set back for upper cabinets when set back is different from base cabinets.
3. Fixed editing and saving Joinery.
4. Added Sheet ID to “Cut Plan” and “Labels”

Version 3.0.1.76 Jun 27, 2018

1. Added control for CNC labelling such as scaling and distance between objects.

Version 3.0.1.74 Jun 15, 2018

1. Fixed Parts report – now honors inches.
2. Fixed Shelf supports for Backs.

Version 3.0.1.73 Jun 7, 2018

1. Added Pullout Vertical Offset.
2. Added new Assembly Report to CutMaster Plus.

Version 3.0.1.71 May 7, 2018

1. Fixed pullout slide holes in side panel when slides are of different depths.
2. Added support for new Side by Side Partition.

Version 3.0.1.70 Apr 17, 2018

1. Fixed bug with DXF export.

Version 3.0.1.69 Apr 8, 2018

1. Fixed merging.
2. Completed the Joinery editor.

Version 3.0.1.68 Mar 26, 2018

1. Cutmaster now supports Bottom Overlay.
2. Modified how Cutmaster handles drilling for the back panel of split tops.
3. Added drilling from underside for legs for bottom panels of base cabinets.
4. Added Leg levelers for corner cabinets.

Version 3.0.1.67 Mar 21, 2018

1. Internal update to support Merge Cabinets.
2. Cutmaster Plus now supporting Bottom Overlay.

Version 3.0.1.66 Mar 9, 2018

1. Modified Rafix Connector by converting From Edge to From Edge List. It now supports drilling for Cabineo connectors.
2. Added flexibility for drilling Construction holes and Dowel holes. You now have the ability to offset the holes instead of only centering them.

Version 3.0.1.65 Mar 6, 2018

1. Added support for horizontal cabinet.

Version 3.0.1.64 Feb 12, 2018

1. Added more locations for labeling in Plus version.
2. Added support for permanent licensing. With this option CutMaster only checks in with the web service once after a version update.

Version 3.0.1.63 Feb 7, 2018

1. Added support for Unicode Strings.
2. You can now edit config.ini and specify a font.

Version 3.0.1.62 Jan 2, 2018

1. Fixed CAD call for nested sheets.
2. Fixed Arcs for labeliing and hangers for imperial dxf.

Version 3.0.1.61 Dec 28, 2017

1. Removed Trim Back DXF option. Width now determines pocket or straight line dado.
2. Now allowing drawers in upper cabinets.
3. Added dowels and construction holes for upper cabinet stretchers.

Version 3.0.1.60 Dec 12, 2017

1. Modified the layout of Options.
2. You can now have multiple Drawer / Pullout Subsystems.
3. Added more parameters to allow configuration of Zargen, Metabox etc.

Version 2.0.1.57 Oct 20, 2017

1. Parts are now clickable.
2. Added CAD support for current parts or nested dxf for Gold version.
3. Added Auto Depth for drilling.
4. Added an Edge Banding usage report in Gold version.
5. Completed Dxf Tall Partition for Tall cabinets in Gold version.

Version 2.0.1.56 Sep 29, 2017

1. Added double sink stretchers for Tip Out Tray.
2. Fixed Dowel locations for Sink Stretchers and for Integrated Kicks.
3. Modified DXF to support 2D labelling
4. Modified Joinery Form
5. Modified Options

Version 2.0.1.55 Sep 19, 2017

6. Added “Save” button for Options form.
7. Added Scoring Depth.
8. Added PartType to Dxf.csv file
9. Fixed flags bug. Flags were not set during import when called from CabMaker
10. Added Symbols to edging form. This is used for DXF labeling.
11. Added labeling location to Flags tab. There are 8 possible locations for labels including none.
12. Added DXF labeling. Each part gets a scored label.
13. DXF Rules are now global and are now read and written only to the default rule set regardless on which rule is current.

Version 2.0.1.54 Aug 4, 2017

1. Remembers last form size and position
2. Report preview is no longer maximized. It is now centered and aprox 800 X 600
3. Added modifier for Sides (Bottom=1, Top=2, Backs=4) These are added together
4. Modified Joinery screen - added text box to Gap line
5. Added NailerList for Dowels and Construction holes
6. Adjust Side panel for 3 drawer sink cabinet
7. Simplified General DXF screen. Removed parameters which now are sent over from CabMaker.

Version 2.0.1.53 Jul 24, 2017

1. Added a new tab under dxf configuration called Flags.
2. Completed partitions (slide holes) and back brace (shelf supports).
3. Double click on part (1 part per dxf) and associated CAD program will start up .
4. Fixed stretcher adjust.
5. Completed Hanger drilling.
6. Added model to import (need to add column to mapping) .

Version 2.0.1.52 Jul 15, 2017

1. Added Bottom Offset and Hanger Width to Miscellaneous section in General DXF tab.
2. Added Leg Levellers section and Hanging Brackets section to Connector's tab.

Version 2.0.1.51 Jul 2, 2017

1. Added Note Column to Parts Data.
2. Parts Report now shows Note column.
3. Import now has Note column and Shelf info.
4. Added options for shelf supports. You set the center hole of the cluster from adjustable shelf position in CabMaker.
5. You no longer have to restart after changing Edging thickness.
6. Changed Match button on import to map several fields.
7. Added more info to DXF file naming for 1 part per dxf.
8. Fixed Third Hinge mounting bracket.
9. Construction holes now honor edging thickness.
10. Added scoring option for Fixed shelves and Stretchers

Version 2.0.1.49 Jun 19, 2017

1. Added optional drilling for pullouts.
2. Depth for Pullouts and Drawers are now used in determining slides and drilling pattern.
3. Fixed Labels for Avery 06498 (1” X 2 5/8”)

Version 2.0.1.48 Jun 10, 2017

1. Added support for A4 labels for Avery L7159.
2. Modified top buttons since they were disappearing on some installs.

Version 2.0.1.47 May 23, 2017

1. Options now work properly with inches. Requires " (inch) mark.
2. Dxf option lists now can have last argument as c1 or c2. This forces CutMaster to divide the space by 2 or by 3.

3. Slides table in Database no longer restricted to 30 characters for holes.
4. Options in red (mostly depths) can receive fractional inches.
5. Added additional optional configuration for dxf files.
6. Added more layer names.
7. Added horizontal boring for dxf where 3D and where one part per dxf.

Version 2.0.1.46 May 9, 2017

1. Fixed bug in DXF cutting report and with labels.

Version 2.0.1.45 May 6, 2017

1. Added rule to create one DXF file for each part.
2. Side panels will now create hinge holes only when required. A left side will not have hinge holes when there is one door which is hinged right.

Version 2.0.1.44 May 2, 2017

1. Added Blind dadoing for Backs where the back is the same thickness as the sides.

Version 2.0.1.43 Apr 25, 2017

1. Completed the context sensitive help.
2. Added Dado Sides Only for cabinet backs.
3. Added Last Front Overhang. You now can have the slide holes in the sides positioned the same for cabinet bottoms and for stretchers.
4. Fixed bug for middle doors of tall cabinets when Tight Gap was 0.
5. Fixed bug for shelf support placement on Middle and Top sections of Tall cabinet when using integrated kicks and Overlay doors on Frameless cabinets.

Version 2.0.1.42 Apr 13, 2017

1. Fixed Label report for A4 printer.
2. Reorganized Dxf Options tabs. Rules and Miscellaneous are now on General tab and Shelf Supports are now on Holes tab.
3. Added context sensitive help to options. Not complete but a good start.
4. Fixed top hinge placement for doors.
5. Fixed bug when using partial sheets.

Version 2.0.1.41 Mar 31, 2017

1. Recompiled Cutmaster to fix internal synchronization of files.

Version 2.0.1.40 Mar 31, 2017

1. Cutmaster now supports Fridge cabinets.
2. You now have a choice of 2D or 3D for Dxf files.

3. Added Layer names in Dxf files for every entitiy for acad compatability.

Version 2.0.1.39 Mar 24, 2017

1. Tall cabinets now have shelf supports in top 2 sections.
2. With inches the DXF files had illegal characters in their names. Fixed
3. Modified labels for A4 printer.

Version 2.0.1.38 Mar 20, 2017

1. Tall cabinets now have door hinges in proper place.

Version 2.0.1.36 Feb 16, 2017

1. Draw box was missing dado's in Sides in Dxf view. Fixed.
2. Draw Side ends for pullouts weren't edged properly. Fixed.
3. Added Cabinet Description (Cabinet) to listing.
4. Fixed Cut Plan for Show Every Sheet option.
5. Adjusted Drawer dadoing for bottom to work properly with CabMaker.

Version 2.0.1.35 Jan 28, 2017

1. Split Top choice is removed and Top Style drop down added. Now supporting Front Stretcher option.
2. Changed Dxf View so that it synchronizes with Edging View.
3. Dxf files now supporting Layout direction.
4. Labels now in same order as cut plan.
5. New option to print labels for current cut plan.
6. When printing screen reports windows printer dialog now comes up allowing you to switch printers and or print just the page you want.

Version 2.0.1.34 Jan 23, 2017

1. Stretcher Construction and Dowel holes were not recognizing more than 1 hole. Fixed.
2. With multiple rules Cutmaster would sometimes use the wrong rule. Fixed.
3. With Full Dado's Cutmaster was running a zero depth rout. Removed.
4. Labels were only printing in millimeters even when inches is selected. Fixed.

Version 2.0.1.33 Dec 24, 2016

1. Label reports were not printing a label for each part when the quantity was greater than 1. Fixed.
2. Added check box option “Show Barcode”.
3. For labels the Cabinet

Version 2.0.1.32 Dec 12, 2016

1. Now supports connector adjustment for the acute end of Angled End tops and bottoms.
2. Added a 24 label choice for A4 printers.

Version 2.0.1.31 Dec 3, 2016

1. Corner cabinets now support different depths for the left and right sides.
2. Import dxf now defaults to where cutmaster places the dxf files.

Version 2.0.1.30 Nov 29, 2016

1. Added angled cabinet support.
2. Added cabinet column to parts listing report, labels and to cutting plan reports.
3. You can now choose letter or A4 for reports and labels.
4. Fixed dxf for top and bottom panels on corner cabinets.

Version 2.0.1.27 Nov 1, 2016

1. Fixed joinery bug for dxf files.
2. Fixed Dado bug for dxf files.

Version 2.0.1.26 Oct 30, 2016

1. Ported Cutmaster over to newer compiler.
2. Added new reporting choices. Reports can now be sent to Screen, Printer, PDF, HTML, CSV or RTF.

Version 2.0.1.25 Sep 14, 2016

1. Added Dxf output.
2. Created DxfConfig testing programming. It's version is also 2.0.1.25

Version 2.0.1.23 Jul 6, 2016

1. Complete the documentation.

Version 2.0.1.22 Jul 1, 2016

1. Changed Database to SQLite
2. Requires free SQLite ODBC driver
3. Added edging editor
4. Added joinery editor
5. Now loads last job at startup
6. Batch Optimization wasn't happening on Open Job or Import. Fixed.
7. Layout wasn't preserved between sessions. Fixed.
8. Import routine now handles different field delimiters and handles commas with numbers

9. With Metric units the Summary report can optionally show meters instead of feet
10. With Metric units material usage can optionally show meters instead of feet
11. Now Storing cost as pennies etc. You must now enter pennies etc.
12. Modified import routine - now handles commas as a decimal separator and gives choice for field delimiter.

Version 1.0.10.20 Oct 20, 2014

1. Changed Copy Protection strategy.
2. Changed link to web site.

Version 1.0.9.19 May 5, 2014

1. Recompiled to get Copy Protection working.
2. Added Edging for each part. Edging displays on sheet display report and labels.
3. Added Rotate check box for parts.
4. Added Joinery form for extended attributes.
5. Added Use Part Rotate in Options. If user leaves unchecked then part rotation is by material.
6. Sped up optimizer - it is now 100 times faster. This becomes noticeable with big jobs.
7. Added in Version upgrade for jobs saved in prior versions.

Version 1.0.8.18 Jun 15, 2013

1. General Maintenance.
2. Display trial information on main caption.

Version 1.0.7.17 Jun 13, 2013

1. Added an example Job.
2. Added more hints and modified Options form.

Version 1.0.6.16 Jun 12, 2013

1. If Optimize on Import / Open is not checked and you click the check box then has an exception. Fixed.
2. You can now batch import.
3. If you modify, add or delete Offcuts we now make sure the offcuts button is down.
4. Changed Layout to toggle between the 4 corners.

Version 1.0.5.14 Jun 5, 2013

1. Fixed Printing Issue after open or import but before optimization.
2. Fixed Screen Sizing issue.
3. Fixed Auto Add new Sheet – Kerf was 0 – now uses default from options.

Version 1.0.4.13 Jun 4, 2013

1. New Main menu, Hot Keys and hint line.
2. Modified Options Form.
3. Added Summary Report.
4. Added Import Form for Column Mapping.

Version 1.0.3.11 May 24, 2013

1. Grid editor columns are now sortable. Just click the column title.
2. Added a label print button. Labels are 2 5/8" X 1" and include a bar code. Avery 06498 are Removable labels - perfect for wood and plastic panels.
3. Fixed Printer Dialogue. Did not honour the print range.

Version 1.0.2.9 May 18, 2013

1. This is the first version of CutMaster.