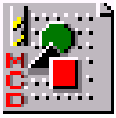


Mill Cam Designer - Quick Reference





Click on this ICON to start Mill Cam Designer



Selecting the material here will define the spindle speed and feedrate when cutting your part.

If you want to cut all the way through your material, the value here must be greater than the actual material thickness. E.G. for a material thickness of 2.00mm the value should be 2.01 or higher.

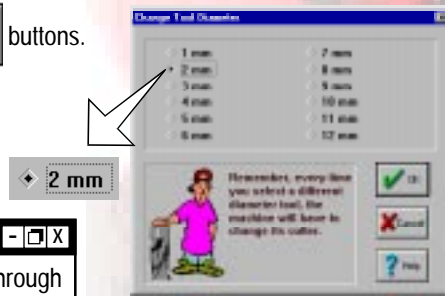
Before you start drawing press the  Depth and  Cutter buttons.



You can change the preset values by clicking in these boxes. You can have the start and end depths different values so the machine will produce a sloping cut.

Click in the diamond column to select the depth

Note
To cut all the way through a 2.00mm sheet you should select 2.00. There is no need to cut any deeper than that.



Step At first you may want to use a large step size e.g. 5mm. This will ensure that lines 'snap' on to each other. It is useful if the step size half or quarter of the grid. E.g. for grid of 10mm use steps of 5mm or 2.5mm. For fine adjustment of your design you can drop your step size down to 0.1mm.



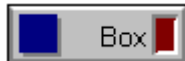
[Line]: Click and hold at the starting point of the line, then drag the line out and release the mouse button when the end point is reached.



[Arc]: Click and hold at the starting point of the arc, then drag the arc out and release the mouse button when the end point is reached. Right mouse click whilst dragging the arc will reverse the arc direction. Using the [up] and [down] arrow keys whilst dragging the arc will change the arc angle.



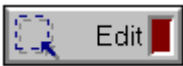
[Frame/Box]: Click and hold at the starting point. Drag the other corner to the required size. The area inside the box will all be machined out.



[Circle/Ring]: Click and hold the mouse when the pointer is at the centre point of the circle then drag the circle outwards. The area inside the circle will all be machined out.



[Text]: Click once in the drawing area. Enter the required text, click [Ok] and enter a scaling factor. Position the text with your mouse. Click the left mouse to place in the drawing or click the right mouse to reject.



Editing - Elements can be edited using different methods :-

- 1) Click on the drawing area, hold the mouse button down and drag the dotted line marquee box around the elements to select them. You can then use the 'Cut', 'Copy', 'Paste', 'Paste Special', 'Mirror' and 'Rotate' functions in the drop down Edit menu. Alternatively, you can click the right mouse to 'pick-up' and then left mouse to 'drop' the selected area.
- 2) Right click on the drawing area. This cycles around all the individual parts of the elements, in the order they have been drawn. Left mouse click if you want to remove the selected item.
- 3) From the "Edit" menu, click "Select All" to highlight all the elements on the screen.

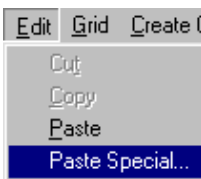
How To Change the Depth/Tool Of An Element



1) Use the Edit button to select the object.



2) Select 'Edit | Cut' which will temporarily remove it from the screen.



3) Select 'Edit | Paste Special' which will prompt you for a Tool Diameter and then a Depth. If you don't want to change anything, click [Cancel].

4) Click [OK] and to place back on the screen.



Saving your Design

Select 'File | Save' to save your design as a 'Mill Cam Designer' file with a '.mcd' file extension.

Creating a G-Code file


Select 'Create G-code | Make file...' to save your design as a 'G-code' file. This is the file that must be used on the CNC machine or simulation software.

Note

The machine will not read a 'Mill Cam Designer' file directly. You must remember to create a G-code as well.



Check here that you file is being saved in your chosen directory. Double click on [-a-] to save directly to floppy disc. Just type in your filename (no spaces) the '.fnc' will be added automatically.

Press  to convert to code and write to disk.