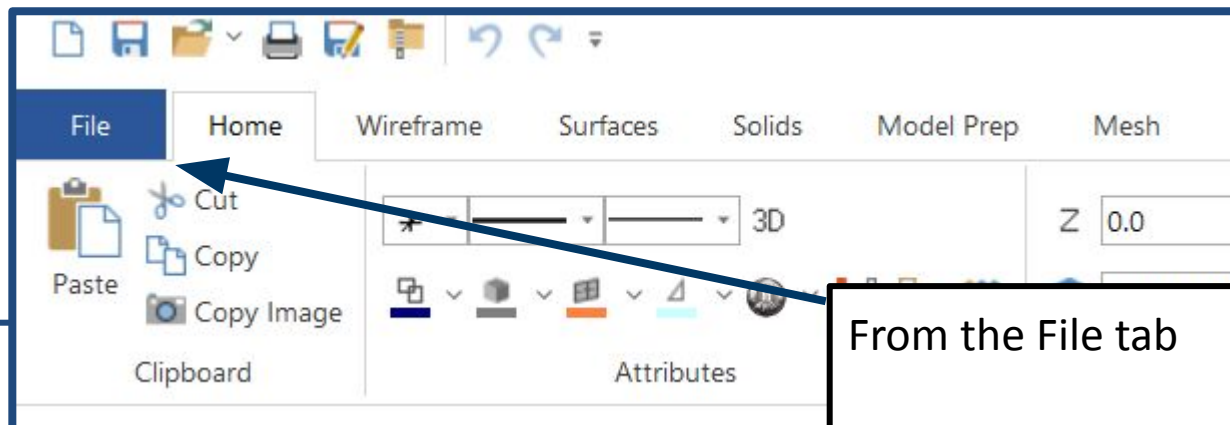


Mastercam Training Video Series

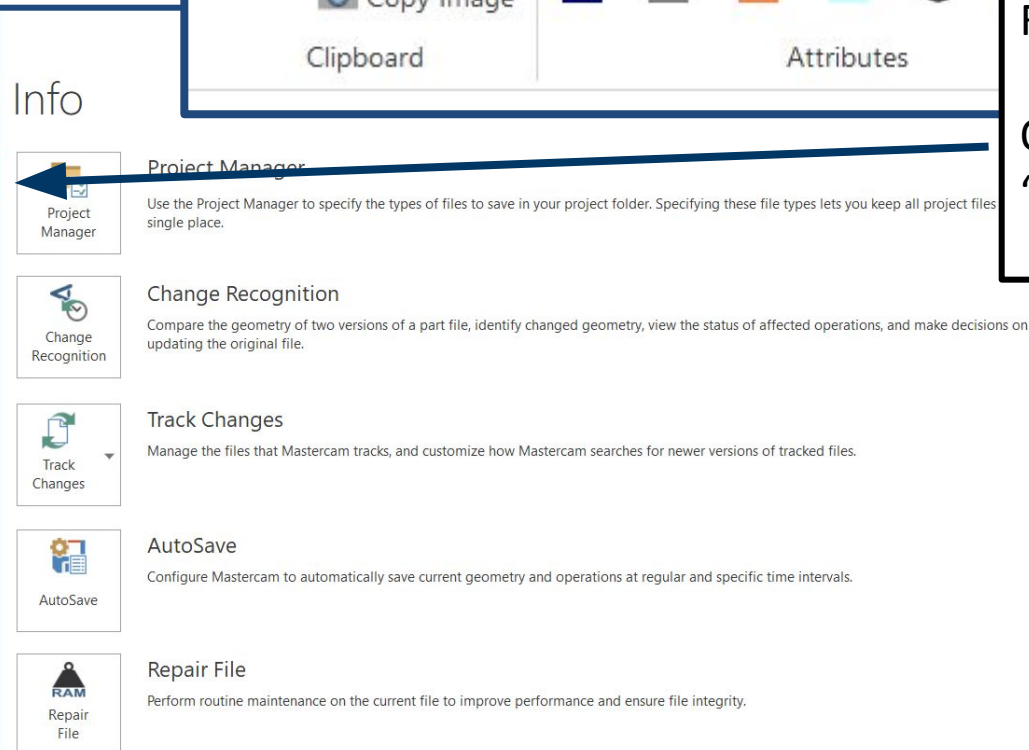
Video 1 - Preparing to Machine

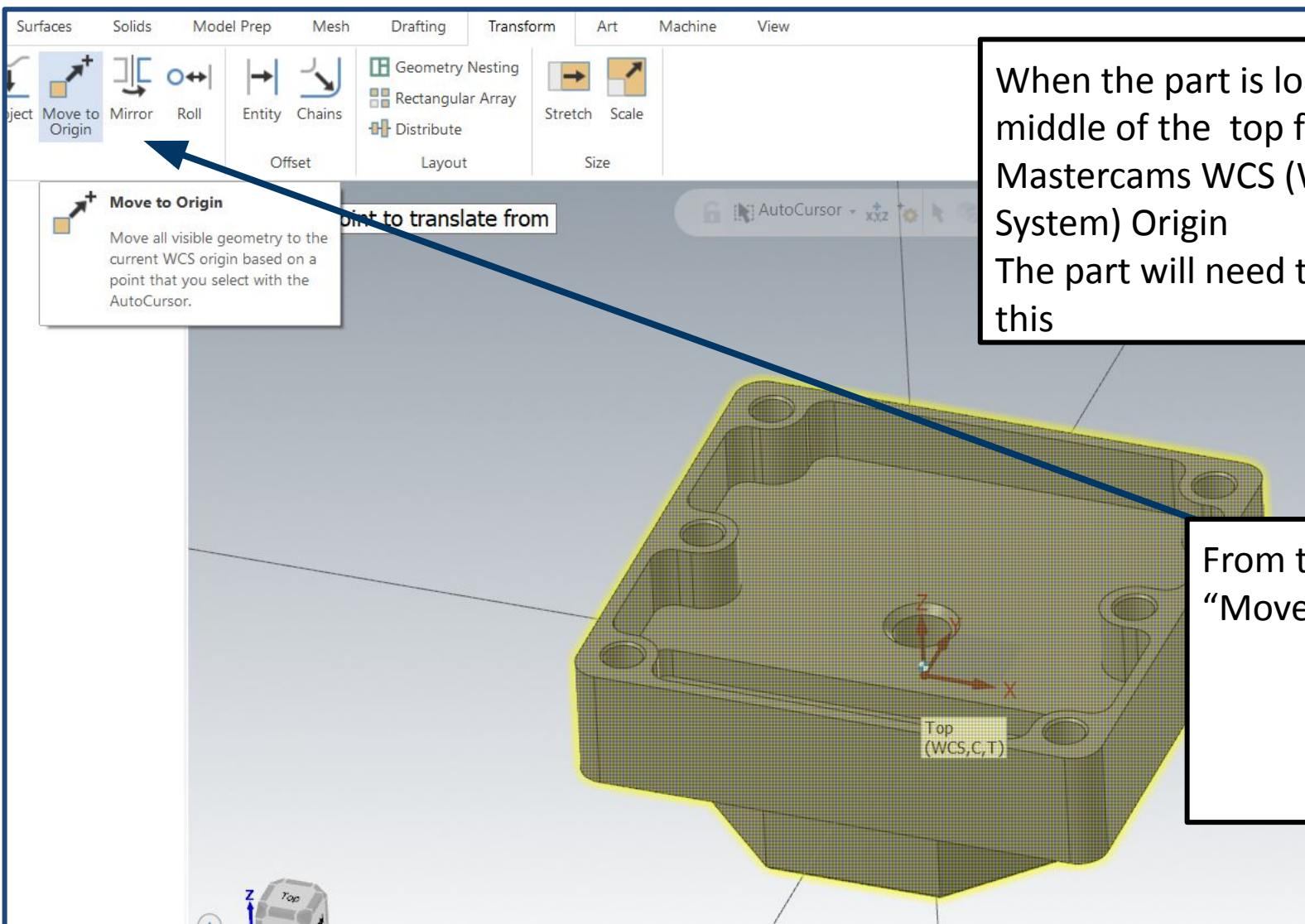
[Video Link](#)



From the File tab

Open the provided step file titled
“WorldSkills Training - Milling.stp”





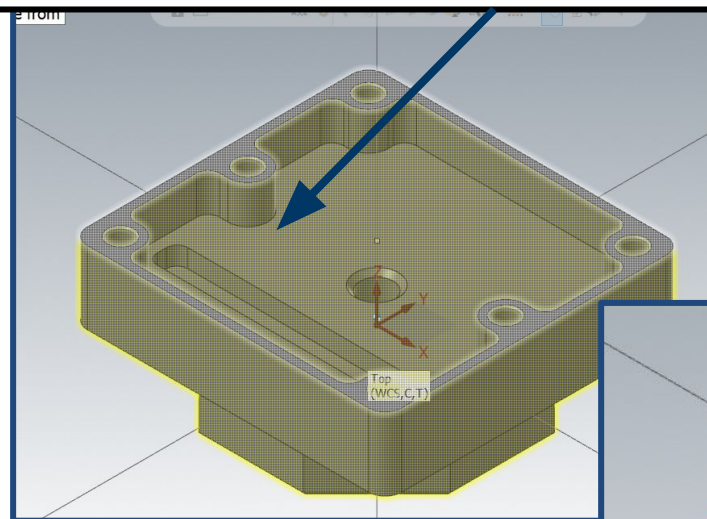
When the part is loaded ensure the middle of the top face is aligned to Mastercams WCS (Work Coordinate System) Origin

The part will need to be moved to do this

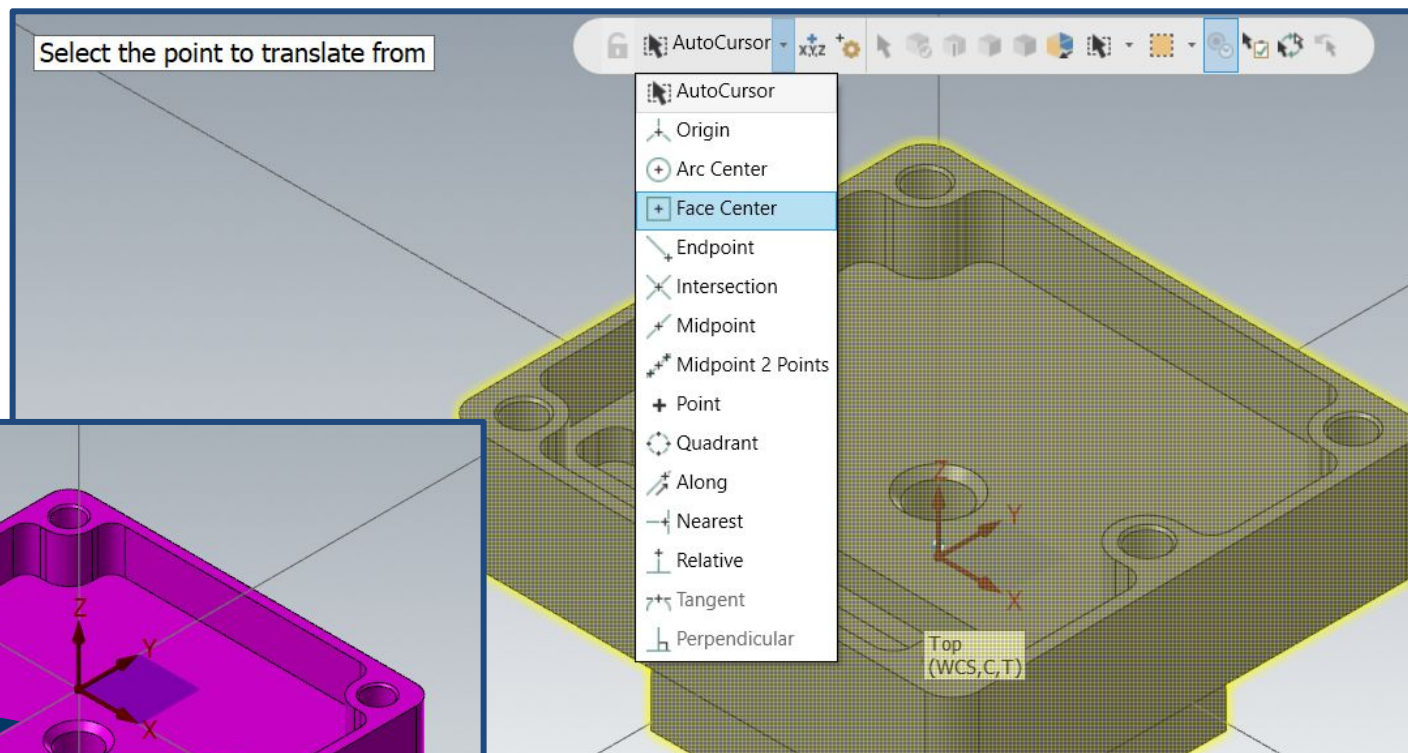
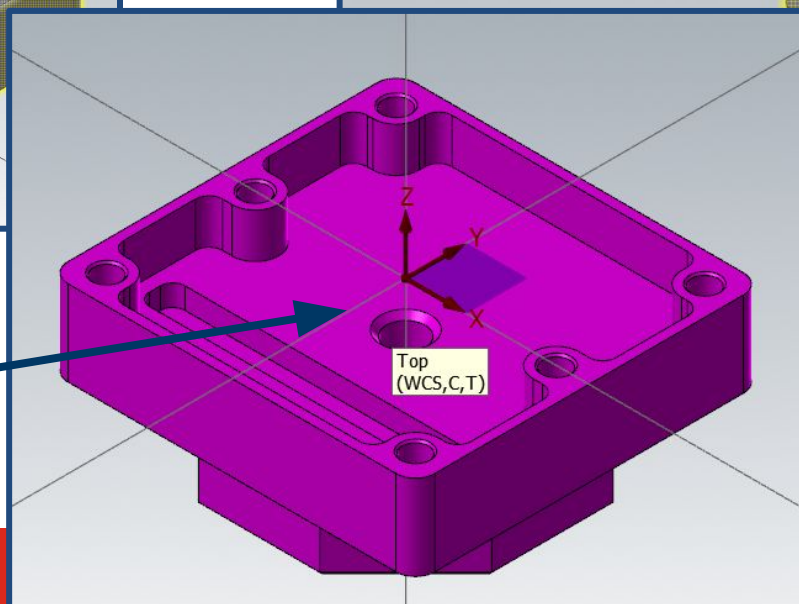
From the Transform tab select the "Move to Origin" function

Using the Auto Cursor drop down, select
“Face Center” tool

Click on the top face of the part to
transform this to be aligned with the WCS



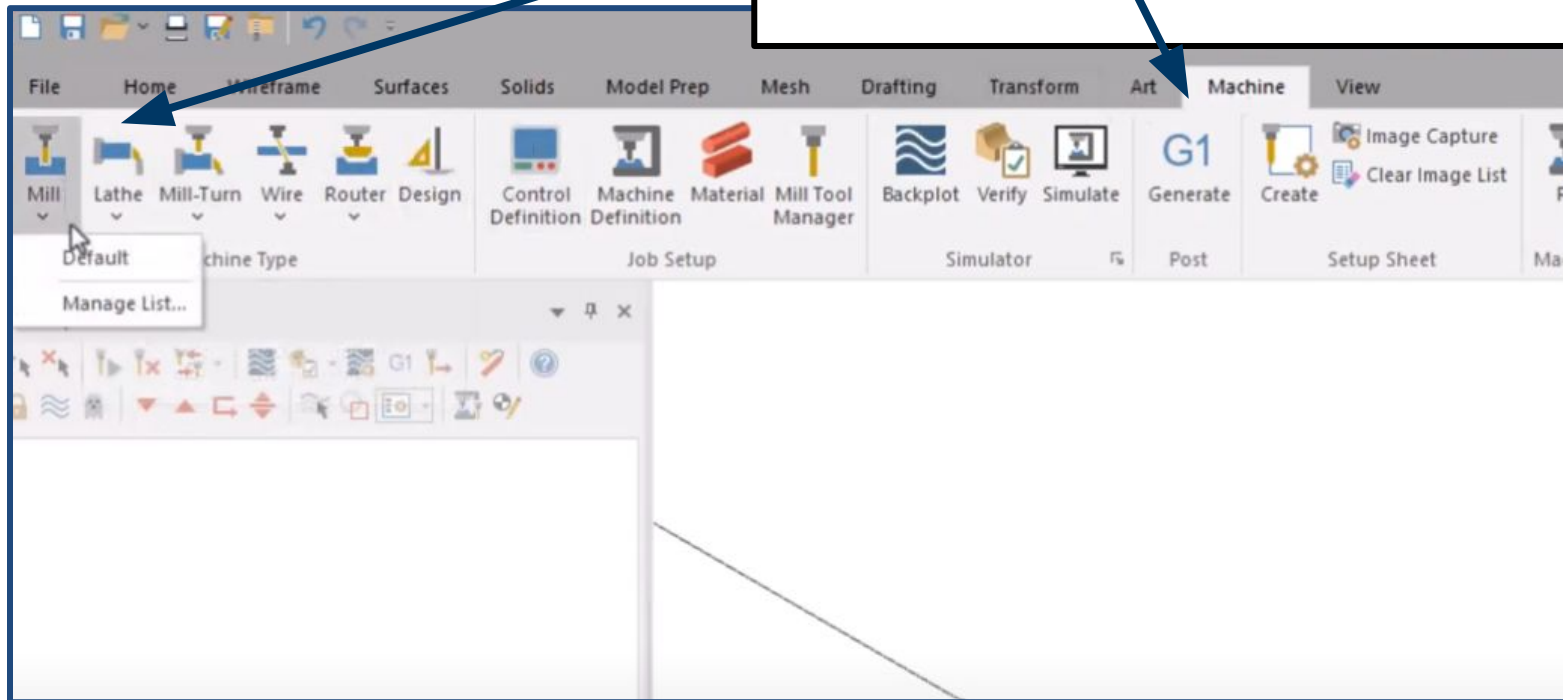
The part should now be aligned
as shown



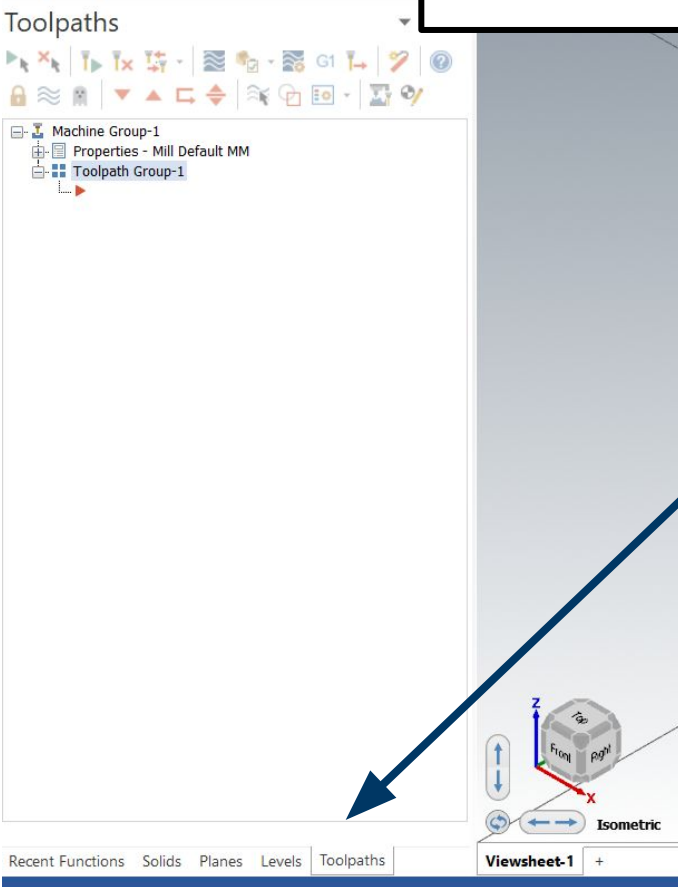
Now the part is aligned select the machining process to use.

We will be using Milling

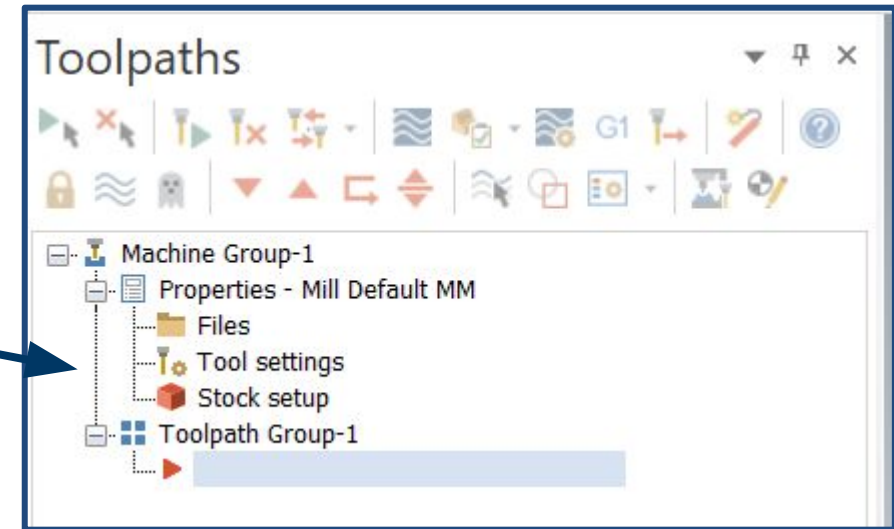
Under the Machine tab select Mill, then from the dropdown click on default or the machine of your choice, if you have one loaded.

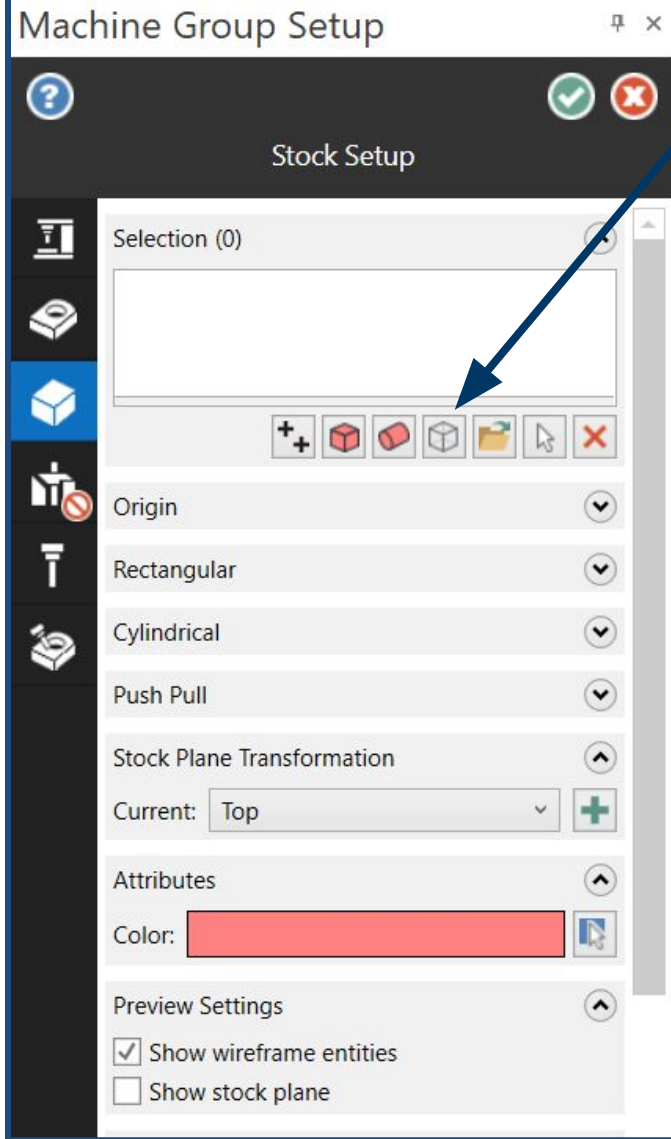


The Toolpaths manager should now be displayed on the left hand side. This can be navigated to by selecting the Toolpaths tab on the bottom



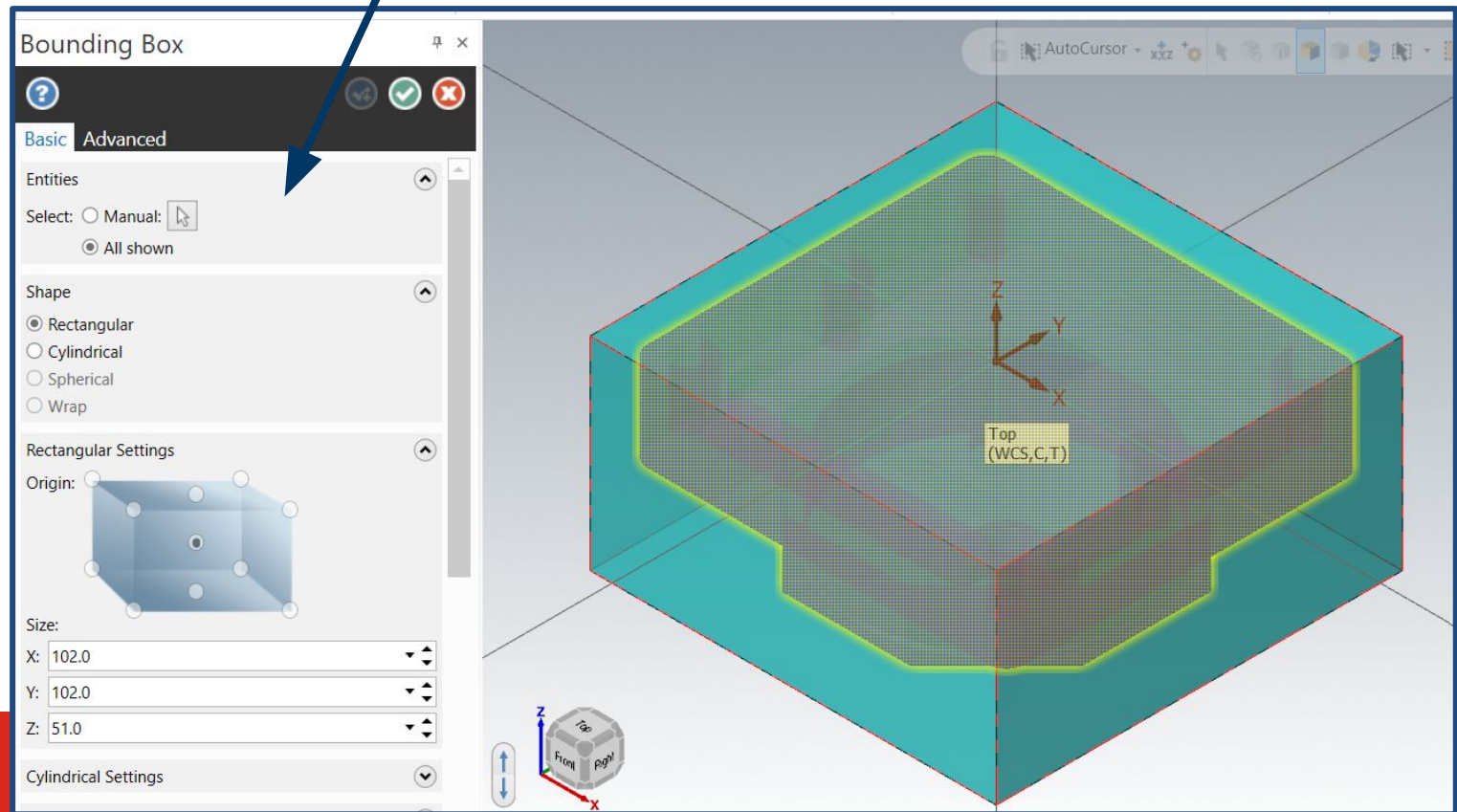
Maximise the properties box and select Stock Set-up



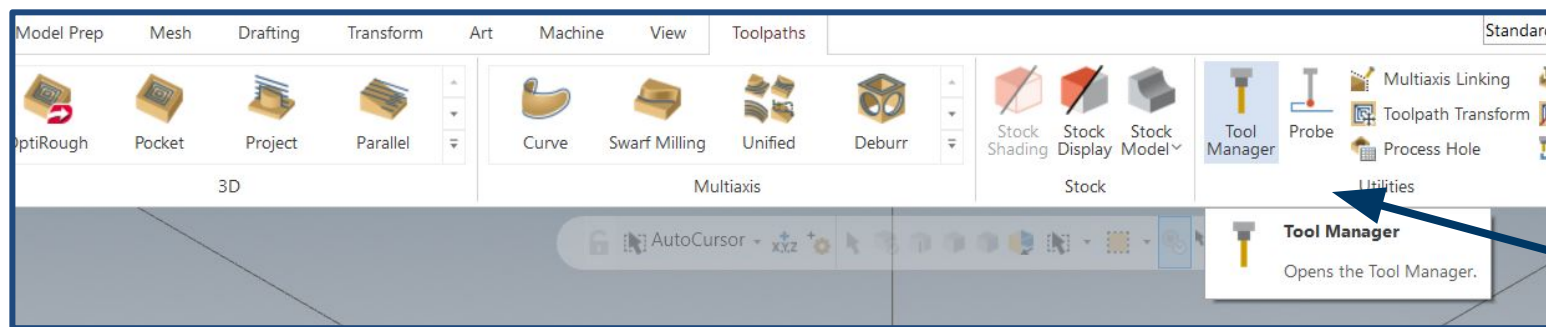


Select Bounding Box

Select the “All shown” option for entities then adjust the size
The video series says to select stock 110 x 110 x 60 but your available stock may be different, in this example we will set it to 102 x 102 x 51, which is standard for 4” x 2” flat bar.



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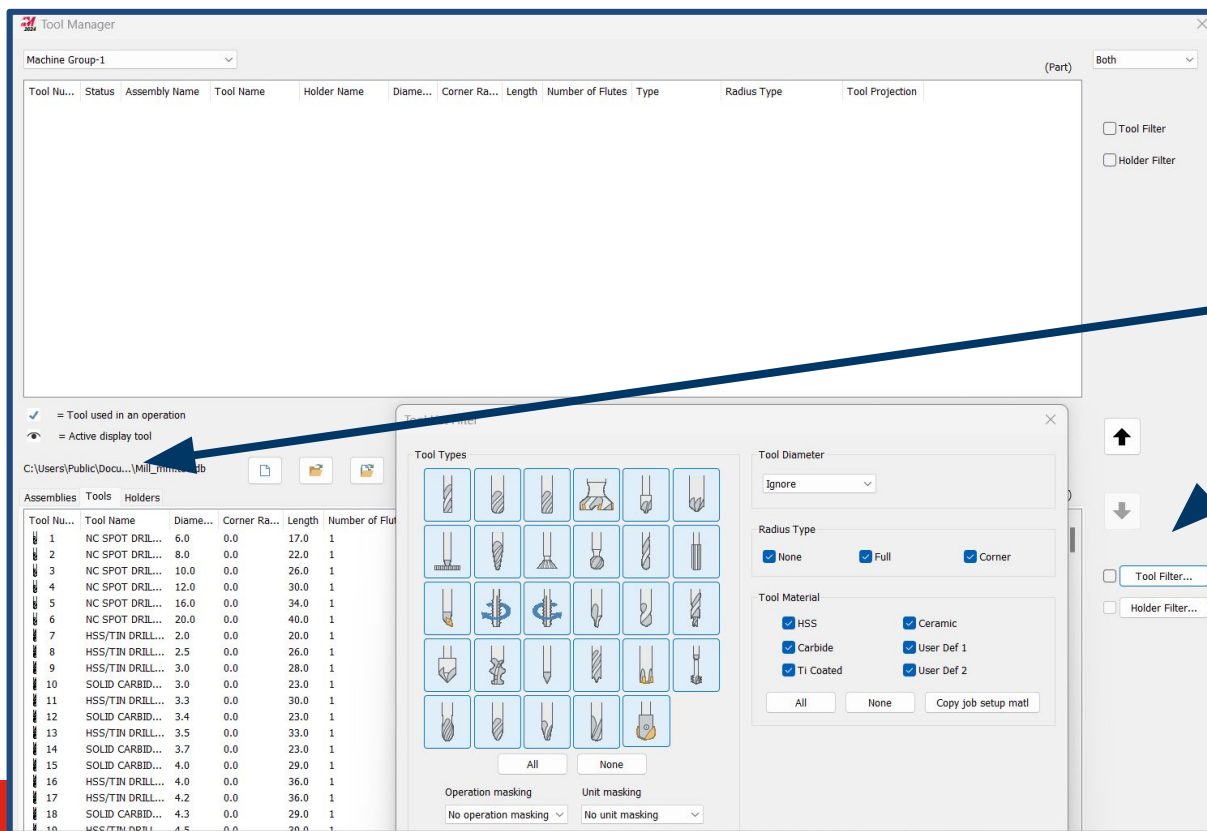


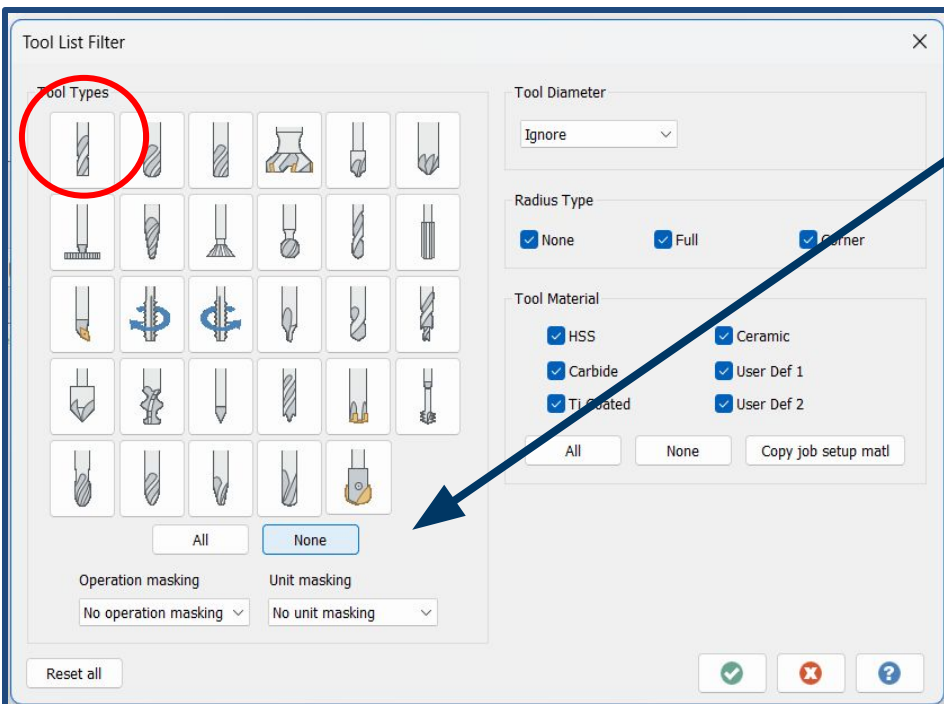
Now select suitable tools from the tool library, select “Tool Manager” from the ribbon bar

When the Tool Manager window pops up

Select “tools” tab on bottom window

Select Tool Filter on right hand side.





On the tool filter, deselect all options using the None button

Then select only Flat Endmills (Circled)

Green Tick to accept

Then choose a 10mm Flat endmill from the list
Up arrow to move it to the current machine group window

Repeat the process for the required tools:

- 10mm Endmill
- 6mm Endmill
- Spot Drill
- 6.8mm Jobber Drill
- M8 x 1.25 Tap

End of Session - Save Your Work

