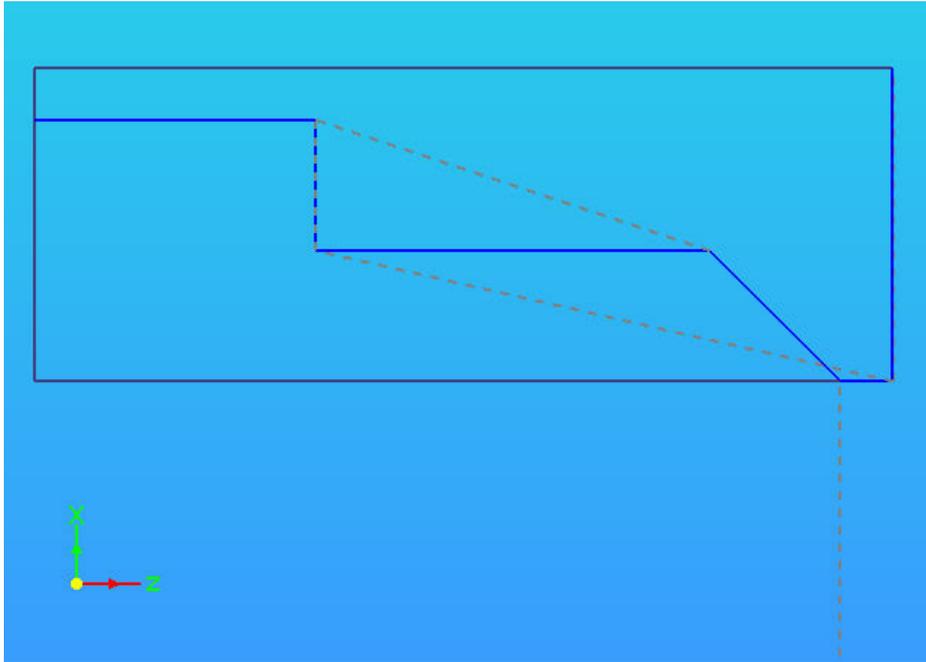


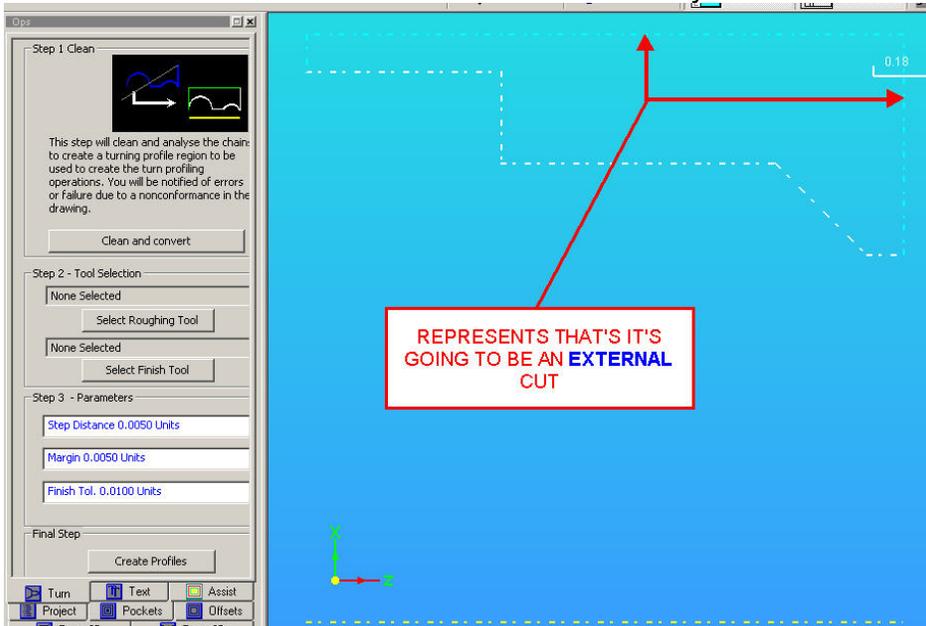
# BACK ANGLE TOOL SETTING – LAZYCAM

This little tutorial should provide you with some insight on the back angle tool setting. Look at the different screen shots taken from LazyCam and make note of the settings. I have created a LCAM file, namely TURNTOOL.LCAM to save you some steps. The DXF is also attached.

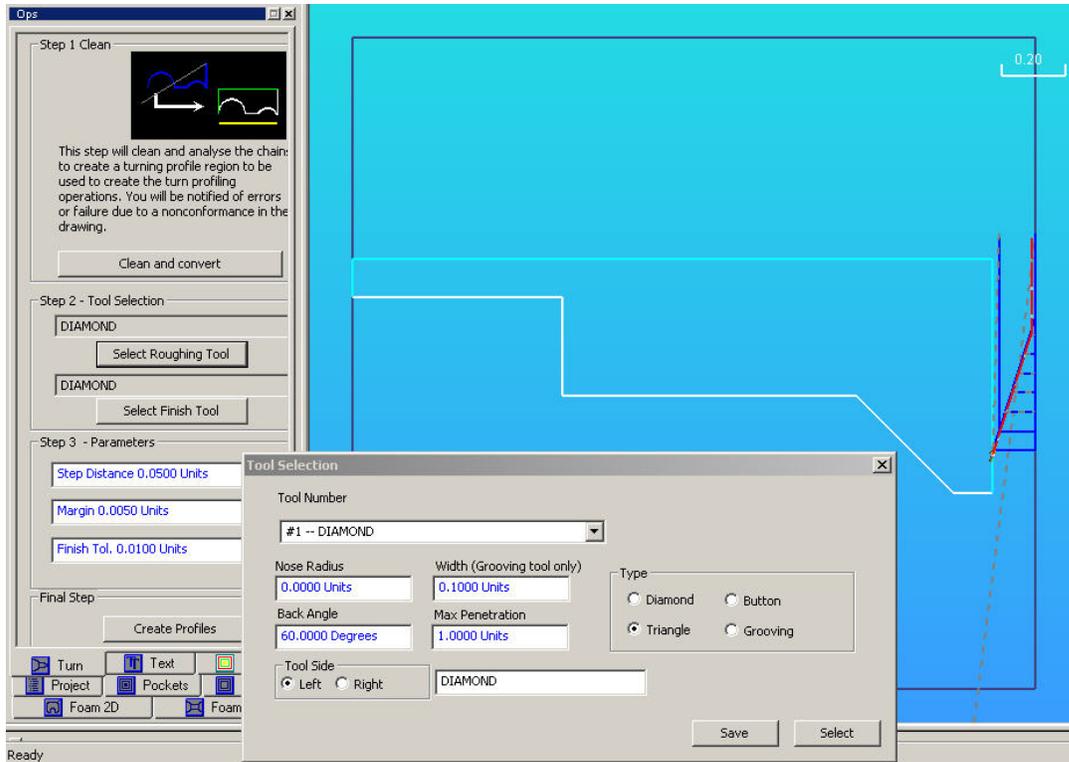
If you want to start with the DXF here is what the screen may look like after importing.



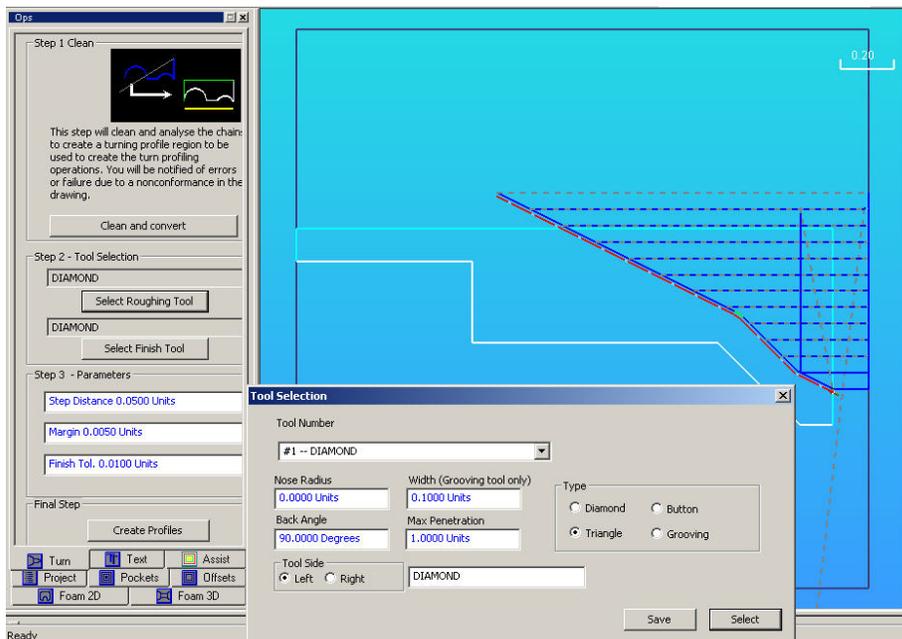
Here is what the Lcam file should look like in LazyCam:



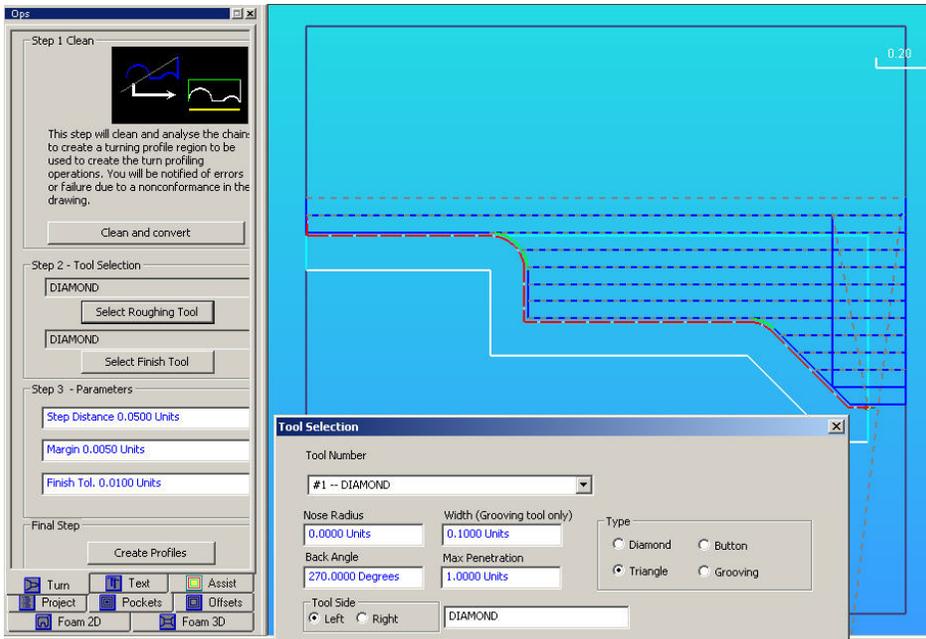
The following three shots show a few back angle settings, namely 60, 90, and 270 degrees. Note the difference in tool paths. Remember that all you have to do is change the setting and create profiles. To go back and try something different just use the **Oops** button till your back at the clean and converted screen post opening the Lcam file.



**60 DEGREE BACK ANGLE**



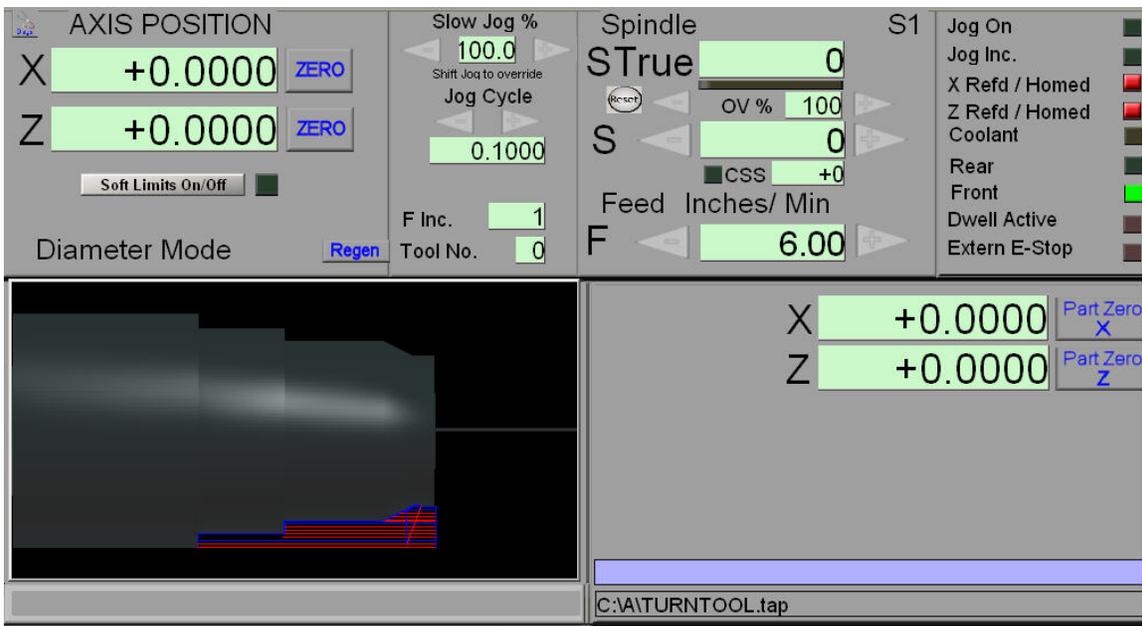
**90 DEGREE BACK ANGLE**



## 270 DEGREE BACK ANGLE

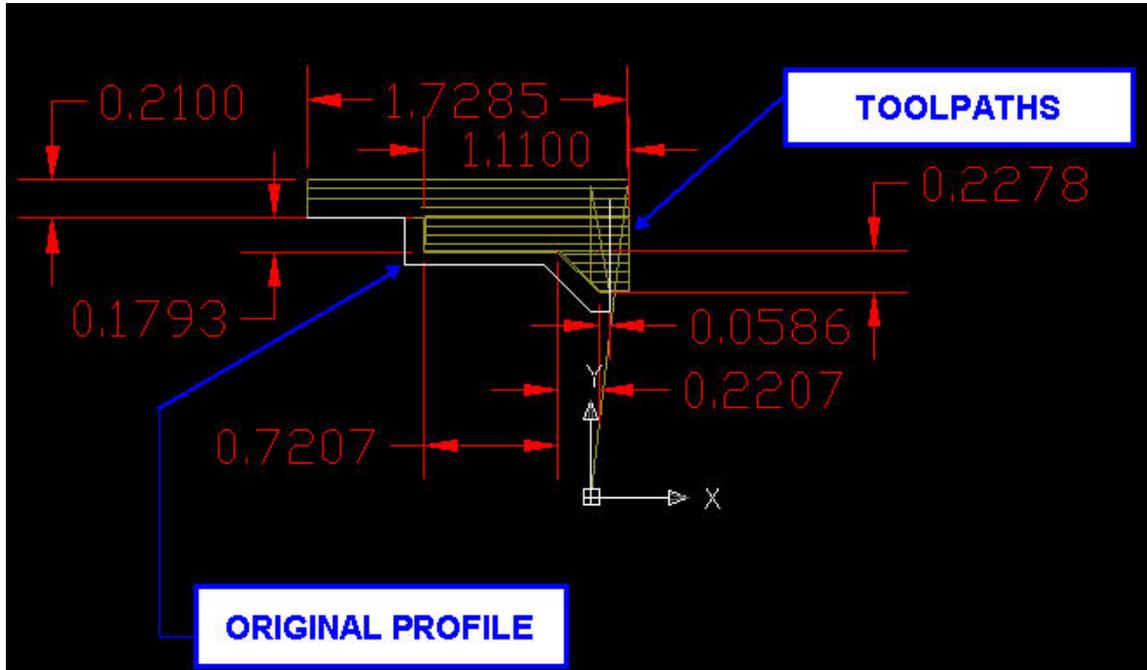
The tool paths on the above don't look to bad and only minimum editing of the gcode should be required. So the gcode can generated using the Post Code button. Remember that you can Setup posting options and import options in the SETUP pulldown.

Here is screen shot in Mach. I had to modify the code to remove a number of circles which were generated from LazyCam. Just deleted any line which had I & K in it. This tutorial is about the back angle setting, so,..... you would want to do a few additional code edits before using it for actual cutting.



Here is a "how to" should you wish to explore the tool paths using a CAD program. The g code TAP or TEXT file of the code was brought into Microsoft word, a word search was done, such that I replaced all the X's to Y's and then all the Z's with X's. The text was then converted back to a DXF file using a gcode to dxf converted. There is a forum posting on this.

Here is a screen shot of the LazyCam generated gcode / tool paths in Autocad. I added the dimensioning just for show and also referenced in the original profile.



**HOPE THIS HELPS & HAVE FUN,  
RICH**