

Module: Solidworks CAM Standard-Milling

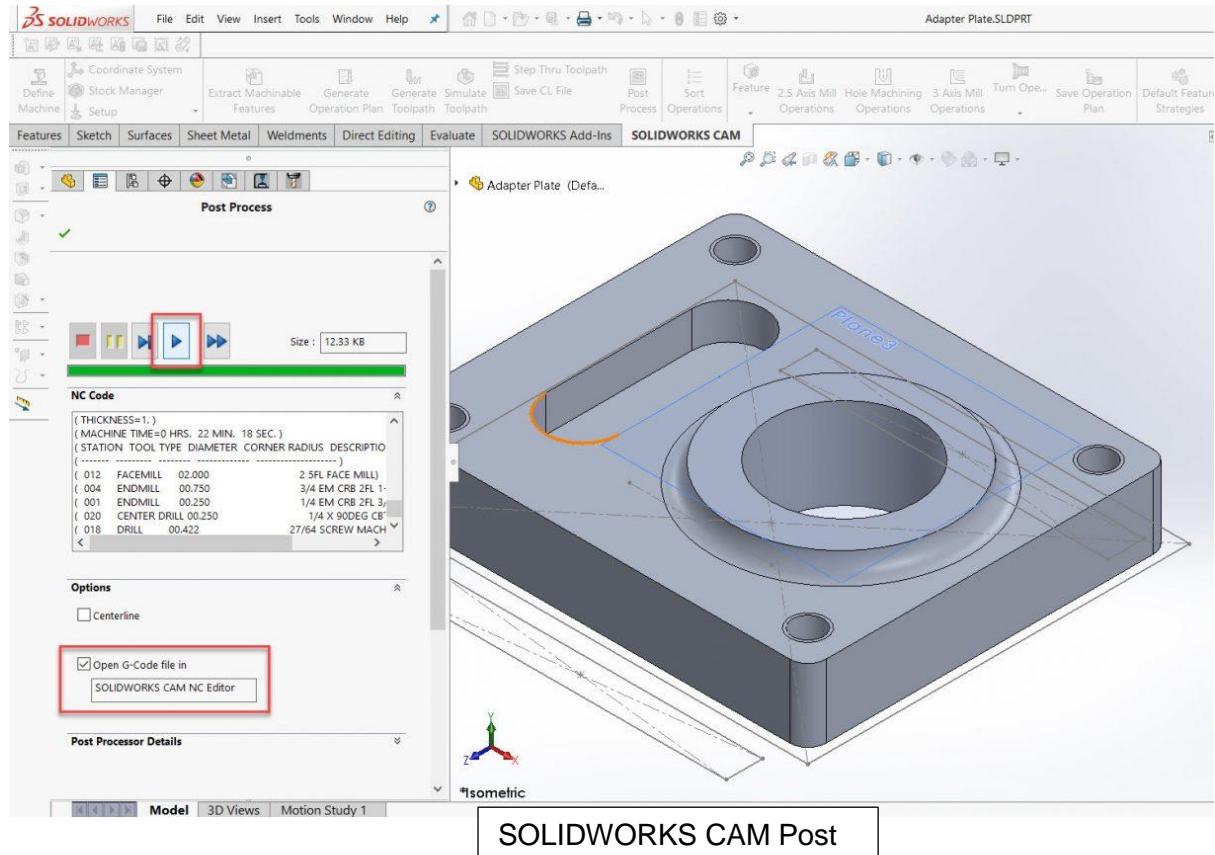
Topic 10: Automatic Recognition Feature Setup 9-Post Processing NC Code

10.0 Post Processing NC Code

Once we are happy with our set-up, we need to export a text file that contains the program of G and M codes for the CNC machine to cut the part.

To generate toolpaths, click Post Process in the CAM command manager or right-mouse on Mill Part Setup1 and select Post Process.

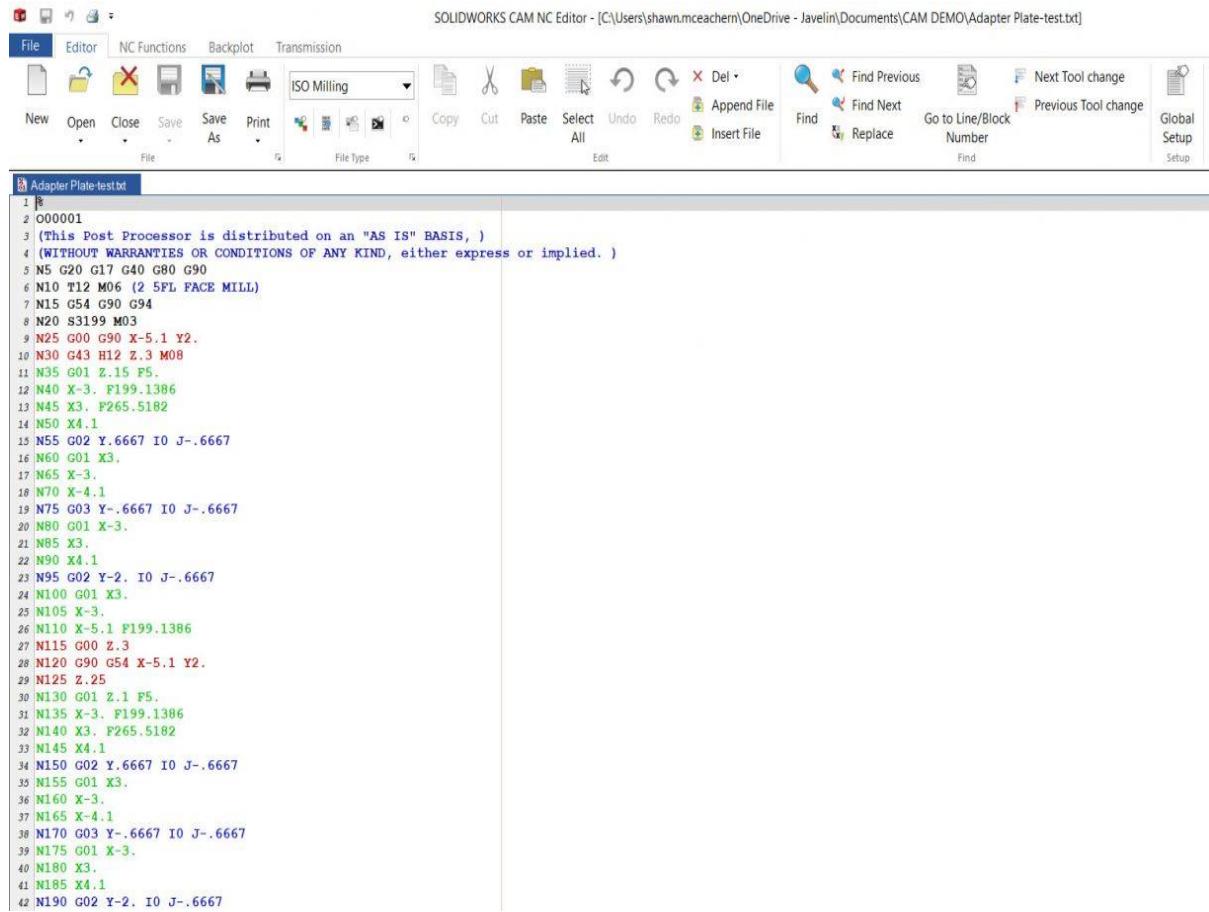
First you will be prompted for a save location for the text file that will be the program. Next, in the Post Process feature manager hit the play button to generate the program. In the option tab, check Open G-code file in SOLIDWORKS CAM NC Editor.



Now our program will be opened in the SOLIDWORKS CAM NC Editor. We may use the functions in this program to manually alter our program.

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The screenshot shows the SOLIDWORKS CAM NC Editor interface. The title bar reads "SOLIDWORKS CAM NC Editor - [C:\Users\shawn.mceachern\OneDrive - Javelin\Documents\CAM DEMO\Adapter Plate-test.txt]". The menu bar includes File, Editor, NC Functions, Backplot, and Transmission. The toolbar contains icons for New, Open, Close, Save As, Print, Copy, Cut, Paste, Select All, Undo, Redo, Del, Append File, Find, Find Previous, Find Next, Go to Line/Block Number, Replace, Previous Tool change, Global Setup, and Setup. The main window displays a text file named "Adapter Plate-test.txt" containing G-code. The code includes comments about post processor distribution and tooling information, followed by a series of G-code commands for a 2D face mill operation.

```
1 G00001
2 (This Post Processor is distributed on an "AS IS" BASIS, )
3 (WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. )
4 N5 G20 G17 G40 G80 G90
5 N10 T12 M06 (2 5FL FACE MILL)
6 N15 G54 G90 G94
7 N20 S3199 M03
8 N25 G00 X-.5 Y2.
9 N30 G43 H12 Z.3 M08
10 N35 G01 Z.15 F5.
11 N40 X-3. F199.1386
12 N45 X3. F265.5182
13 N50 X4.1
14 N55 G02 Y-.6667 I0 J-.6667
15 N60 G01 X3.
16 N65 X-3.
17 N70 X-4.1
18 N75 G03 Y-.6667 I0 J-.6667
19 N80 G01 X-3.
20 N85 X3.
21 N90 X4.1
22 N95 G02 Y-2. I0 J-.6667
23 N100 G01 X3.
24 N105 X-3.
25 N110 X-5.1 F199.1386
26 N115 G00 Z.3
27 N120 G90 G54 X-5.1 Y2.
28 N125 Z.25
29 N130 G01 Z.1 F5.
30 N135 X-3. F199.1386
31 N140 X3. F265.5182
32 N145 X4.1
33 N150 G02 Y-.6667 I0 J-.6667
34 N155 G01 X3.
35 N160 X-3.
36 N165 X-4.1
37 N170 G03 Y-.6667 I0 J-.6667
38 N175 G01 X-3.
39 N180 X3.
40 N185 X4.1
41 N190 G02 Y-2. I0 J-.6667
```

SOLIDWORKS CAM NC Code Editor