



## HRS Carbide 3D GRBL Router Post

Thank you for Downloading a **Hawk Ridge Systems** post!

Hawk Ridge Systems has decades of experience developing posts for CAMWorks and SolidWorksCAM.

### Overview

This post Supports All 3 axis operations.

1. SWCAM and CAMWorks Probing supported (2020)
2. All post files must be in the same location.

### Output file

The extension for this post is .NC, changeable in the file .PINF. To edit this, open by right clicking on it and selecting "Open With" then select notepad.

Change the line "PostExtension = " to your preferred extension. Do not use a "." before it.

### Posting Tab of Machine

Parameter	Value
Program Number	1
Customer Name	*_*_*ENTER VALUE*_*_*
Programmer	*_*_*ENTER VALUE*_*_*

1. Program Number Type= Number, Default=**1**.  
This is the Oxxxx number at the top of the program.
2. Customer Name Type=Characters, Default=\*\_\*\_\***ENTER VALUE**\*\_\*\_\*  
Default or blank will not be posted.
3. Programmer Type=Characters, Default=\*\_\*\_\***ENTER VALUE**\*\_\*\_\*  
Default or blank will not be posted.

### Post Operation Insert

Right click on operations tree and select "Post Operation" from the menu

### Post Program Stop

Inserts a Program or Option Stop.



Parameter	Value
Program/Optional Stop	Program Stop
Tool Change After Stop	Yes

1. Program/Optional Stop **Type=Select, Default=Program Stop**  
Select between "Program Stop" (**M00**) or "Optional Stop" (**M01**) output.
2. Tool Change After Stop **Type=Select, Default=Yes**  
Select "Yes" for a tool change after the stop (**M00**) or "No" for no tool change.  
"Yes" will output **G91 G28 Z0** before **M00**. "No" only outputs **M00**.

## Setup Information

Will insert setup information (as a comment) or Code (as-typed) in the posted code going to the machine.

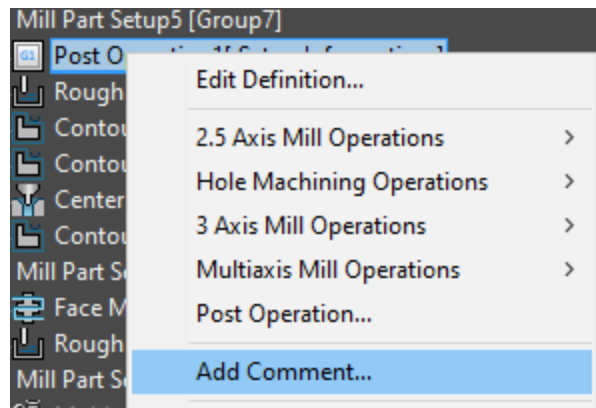
Parameter	Value
Output As Code	No

1. Output As Code **Type=Select, Default=No**
  - a. Depending on the Output as code selection you will either get comments or code.
  - b. In the operations tree find the newly created post operation. Normally called 'Post OperationX[ Setup Information ]'.  
The 'X' represents the number after the post operation.
  - c. Right click on 'Post OperationX[ Setup Information ]' and select 'Add Comment'



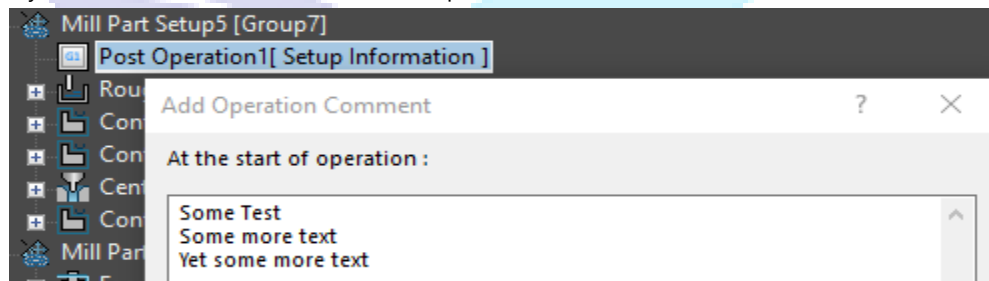
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d. In the top box in the add operation window.

Enter your comments or code. For a new line press CTRL + Enter.



How it works:

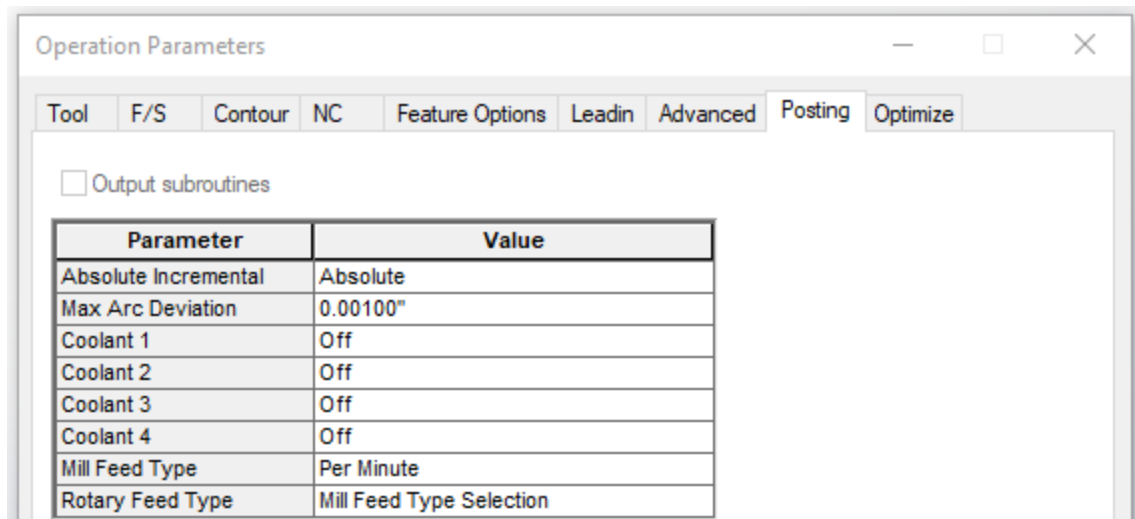
When you post the system will output the comments or code you entered. This can go anywhere in the tree but most of the time it is at the top before the first operation in a setup.

**Note:** If you want to insert comments to an operation in CAMWorks start at letter 'c' above. Right click on the operation instead of the post operation.

## Operation Post Tab

Double click on an operation or RBM (right button mouse) on the operation and select 'Edit Definition'

## Mill Operation



1. Absolute Incremental **Type=Select, Default=Absolute**  
All Z moves are Absolute regardless of selection.
2. Max Arc Deviation **Type=Decimal, Default=.001"**  
If the Arc needs to be broken into line segments this is the deviation for the breaking of the arc.
3. \*Coolant 1 **Type=Select, Default=Off**
4. \*Coolant 2~4 **Type=Select, Default=Off**
5. Mill Feed Type **Type=Select, Default=Per Minute**  
Feed of per minute (IPM/MMPM) or per revolution (IPR/MMPR)
6. Rotary Feed Type **Type=Select, Default=Mill feed Type Selection**  
Defines feed type output for rotary move, default is the 'Mill Feed Type' selection above. Other options are Inverse Feed and Degrees Per Minute.

## External Configuration

**Warning:** This needs to be edited before posting or your output may not run your machine.

Externally configurable post processor output options are found in the file '.CNF'. These are self-explanatory in nature.

**General output to the machine** will define items and how you prefer to see them in the code.

## CNF file contents

- \*-----
- \* The settings in this file will override the settings of the post processor.



- \* Lines started with an asterisk (\*) are comments and are ignored.
- \* This file will only affect the post processor (\*.CTL file) with the same name.
- \* Not all post processors support CNF files.

```
*-----  
*          -*-*- General output to the machine -*-*-  
*-----
```

```
*  
* CNF_TLIST_CNFG=0 then no tool list will be present.
```

```
*  
* CNF_TLIST_CNFG=1 then a tool list will be present.
```

```
CNF_TLIST_CNFG=1
```

```
*-----  
*  
* CNF_LINE_NUM_CNFG=0 then no line number.  
*  
* CNF_LINE_NUM_CNFG=1 then line numbers on every line.  
*  
* CNF_LINE_NUM_CNFG=2 then Line Numbers at Tool change by tool #. (N7,N10,N1).  
*  
* CNF_LINE_NUM_CNFG=3 then Line Numbers at Tool change incrementally. (N1,N2,N3).  
*  
*-----
```

```
CNF_LINE_NUM_CNFG=1
```

```
*-----
```

## End User Agreement

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