

## iMachIII Screen

- Most controls in first page.
- Multi coordinates display.
- Machine limits info. display.
- One click jog mode selection.
- Hotkey operation.
- Multi-function MPG.
- Machine state real time display.
- Large tool path display.

**iMachIII CNC Controller**

File Config Function Cfg's View Wizards Operator PlugIn Control Help

Main ToolPath Offset Measure Coordinates G-Code M-Code Work Table Tool Table Settings Diagnostics Help

Load Recnt Edit Close # 3 G56  
Code File Code Code  
Elapsed 0.00 00.03  
Simulated 0.00 00.00  
Line 6  
Cancel G57

**Current Position**  
X: +0.5683  
Y: +1.9286  
Z: +0.1000

**Machine Coordinates**  
X: -5.7368  
Y: -1.9250  
Z: -4.8297  
Z inhibit: +0.0000

**Tool Information**  
T: 0 Reference Tool  
Diameter D: 0.0000  
Length H: +0.0000  
Go Safe Z: W: +0.500  
Z inhibit: W: -0.100

File C:\Mach3-R2.83\_Lockdown\GCode\ro G Mill->G15 G1 G17 G40 G20 G90 G94 G58 G48 G99 G64 G97 Profile VistaMill\_inch

F60.000000  
G0 X0.000000 Y0.000000 Z0.200000  
M3  
S60.000000  
G43H5  
G0 X0.000000 Y0.000000 Z0.200000  
G0 X1.179950 Y4.004260 Z0.200000  
G1 X1.179950 Y4.004260 Z-0.100000  
G1 X1.179950 Y4.004260 Z-0.100000  
G1 X1.179950 Y3.980210 Z-0.100000  
G1 X1.175140 Y4.004260 Z-0.100000  
G0 X1.175140 Y4.004260 Z0.200000

**Table Display**

**Hard Limit Ref's Soft Limit**  
X- X++ Z X X- X+  
Y- Y++ Y A Y- Y+  
Auto LMT OV Y A Z- Z+  
Manual OV All All A- A+

**Jog**  
Cont. 100% 50% 50% Slow Jog  
Step 0.010 Step 0.100 Step 0.001 60.0  
Inch/Min  
Step Velocity Feed Spindle Prop.  
MPG MPG MPG MPG MPG

**MDI**  
CycleStart FeedHold Stop Rewind Single BLK Opt. Stop BLK Del. Goto T. Chg Goto Zeros Posit. Mem.  
RESET Soft Limit Machine OnLine Jog ON RunFr Here SatNx Line Revrns Flood Ctrl Goto Home Posit. Retn.

**Feed Rate**  
CV Mode  
Feed OV 60.0  
F OV % 100 %  
Backlash Max 50.02 Inch/Min  
Rotation 60.0 Inch/Min  
RAD Corr. 50.02 Inch/Rev

**Spindle Speed**  
Spin OV 100  
S OV % 100 %  
0.0 RPM  
Spindle Max 2600

Status Too Slow for Pulley. Using Min.

Main ToolPath Offset Measure Coordinates G-Code M-Code Work Table Tool Table Settings Diagnostics Help

**Measure** Coordinates G-Code M-Code Work Table Tool Table Settings Diagnostics Help

# 3 G56

**Current Position**

X zero	1:1	+0.5683
Y zero	+0.50	+1.9286
Z zero	+0.50	+0.1000
A zero		+0.0000

**Machine Coordinates**

X	-5.7368
Y	-1.9250
Z	-4.8297
A	+0.0000

# 1 G54  
Test run

Work offset name display

Setting Work Offset #1(G54) and #2 (G55) is disabled in the first page, they only can be set in "offset measure" page. Other work offsets can be setup in the first page.

Multi DRO display can display Machine Coord's, Relative position, and Distance to Go by selecting the button next to the right side of DROs.

G92 X0 G54  
G92 Y0 G55  
G92 Z0 G56  
Cancel G57

G92 zeros can be directly set. G52 shares the same state LEDs with G92.

**Relative Position**

X zero	+0.0000
Y zero	+0.0000
Z zero	-4.9797
A zero	+0.0000

When in Relative Position mode, zero buttons are available, and clicking the zero button will reset the DRO of that axis.

**iMach III Screen**

Tool information display

**Tool Information**

T 1 1/8 end cut, new, #4

Diameter D 0.1250

Global Settings

Allow SafeZ

SafeZ DRO is in M

SafeZ DRO is in v

SafeZ is an incre

Safe\_Z 0.5

Optional

Goto SafeZ wh

**Tool Information**

T 0 Reference Tool

Diameter D 0.0000

Length H +0.0000

Go Safe Z W work +0.500

Z inhibit W work -0.100

Profile VistaMill\_inch

**Hard Limit Ref's Soft Limit**

X--	X++	Z	X	X-	X+
Y--	Y++	Y	A	Y-	Y+
Auto LMT OV		All A#		Z-	Z+
Manual OV				A-	A+

LEDs will flash when soft limits and hard limits are in active state. LEDs will flash when Machine is not Refed or DeRefed.

Safe Z coord's mode display based on the setting in Safe\_Z setup manu

Z Inhibit state display

**Tool Information**

T 0 Reference Tool

Diameter D 0.0000

Length H +0.0000

Go Safe Z M mach +0.500

Z inhibit W work -0.100

Profile VistaMill\_inch

**Ref's Soft Limit**

Z	X	X-	X+
Y	A	Y-	Y+
All	A#	Z-	Z+
		A-	A+

int. Cont. Cont. Slow Jog

**iMach III Screen**

## iMach III Screen

Manual step jog selected. Using defined Hotkey in keyboard to select axis and jog.



Step MPG is selected, Selecting different step size will effect each MPG movement. Clicking the same Step size button will change the jog mode back to Step jog mode. Axis selection is available.



Continous jog mode selected. Manually change DRO will refresh the jog rate. Using defined Hotkey in keyboard to select axis and jog.



Handheld Pendant control mode. Jog mode and Axis selection will be controlled by Pendant. Only Step size is available to be changed.



Manually change DRO will refresh the step size.



Jog disabled. No jogging or mode selection through keyboard or Pendant.

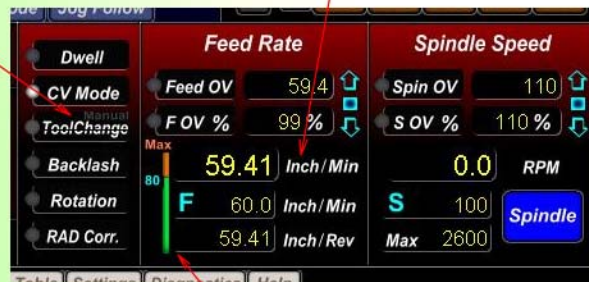


## iMach III Screen

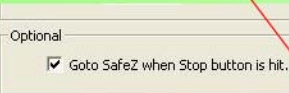


Indicate current tool change settings

Use Inch/Min or MM/Min based on current unit usage.



Dynamic displays the feedrate

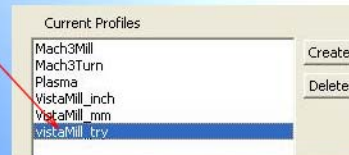


Indicates current SafeZ <-> Stop settings

## iMachIII Screen

### Installation instruction:

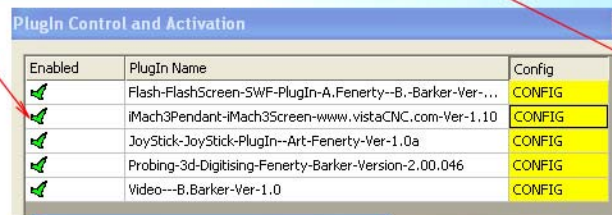
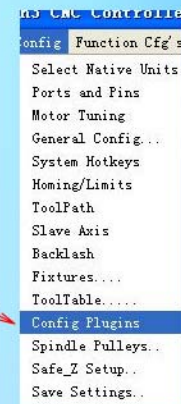
- Download "iMach3PendantPlugIn" from [www.vistacnc.com](http://www.vistacnc.com)
- Close Mach3 application.
- Unzip the downloaded file and double click iMach3PendantPlugIn.exe
- The setup will put the following files or fold into related places.
  - 1024vc.set (Screen set configuration file)
  - PlugIns\iMach3Pendant.dll (PlugIn that supports this screen set)
  - vistaCNC\Bitmaps\vistaCNC (Graphic files that support this screen set)
- You do not need to reboot the PC after installation.
- Start Mach3 application.
- For first time use, in "Session Profile", select "Create Profile".
- From "Clone From", select your most recently used and workable profile.
- Put a new profile name under "New Profile Name".
- Press OK, back to Session Profile window, select the profile just created.
- Click OK and start the application.
- Above will create a new XML profile file with the same configuration setting with your previous working profile.



[www.vistacnc.com](http://www.vistacnc.com)

## iMachIII Screen

- Select 1024vc.set file from View->Load Screen
- Enable iMach3Pendant PlugIn from Config->Config Plugins



- Click CONFIG
- Select iMach3 Screen