

iMach3 Screen




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.



The screenshot shows the iMach3 CNC Controller interface with the following sections:

- Top Menu:** File, Config, Function, Cfg's View, Wizards, Operator, PlugIn, Control, Help.
- Navigation:** Main, ToolPath, Offset Measure, Coordinates, G-Code, M-Code, Work Table, Tool Table, Settings, Diagnostics, Help.
- Current Position:** X: +0.5683, Y: +1.9286, Z: +0.1000.
- Machine Coordinates:** X: -5.7368, Y: -1.9250, Z: -4.8297.
- Tool Information:** Reference Tool, Diameter: 0.0000, Length: +0.0000, Go Safe Z: +0.500, Z Inhibit: -0.100.
- Code Editor:** Shows G-code lines such as G0 X0.000000 Y0.000000 Z0.200000, M3, S60.000000, G43H5, and various G1 moves.
- Table Display:** A 3D visualization of the tool path.
- Hard Limit / Ref's / Soft Limit:** Control buttons for X, Y, Z axes.
- Jog / Cont. / Step / Velocity / Feed / Spindle / Prop. MPG:** Multi-function jog and manual data input (MDI) controls.
- MDI Section:** Includes CycleStart, FeedHold, Stop, Rewind, Single BLK, Opt. Stop, BLK Del., Goto T. Chg, Goto Zeros, Posit. Mem., RESET, Soft Limit, Machine OnLine, Jog ON, Run/Here, Sat/Nx Line, Revers Run, Flood Ctrl, Goto Home, Posit. Retn., Dwell, CV Mode, ToolChange, Backlash, Rotation, RAD Corr., Feed OV, Feed OV %, Backlash Max, Spindle OV, Spindle OV %, Spindle RPM, and Spindle.

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

Work offset name display

1 G54
Test run

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.

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.

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

iMach III Screen

Tool information display

Tool Information

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

Diameter D 0.1250

Global Settings

Allow Safe

SafeZ DRO is in M

SafeZ DRO is in v

SafeZ is an incre

Safe_Z 0.5

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+

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.

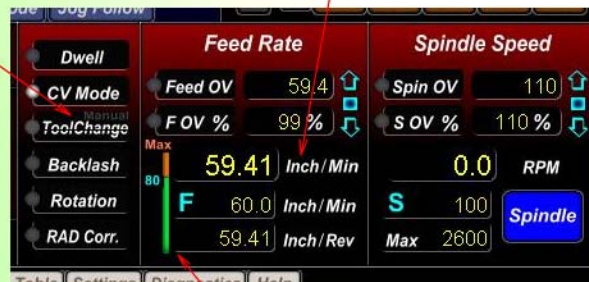


iMach III Screen



Indicate current tool change settings

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



Dynamic displays the feedrate

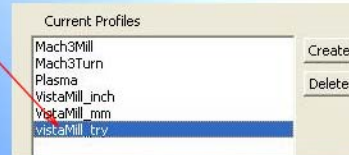
Optional
 Goto SafeZ when Stop button is hit.

Indicates current SafeZ <-> Stop settings

iMachIII Screen

Installation instruction:

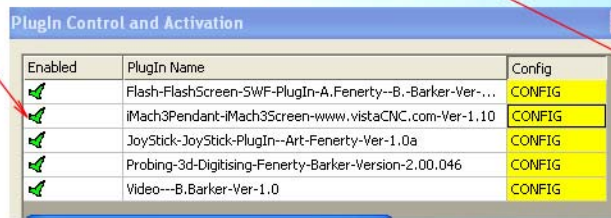
- Download "iMach3PendantPlugIn" from www.vistacnc.com
- Close Mach3 application.
- Unzip the downloaded file and double click iMach3PendantPlugIn.exe
- The setup will put the following files or fold into related places.
 - 1024vc.set (Screen set configuration file)
 - PlugIns\iMach3Pendant.dll (PlugIn 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

iMachIII Screen

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



- Click CONFIG
- Select iMach3 Screen