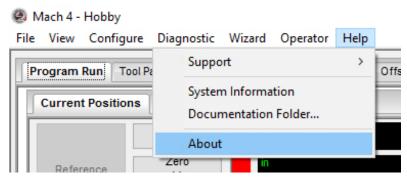
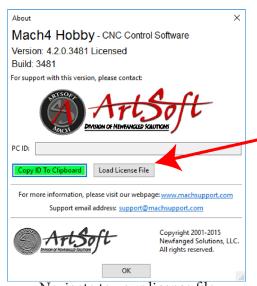
Install Mach4 Install License Import Profile Assign Pins

#### Installing the Mach4 license



Help > About



Navigate to your license file

#### Plugins

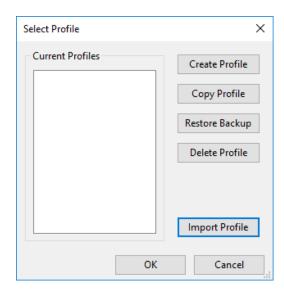
You will need to install a plugin with your UC100 or Ethernet Smooth Stepper.

UC100 plugin and manual <a href="http://cncdrive.com/UC100.html">http://cncdrive.com/UC100.html</a>

Ethernet Smooth Stepper plugin and manual <a href="https://warp9td.com/index.php/gettingstarted/setting-up-the-smoothstepper-and-mach4">https://warp9td.com/index.php/gettingstarted/setting-up-the-smoothstepper-and-mach4</a>

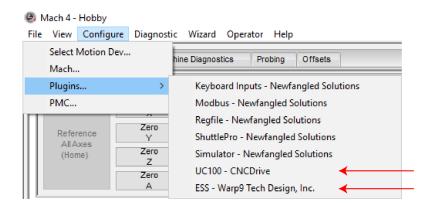
#### Importing a Profile

If you have bought a machine from us, we have a Mach4 profile for you to get started with. Please contact us if you have not recieved such profile.

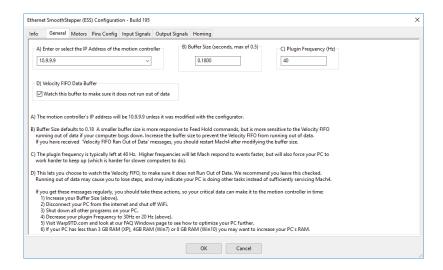


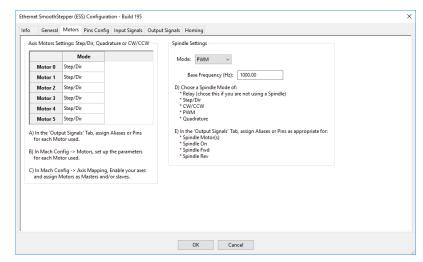
#### Configuring Mach4

Once your device's plugins are installed, you will need to map the step and direction pins. Devices must be connected to configure.

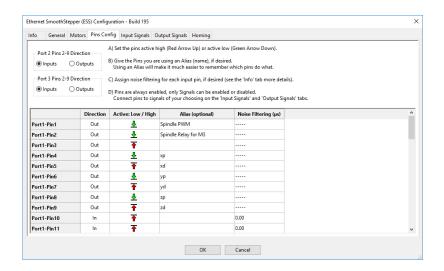


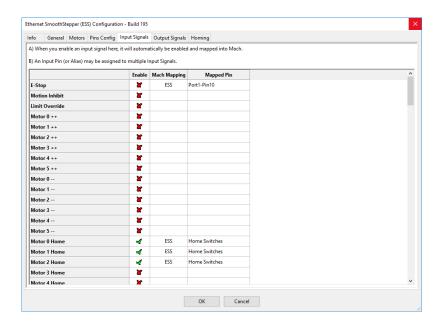
#### Configuring ESS Plugin



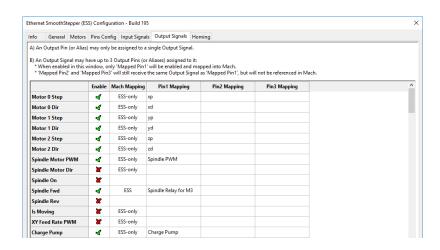


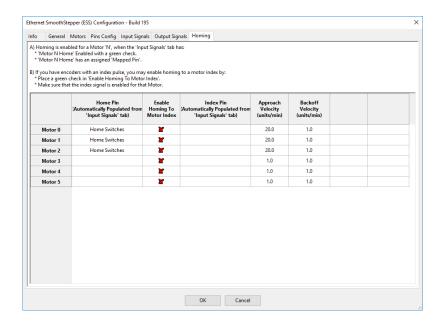
#### Configuring ESS Plugin



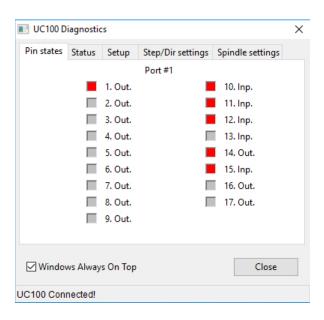


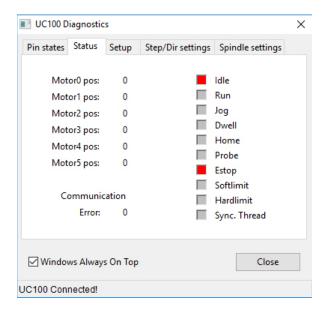
#### Configuring ESS Plugin



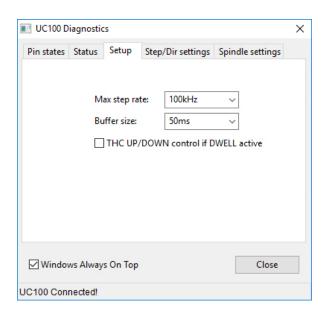


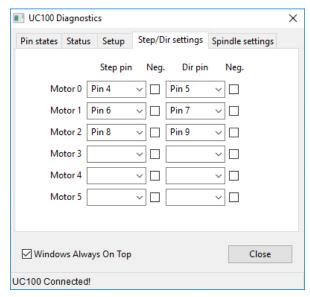
### Configuring UC100 Plugin



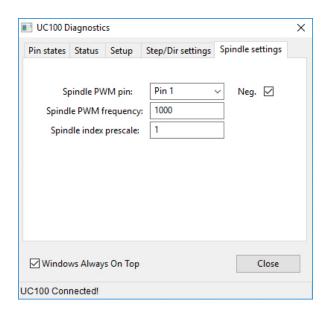


### Configuring UC100 Plugin

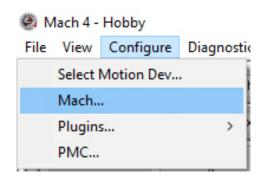




#### Configuring UC100 Plugin

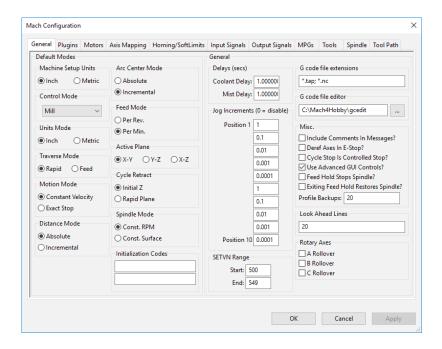


Once you map your pins from the UC100, you need to assign the pins in Mach config.

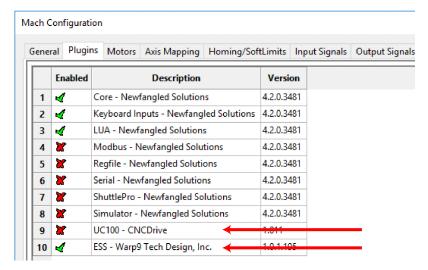


#### Configuring Mach4(con't)

This is the first tab of the configuration. If you are just getting started, it's best to leave this page alone.

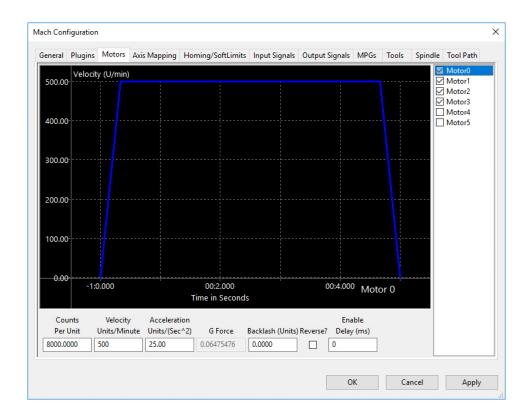


You will have to enable the hardware plugin that you plan on using.



#### Configuring Mach4(con't)

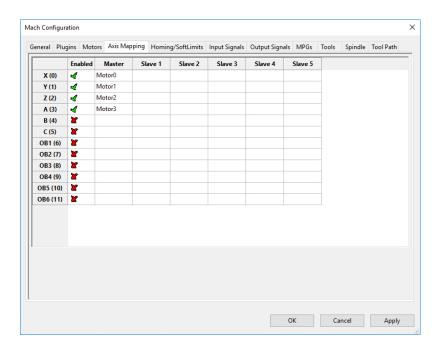
This is your motor tuning page. We will be covering how to set up your scaling and steps per unit further into the manual.



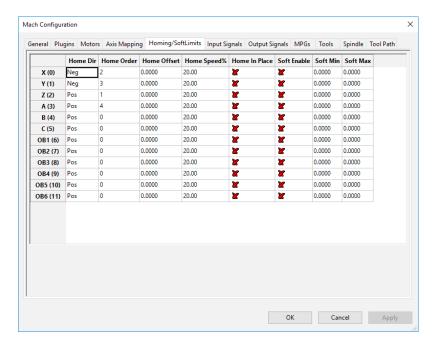
#### Configuring Mach4(con't)

Here, we are mapping the motors that we assigned from the hardware plugins page.

Motor 0 will be your X-Axis Motor 1 will be your Y-Axis Motor 2 will be your Z-Axis Motor 3 will be your A-Axis

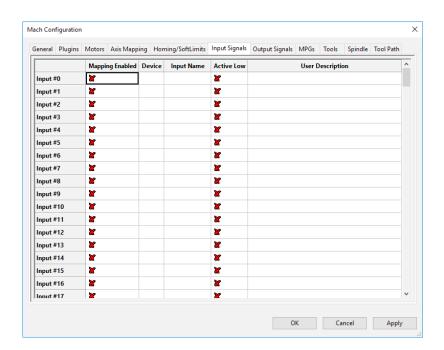


Homing and SoftLimits tab allows you to set imaginary bounderies around your table. This is useful if you only have home switches and no limit switches.



### Configuring Mach4(con't)

Input signals is where you assign your limit and home switches and any other inputs like a probe or a tool height setter.



#### Configuring Mach4(con't)

Once you assign your motors to the appropriate axes, you will want to set up your scaling in motor tuning. There's an easy wizard called "Steps Per Unit Calculator Basic"

#### Select your Axis

Input your current steps per unit (Configure > Mach> Motors)

Input a distance you want your machine to move. (Start with 5 or something low)

Input move velocity (100in/min)

Once you click Incremental Move, the machine will move what it thinks is your "input distance"

Take the physical distance and input it into "Actual Move Distance"

Click recalculate

