VR Milling Version 5
QuickStart Reference Card

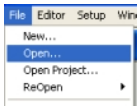
Note: Not all windows and main menus are shown in the example screenshot.

Note: The positions of the various windows and toolbars may be different on your VR CNC Milling software (since their positions are user defined).

Start the software

Double click this icon

Open a CNC file



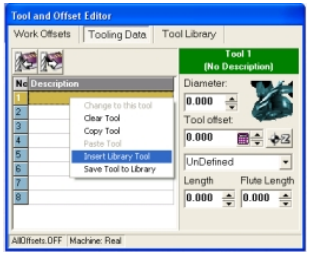
Select File->Open from the menu.

TIP - try browsing these directories for a *.fnc file
C:\Denford\Data\
C:\Program Files\Denford\VRMilling5\CNC Files

Configure a tool

Click this icon

Select “Tooling Data” tab
Right click on tool 1 description field.
Select Insert Library tool from the pop up menu.
Choose a suitable tool from the list.



Connect to the machine

Click this icon

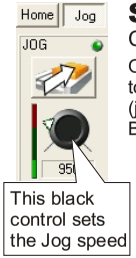
If this fails to find a Denford machine connected check:
Machine powered on; RS232 or USB (option) cable is connected;
RS232 port is not being used by other software (eg, ActiveSync);
USB device driver (Baldor USB) has been loaded properly.

Home the axes

Click this icon

The machine powers up in home mode, and will prevent access to any other modes until you have homed all the axes.

Select JOG mode

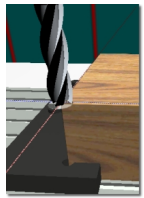


This black control sets the Jog speed

Click this JOG button

Once you have placed your billet onto the machine, you have to ‘tell’ the machine whereabouts the billet is. Do this by moving (jogging) the tool to touch the billet.
By default, the axes are controlled by the following keys:
X axis: Arrow Left & Arrow Right (Cursor keys)
Y axis: Arrow Up & Arrow Down (Cursor keys)
Z axis: Page Up & Page Down
Rotary Axis: [>] & [/?] (Point and Slash keys)

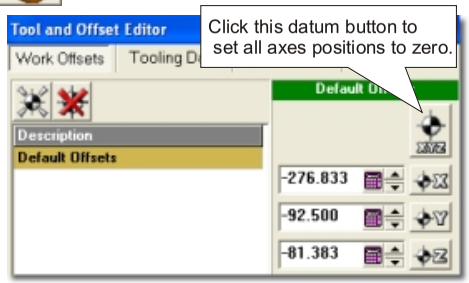
TIP - Re-click the JOG button to activate jogging.
This is shown by the Green LED underneath it, which turns red when jogging is disabled



Jog the tool to the top, left, front corner of the work piece. Then click the datum XYZ button ->

Set work piece offset

Click this icon, then select **Work Offsets**



Select AUTO mode and run program

This TURBO button will speed up all CNC programs. Use for big 3D model programs

For best results:
press cycle stop (red) then cycle rewind (blue) then cycle start (green)