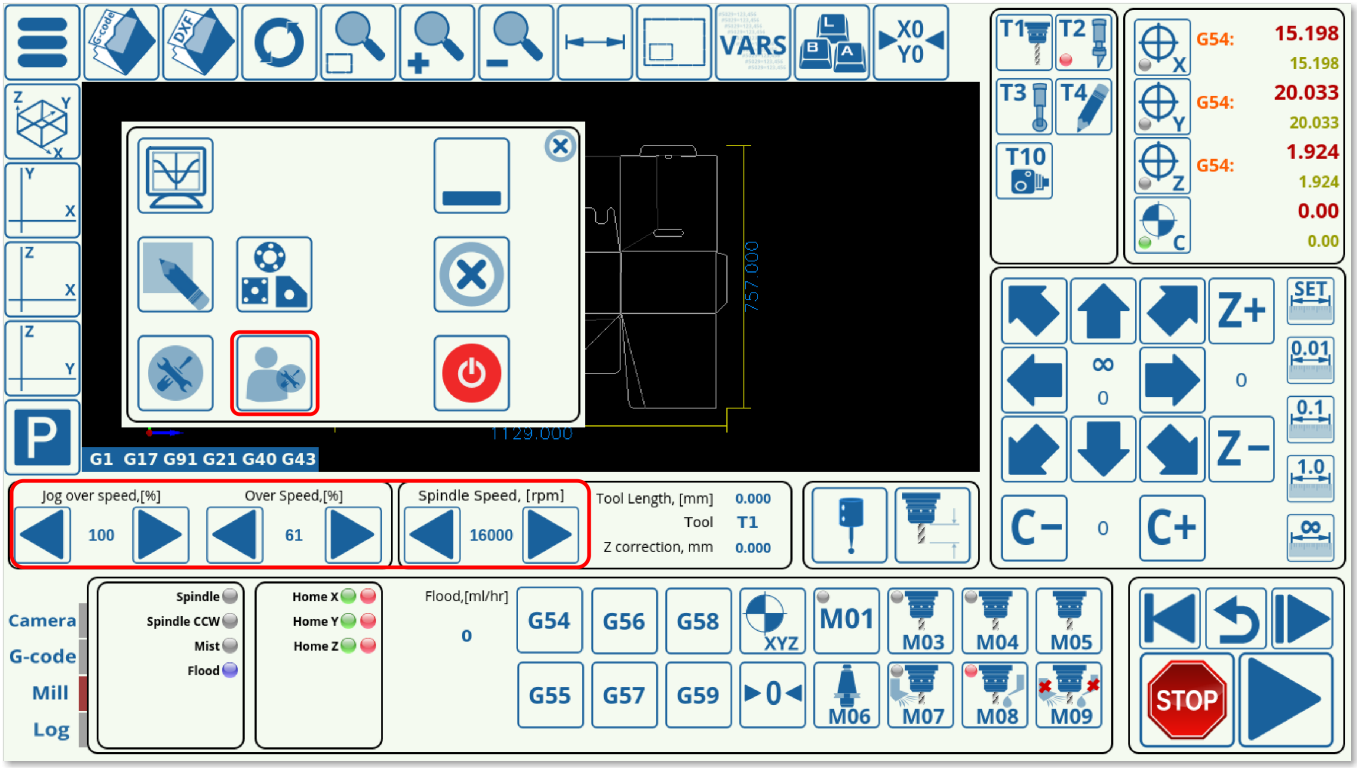
Common Item List



The commonly used items are typically those present on the main screen of myCNC software, or within the User Settings. By using these items via the Connection settings window (described in the MyCNC Configuration Dialogs manual), the user can make changes to the existing parameters and on-screen elements on-the-fly through the use of an outside input (such as a potentiometer, an encoder, etc). Items are typically the variables that are directly changed by the user (for a wider variety of configurations, Global Variables should be used instead). Below is a list of such commonly-used items with their descriptions:

Item	Description
motion-overspeed	Controls the feed rate overspeed from the main screen of myCNC software (can also set motion-overspeed-inc or motion-overspeed-dec to incrementally increase/decrease the value). The overspeed is measured in percent of the default motion speed (100 percent is the default). It is possible to set the maximum/minimum bounds for this item in Settings > Config > Motion (the safe range is between 5 and 150 percent for the ET6, ET7 and ET10 controllers).
jog-overspeed	Controls the jog overspeed (can also set jog-overspeed-inc and jog-overspeed-dec to incrementally increase/decrease the value).
spindle-speed	Controls the spindle rotation speed, in rpm
motion-feed-speed-xy	Displays the XY feed rate in mm/min
motion-feed-speed-z	Displays the Z feed rate in mm/min
motion-feed-speed-abc	Displays the C feed rate in degrees/second
motion-rapid-speed-xy	Rapid XY speed in mm/min
motion-rapid-speed-z	Rapid Z speed in mm/min
motion-rapid-speed-abc	Rapid C speed in degrees/second
motion-jog-speed-xy	XY jog speed in mm/min
motion-jog-speed-z	Z jog speed in mm/min

Item	Description
motion-jog-speed-abc	C jog speed in degrees/second
motion-acceleration-xy	Acceleration for the XY plane
motion-acceleration-z	Acceleration for the Z axis
motion-acceleration-abc	Acceleration for the C axis
plc-var-spindle-on-delay	Spindle ON delay, in seconds. Done through PLC
plc-var-spindle-off-delay	Spindle OFF delay, in seconds
plc-var-lift-speed	Sets the lift speed of the spindle, in mm/min
motion-creep-speed-percentage	Motion creep speed (THC), in percent of default value
motion-creep-speed-time	Motion creep time, in seconds
cutting-time-pre-off	Cutting time for pre-off, in seconds
plc-var-drill-probe-speed	Probe speed, in mm/min
plc-var-drill-speed	Drill speed, in mm/min
plc-var-drill-lift-height	Drill lift height, in mm
tool-diameter-1	Tool diameter / Kerf, in mm
plc-var-ihc-ignition-height	Ignition Height (THC)
plc-var-ihc-correction-height	Correction height for initial height control
plc-var-ihc-pierce-height	Pierce height (THC)
plc-var-ihc-pierce-time	Pierce time, in seconds (THC)
thc-turn-on-delay	THC Start delay, in seconds
plc-var-ihc-cutting-height	Cutting height for initial height control
thc-time-pre-off	Pre-off time for THC, in seconds
job-time-elapsed	Elapsed job time. Used for the program progress window
job-time-estimated	Estimated job time. Used for the program progress window.
plc-var-thc-enabled	A toggle item, indicating whether the THC is enabled or not
plc-var-ihc-enabled	A toggle item, indicating whether the IHC is enabled
plc-var-thc-avc-start	A switch item, denoting the possible arc voltage control and whether or not there is a THC start delay

These items, along with others (such as items for displaying the homing status of the machine, etc), can be used by inputting their names into the respective fields in the Connections settings tab.

A fair number of newer items are currently displayed as *item:cnc-gvariable-NUMBER*, such as item:cnc-gvariable-7595 for the Alarm THC Voltage Rise. These act similarly to the classic Items, by storing a certain value which can then be edited through some input. The global variables these items refer to can be found in the Global Variables list.