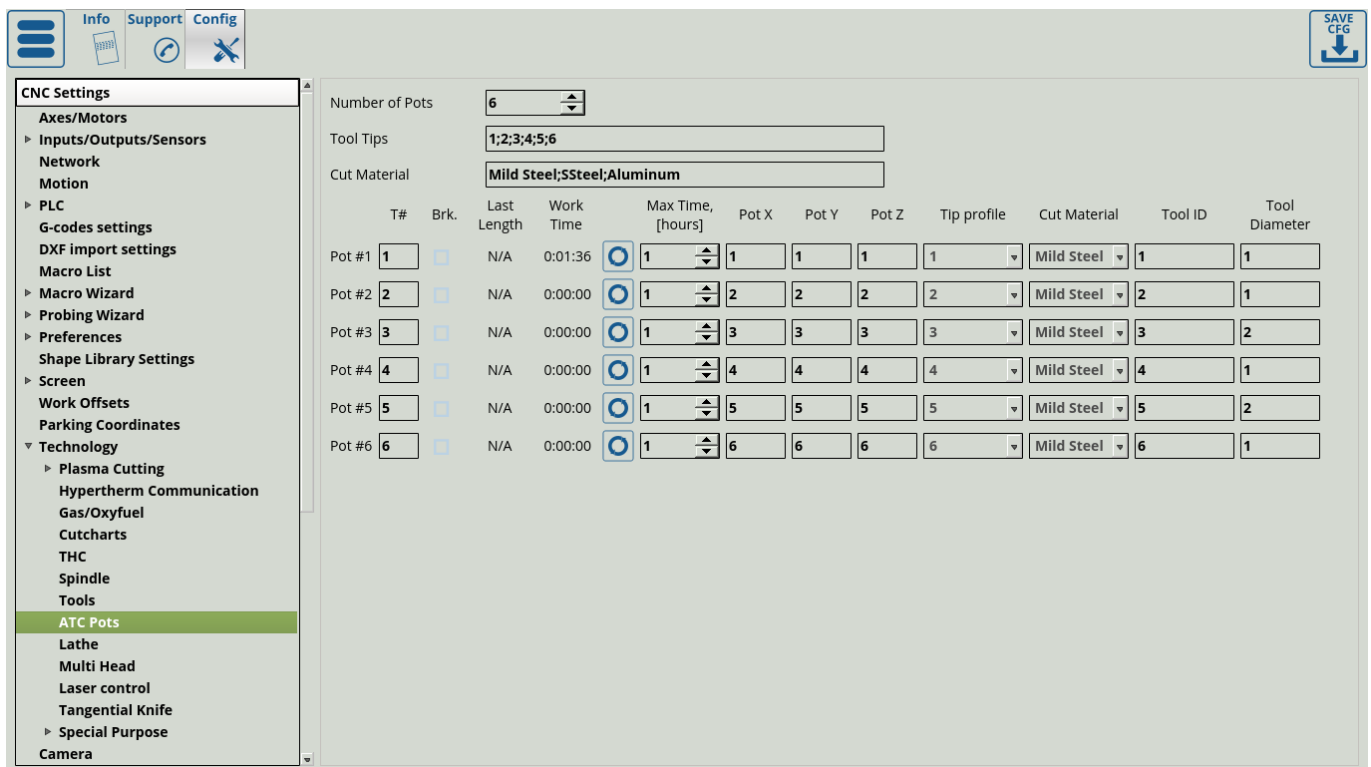


Dental Mill

The myCNC software features a number of options that make it convenient in dental mill setup usage.

A prime example is the usage of ATC Pots (*NOTE: This is an experimental feature that is currently in beta*). These allow for the user to set up machines with long automated runs, with features such as Work Time/Max Work Time, different pots assigned to specific tip profiles and working materials, etc. This functionality is also described in the following manual: [MyCNC Configuration Dialogs - ATC Pots](#).



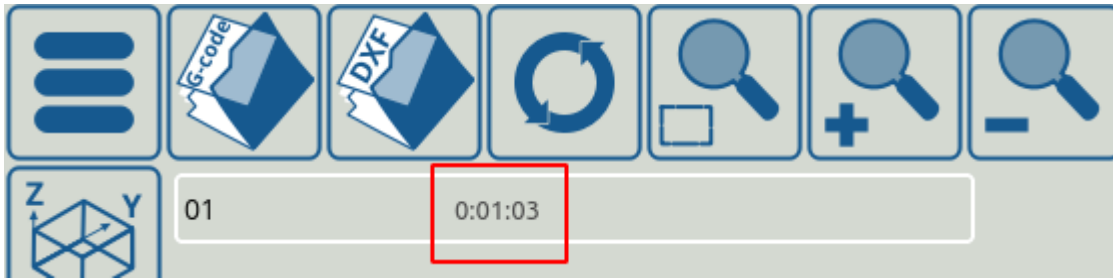
An example of a simple on-screen visualization for the tool time could then look something like this:

```
<gitem where="xp" name="testpotswg" position="80;80" width="500"
height="300" bgColor="##b-main"
type="myitems"></gitem>

<gitem where="testpotswg" name="ltoolview1" type="toolview"
position="5;5" width="400" height="35" bgColor="##b-main"
border-color="white" border-width="2" border-radius="3" pot="1"
tnumber="5;5;25;25;19"
ttime="140;5;200;25;10"

tselection="#ea9a00;#936B1E" />
```

This sample UI element would then look the following way:



A more complex UI toolview element may look the following way:

```
<gitem where="toolsview" name="1toolview13" type="toolview"
position="450;170" width="68" height="44"
border-color="#3d3c3c" border-width="1" border-radius="0"
pot="13" fontFamily="Roboto" fontStyle="bold"
tnumber="6;5;25;16;19" tmaterial="35;8;30;12;10" ttip="12;30;20;10;10"
tdiameter="40;30;20;10;10" tprogress="1;22;66;8"
tselection="#ea9a00;#936B1E" />
```

In the example above, the following attributes are used:

- tnumber for Tool #
- tmaterial for Tool Material (from ATC Pots)
- ttip for the Tip Profile
- tdiameter for the tool's diameter
- tprogress for a visual indication of the tool usage progress (using the Tool Working Time and Max Working Time)

To find out more about screen editing, please consult the following manual: [Screen Editing and Configuration](#)

Relevant global variables

The following global variables are useful for a dental mill (due to their functionality being tied to the ATC pots):

Global variable name	Number	Comment
GVAR_TOOLPOT_01_TIME	6120	Current work time, in s, for tool pot 1
GVAR_TOOLHOLDER_01_POSITION	6121	+6. Tool pot 01 X position
	6122	+6. Tool holder 01 Y position
	6123	+6. Tool holder 01 Z position

This is repeated every 10 digits - for instance, the X position for each subsequent pot is defined as:

Global variable name	Number	Comment
GVAR_TOOLHOLDER_02_POSITION	6131	+6
GVAR_TOOLHOLDER_03_POSITION	6141	+6
GVAR_TOOLHOLDER_04_POSITION	6151	+6
GVAR_TOOLHOLDER_05_POSITION	6161	+6

[Expand the rest of the table](#)

GVAR_TOOLHOLDER_06_POSITION	6171	+6
GVAR_TOOLHOLDER_07_POSITION	6181	+6
GVAR_TOOLHOLDER_08_POSITION	6191	+6
GVAR_TOOLHOLDER_09_POSITION	6201	+6
GVAR_TOOLHOLDER_10_POSITION	6211	+6
GVAR_TOOLHOLDER_11_POSITION	6221	+6
GVAR_TOOLHOLDER_12_POSITION	6231	+6
GVAR_TOOLHOLDER_13_POSITION	6241	+6
GVAR_TOOLHOLDER_14_POSITION	6251	+6
GVAR_TOOLHOLDER_15_POSITION	6261	+6
GVAR_TOOLHOLDER_16_POSITION	6271	+6
GVAR_TOOLHOLDER_17_POSITION	6281	+6
GVAR_TOOLHOLDER_18_POSITION	6291	+6
GVAR_TOOLHOLDER_19_POSITION	6301	+6
GVAR_TOOLHOLDER_20_POSITION	6311	+6
GVAR_TOOLHOLDER_21_POSITION	6321	+6
GVAR_TOOLHOLDER_22_POSITION	6331	+6
GVAR_TOOLHOLDER_23_POSITION	6341	+6
GVAR_TOOLHOLDER_24_POSITION	6351	+6
GVAR_TOOLHOLDER_25_POSITION	6361	+6
GVAR_TOOLHOLDER_26_POSITION	6371	+6
GVAR_TOOLHOLDER_27_POSITION	6381	+6
GVAR_TOOLHOLDER_28_POSITION	6391	+6
GVAR_TOOLHOLDER_29_POSITION	6401	+6
GVAR_TOOLHOLDER_30_POSITION	6411	+6
GVAR_TOOLHOLDER_31_POSITION	6421	+6
GVAR_TOOLHOLDER_32_POSITION	6431	+6
GVAR_TOOLHOLDER_33_POSITION	6441	+6
GVAR_TOOLHOLDER_34_POSITION	6451	+6
GVAR_TOOLHOLDER_35_POSITION	6461	+6
GVAR_TOOLHOLDER_36_POSITION	6471	+6
GVAR_TOOLHOLDER_37_POSITION	6481	+6
GVAR_TOOLHOLDER_38_POSITION	6491	+6
GVAR_TOOLHOLDER_39_POSITION	6501	+6

Similarly, the work time for tool pot 39, for example, is defined by

GVAR_TOOLPOT_39_TIME	6500
----------------------	------

Currently, 40 pots are reserved, with ten global variables for each pot.

Dental Mill Example



Video

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