

Hard- und Software Burkhard Lewetz

Technical Software Engineering

How does it work...

...with *WinPC-NC* ?

InPosition signals

Light
USB
X Professional

From version V3.41/11 on, *WinPC-NC Professional* can generate output signals when the machine is or the three axes XYZ are in the reference position or park position or on the current zero point.



Parameter

There are three new entries in the list of definable outputs, to which output lines are assigned as usual.

Furthermore, the position definitions for the zero point and the parking position from the coordinate settings and the reference positions from the basic settings reference travel are used as comparison values.

The screenshot shows the 'Parameters' dialog box with the 'Basic Settings' tab selected. The 'Ports' sub-tab is active, showing two tables for pinning and several configuration options.

Inputs	Pinning
I255 Start	LPT1 Pin15
I254 Stop	n/a
I247 NotReady	n/a
I235 Homing switch X	LPT1 Pin12 inv
I236 Homing switch Y	LPT1 Pin11

Selected: LPT1 Pin15 | Accept

Outputs	Pinning
Q229 free	n/a
Q230 free	n/a
Q200 InPosition ZeroXYZ	EA15 Pin13
Q201 InPosition ParkXYZ	n/a
Q202 InPosition RefXYZ	EA15 Pin15 inv

Selected: n/a | Accept

Options:

- USB
- USB ST
- USB nc100

Options:

- CPU
- CPU+EA160802
- CPU+LPT2
- CPU+LPT2 BiDi

Port address:

LPT1: hex

LPT2: hex

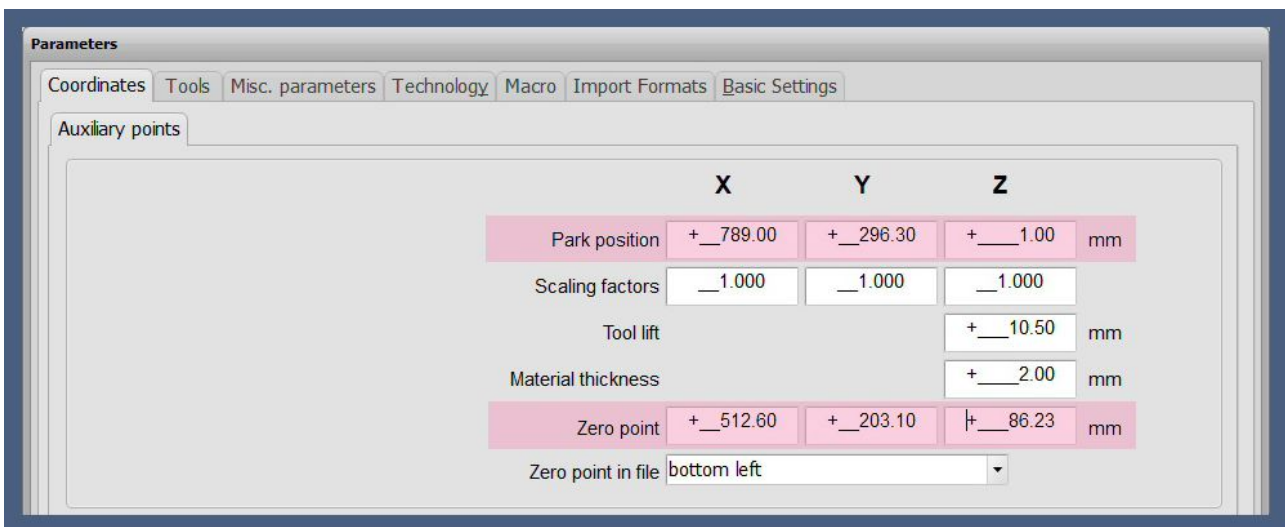
Pinout test

Buttons: [Green Checkmark] [Red X] [Save Icon]

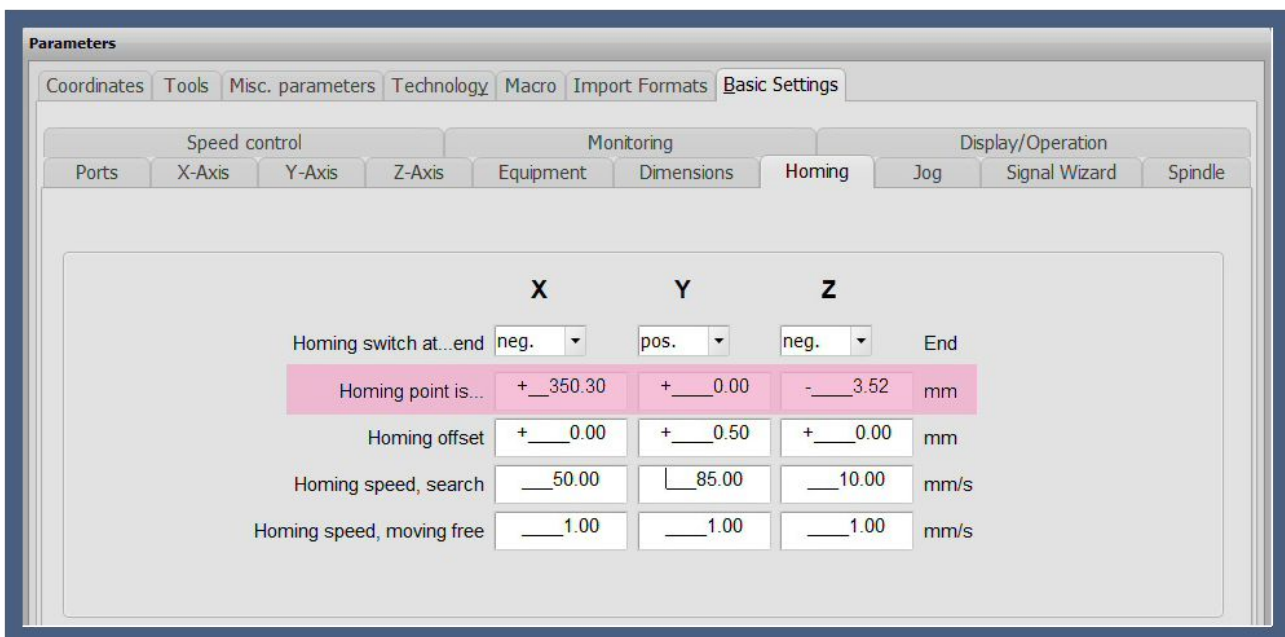


How it works

With a cycle time of 100ms *WinPC-NC* constantly checks whether the current machine positions have reached these target positions within a tolerance of 50µm or came to a standstill on them and outputs the assigned signals. In case of a movement away from the target position the output goes off as soon as the target window of 50µm has been left.



Parameter-Coordinates, definition of parking position and zero point



Parameter-Basic settings-Homing positions