



Software quick start guide

For Hobby-Line, Basic-Line, and Compact-Line
with the C1 or C3 controller
and Beamicon2 Basic

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MPF.CL.####.01.IMK
MPF.BL.####.01.IMK
MPF.HL1.####.SET

Version 1.3.0

1. Connection of control and PC

Connect the PC to the mini controller via the network. When using Beamicon2 as control software, it does not matter whether the connection is made directly or via a switch.

2. Software download and installation

Download the Beamicon2 software installer. The link:

upload.sorotec.de/beamicon2/basic/Beamicon2B_setup.exe

Carry out the installation, switch on the controller and start the software as administrator (right click - „Start as administrator“).

3. Selection of the machine type

After starting the program for the first time, a list appears from which you can select your machine (see Fig. 1). The appropriate parameters are then entered automatically.* The previously usual transfer of parameters by means of an .ini file is no longer necessary.

4. Connection of software and control

Also only when the program is started for the first time, the message „Hardware problem“ appears. (Fig. 2) Click on „Open dialog“.

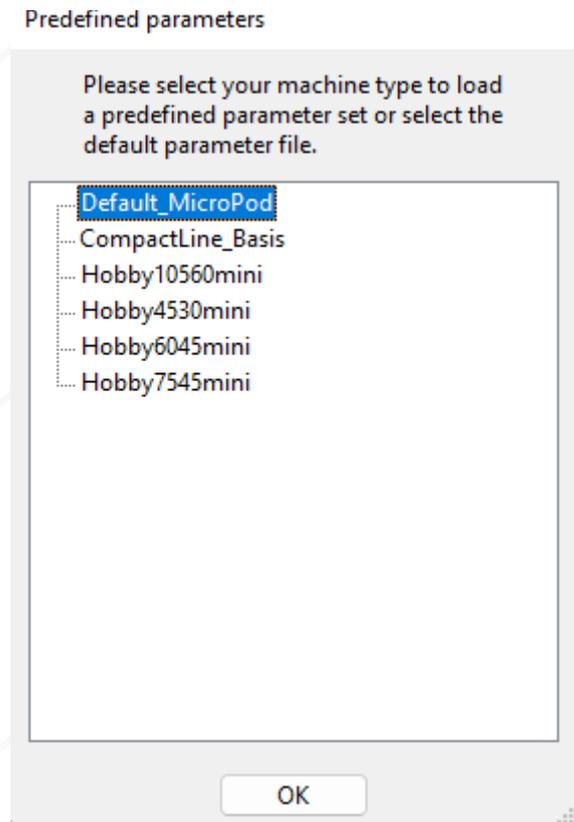


Fig. 1: Selection of the machine type

Note:

For both the Basic and Compact Line, select the entry "CompactLine_Basis".

*** The travel paths of the axes must be entered manually for these types.**

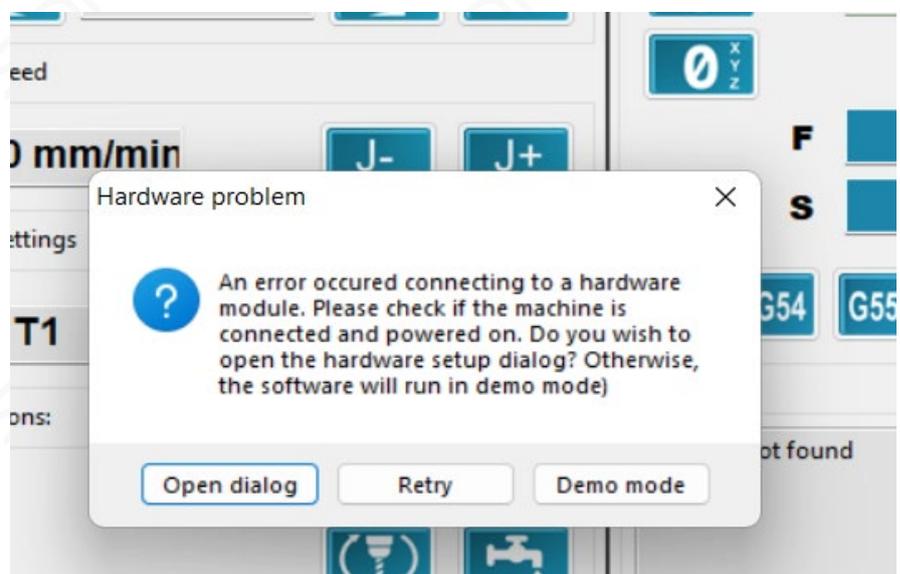


Fig. 2: Message after the first start

In the window that now appears, the mini-controller is available for selection under “recognized hardware” as “MicroPod Benezan Electronics” (Fig. 3). If the list is empty, click on „Search network“. The control should now be recognized at the latest.

Select the entry in the list and click on „Connect“. The entry of the control now changes from the upper to the lower list „connected hardware“ (Fig. 4). Click on „Save“.

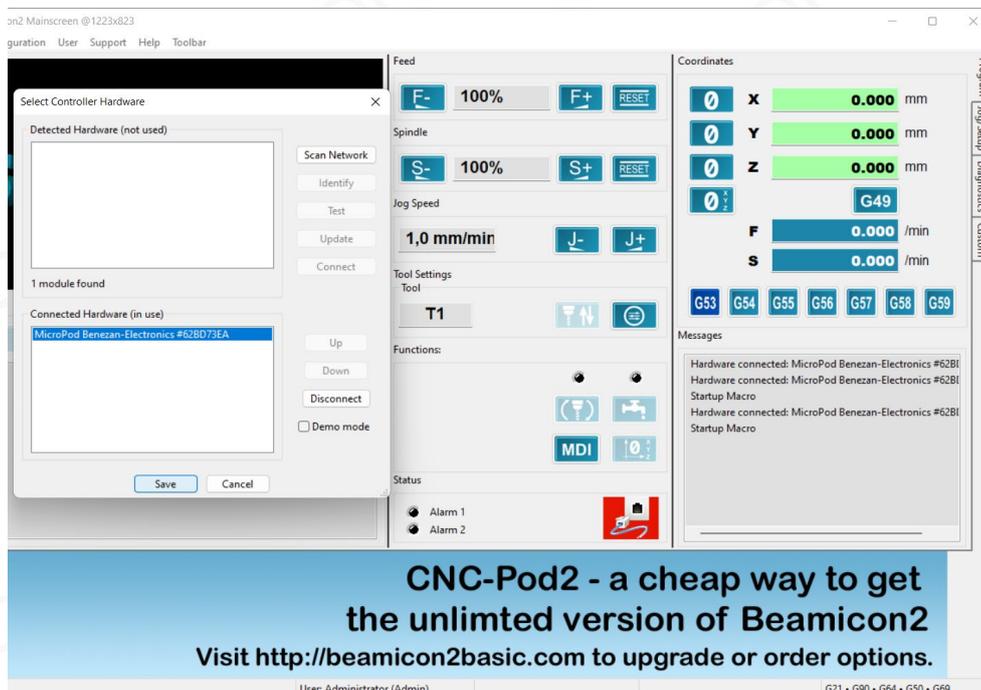


Fig. 3: Control recognized

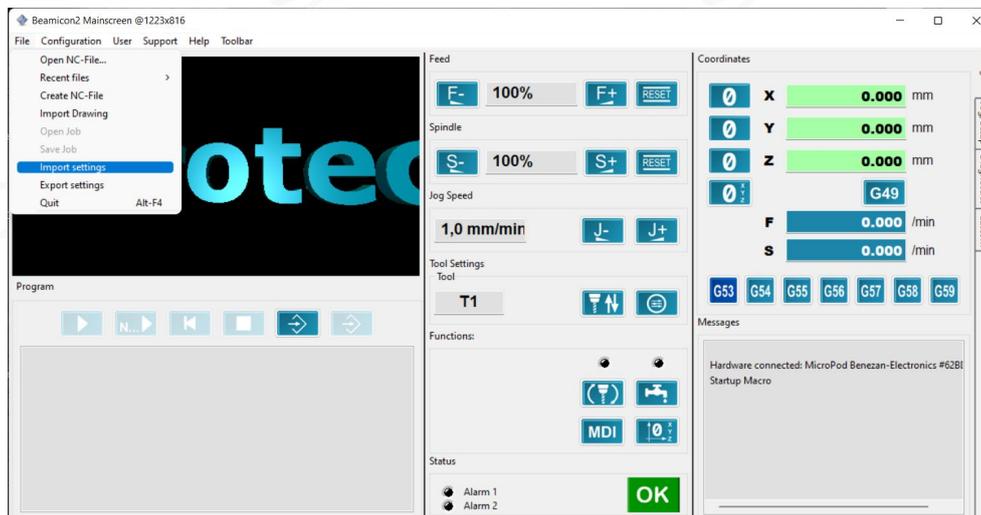


Fig. 4: Controller connected

5. Functional test

Check that all three axes are running in the correct direction. To do this, try to control the machine with the arrow keys.

Note:

The Hobby Line has a different axis assignment than usual for Sorotec machines. The company standard is „Long axis is X.“ Figures 5a (Hobby Line) and 5b (Basic and Compact Line) show the difference in keyboard operation.



Attention!

Only move the axes a little at a time. Since the first reference run does not take place until the next step, there is a risk of damaging the machine by colliding with a mechanical stop.

6. Reversal of direction

If the direction of movement of an axis turns out to be opposite to the arrow keys, the associated motor does not have to be rewired separately. Beamicon2 offers the possibility to reverse the direction in the settings.

To do this, open the “Machine” item in the “Configuration” menu. In the window that then appears, select the „Axis parameters“ tab and then the relevant axis at the top left. You can find the checkbox for reversing the direction in the lower left part of the window (see Fig. 6 on the next page).

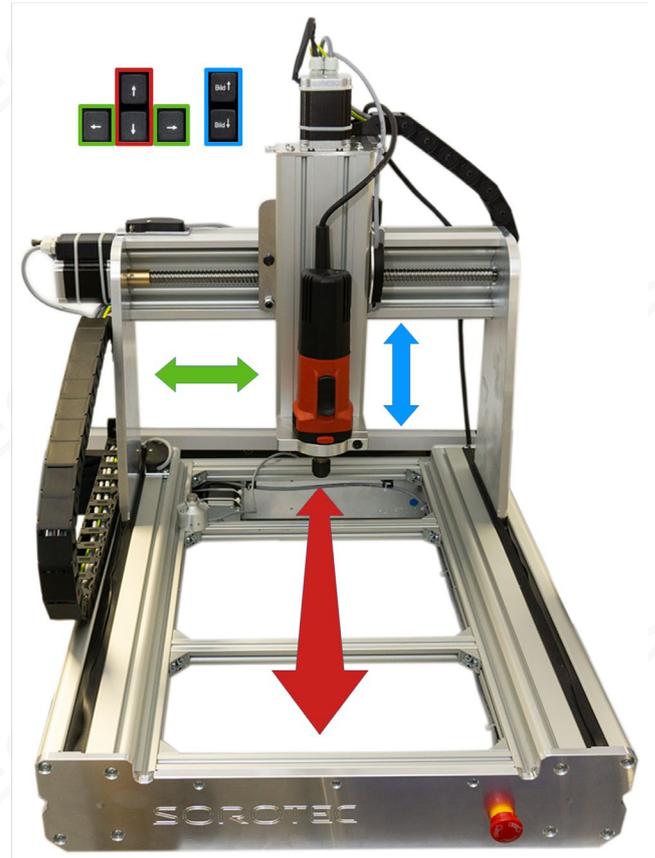


Fig. 5a: Assignment of the axes to the arrow keys of the PC-keyboard

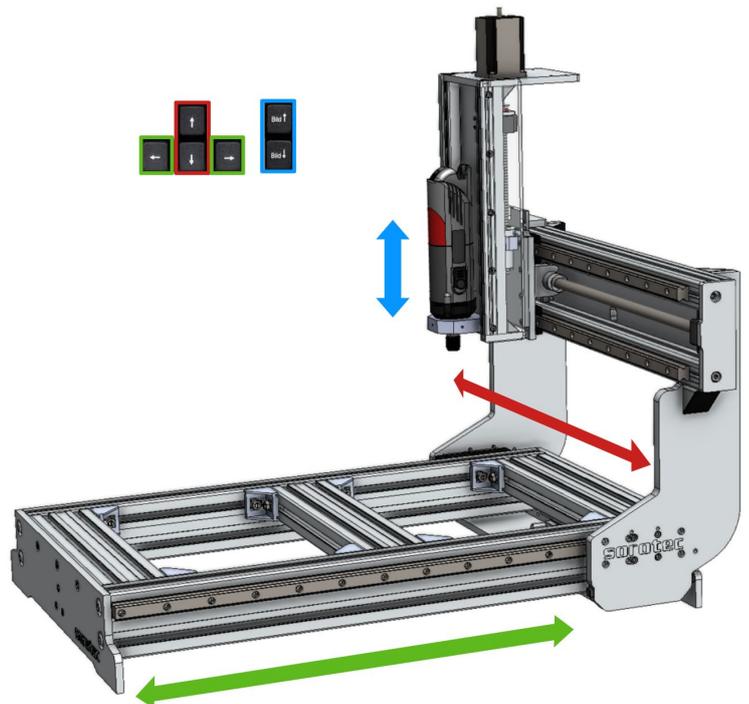


Figure 5b: Assignment of the axes of a Basic Line to the arrow keys of the PC keyboard

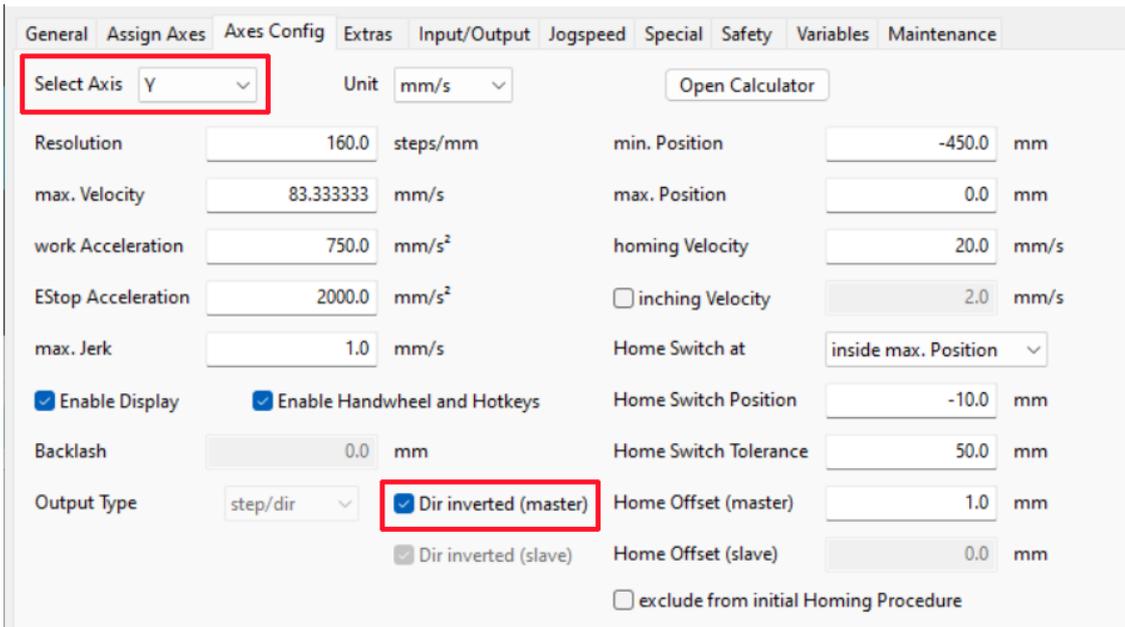


Fig. 6: Reversal of the direction of movement in the machine configuration

7. Z0 height tool length sensor

First measure the switching height of your tool length sensor with a caliper. To do this, press the sensor with the caliper until you hear the trigger click. Read the height and write down the value.

In the “Configuration - Machine” menu, select the “Variables” tab. Enter the measured release height in point #953 “tool length probe height for Z0 finder”. (see Fig. 7).

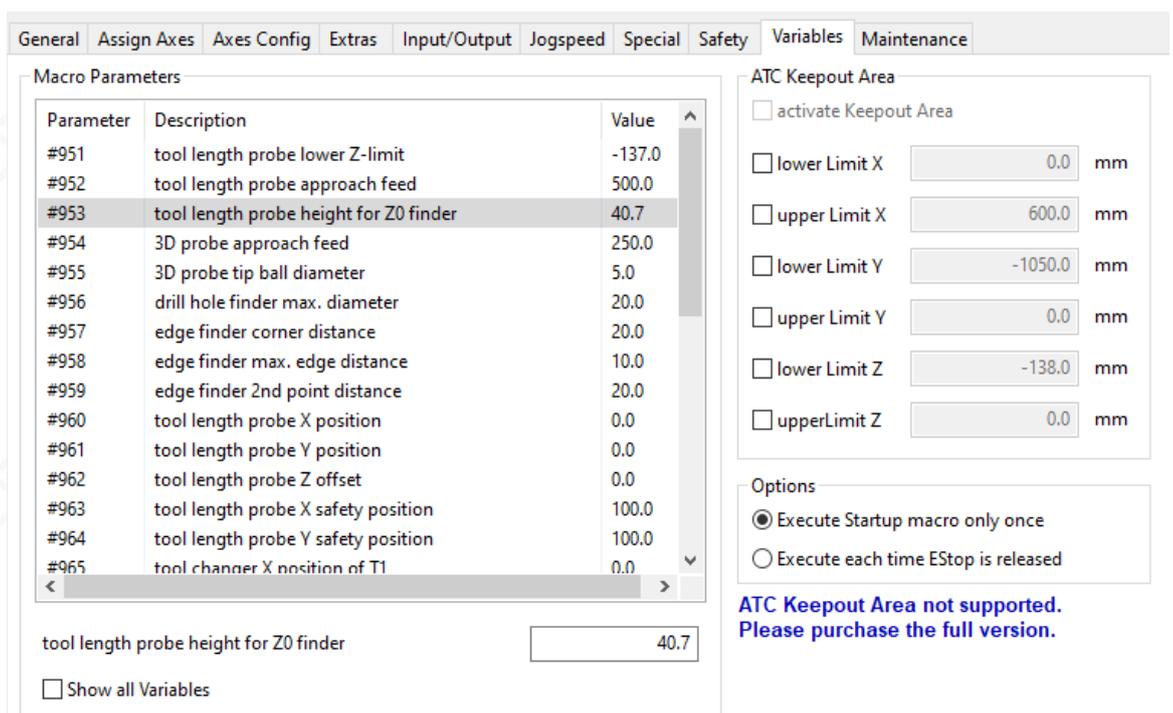


Fig. 7: The tool length probe height for Z0 finder

8. Reference run

In the menu under “Toolbar” select the entry “Show Toolbar” to display the normal user interface.



Click on the Reference run button in the „Functions“ field. The machine now moves all axes until the reference switch is triggered. The zero point of the machine coordinates is thus determined.

Everything else, for example loading the milling data, can be found in the software manual.