

# Stepconf - Stepper Configuration Wizard

Cancel



## Base Information

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Machine Name:

4060-Mill

Configuration directory:

~/linuxcnc/configs/4060-Mill

Axis configuration:

XYZ

Reset Default machine units:

MM

Driver characteristics: (Multiply by 1000 for times specified in  $\mu$ s or microseconds)

Driver type:

Other

### Driver Timing Settings

Step Time: 5000 - + ns

Step Space: 5000 - + ns

Direction Hold: 20000 - + ns

Direction Setup: 20000 - + ns

One Parport  Two Parports

Base Period Maximum Jitter: 20000 - + ns

Test Base  
Period Jitter

Min Base Period: 35000 ns  
Max step rate: 28571 Hz

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## Parallel Port 1

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Outputs (PC to Mill):

Invert

Inputs (Mill to PC):

Invert

Pin 1:	ESTOP Out	<input type="checkbox"/>
Pin 2:	X Step	<input type="checkbox"/>
Pin 3:	X Direction	<input checked="" type="checkbox"/>
Pin 4:	Y Step	<input type="checkbox"/>
Pin 5:	Y Direction	<input type="checkbox"/>
Pin 6:	Z Step	<input type="checkbox"/>
Pin 7:	Z Direction	<input type="checkbox"/>
Pin 8:	A Step	<input type="checkbox"/>
Pin 9:	A Direction	<input type="checkbox"/>
Pin 14:	Spindle ON	<input checked="" type="checkbox"/>
Pin 16:	Spindle PWM	<input checked="" type="checkbox"/>
Pin 17:	Spindle CW	<input checked="" type="checkbox"/>

Pin 10:	ESTOP In	<input type="checkbox"/>
Pin 11:	Both Limit + Home Y	<input checked="" type="checkbox"/>
Pin 12:	Both Limit + Home Z	<input checked="" type="checkbox"/>
Pin 13:	Probe In	<input checked="" type="checkbox"/>
Pin 15:	Both Limit + Home X	<input checked="" type="checkbox"/>

Parport Base Address:

0

Output pinout presets:

Sherline

Preset

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## Options

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Use AXIS Screen  Use Gmoccapy Screen

Onscreen prompt for manual tool change

Include Halui user interface component

Include custom PyVCP GUI panel

### ▼ Set pyVCP options

Blank program

Spindle speed display

Existing custom program

Include connections to HAL

Display  
sample  
panel

Include Classicladder PLC

▶ Set Ladder Options

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## Axis X

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Motor steps per revolution:

200.0

Test this axis

Driver Microstepping:

8.0

Pulley teeth (Motor:Leadscrew):

1.0

: 1.0

Leadscrew Pitch:

5.0

mm / rev

Maximum Velocity:

50.0

mm / s

Maximum Acceleration:

400.0

mm / s<sup>2</sup>

Home location:

0.0

Table travel:

0.0

to 400.0

Home Switch location:

0.0

Home Search velocity:

1.5

Home Latch direction:

Same

Time to accelerate to max speed:

0.1250 s

Distance to accelerate to max speed:

3.1250 mm

Pulse rate at max speed:

16000.0 Hz

Axis Scale:  $200 \times 8 \times (1.0 + 1.0) \times 0.200 =$

320.0 Steps / mm

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## Axis Y

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Motor steps per revolution:

200.0

Test this axis

Driver Microstepping:

8.0

Pulley teeth (Motor:Leadscrew):

1.0

: 1.0

Leadscrew Pitch:

5.0

mm / rev

Maximum Velocity:

50.0

mm / s

Maximum Acceleration:

400.0

mm / s<sup>2</sup>

Home location:

0.0

Table travel:

0.0

to 600.0

Home Switch location:

0.0

Home Search velocity:

1.5

Home Latch direction:

Same

Time to accelerate to max speed:

0.1250 s

Distance to accelerate to max speed:

3.1250 mm

Pulse rate at max speed:

16000.0 Hz

Axis Scale:  $200 \times 8 \times (1.0 + 1.0) \times 0.200 =$

320.0 Steps / mm

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## Axis Z

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Motor steps per revolution:

200

Test this axis

Driver Microstepping:

8.0

Pulley teeth (Motor:Leadscrew):

1.0

: 1.0

Leadscrew Pitch:

5.0

mm / rev

Maximum Velocity:

41.0

mm / s

Maximum Acceleration:

300.0

mm / s<sup>2</sup>

Home location:

0.0

Table travel:

0.0

to 100.0

Home Switch location:

0.0

Home Search velocity:

1.5

Home Latch direction:

Same

Time to accelerate to max speed:

0.1367 s

Distance to accelerate to max speed:

2.8017 mm

Pulse rate at max speed:

13120.0 Hz

Axis Scale:  $200 \times 8 \times (1.0 \div 1.0) \times 0.200 =$

320.0 Steps / mm

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# Spindle

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PWM Rate: 1000.0 Hz Enter 0 Hz for "PDM" mode

Calibration:

Speed 1: 100.0 PWM 1: 0.2

Speed 2: 800.0 PWM 2: 0.8