Repetier-Firmware configuration tool for version 0.92.9 version

Start | General | Mechanics | Tools | Features | User Interface | Manual | Download

Configuration level
Normal, hide only internal settings

Processor
Atmel 8-bit based board (e.g. Arduino Mega)

Motherboard
MOTHERBOARD
RAMPS 1.3/RAMPS 1.4

Printer type
DRIVE_SYSTEM
Cartesian printer

EEPROM usage
EEPROM_MODE
EEPROM Set 1

If you enable eeprom, you can change the most important parameter after installation over the host. Please be aware that the eeprom values overwrite settings in Configuration.h! To overwrite exiting settings select a different eeprom set.

Primary Port
RFSERIAL
Default port

Baud rate
BAUDRATE
115200 ANSI

If you intend to use the printer from a linux pc, select a ansi baud rate.

Bluetooth serial port
BLUETOOTH_SERIAL
No bluetooth connected

Baud rate bluetooth
BLUETOOTH_BAUD
115200 ANSI

If you intend to use the printer from a linux pc, select a ansi baud rate.

Kill method
KILL_METHOD
Reset controller. Will not reset separate communication chips!

Startup GCode
STARTUP_GCODE

Dimensions

X min position
X_MIN_POS
0 [mm]

Y min position
Y_MIN_POS
0 [mm]

Z min position
Z_MIN_POS
0 [mm]

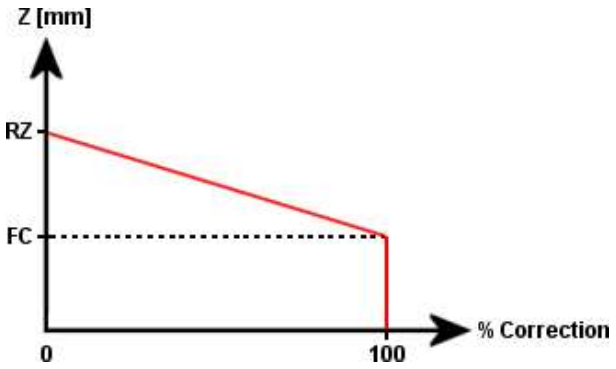
X length
X_MAX_LENGTH
200 [mm]

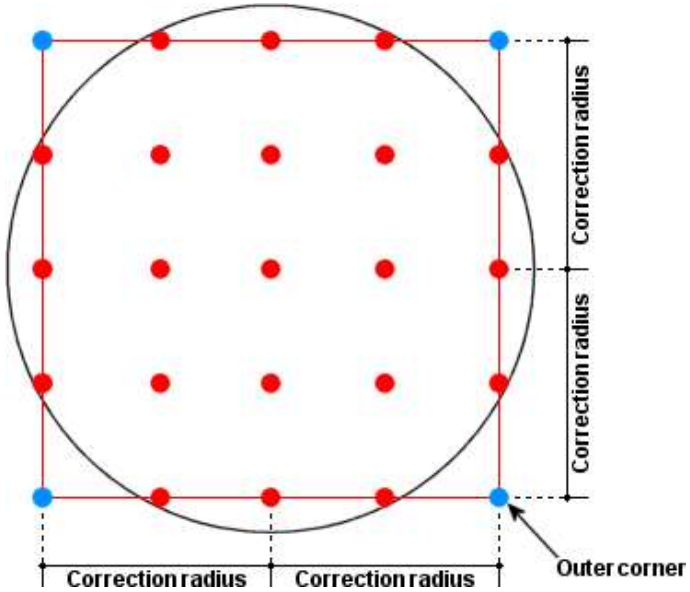
Y length
Y_MAX_LENGTH
200 [mm]

Z length
Z_MAX_LENGTH
180 [mm]

Z-correction (distortion correction)

Sometimes it is hard to calibrate your delta printer in such a way that the bed is even - even if it is even. The nonlinearities and build errors can make it a bump map when measured, making it hard to stick filament everywhere. In this case you can now use the the Z-correction. But be warned, to use it only after you have done your best to calibrate your printer! It will not remove these errors, it will only removed the effect on the first layers! You can set from where to where you want the correction. You should start after the heighest first layer you want to print and stop a few layers higher. These corrections need extra computation cost, so you should limit them to an area where necessary.





Enable z-correction (DISTORTION_CORRECTION)

Store correction data in eeprom (DISTORTION_PERMANENT)

Storing correction data in eeprom reduces RAM usage and it also eliminate sthe need to recalibrate after each restart.

Full correction until (FC)
DISTORTION_START_DEGRADE
0,5 [mm]

Reduce correction to zero at (RZ)
DISTORTION_END_HEIGHT
1 [mm]

Correction points per axis
DISTORTION_CORRECTION_POINTS
5

Creates Size x Size grid with maximum 22 points per row. Each point takes 4 byte RAM/EEPROM.

Minimum/maximum points for distortion measurement. Select largest possible area that can be reached with your z-probe.

X Min DISTORTION_XMIN	10	[mm]
Y Min DISTORTION_YMIN	10	[mm]
X Max DISTORTION_XMAX	190	[mm]
Y Max DISTORTION_YMAX	190	[mm]

Previous step Next step