

History

Editor	Release	Version	State	Date
fmendes	Creation	v1.0	Draft	2014-09-3

1. Scope

This document show how to set CURA to generate g-code for BEETHEFIRST Desktop 3D Printer.

2. CURA file Configuration

After manually creating a new profile (following steps on **CURA manual Configuration**), you will end with a file Beethefirst.ini.

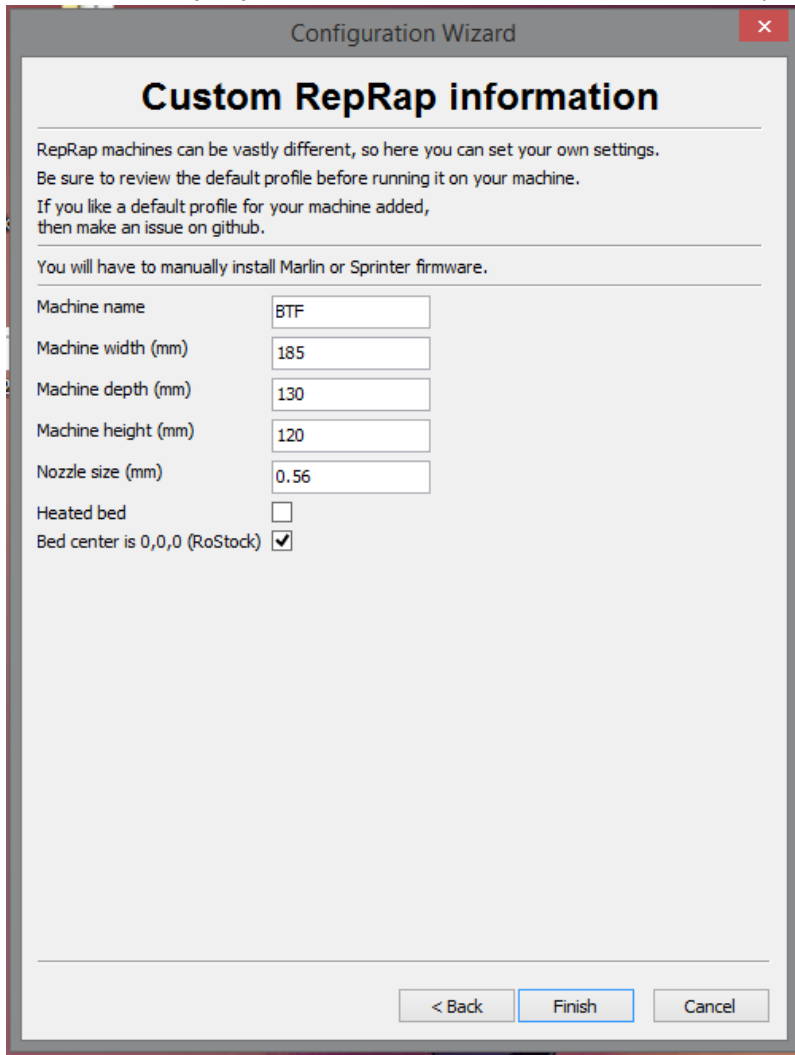
If you don't want to do the manual configuration, just put the file beethefirst.ini onto the folder:
resources/machine_profiles

- Linux
Folder is at: ~/repos/slicers/Cura/resources/machine_profiles
- MAC
/Applications/Cura/Cura.app/Contents/Resources/machine_profiles

3. CURA manual Configuration

1. Open **Machine\Machine Settings**
2. Click on: **Add new machine**
3. Choose **RepRap**
4. Choose **Custom**

5. On **Custom RepRap Information** screen, fill the form with the parameters:

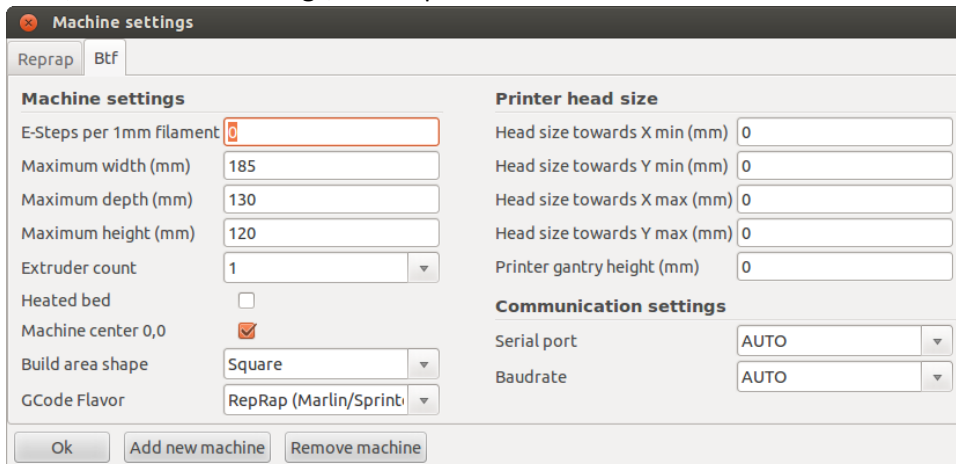


The screenshot shows a window titled "Configuration Wizard" with a sub-header "Custom RepRap information". Below the header, there is instructional text: "RepRap machines can be vastly different, so here you can set your own settings. Be sure to review the default profile before running it on your machine. If you like a default profile for your machine added, then make an issue on github." A note states: "You will have to manually install Marlin or Sprinter firmware." The form contains the following fields and options:

Field	Value
Machine name	BTF
Machine width (mm)	185
Machine depth (mm)	130
Machine height (mm)	120
Nozzle size (mm)	0.56
Heated bed	<input type="checkbox"/>
Bed center is 0,0,0 (RoStock)	<input checked="" type="checkbox"/>

At the bottom, there are three buttons: "< Back", "Finish", and "Cancel".

6. Then, on **Machine Settings**, fill the parameters:



The screenshot shows a window titled "Machine settings" with tabs for "Reprap" and "Btf". The "Machine settings" tab is active. The form is divided into three sections:

- Machine settings**
 - E-Steps per 1mm filament: 0
 - Maximum width (mm): 185
 - Maximum depth (mm): 130
 - Maximum height (mm): 120
 - Extruder count: 1
 - Heated bed: ☐
 - Machine center 0,0: ☒
 - Build area shape: Square
 - GCode Flavor: RepRap (Marlin/Sprint)
- Printer head size**
 - Head size towards X min (mm): 0
 - Head size towards Y min (mm): 0
 - Head size towards X max (mm): 0
 - Head size towards Y max (mm): 0
 - Printer gantry height (mm): 0
- Communication settings**
 - Serial port: AUTO
 - Baudrate: AUTO

At the bottom, there are three buttons: "Ok", "Add new machine", and "Remove machine".

7. On menu select: **Expert\Switch to full settings**

8. On **Basic** tab fill the profile settings:

Basic Advanced Plugins Start/End-GCode

Quality

Layer height (mm)

Shell thickness (mm)

Enable retraction ☒

Fill

Bottom/Top thickness (mm)

Fill Density (%)

Speed and Temperature

Print speed (mm/s)

Printing temperature (C)

Support

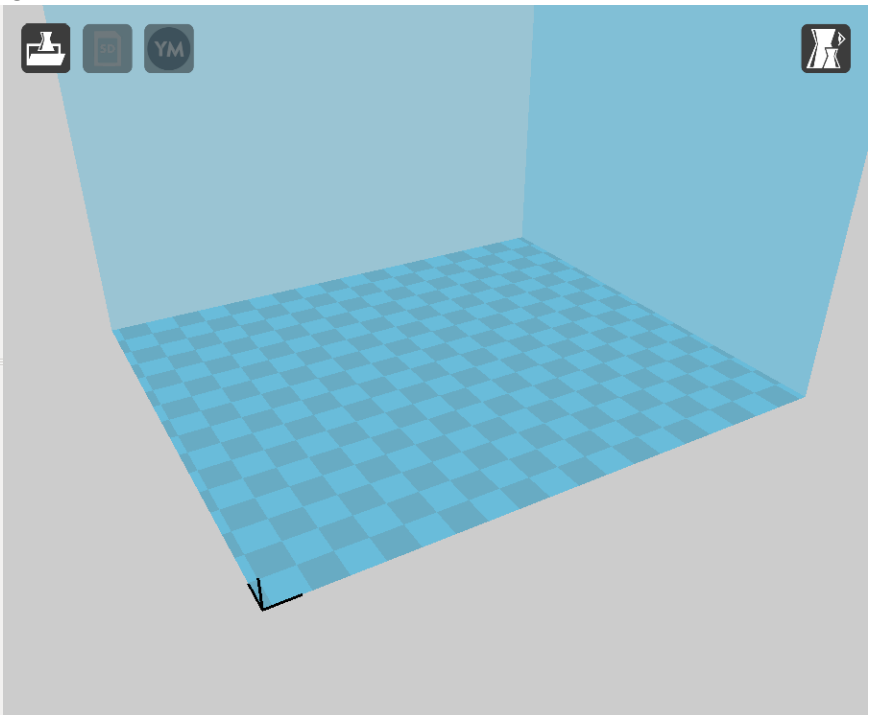
Support type

Platform adhesion type

Filament

Diameter (mm)

Flow (%)



9. On **Advanced** tab fill the profile settings:
10. You are good to go! Now you can drag an stl file onto CURA window and g-code will be generated automatically for BEETHEFIRST Desktop 3D Printer.

