

Process Name: Select Profile:

Auto-Configure for Material



Auto-Configure for Print Quality



General Settings

Infill Percentage:

20%

 Include Raft Generate Support

Extruder

Layer

Additions

Infill

Support

Temperature

Cooling

G-Code

Scripts

Other

Advanced

Extruder List
(click item to edit settings)

Extruder 1

Extruder 1 Toolhead

Overview

Extruder Toolhead Index Nozzle Diameter mmExtrusion Multiplier Extrusion Width Auto Manual mm

Ooze Control

 Retraction Retraction Distance mmExtra Restart Distance mmRetraction Vertical Lift mmRetraction Speed mm/min Coast at End Coasting Distance mm Wipe Nozzle Wipe Distance mm

Process Name: Process1

Select Profile: New Printer(2) (modified)

Update Profile

Save as New

Remove

Auto-Configure for Material

PLA



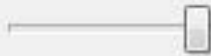
Auto-Configure for Print Quality

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Layer Settings

Primary Extruder: Extruder 1

Primary Layer Height: 0.2000 mm

Top Solid Layers: 3

Bottom Solid Layers: 3

Outline/Perimeter Shells: 2

Outline Direction: Inside-Out Outside-In Print islands sequentially without optimization Single outline corkscrew printing mode (vase mode)

First Layer Settings

First Layer Height: 90 %

First Layer Width: 100 %

First Layer Speed: 50 %

Start Points

- Use random start points for all perimeters
- Optimize start points for fastest printing speed
- Choose start point closest to specific location

X: 0.0 Y: 300.0 mm

Hide Advanced

Select Models

OK

Cancel

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 Use Skirt/Brim

Skirt Extruder

Skirt Layers

Skirt Offset from Part

 mm

Skirt Outlines

 Use Prime Pillar

Prime Pillar Extruder

Pillar Width

 mm

Pillar Location

Speed Multiplier

 %

Creates a pillar that is used to prime the extruder after a to

 Use Raft

Raft Extruder

Raft Layers

Raft Offset from Part

 mm

Separation Distance

 mm

Raft Infill

 % Disable raft base layers Use Ooze Shield

Ooze Shield Extruder

Offset from Part

 mm

Ooze Shield Outlines

Sidewall Shape

Sidewall Angle Change

 deg

Speed Multiplier

 %

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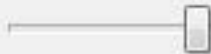
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General

Infill Extruder Extruder 1

Internal Fill Pattern Rectilinear

External Fill Pattern Rectilinear

Interior Fill Percentage 20 %

Outline Overlap 15 %

Infill Extrusion Width 100 %

Minimum Infill Length 5.00 mm

Print Sparse Infill Every 1 layers

 Include solid diaphragm every 20 layers

Infill Angle Offsets

0 deg

45

-45

Add Angle

Remove Angle

 Print every infill angle on each layer

Hide Advanced

Select Models

OK

Cancel

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Support Material Generation

Generate Support Material

Support Extruder

Support Infill Percentage %

Extra Inflation Distance mm

Dense Support Layers

Dense Infill Percentage %

Print Support Every layers

Automatic Placement

Only used if manual support is not defined

Support Type

Support Pillar Resolution mm

Max Overhang Angle deg

Seperation From Part

Horizontal Offset From Part mm

Upper Vertical Separation Layers

Lower Vertical Separation Layers

Support Infill Angles

deg

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Temperature Controller List
(click item to edit settings)

- Extruder 1 Temperature
- Heated Bed

Heated Bed Temperature

Overview

Temperature Identifier

Temperature Controller Type: Extruder Heated build platform

Relay Temperature Between Each: Layer Loop

Wait for temperature controller to stabilize before beginning build

Per-Layer Temperature Setpoints

Layer	Temperature
1	70

Layer Number

Temperature °C

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Per-Layer Fan Controls

Layer	Fan Speed
1	0
2	100

Layer Number Fan Speed %

Fan Options

 Blip fan to full power when increasing from idle

Speed Overrides

 Adjust printing speed for layers below secAllow speed reductions down to %

Fan Overrides

 Increase fan speed for layers below secMaximum cooling fan speed % Bridging fan speed override %

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G-Code Options

- 5D firmware (include E-dimension)
- Relative extrusion distances
- Allow zeroing of extrusion distances (i.e. G92 E0)
- Use independent extruder axes
- Include M101/M102/M103 commands
- Firmware supports "sticky" parameters
- Apply toolhead offsets to G-Code coordinates

Global G-Code Offsets

	X-Axis	Y-Axis	Z-Axis	
Offset	<input type="text" value="0.00"/> <input type="button" value="↑"/> <input type="button" value="↓"/>	<input type="text" value="0.00"/> <input type="button" value="↑"/> <input type="button" value="↓"/>	<input type="text" value="0.00"/> <input type="button" value="↑"/> <input type="button" value="↓"/>	mm

Update Machine Definition

Machine type

	X-Axis	Y-Axis	Z-Axis	
Build volume	<input type="text" value="254.0"/> <input type="button" value="↑"/> <input type="button" value="↓"/>	<input type="text" value="Overrides the current Machine Dimensions when lo"/>		
Origin offset	<input type="text" value="0.0"/> <input type="button" value="↑"/> <input type="button" value="↓"/>	<input type="text" value="0.0"/> <input type="button" value="↑"/> <input type="button" value="↓"/>	<input type="text" value="0.0"/> <input type="button" value="↑"/> <input type="button" value="↓"/>	mm
Homing dir	<input type="text" value="Min"/>	<input type="text" value="Min"/>	<input type="text" value="Min"/>	
Flip build table axis	<input checked="" type="checkbox"/> X	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> Z	
Toolhead offsets	<input type="text" value="Tool 0"/>	X	<input type="text" value="0.00"/> <input type="button" value="↑"/> <input type="button" value="↓"/>	Y
			<input type="text" value="0.00"/> <input type="button" value="↑"/> <input type="button" value="↓"/>	

Update Firmware Configuration

Firmware type

GPX profile

Baud rate bits/sec

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- Starting Script
- Layer Change Script
- Retraction Script
- Tool Change Script
- Ending Script

```

M104 S0 ; turn off extruder
M140 S0 ; turn off bed
M84 ; disable motors
G28

```

G28 tells printer to return home when done

Custom G-Code that is included

Post Processing

- Create .x3g file for MakerBot printers using GPX plugin (see Tools > Firmware Configuration for conversion settings)
 - Add celebration at end of build (for .x3g files only)
- Create .makerbot file for 5th Gen MakerBot printers

Additional terminal commands for post processing

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Speeds

Default Printing Speed mm/min

Outline Underspeed %

Solid Infill Underspeed %

Support Structure Underspeed %

X/Y Axis Movement Speed mm/min

Z Axis Movement Speed mm/min

Dimensional Adjustments

Horizontal size compensation mm

Filament Properties

Filament diameter mm

Filament price price/kg

Filament density grams/cm³

Bridging

Unsupported area threshold sq mm

Extra inflation distance mm

Bridging extrusion multiplier %

Bridging speed multiplier %

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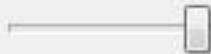
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Include Raft



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Layer Modifications

 Start printing at height 0.00 mm Stop printing at height 0.00 mm

Slicing Behavior

Non-manifold segments: Discard Heal Merge all outlines into a single solid model

Thin Wall Behavior

 Only use perimeters for thin walls Allow gap fill when necessary

Allowed perimeter overlap 10 %

Ooze Control Behavior

 Only retract when crossing open spaces Force retraction between layers Minimum travel for retraction 3.00 mm Perform retraction during wipe movement Only wipe extruder for outer-most perimeters

Movement Behavior

 Avoid crossing outline for travel movements

Maximum allowed detour factor 3.0

Tool Change Retraction

Tool change retraction distance 12.00 mm

Tool change extra restart distance -0.50 mm

Tool change retraction speed 600.0 mm/min

Hide Advanced

Select Models

OK

Cancel