



Extruder Calibrator



Cactix

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Summary

Enable precise calibration of a 3D printer's extruder.

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This part facilitates precise calibration of your 3D printer's extruder. By using a sharpie, you can mark the filament at the top, then follow the outlined procedure to adjust the extruder's rotation distance accurately. Here's how to use it:

Prepare the Extruder:

- Set the printer to relative positioning mode with G91
- Heat the extruder to 240°C (or your preferred temperature) using M104 S240 T0

Measure Filament Extrusion:

- Once the temperature is reached, execute G1 E100 F100 to extrude 100mm of filament.

Calculate New Rotation Distance:

- Measure the actual extruded filament length.
- Use the formula:
 - $\text{Current Rotation Distance} / \text{Measured Distance} * 100 = \text{New Rotation Distance}$
 - Example: If your current rotation distance is 6.9 and you measure 97.5mm extruded, the new rotation distance would be calculated as $6.9 * 97.5 / 100 = 6.7275$

Model files



extruder_calibration.stl

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