



Calibration prints for determining time constant of bead width dynamics



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Summary

These models can be printed using the Arachne slicer option to test bead width steps and determine the time constant.

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These models print on the Prusa MK3S+ with PLA. It is designed to be sliced at 0.2 mm layer height with a 0.6 mm nozzle.

The print can then be scanned on a high resolution flatbed scanner such as the Epson Perfection V600 Photo scanner. The scan can be processed, for example in a MATLAB script, to obtain bead width versus position, and thus versus time.

Feel free to remix them for your printer or to test other speeds and bead widths.

Model files



step-change230627-003.3mf



step-change230627-001.3mf



step-change230628-001.3mf



step-change230628-002.3mf

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