



PrusaSlicer Settings Test Tower



TechnoSwiss

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Summary

A test tower, along with a Python script that allows for testing any slicer setting across the 9 levels of the tower.

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Tags: [testprint](#) [string](#) [temptower](#) [retraction](#)

Tronnic's original item makes use of the "After Layer Change" custom g-code to change the temperature between each layer. I create a simple Python script that leverages a comment that gets inserted at each layer change, and will combine multiple models into one.

Slice the tower 9 times, changing the one parameter you want to test each time. Save each slide off to a new file. Enter the 9 resulting g-code files into the script and it will output a single g-code file, with each layer being one of the changed parameters.

The script doesn't handle binary g-code, so make sure you're outputting standard g-code

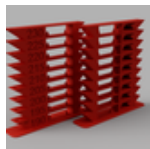
The included 3MF file has the correct layer height (0.32mm) included, and the correct "After layer change G-code", or start with you own settings make sure the layer height is 0.32mm (or adjust the "After layer change G-code accordingly" and add the following to "After layer change G-code"

; these layer numbers are for 0.32mm layer height, adjust accordingly if using different layer height {if layer_num==4}; Layer 1{endif} {if layer_num==35}; Layer 2{endif} {if layer_num==66}; Layer 3{endif} {if layer_num==97}; Layer 4{endif} {if layer_num==129}; Layer 5{endif} {if layer_num==160}; Layer 6{endif} {if layer_num==191}; Layer 7{endif} {if layer_num==222}; Layer 8{endif} {if layer_num==253}; Layer 9{endif}

After creating the 9 different slices, combine them with

```
./BuildSettingsTestTower -i slice1.gcode slice2.gcode slice3.gcode  
slice4.gcode slice5.gcode slice6.gcode slice7.gcode slice8.gcode  
slice9.gcode -o combined_slices.gcode
```

This remix is based on



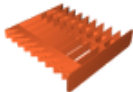
**All in One Temperature & Bridging Tower - PLA & PETG
GCode included**

by Tronnic

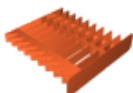
Model files



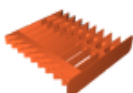
prusaslicer-271-settings-test-tower.3mf



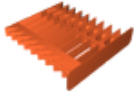
settings-test-tower.3mf



settings-test-tower.stl



settings-test-tower-no-numbers.3mf



settings-test-tower-no-numbers.stl



settings-test-tower.step



settings-test-tower-no-numbers.step



settings-test-tower.sldprt



buildsettingstesttower.py

☐ Python script for combining multiple sliced towers into single gcode file

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