

3D Print Analysis Report

General Information

Date and time: 11/05/2025 11:11:44

Analyzed image: 03_black

G-code used: composition5per_highlight

Lines analyzed: 10

Contours detected: 4 (3 internal)

Detected scale: 14.23 pixels/mm

Line Analysis Results

Line name	Width (mm)	Std (mm)	Max (mm)	Min (mm)	Var (%)
line_000000_layer_0.20	2.752	0.206	3.092	1.405	7.490
line_000001_layer_0.20	2.664	0.250	3.022	0.351	9.400
line_000002_layer_0.20	2.739	0.191	2.951	0.351	6.980
line_000003_layer_0.20	2.714	0.371	3.092	0.351	13.67
line_000004_layer_0.20	1.903	0.311	2.108	0.281	16.35
line_000005_layer_0.40	2.725	0.226	2.951	0.351	8.280
line_000006_layer_0.40	2.726	0.299	3.092	2.038	10.97
line_000007_layer_0.40	2.759	0.295	3.092	0.351	10.68
line_000008_layer_0.40	2.688	0.120	2.951	2.459	4.460
line_000009_layer_0.40	1.872	0.286	2.108	0.351	15.27

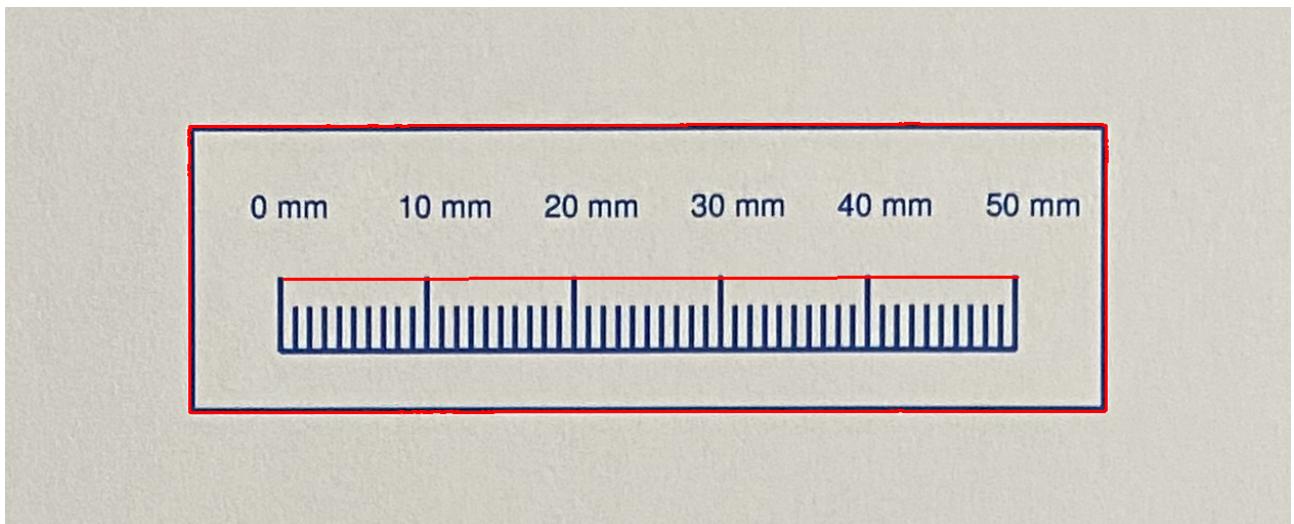
Lines that were not correctly printed:

line_000004_layer_0.20.

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Processing Images

Scale Detection



File: 01_scale_03_black.png

Original detected scale: 14.34 pixels/mm

Distortion Correction

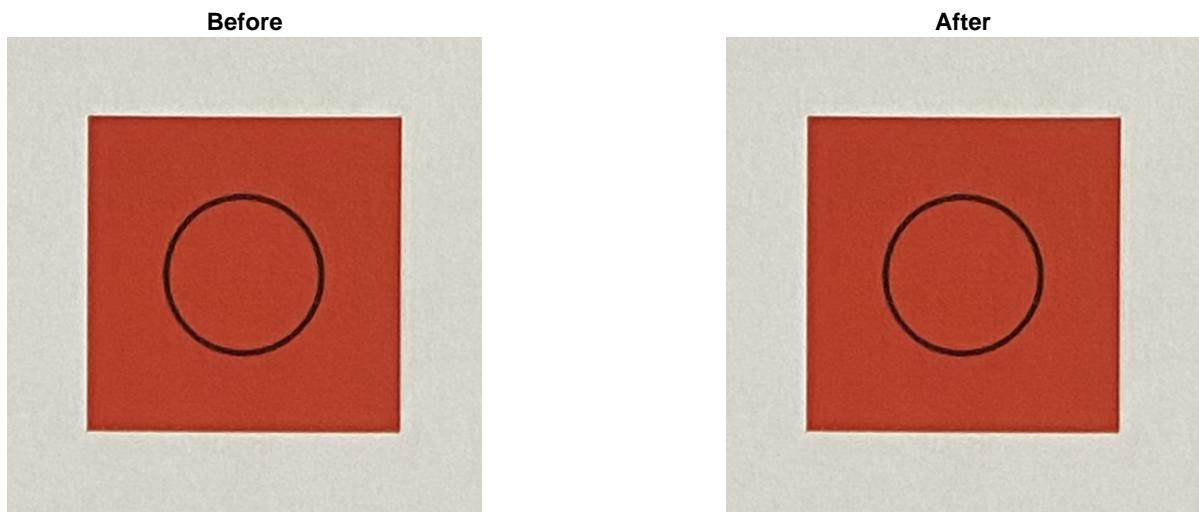
Distortion correction has been applied to the original image.

Scale change after correction: -0.76%

Original scale: 14.34 pixels/mm

Corrected scale: 14.23 pixels/mm

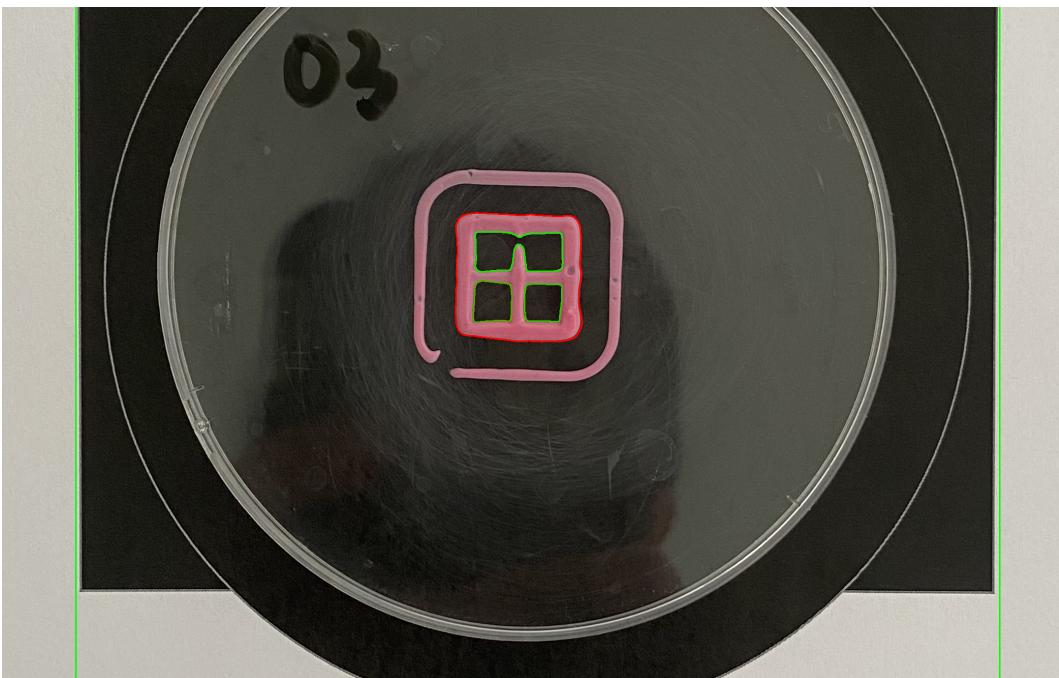
Reference Square - Before and After Correction:



Files: before_red_square.png | after_red_square.png

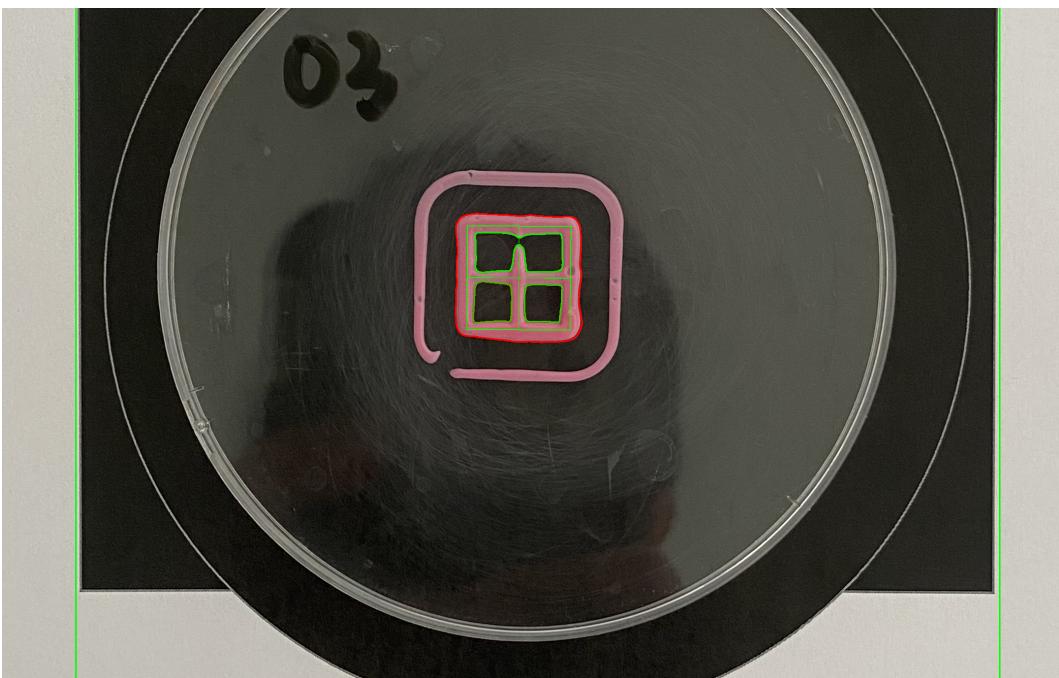
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3D Figure Segmentation



File: 03_segmented_03_black.png (cropped)

G-code Overlay



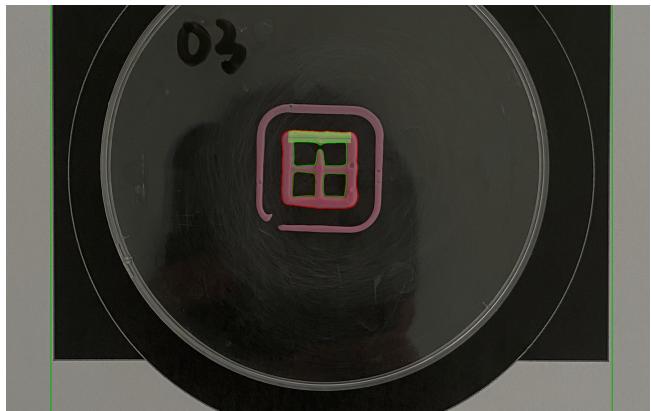
File: 04_overlay_gcode_03_black.png (cropped)

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Appendix: Individual Line Analysis



Line: line_000000_layer_0.20



Line: line_000001_layer_0.20



Line: line_000002_layer_0.20



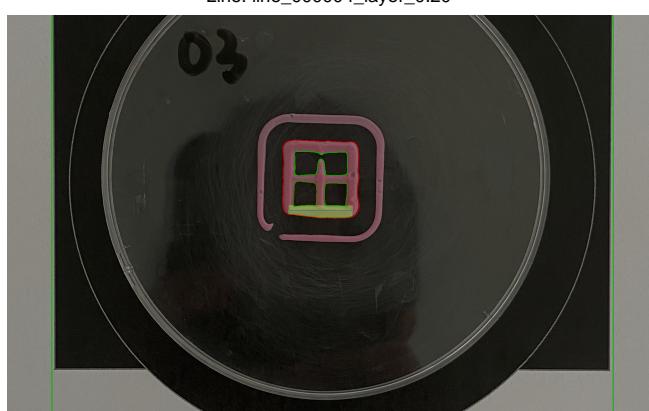
Line: line_000003_layer_0.20



Line: line_000004_layer_0.20



Line: line_000005_layer_0.40



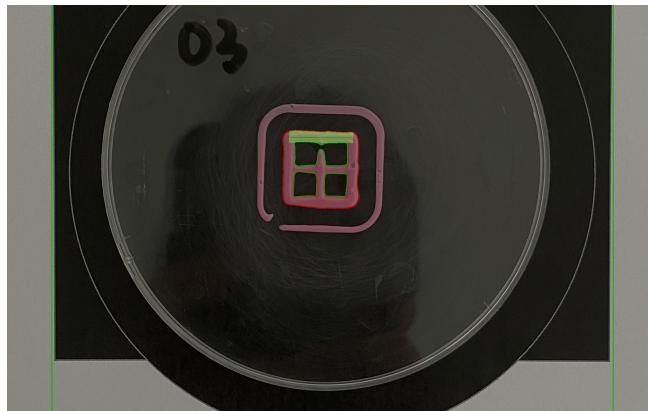
Line: line_000006_layer_0.40



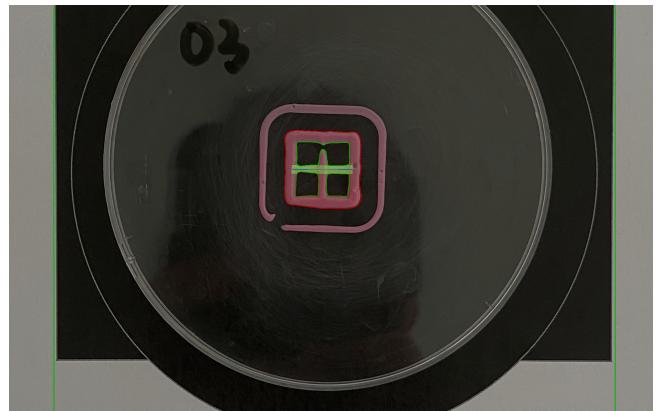
Line: line_000007_layer_0.40

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Individual Line Analysis (continued)



Line: line_000008_layer_0.40



Line: line_000009_layer_0.40

Total lines analyzed: 10