

GF Machining Solutions Microlution Sample Ablation Catheter Tips

Attila Farkas 2022

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Overview

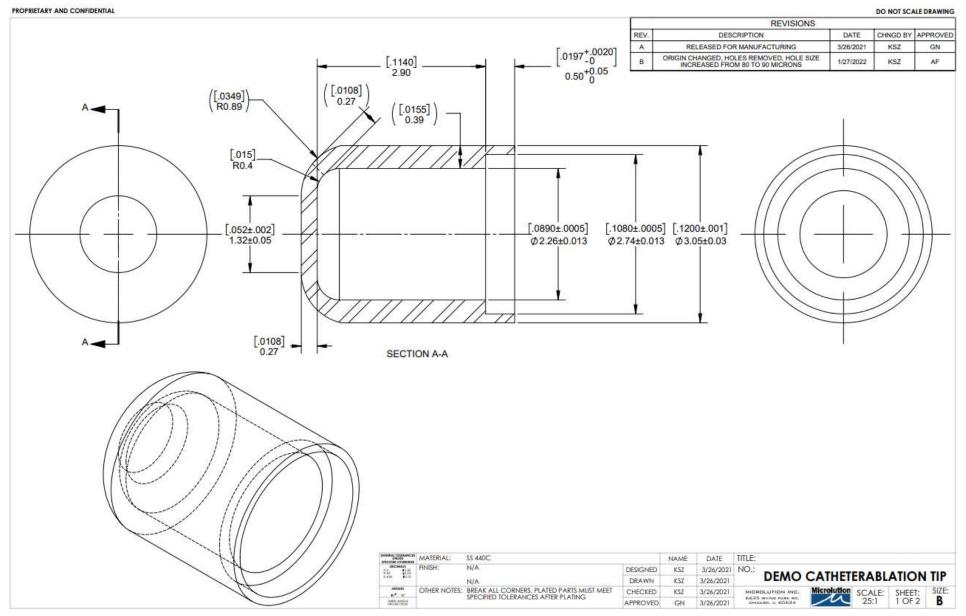
- Microlution ML5
 - 5-Axis motion platform
 - GF Femto FlexiPulse Laser
 - 5-Axis laser scanhead
- Part
 - Ablation catheter tips
 - Material Stainless steel
 - 29 laser drilled features
 - Overall cycle time < 1.5 minutes
 - Includes part measurement and compensation

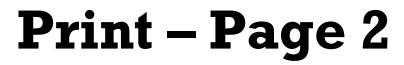




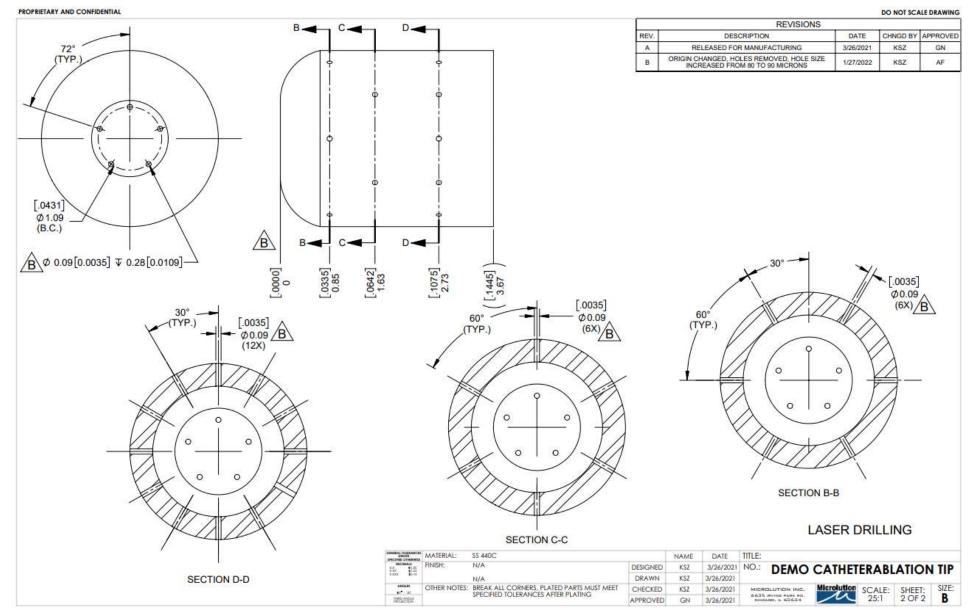






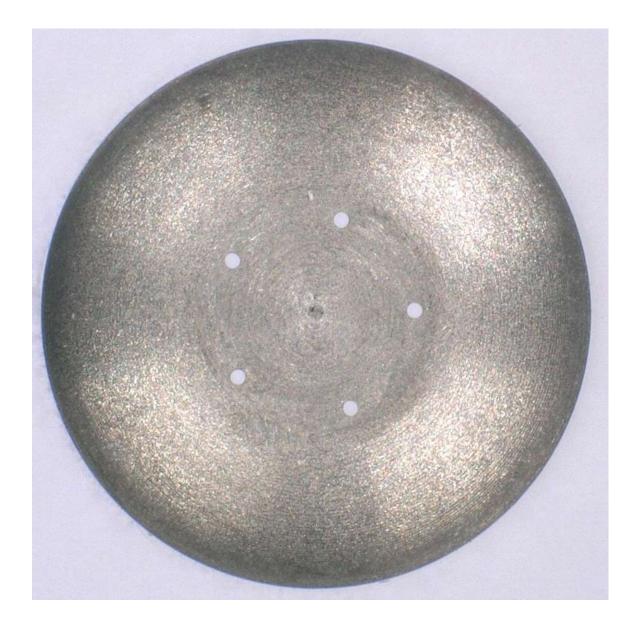


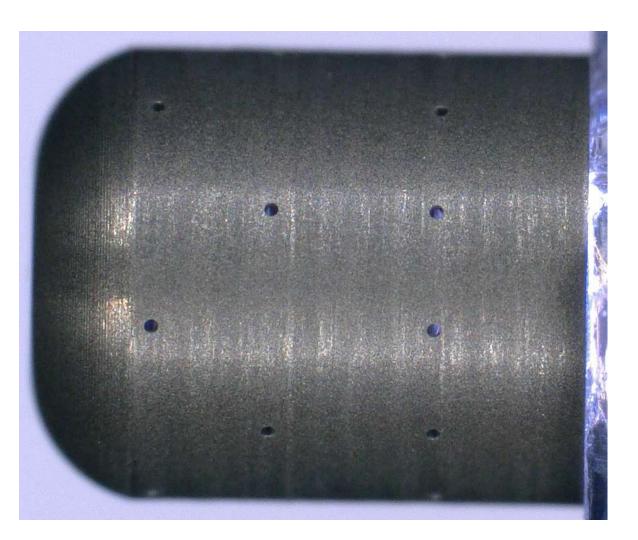




Low Magnification Images







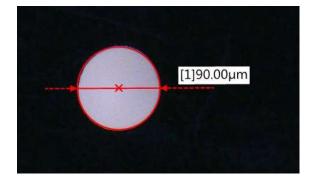
Images – Row A

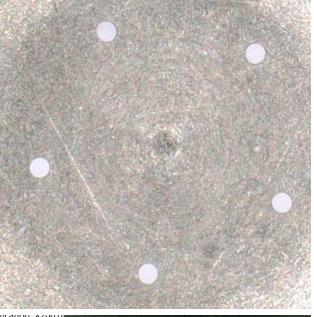






Row A



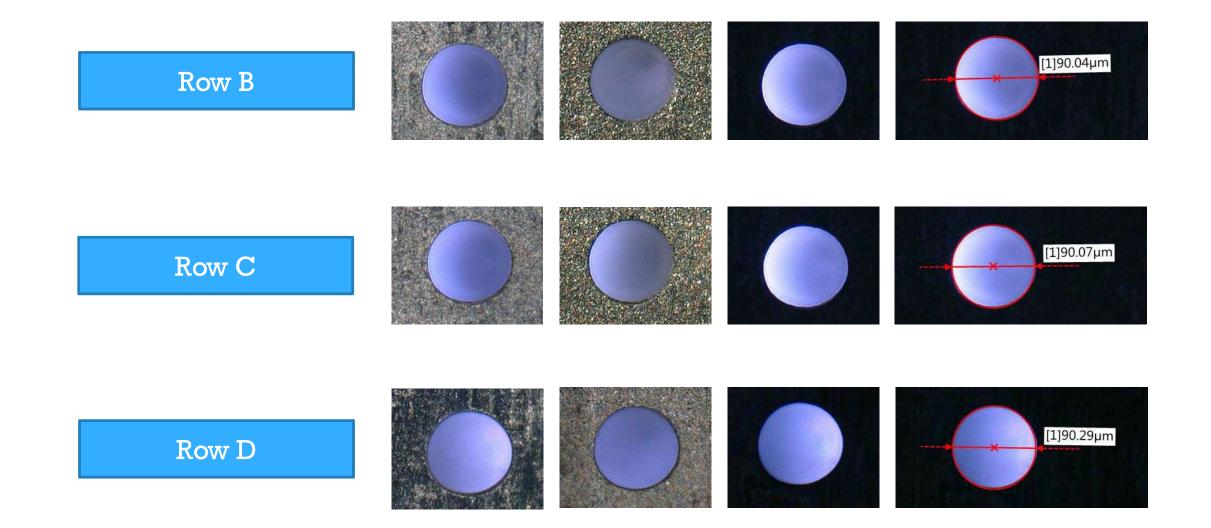






Images – Rows B, C, & D





Part Measurements



		Average	Median	Max	Min	Range	Std. Dev
Holes	Entrance Section A	89.52	89.32	92.67	88.03	4.64	0.9574
	Exit	90.81	90.72	93.19	88.75	4.44	0.8719
	Section B	90.31	90.32	91.94	88.36	3.58	0.8864
	Section C	90.16	90.09	91.91	88.37	3.54	0.7609
	Section D	89.94	89.93	92.94	87.62	5.32	0.8800
	Overall	90.11	90.11	93.19	87.62	5.57	0.9465
Distance	Top to Section B	852.66	853.20	858.63	845.69	12.94	4.4946
	Top to Section C	1631.43	1630.39	1639.11	1625.62	13.49	4.3601
	Top to Section D	2729.17	2729.28	2736.76	2721.94	14.82	4.3130

- All measurements are in units of microns
- The first 5 parts were measured and then 1 part from every batch of 5
- All parts were inspected

Thank you



GF Machining Solutions

Passion for Precision