

## ABRASIVE FLOW MACHINING OF ADDITIVELY MANUFACTURED COMPONENTS

The surface qualities of additively manufactured components (rapid prototyping or 3-D printing) fail to meet the latest technology standard and are thus only conditionally usable.

**Using the Abrasive Flow Machining process you achieve a significant improvement of the surface quality of these elements.**

The required grinding medium is called Streamer. It will be individually formulated according to the processed material, the component geometry and the required surface quality.



### The process is used

- + to generate **high quality surface finishes** on interior and exterior contours
- + for **targeted precision deburring** of intersections
- + for **the defined edge rounding with reproducible work results**

The figure shows an additively manufactured component being successfully processed with AFM.

	Measurements before	Measurements after
<b>Average Ra</b>	5.600 µm	0.560 µm
<b>min. Ra</b>	0.412 µm	0.229 µm
<b>max. Ra</b>	12.027 µm	0.891 µm
<b>Average Rz</b>	27.760 µm	2.650 µm
<b>min. Rz</b>	3.671 µm	1.448 µm
<b>max. Rz</b>	55.259 µm	4.409 µm
<b>Material</b>	Ti6Al4V	
<b>Dimensions</b>	ø 70 x 30 mm	
<b>Process time</b>	90 minutes	

## ABRASIVE FLOW MACHINING OF ADDITIVELY MANUFACTURED COMPONENTS



	Measurements before	Measurements after
Average Ra	10 µm	1.200 µm
Average Rz	50 µm	7.300 µm
Material	1.2709	
Dimensions	ø 200 x 300 mm	
Process time	120 minutes	

## EVERYTHING FROM A SINGLE SOURCE

Take advantage of the **synergy effects** that result from our integration into the **PÜTZ GROUP!**

In addition to surfaces finishing technologies as well as industrial cleaning technologies, we can also offer you the right testing technology to test surfaces and dimensional accuracy.

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