#### **News and Innovations**

#### **Streamer - the AFM Medium**

# The key for optimal surface qualities, precise deburring and defined edge rounding

**Abrasive flow machining (AFM)** focuses on internal channels and complex part geometries. In addition to the machine and the appropriate fixture, the streamer is the most important element for successful abrasive flow machining. The highly viscous mixture firstly must be soft enough in order to flow sufficiently. On the other part its strength must be such that the abrasive grains can be pressed against the surface of the component with sufficient pressure in order to achieve an abrasive effect.

# We would be pleased to develop the most efficient abrasive medium formulation for your individual processing task. Contact us.

## Your benefits:

Streamer in use

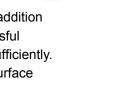
- Customer-specific production of the streamer depending on the individual machining task
- Depending on the material and the requirements: use of silicone carbide, corundum, boron carbide or diamond abrasive grains
- Machining of bores and internal cross sections from approx. 0.2 mm to 300 mm by adapted streamer formulation
- Different viscosities
   for various applications
- Mixtures of several grains possible for optimal results

The streamer, which is

Reliable, reproducible process
Reduction of processing times
Best surface qualities
Consistent quality
Increased tool service life
Elimination of handwork

individually tailored to your machining task, supports the process decisively:

 Upon customer request we manufacture the streamer free from products of animal origin



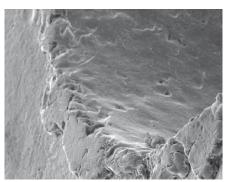




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Bore after abrasive flow machining

Streamer in heat exchanger

Bore before

## **Processing options:**

- Processing of complex interior geometries
- Deburring of hard to reach drill holes, gaps, grooves and edges
- · Consistently edge rounding
- Improving the surfaces of additively printed components
- Polishing of milled surfaces, turned or cast components
- Removal of martensite layers, e.g. after eroding

## Examples of successful processing:

- Automotive Industry (nozzles, valve housings, gear parts)
- Plastics-/ Aluminium Industry (dies)
- Tool- & carbide processing (dies, tablet molds, drawing molds, removal of the erosion layer)
- Medical Engineering (membran, valves, pumps, implants)
- Aerospace Industry (blisks, turbines, guide vanes)
- Textile machinery (thread take-up nozzle, ceramic components)

## **Everything from a single source**

Take advantage of the **synergy effects** that result from our integration into the **Pütz Group**! In addition to surface 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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