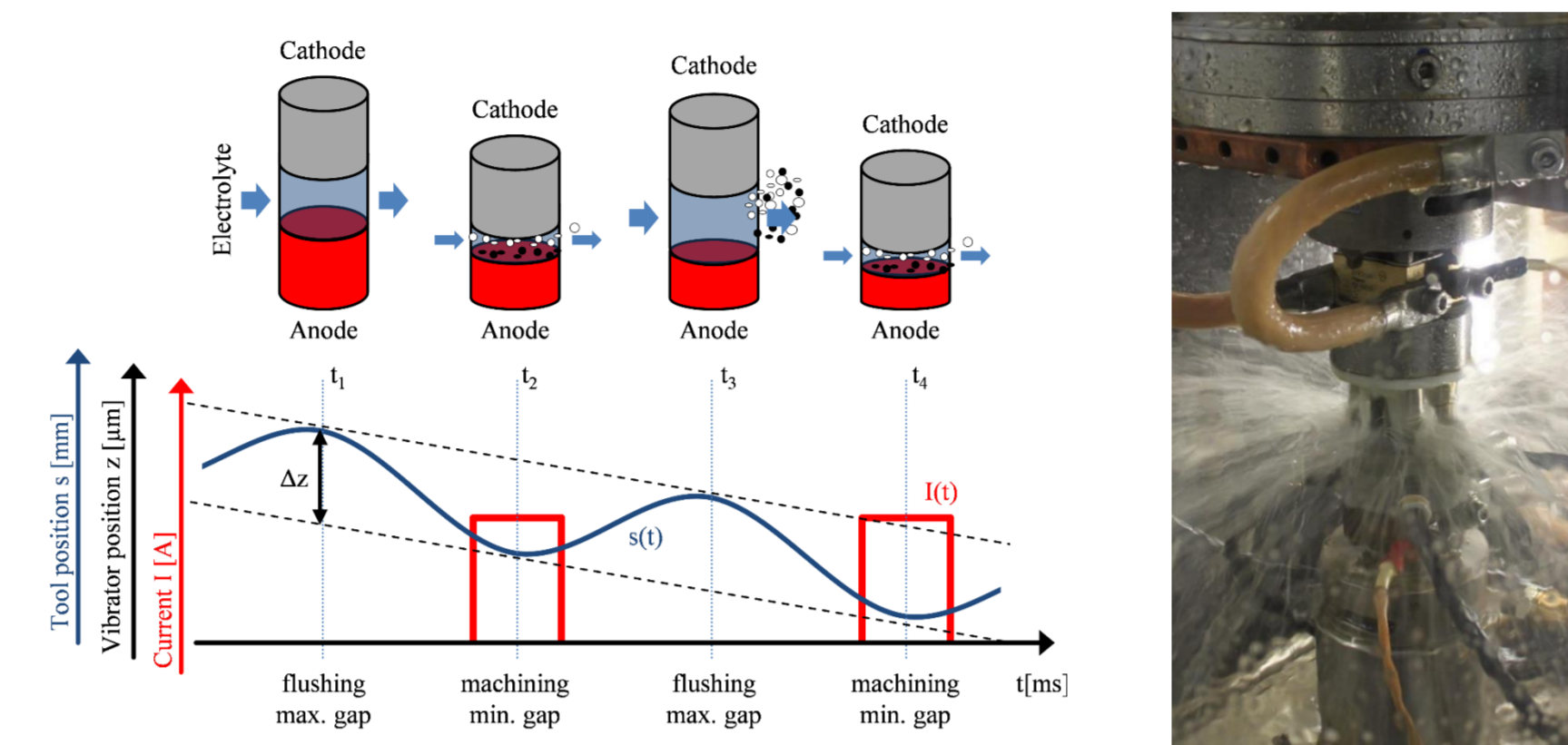
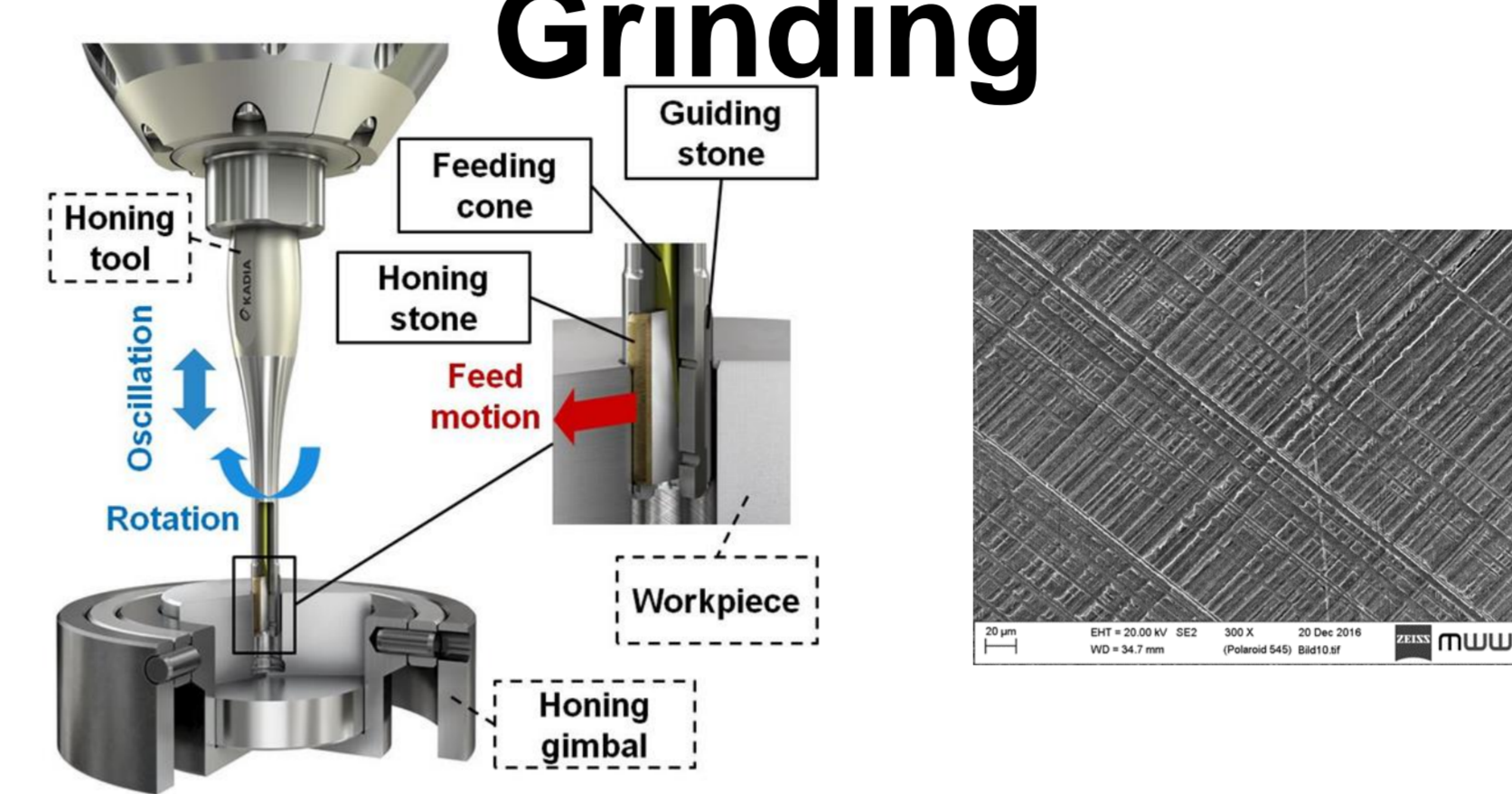


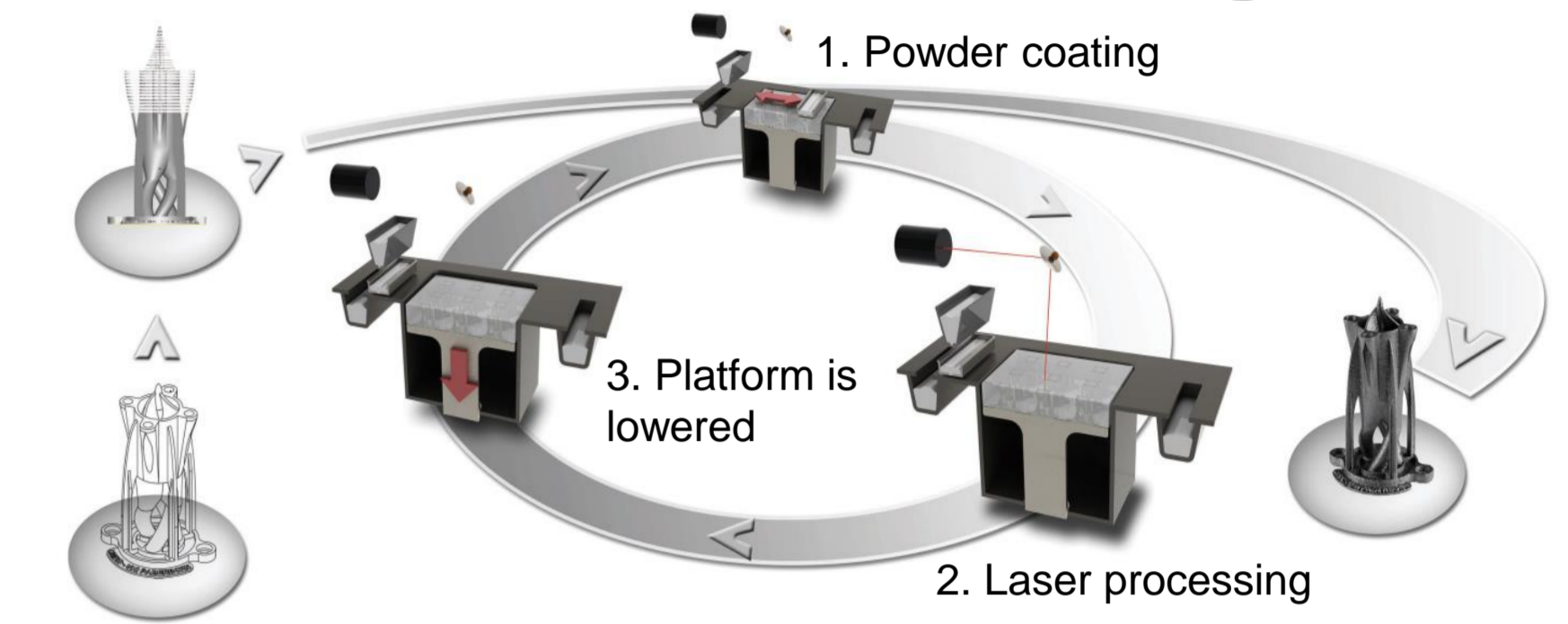
Pulse Electrochemical Machining



Precise Machining by Honing and Grinding

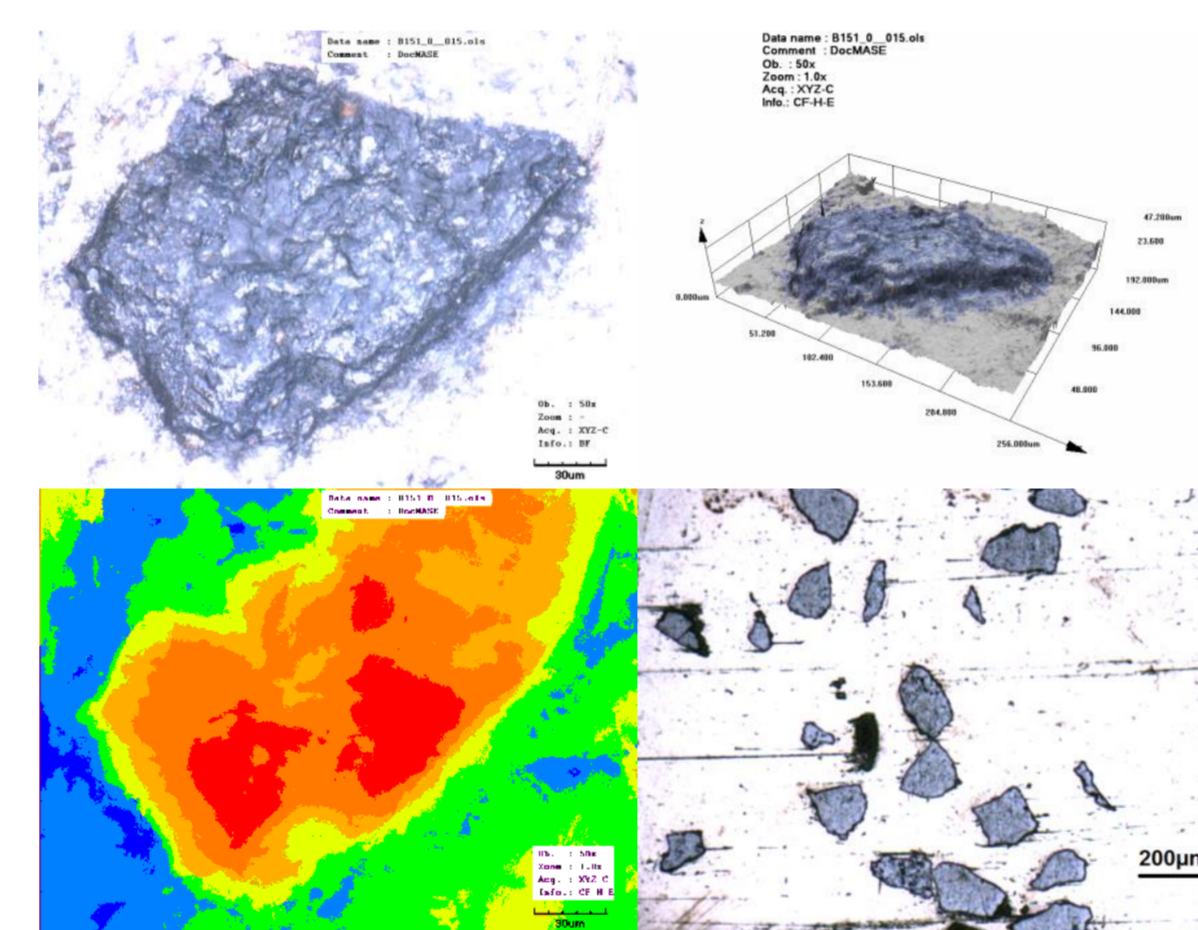


Additive Manufacturing

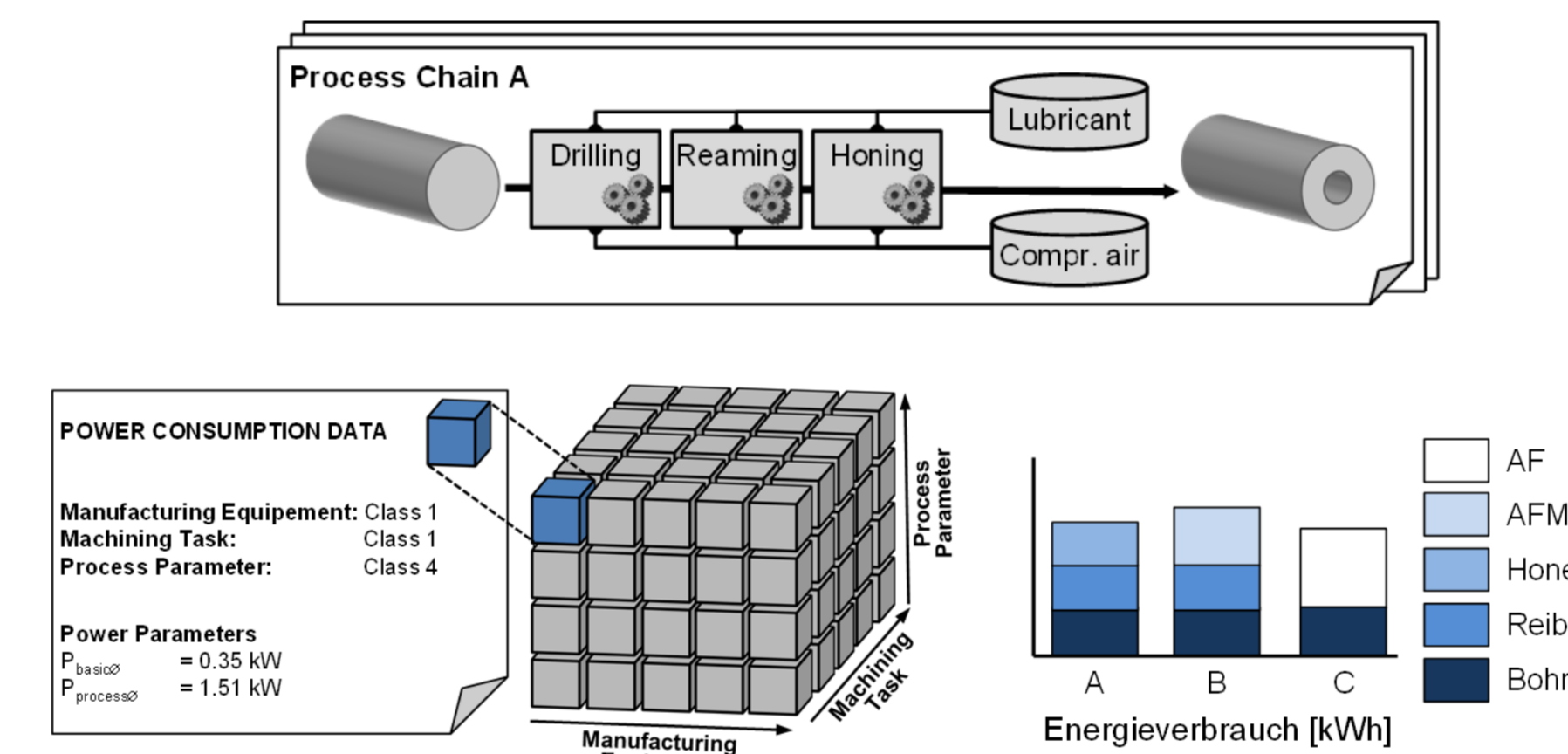


Source: „Additive Fertigung“, Stellungnahme der Deutschen Akademie der Technikwissenschaften (acatech), December 2016

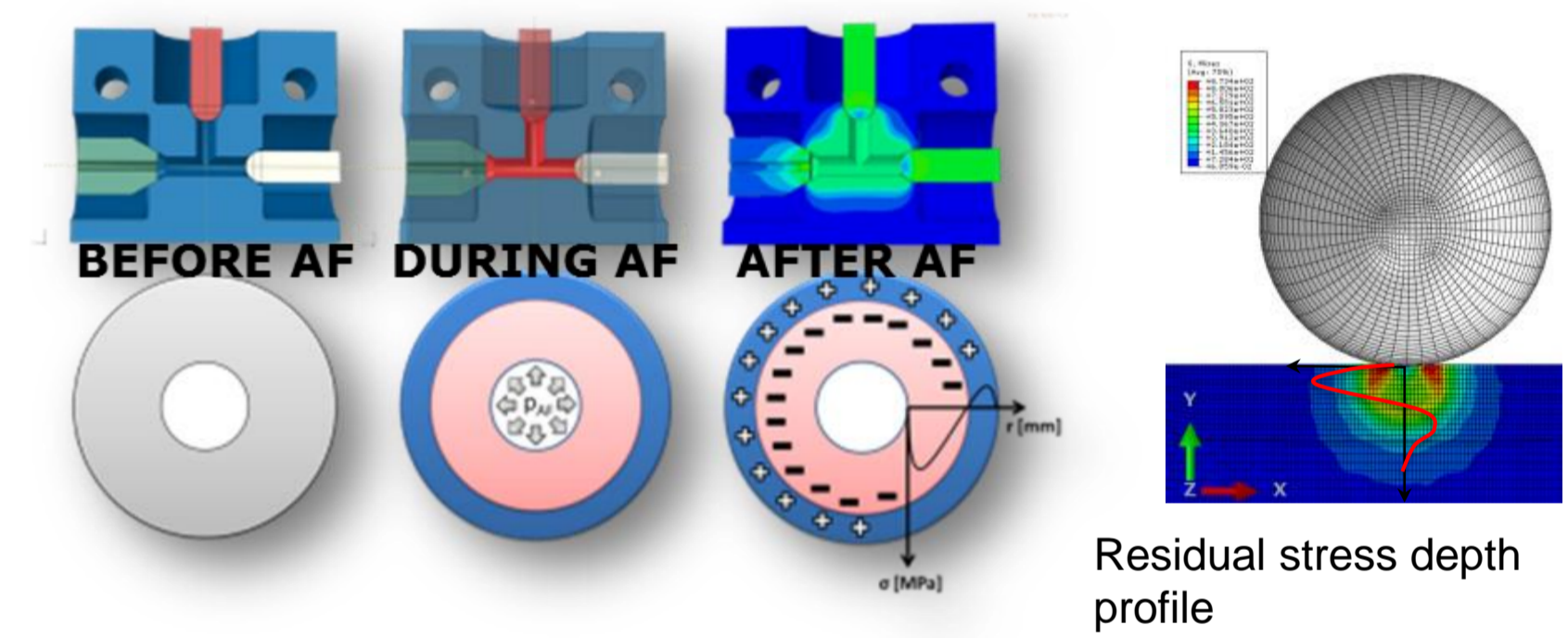
Abrasive Tool Characterization



Sustainability, Material Efficiency & Energy Efficiency in Production



Residual Stresses in Manufacturing Processes



The research activities at the Institute of Production Engineering are divided into the strategic fields of Methodology and Planning, Machinery and Equipment as well as Technologies and Processes. These can be assigned to the technological research foci of Machining Processes, Precision Machining and Tool Technology as well as the planning research foci of Efficient Production, Design of Process Chains and Residual Stresses in the Manufacturing.

For more information: <http://www.lft.uni-saarland.de>

EEIGM Teacher/Researcher involved

Dirk Bähre



Expertise:

- Cutting and abrasive manufacturing processes
- Additive manufacturing technologies of metallic materials
- Analysis of rim zone characteristics of technical components
- Resource efficiency and sustainability of manufacturing processes

Teaching:

- Mechanical engineering technologies
- Precision machining technologies
- Cutting and erosive manufacturing processes
- Technical production planning
- Forming and shaping processes
- Empirical and statistical modelling