## Machinery































# **Measurement technology**







### Innovation and technology transfer Our services

- Development and optimization of machining processes
- Contract research for companies
- Research and development in joint projects
- Seminars, conferences and technical workshops
- Consulting, research and literature review



#### Contact

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# **Hochschule Furtwangen**

**KSF**, Institute for **Advanced Manufacturing** 

Head of Institute Prof. Dr. **Azarhoushang** 













- HEDG
- Difficult to machine materials
- Microgrinding
- Non-conventional machining and hybrid machining
- Dry grinding
- Modelling and evaluation of processes
- Measurement and process monitoring

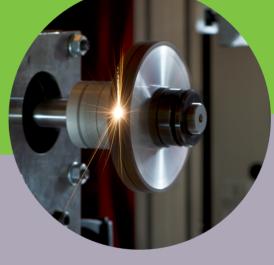


- High-performance, highspeed grinding, HEDG
- Difficult to machine materials
- Micro grinding
- Hybrid machining
- Superfinishing

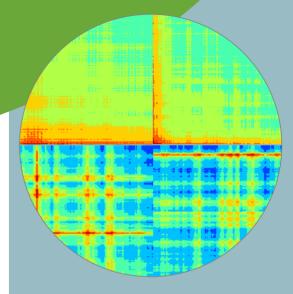
Grinding and finishing technologies

Lapping and polishing





- Microstructuring
- Conditioning of grinding tools
- Functional surfaces
- Hybrid processing
- Additive manufacturing (SLS)
- Production of micro tools
- Contour production



- Expert systems
- Machine learning
- Data-based manufacturing
- Condition monitoring
- Quality prediction and assurance
- In-process and in-situ measurement
- Adaptive process control
- FEM (process modeling)

# Al and Simulation