

# Quality Assurance for Development of Micro Gears



KIT- The cooperation of  
Forschungszentrum Karlsruhe GmbH  
and Universität Karlsruhe (TH)  
Universität Karlsruhe (TH)  
Research University · founded 1825



Institut für Produktentwicklung  
Universität Karlsruhe (TH) Prof. A. Albers

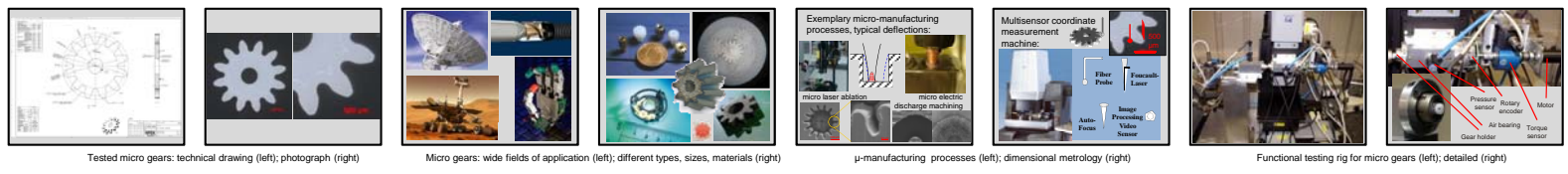
Deutsche  
Forschungsgemeinschaft  
DFG

**StrAMNano**  
Schwerpunktprogramm SPP 1159:  
Neue Strategien der Mess- und Prüftechnik für die  
Produktion von Mikrosystemen und Nanostrukturen

Dipl.-Ing. Claudia Becke  
Phone: +49 721 608 6471  
Fax: +49 721 608 6051  
becke@ipek.uni-karlsruhe.de  
IPEK  
Institut für Produktentwicklung  
Kaiserstrasse 12  
76128 Karlsruhe  
Germany



## Motivation



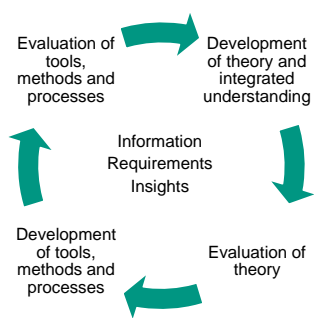
## Research Questions

- How is quality assurance implemented in the development process of micro gears?
- What improves quality assurance of micro gears?
- How do intelligent quality assurance strategies for micro gears look like?
- How can functional testing be used to improve quality assurance of micro gears?

## Goals and Objectives

- Analysis of Quality Assurance for Micro Gears
- Improve Functional Testing for Micro Gears
- Establish Functional Testing in Quality Assurance for Micro Gears
- Establish Quality Assurance in the Development of Micro Gears

## Research Approach



## Expected Outcome

- Model to derive individual Quality Assurance Strategies to use in the Development Process of Micro Gears

