

- **Start 01.01.2021**
(continuation of 2020)
- € 603.662,- total, ~30% cofunding
- Milestone 1
Process optimization strategies derived
- Milestone 2
Algorithms for milling process control
- Milestone 3
Development of advanced prototypes
- Milestone 4
System integrated at end-user
- Milestone 5
System validated
- Future Goal
Miniaturization to aim for a larger market

CHALLENGE



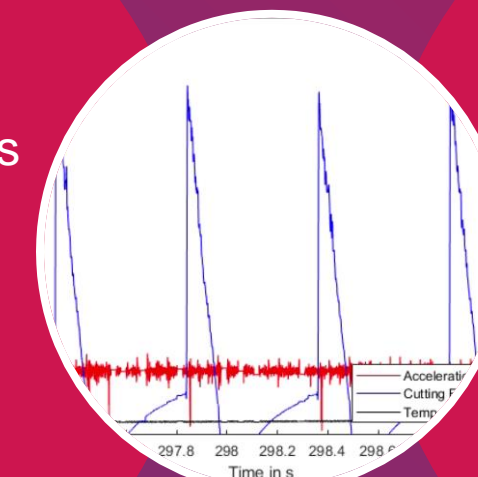
- milling under harsh conditions
- tool wear and tool breakage
- chatter and instabilities



SOLUTION



- implement sensors in indexable cutting tools
- interface them to electronics
- wireless data transmission



BENEFITS



- sensory milling head
- integration in the production facilities
- visualization, quantification and optimization of process parameters

MAIN PROJECT RESULTS

Development, manufacturing and implementation of a sensory milling head with cutting force, vibration and temperature measurement functionalities

“Thanks to EIT we were able to provide a 6th sense to machine operators”



PAUL SCHÖRGHOFER
Activity Leader

