

A project by





Sensor integrated high speed machining for Zero-Defects

Sustainable Production

Summary

Digitalisation

Circular Economy

















The aim of the activity was to bring to market a new sensory milling head, with the scope of upgrading large scale machining to a High-Speed Zero-Defect process.

The milling head is based on the Sensory Tool Holder, which has been developed by TU Wien together with MyTool IT and Schunk. This development goes beyond the state of the art, integrating vibration and temperature monitoring modules with a specific interface between milling head and tool holder

for energy and information transfer in a single tool system that also provides adaptive control of milling process parameters for large scale machining. The milling head is commercialized by Walter tools and MyTool IT in accordance with a user and sales agreement. Voestalpine HPM is acting as an end user for this product, having a large experience in large scale machining. Other markets such as aerospace, energy, etc. contribute to scale up the solution after the project.







