

Advanced manufacturing and processes

DT-NMBP-10-2019: Adopting materials modelling to challenges in manufacturing processes (RIA)

DT-FOF-01-2018: Skills needed for new Manufacturing jobs (CSA)

DT-FOF-08-2019: Pilot lines for modular factories (IA 50%)

DT-NMBP-19-2019: Advanced materials for additive manufacturing (IA)

Thematic brokerage workshops

EU Brokerage Event on Kets in Horizon 2020

Strasbourg, 17th October 2017

University of Ljubljana

Faculty of Mechanical Engineering

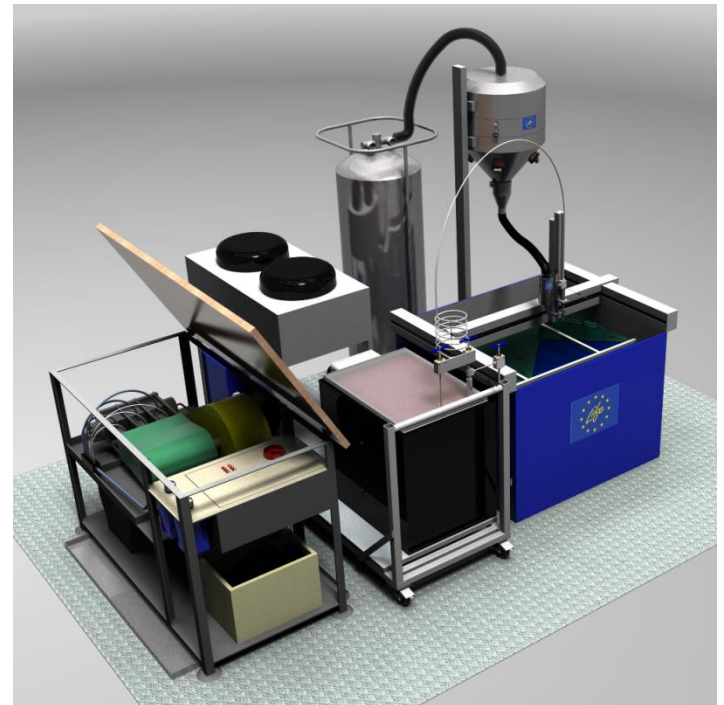
- Over 40.000 students and approximately 5.600 employees.
- Competences in advanced machining processes and process modelling, metrology, automation.
- EU projects:
 - Network of Excellence:
Multi-material micro
manufacture
 - Life+



Our expertise

New technology: Ice abrasive waterjet cutting (IAWJ, IceJet)

- TRL 3
- IAWJ is a derivative of abrasive waterjet (AWJ) machining.
- No residuals on the workpiece:
 - turbine blades,
 - food,
 - medicine.
- Less waste :)
- Further development of this technology could be part of a bigger project, maybe as a workpackage.



Our expertise

Machining processes and modelling

We offer competences on the following machining processes: electrical discharge machining, abrasive waterjet machining, laser cutting, plasma cutting, DLP stereolithography, FDM printing.

Process selection and modular system for contour cutting

- Small series components from sheets of metals, ceramics, polymers, etc.
 - laser, plasma, oxygen or abrasive waterjet cutting,
 - wire electrical discharge machining (WEDM).
- Process selection: engineer or expert system?
- Modular system where abrasive waterjet , laser and plasma machining can be performed at the same workpiece position.

Contact details

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