Ostfalia
University of
Applied Sciences

Investigation of new rapid-tooling approaches, with the metal laser sinter RapToLas

Project management: Prof. Dr.-Ing. Martin Rambke

Summary:

In the context of an infrastructure measure, the Wolfenbüttel site is to procure a device for metal laser sintering, in order to be able to initiate and carry out application-oriented research projects. The focus here is on the priorities listed in the University Rectors' Conference research map: "Vehicle Manufacturing, Polymers and Material Sciences" and "Renewable Energies and Resource Efficiency".

With the newly procured metal laser sintering plant (direct metal laser sintering), materials such as steel, titanium and ceramics, which are relevant to rapid tooling, can be used for the first time.

Among other things, options for the generative manufacturing of press-hardening tools with integrated cooling channels will be investigated, as well as the wear behaviour of these tools under real operating conditions.

Funding: State-level funding ERDF infrastructure

Duration: 2016 – 2017

Funding amount: €374,000

Organisational unit: Faculty of Mechanical Engineering

Research area: Vehicle Construction, Polymers and Materials Science

EUROPÄISCHE UNION
Europäischer Fonds für
regionale Entwicklung

EUROPA FÜR NIEDERSACHSEN
EFRE Förderung für die niedersächsischen Regionen