



## ADDITIVE TECHNOLOGIES

Additive technologies are playing an increasingly important role in shaping today's industry. The technology requires a new design approach: a drastic rethink of design methods, a radical transformation of the design process. The possibilities offered by the generative design process can be used to create ultra-light, sufficiently rigid structures for, for example, aerospace, automotive and toolmaking use. The centre follows the processes of raw material production – product design – prototype or series production control – quality checking, including the training of specialists.

### COMPETENCIES

- Production and development of additive production materials and metal powders
- Development of parts and products in terms of AM (Additive Manufacturing), optimisation in terms of topology and printing
- Software conversion between designed parts and digital prototype products for additive production
- Print designed parts and products
- Post-manufacturing
- Examination of manufactured parts and products (material testing, structural testing, residual stress, anisotropy, CT, functional tests)



### SERVICES

- Prototyping, 3D printing
- Production and testing of metal powders suitable for printing
- Examination of the properties of prototype products



### TOOLS

- Orlas Creator RA 3D laser metal printing equipment
- ATO Lab metal powder production equipment
- CTX Alpha 500 SINUMERIK 840D CNC turning center
- DMU 40 HEIDENHAIN iTNC530 CNC milling center