

# TRANSFER AND ENTREPRENEUR CENTRE

## PM - Patient specific medical devices

The goal of the ego.-Incubators „**Patient specific medical devices**“ is to combine the knowledge of engineering, economics, and medicine in order to promote innovative business ideas in the medical field in a practical way. In addition to high-performance 3D- Sidelight scan technology for data acquisition, modern rapid-prototyping systems and software for processing is available. For medical data recording there is also the possibility to use the latest CT and MRI systems.

## CAD-Construction

**Solid Edge.**  
Design better.

**Solid Edge und Rhinoceros**



- CAD Modelling
- Drafting
- CAD-Modelling with NURBS Geometries
- Reverse Engineering

## Computertomography (CT - Scan)

### Multiaxis systems Siemens Artis zeego



- Flat-Panel X-ray computed tomography with robotic arm
- Big (40cm) Flat-Panel detector
- CT Funktionalität (DynaCT) with Large Volume Feature
- Picture acquisition with up to 60 fps
- Turning speed up to 100°/s
- 56" Large Display (8 MegaPixel)

## RP-Model production using stereolithography

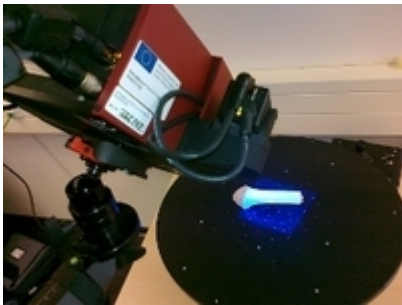
## 3DSystems ProJet 6000 Pro. 3D Printer



- Automatic part placement
- Automatic generation of the support structure
- Construction volume: (250 x 250 x 250) mm<sup>3</sup>
- Max. resolution 75 µm at 50 µm layer thickness
- Materials „Tough“ (grau) and „Clear“ (transparent) available

## Component measurement with 3D Scanner

### Gom ATOS Compact Scan 5M - strip light-Scanner



- 3D-models detection
- insensitive to ambient light
- 2 cameras with each 2 MegaPixel resolution
- Measurement area 35 x 30 - 1000 x 750 mm
- Import from CAD-Data and point clouds
- Network processing
- 3D-Analysis through target / actual comparisons
- Data-Export



SACHSEN-ANHALT



EUROPÄISCHE UNION  
**EFRE**  
Europäischer Fonds für  
regionale Entwicklung



Standort

full screen display



Patientenindividuelle  
Medizinprodukte  
ego.-INKUBATOR

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### Requirements

In order to use the ego.-incubators the following conditions have to be met:

- Project presentation with targets and timeframes

- Students or academic staff or peers (artists, physicians, Exist scholarship holders, graduates / graduated employees with founding intentions) at a university in the state of Saxony-Anhalt
- No pursuit of economic activity through the user of the incubator

If you have any questions, please contact the supervisor of the respective ego.-incubator or directly contact the TUGZ



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