

# implantcast GmbH

## Additive manufacturing department

### About this organisation

#### Machine translation

This organisation has been machine-translated based on data provided in German.

We are an innovative and medium-sized medical technology company! Since 1988, more than 800 employees have been moving the world of arthroplasty. With steady growth in the areas of development, production and sales of primary, revision and tumour endoprostheses, we combine all competences under one roof.

Additive manufacturing has been complementing existing conventional manufacturing processes since 2012. This process is one of the most innovative technologies of the beginning of the century. It enables the production of extremely complex, load-orientated implants and geometries that cannot be realised using conventional methods.

Lüneburger Schanze 26  
21614 Buxtehude  
Lower Saxony  
Germany  
[www.implantcast.de](http://www.implantcast.de)



#### Organisation type

Small or medium-sized enterprise

#### Sector



#### Employees

500 and more

#### Turnover

More than €50m

#### Funding

#### Main areas covered

Development of endoprostheses, Production of endoprostheses, Distribution of endoprostheses, Patient-specific end prostheses

#### Infrastructure

3D printing production facilities, Material analysis laboratory, CNC processing machines, Investment casting

#### Certifications

ISO 13485

#### Keywords

3D printing, Additive manufacturing, Additive manufacturing, Medical technology, Endoprosthetics

#### Memberships

## Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Offer</b>			
<b>Products</b> Parts and components, Systems and end products, Tools and moulds		✓	✓
<b>Services &amp; consulting</b> Testing and trials, Engineering, Prototyping, Validation, Approval		✓	✓
<b>Field of technology</b>			
<b>Design &amp; layout</b> Hybrid structures, Lightweight material construction		✓	✓
<b>Functional integration</b> Material functionalisation			✓
<b>Measuring and testing technology</b> Component and part analysis, Visual analysis (e.g. microscopy, metallography), Materials analysis, Destructive analysis, Non-destructive analysis			✓
<b>Modelling and simulation</b> Loads & stress, Optimisation, Processes, Materials, Reliability validation			✓
<i>Plant construction &amp; automation</i>			
<i>Recycling technologies</i>			

## Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Manufacturing process</b>			
<b>Additive manufacturing</b> 3D printing, Electron beam melting, Stereolithography			✓
<i>Coating (surface engineering)</i>			
<i>Fibre composite technology</i>			
<i>Forming</i>			
<b>Joining</b> Screwing, Welding			✓
<b>Material property alteration</b> Heat treatment			✓
<b>Primary forming</b> Casting			✓
<b>Processing and separating</b> Drilling, Turning, Milling, Honing, Sawing, Grinding			✓
<b>Textile technology</b> Knitting			✓

**Overview of lightweighting expertise**

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	Research	Development	Manufacturing & Supply
<b>Material</b>			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
<i>Composites</i>			
<i>Fibres</i>			
<i>Functional materials</i>			
<b>Metals</b> Aluminium, Steel, Titanium, Others (CoCrMo)			✓
<b>Plastics</b> Thermoplastics			✓
<i>Structural ceramics</i>			
<b>(Technical) textiles</b> Crocheted fabrics			✓

**Contacts**

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Contacts	
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