

## About this organisation

voxeljet is a provider of high-speed, large-format 3D printers and on-demand parts services to industrial and commercial customers. The company's 3D printers employ the binder jetting additive manufacturing technology to produce parts using various sand and polymer materials, proprietary binding agents. The company provides its 3D printers and on demand parts services to industrial and commercial customers.

Binder Jetting or additive manufacturing in general is a layer based manufacturing technology, based on digital CAD data. This technology can be used to produce components with topology-optimized and thus highly complex structures and lightweight designs. These components can either be manufactured in plastic for end use applications or in sand or polymers to create sand molds and patterns for sand and investment casting. 3D printing as a manufacturing technology is not limited by geometric restrictions due to the layer based manufacturing process. During printing, the particulate material selective bonds layer by layer in order to create the final part. In this way, only the material that is absolutely necessary to achieve the desired component properties is processed. With binder jetting 3D printing and the tool less production of sand molds and investment casting patterns, lightweight designs can be realized via metal casting as with any other 3D printing technology.

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### Organisation type

Small or medium-sized enterprise

### Sectors



### Employees

50 up to 249

### Turnover

€10m - €50m

### Funding



## About this organisation

**Main areas covered** 3D printer, 3D printing systems, On-Demand 3D Printed Parts

**Infrastructure**

**Certifications**

**Keywords**

**Memberships**

## Overview of lightweighting expertise

|                                                                                               | Research | Development | Manufacturing & Supply |
|-----------------------------------------------------------------------------------------------|----------|-------------|------------------------|
| <b>Offer</b>                                                                                  |          |             |                        |
| <b>Products</b><br>Machines and plants, Systems and end products, Materials, Tools and moulds |          | ✓           | ✓                      |
| <b>Services &amp; consulting</b><br>Prototyping                                               |          | ✓           | ✓                      |
| <b>Field of technology</b>                                                                    |          |             |                        |
| <b>Design &amp; layout</b><br>Lightweight manufacturing, Lightweight design                   |          |             | ✓                      |
| Functional integration                                                                        |          |             |                        |
| Measuring and testing technology                                                              |          |             |                        |
| Modelling and simulation                                                                      |          |             |                        |
| <b>Plant construction &amp; automation</b><br>Plant construction                              |          |             | ✓                      |
| Recycling technologies                                                                        |          |             |                        |

## Overview of lightweighting expertise

|                                               | Research | Development | Manufacturing<br>& Supply |
|-----------------------------------------------|----------|-------------|---------------------------|
| <b>Manufacturing process</b>                  |          |             |                           |
| <b>Additive manufacturing</b><br>3D printing  | ✓        | ✓           | ✓                         |
| Coating (surface engineering)                 |          |             |                           |
| Fibre composite technology                    |          |             |                           |
| Forming                                       |          |             |                           |
| Joining                                       |          |             |                           |
| Material property alteration                  |          |             |                           |
| Primary forming                               |          |             |                           |
| Processing and separating                     |          |             |                           |
| Textile technology                            |          |             |                           |
| <b>Material</b>                               |          |             |                           |
| Biogenic materials                            |          |             |                           |
| Cellular materials (foam materials)           |          |             |                           |
| Composites                                    |          |             |                           |
| Fibres                                        |          |             |                           |
| Functional materials                          |          |             |                           |
| <b>Metals</b><br>Aluminium, Magnesium, Steel  |          |             | ✓                         |
| <b>Plastics</b><br>Elastomers, Thermoplastics |          | ✓           | ✓                         |
| Structural ceramics                           |          |             |                           |
| (Technical) textiles                          |          |             |                           |

## Contacts

Contacts

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