

Element22 GmbH

About this organisation

We are experts in Titanium Injection Molding and Additive Manufacturing.

Powder Metallurgy based manufacturing methods like Metal Injection Molding (MIM) or 3D Printing (3DP) are excellent candidates for processing Titanium, but require Know-How and specialized equipment. In metal 3DP about 50% of the products manufactured are made of Titanium due to its excellent material properties. The extremely fast expanding 3DP and Powder Metallurgy industry has generated a new industry sector for manufacturing spherical Titanium powder with a rapidly growing number of providers and capacity. Titanium is one of the strongest and lightweight metals on earth. It has the best strength to weight ratio, the so-called specific strength of all materials readily available. It combines superior material properties: it is strong, lightweight, corrosion resistant, biocompatible and has an excellent fatigue life. That combination makes it an ideal choice for many demanding applications.

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www.element22.com



Main areas covered

Infrastructure

Certifications

Keywords

Memberships



Organisation type

Small or medium-sized enterprise

Sectors

No specific sector

Employees

10 up to 49

Turnover

€2m - €10m

Funding

n/a

Overview of lightweighting expertise

Manufacturing
Research Development & Supply

Offer

Products

Services & consulting

Field of technology

Design & layout

Functional integration

Measuring and testing technology

Modelling and simulation

Life-cycle analysis, Multiphysics simulation,
Processes



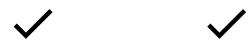
Plant construction & automation

Recycling technologies

Manufacturing process

Additive manufacturing

3D printing, Others



Coating (surface engineering)

Fibre composite technology

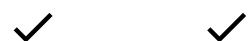
Forming

Joining

Material property alteration

Primary forming

Extrusion, Sintering, Injection moulding



Processing and separating

Textile technology

Overview of lightweighting expertise

Manufacturing
Research Development & Supply

Material

Biogenic materials

Cellular materials (foam materials)

Composites

Fibres

Functional materials

Metals

Titanium 

Plastics

Structural ceramics

(Technical) textiles

Contacts

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