AM POLYMERS GMBH

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About this organisation

Machine translation

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

AM POLYMERS GmbH (AMP) was founded in 2014 and specialises in the development, production and sale of powders for powder bed-based additive manufacturing (PBF). The aim is to open up new fields of application by providing previously unavailable plastic materials. Based on over 17 years of experience, six polymer powders such as PP, PE, TPU, PA6, PA 66 and PBT with over 20 variants have been developed to date.

Additive manufacturing and powder bed processes in particular are very well suited to the cost-effective production of lattice structures. The combination of lattice structures with flexible materials such as TPU opens up a wide range of possible applications with functionalisation of the components to achieve certain damping and energy-absorbing properties. Applications such as the manufacture of shoe soles, bicycle saddles, rucksack back pads or padding in helmets or other protectors illustrate just a small number of possible applications. AM POLYMERS offers different TPU variants, which are characterised in particular by their low hardness and excellent layer bonding, which supports in particular the representability and stability of thin structures. At the same time, the components can be easily depowdered even when cold due to a soft powder cake, which significantly simplifies the cleanability of lattice structures

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Germany
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AM Polymers

Organisation type
Small or medium-sized enterprise

Sectors

Employees
Up to 9

Turnover
n/a

Funding

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About this organisation

Main areas covered	Plastic powder, Additive manufacturing of lattice structures
Infrastructure	Powder production plants, Additive manufacturing systems
Certifications	
Keywords	Plastic powder, Additive manufacturing, Laser sintering, Powder bed-based melting
Memberships	

Overview of lightweighting expertise

Machine translation

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Materials	✓	✓	✓
Services & consulting Testing and trials, Prototyping	✓	✓	✓
Field of technology			
Design & layout			
Functional integration Material functionalisation	✓	✓	✓
Measuring and testing technology Materials analysis, Destructive analysis	✓	✓	✓
Modelling and simulation			
Plant construction & automation			
Recycling technologies			

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing Selective laser sintering (SLS)	✓	✓	✓
Coating (surface engineering)			
Fibre composite technology			
Forming			
Joining			
Material property alteration			
Primary forming			
Processing and separating			
Textile technology			

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials			
Cellular materials (foam materials)			
Composites			
Fibres			
Functional materials			
Metals			
Plastics Thermoplastics, Others (Thermoplastic elastomers)	✓	✓	✓
Structural ceramics			
(Technical) textiles			

Contacts

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Contacts

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