

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

Hanns-Martin-Schleyer-Straße 9e
47877 Willich
North Rhine-Westphalia
Germany
www.am-polymers.de



Organisation type

Small or medium-sized enterprise

Sectors



Employees

Up to 9

Turnover

n/a

Funding

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

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

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			

Overview of lightweighting expertise

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

Contacts

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Contacts

Mr Dr.-Ing. Andreas Wegner

Managing Director

a.wegner@am-polymers.de