

Plastics Engineering Group GmbH

About this organisation

Machine translation

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

The Plastics Engineering Group - PEG GmbH is a provider of engineering services for the simulation of plastics processing and for the development of plastic moulded parts. Our core business is the assessment and optimisation of injection moulded components, tools and injection moulding processes. For this purpose, we exclusively use state-of-the-art, finite element-based software products such as MOLDFLOW, ABAQUS and ANSYS.

Plastics Engineering Group GmbH designs plastic components using process and structural simulation. Through the use of integrative simulation, it is possible to take into account material properties resulting from the manufacturing process in the structural-mechanical design. In particular, the transfer of fibre orientations and the resulting anisotropic material behaviour should be mentioned here. This calculation approach allows fibre orientations in injection-moulded components to be taken into account and optimised for the existing load cases through targeted design. By reducing wall thicknesses in this way, cycle time and, in particular, weight can be saved.

Robert-Bosch-Straße 7
64293 Darmstadt
Hesse
Germany
pe-group.de

Main areas covered

Plastic components, Structural components, Injection moulding tools

Infrastructure

Certifications

Keywords

Memberships



Organisation type

Small or medium-sized enterprise

Sectors

No specific sector

Employees

10 up to 49

Turnover

Up to €2m

Funding

Plastics Engineering Group GmbH

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
<i>Products</i>			
Services & consulting Testing and trials, Simulation		✓	
Field of technology			
<i>Design & layout</i>			
<i>Functional integration</i>			
<i>Measuring and testing technology</i>			
Modelling and simulation Crash behaviour, Loads & stress, Optimisation, Processes, Structural mechanics, Materials		✓	
<i>Plant construction & automation</i>			
<i>Recycling technologies</i>			

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
<i>Additive manufacturing</i>			
<i>Coating (surface engineering)</i>			
<i>Fibre composite technology</i>			
<i>Forming</i>			
<i>Joining</i>			
<i>Material property alteration</i>			
Primary forming			
Injection moulding			✓
<i>Processing and separating</i>			
<i>Textile technology</i>			

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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			✓
Thermoset plastics, Elastomers, Thermoplastics			
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

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Contacts

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