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.

Organisation type
Small or medium-sized enterprise

Sectors
No specific sector

Employees
10 up to 49

Turnover
Up to €2m

Funding

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

Plastics Engineering Group GmbH

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products			
Services & consulting Testing and trials, Simulation		✓	
Field of technology			
Design & layout			
Functional integration			
Measuring and testing technology			
Modelling and simulation Crash behaviour, Loads & stress, Optimisation, Processes, Structural mechanics, Materials		✓	
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			
Coating (surface engineering)			
Fibre composite technology			
Forming			
Joining			
Material property alteration			
Primary forming Injection moulding		✓	
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 Thermoset plastics, Elastomers, Thermoplastics		✓	
Structural ceramics			
(Technical) textiles			

Contacts

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Contacts

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