

Fraunhofer Institute for Production Systems and Design Technology

Joining and coating technology

About this organisation

Machine translation

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

As a production technology R&D partner with strong IT expertise, the Fraunhofer Institute for Production Systems and Design Technology IPK offers system solutions, individual technologies and services for digitally integrated production.

R&D Lightweight construction in automotive engineering (car body)

Pascalstraße 8-9
10587 Berlin
Berlin
Germany
www.ipk.fraunhofer.de



Organisation type
Non-university research institution

Sector

Employees
250 up to 499

Turnover
n/a

Funding

Main areas covered Manufacturing, Digital Engineering, Production management, Production processes and systems, Automation

Infrastructure 3500 square metre central test field, 9500 square metres in the entire PTZ, Specialised laboratories, ~ 100 test stands

Certifications DQS-certified according to ISO 9001:2015

Keywords High-strength steel, DP 1200, DP 1000, Tailor Welded Blanks TWB

Memberships

Fraunhofer Institute for Production Systems and Design Technology

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Systems and end products, Materials, Tools and moulds	✓	✓	✓
Services & consulting Testing and trials, Engineering, Prototyping, Validation, Simulation, Technology transfer	✓	✓	✓
Field of technology			
<i>Design & layout</i>			
<i>Functional integration</i>			
<i>Measuring and testing technology</i>			
Modelling and simulation Life-cycle analysis, 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			
Additive manufacturing 3D printing, Deposition welding	✓	✓	✓
<i>Coating (surface engineering)</i>			
<i>Fibre composite technology</i>			
<i>Forming</i>			
Joining Welding	✓	✓	✓
<i>Material property alteration</i>			
<i>Primary forming</i>			
<i>Processing and separating</i>			
<i>Textile technology</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials			
Cellular materials (foam materials)			
Composites			
Fibres			
Functional materials			
Metals			
Aluminium, Steel, Others (High-strength steel Automotive steel)	✓	✓	
Plastics			
Structural ceramics			
(Technical) textiles			

Contacts

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Contacts

Ms Josefine Lemke, M. Sc.

Research assistant

josefine.lemke@ipk.fraunhofer.de