

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	✓	✓	✓
Coating (surface engineering)			
Fibre composite technology			
Forming			
Joining Welding	✓	✓	✓
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>			
Metals			
Aluminium, Steel, Others (High-strength steel Automotive steel)	✓	✓	
<i>Plastics</i>			
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

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Contacts

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