VDEh Steel Institute

About this organisation

Machine translation

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The VDEh Steel Institute is a central institution of the steel manufacturing industry and promotes technical and scientific co-operation.

Lightweight construction solutions with steel play an important role in various applications, especially in the automotive industry. The VDEh Steel Institute promotes cooperation between companies and coordinates research projects in this area.

Sohnstraße 65
40237 Düsseldorf
North Rhine-Westphalia
Germany
www.stahl-online.de

Organisation type
Association, Chamber of industry and commerce

Sector
Others: Stahlindustrie

Employees
50 up to 249

Turnover
€10m - €50m

Funding
n/a

Main areas covered	Lightweight construction solutions with steel
Infrastructure	
Certifications	
Keywords	
Memberships	

VDEh Steel Institute

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Semi-finished parts, Materials	✓		
Services & consulting Training, Consulting, Funding, Standardisation, Technology transfer	✓		
Field of technology			
Design & layout Lightweight manufacturing, Hybrid structures, Lightweight material construction	✓		
Functional integration Material functionalisation	✓		
Measuring and testing technology Visual analysis (e.g. microscopy, metallography), Materials analysis, Destructive analysis, Non-destructive analysis	✓		
Modelling and simulation Life-cycle analysis, Materials	✓		
Plant construction & factory automation			
Recycling technologies			

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing	✓		
Coating (surface engineering)			
Fibre composite technology			
Forming Bending, Impact extrusion, Compression moulding, Forging, Extrusion moulding, Stretch forming, Thermal converting, Deep-drawing, Fluid active media based forming, Rolling	✓		
Joining			
Material property alteration			
Primary forming Casting	✓		
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 Metal matrix composite	✓		
Fibres Metal fibres	✓		
Functional materials Electrostrictive / magnetostrictive materials, Shape memory materials	✓		
Metals Steel	✓		
Plastics			
Structural ceramics			
(Technical) textiles			

Contacts

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Contacts

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