

Siemens Mobility GmbH

Rolling Stock

About this organisation

Machine translation

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

Siemens Mobility is an independently managed company of Siemens AG and has been a leading provider of transport solutions for over 160 years. We are constantly developing our portfolio through innovation. Our core business includes rail vehicles, rail automation and electrification solutions, turnkey systems, intelligent road transport technology and the associated services.

Application of lightweight construction in the construction of rail vehicles, car body construction in aluminium and steel in integral and differential construction. Various lightweight constructions in the interior fittings of railway vehicles. Application of innovative design features and new materials.

Otto-Hahn-Ring 6
81739 München-Perlach
Bavaria
Germany
www.mobility.siemens.com

SIEMENS

Organisation type
Large enterprises

Sector


Employees
500 and more

Turnover
More than €50m

Funding



Main areas covered Rail vehicles/ wagon body construction

Infrastructure n.a.

Certifications ISO 9001 and others

Keywords Structural components, CFRP, GFRP, aluminium

Memberships Association of the railway industry and others

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
<i>Products</i>			
<i>Services & consulting</i>			
Field of technology			
Design & layout Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction		✓	✓
Functional integration Actuator technology, Media conductivity, Sensor technology, Material functionalisation		✓	✓
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), System analysis, Environmental simulation, Materials analysis, Destructive analysis, Non-destructive analysis	✓	✓	✓
Modelling and simulation Crash behaviour, Loads & stress, Life-cycle analysis, Multiphysics simulation, Optimisation, Processes, Structural mechanics, Materials, Reliability validation	✓	✓	✓
<i>Plant construction & automation</i>			
Recycling technologies Recycling			✓

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing, Deposition welding, Fused deposition modeling, Selective laser melting (SLM, LPBF, ...), Selective laser sintering (SLS)		✓	✓
Coating (surface engineering)			
Fibre composite technology			
Forming			
Joining			
Material property alteration			
Primary forming			
Processing and separating			
Textile technology			

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			
Structural ceramics			
(Technical) textiles			

Contacts

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