

About this organisation

Machine translation

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

Gestamp is an international Tier 1 automotive supplier in the areas of body, chassis and mechanics with more than 40,000 employees at over 100 production sites and 13 R&D locations in 24 countries. Lightweight construction and sustainability play a central role in the technological development and global manufacturing of products. Gestamp's customers include almost all well-known car manufacturers.

Traditionally, the driving characteristics of a vehicle determine the design criteria of the chassis. In addition to the fatigue strength of the individual components, such as the subframe, wishbones, track control arms and camber links, the stiffness and strength of the individual components in combination play a decisive role in driving dynamics. Weight reduction by simply reducing component wall thicknesses is therefore limited and must be achieved through constructive, economical lightweight design. The motto "the right material in the right place" determines the selection of lightweight materials. Steel, followed by aluminium materials, plays an overriding role thanks to its outstanding properties, global availability and sustainability. Fibre composites and the hybridisation of components are currently being researched and will expand Gestamp's lightweight construction strategy in the future.

Gotenstr.91
33647 Bielefeld
North Rhine-Westphalia
Germany
www.gestamp.com



Organisation type

Large enterprises

Sector



Employees

500 and more

Turnover

More than €50m

Funding

n/a



About this organisation

Main areas covered	Automotive components
Infrastructure	R&D centres, Test fields with test benches, Materials laboratories, CAE/CAD, Prototype construction
Certifications	ISO 9001, IATF 16949, ISO 14001, ISO 45001, ISO 50001
Keywords	Chassis, Car body, Lightweight construction, Electromobility, Automotive components
Memberships	Sernauto, EFB e.V., CLEPA, IEF (Family Business Institute), CCE (Spanish Chamber of Commerce)

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components	✓	✓	✓
Services & consulting Training, Testing and trials, Prototyping, Validation, Simulation	✓	✓	✓

Overview of lightweighting expertise

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

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing Deposition welding, Others (Welding and assembly,)			✓
Coating (surface engineering) Painting, Powder coating, Others (Cataphoretic dip coating,)	✓	✓	✓
<i>Fibre composite technology</i>			
Forming Bending, Impact extrusion, Compression moulding, Stretch forming, Thermal converting, Rolling, Others (Hot and cold forming, HSS punching, hydroforming, roll forming, injection moulding)	✓	✓	✓
Joining Welding	✓	✓	✓
<i>Material property alteration</i>			
Primary forming Extrusion	✓	✓	✓
Processing and separating Turning, Milling, Shearing/punching			✓
<i>Textile technology</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
Composites			
Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP)	✓		
<i>Fibres</i>			
<i>Functional materials</i>			
Metals			
Aluminium, Steel	✓	✓	
<i>Plastics</i>			
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

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Contacts

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