

Lightweight System Technologies KORROPOL GmbH

About this organisation

Machine translation

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

Leichtbau-Systemtechnologien KORROPOL (LSK) is an internationally recognised high-tech manufacturer for innovative lightweight applications in mechanical and plant engineering, aerospace and energy technology. With more than 50 years of experience in fibre composites, we are one of the companies with the longest tradition of GRP and CFRP processing in Germany.

LS KORROPOL is part of a unique technology and expertise network that we can access at any time for development and production projects. The Institute for Lightweight Construction and Plastics Technology at TU Dresden and Leichtbau-Zentrum Sachsen GmbH are excellent partners who support us in methodical design, realistic simulation, practical testing of structural components subject to static, cyclical and dynamic loads and in the development of efficient manufacturing processes using fibre-reinforced plastic composites, light metals and their hybrids.

Cunnersdorfer Straße 63
01328 Dresden
Saxony
Germany
www.korropol.de



Organisation type

Small or medium-sized enterprise

Sectors



Employees

10 up to 49

Turnover

€2m - €10m

Funding

n/a



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About this organisation

Main areas covered	Modelling and toolmaking, GRP components and CFRP components, Development of manufacturing processes, Bonding gauges and mounting frames, Construction and design
Infrastructure	Hand laminator and VARI, RTM process chain, Prepreg and autoclave, Tape winding systems, CNC milling centres
Certifications	ISO 9001
Keywords	Toolmaking, CFRP components, GRP components, Rail vehicle, Process development
Memberships	

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Systems and end products, Tools and moulds		✓	✓
Services & consulting Consulting, Testing and trials, Engineering, Prototyping, Technology transfer, Maintenance and repair		✓	✓

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
Design & layout Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction		✓	✓
Functional integration Media conductivity, Thermal activation			✓
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), Materials analysis, Destructive analysis			✓
Modelling and simulation Processes, Structural mechanics			✓
Plant construction & automation Plant construction, Handling technology			✓
Recycling technologies Upcycling			✓

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing, Laminated object manufacturing (LOM)		✓	✓
<i>Coating (surface engineering)</i>			
Fibre composite technology Filament winding, Manual lamination, Resin infusion process, Resin transfer moulding, Pre-preg processing, Vacuum infusion, Others (Resin Powder Moulding (RPM) Thermoset Sheet Forming (TSF))		✓	✓
Forming Thermal converting, Deep-drawing			✓
Joining Hybrid joining, Adhesive bonding, Sewing, Riveting, Screwing			✓
Material property alteration Heat treatment			✓
Primary forming Pultrusion			✓
Processing and separating Drilling, Milling, Sawing, Grinding, Cutting			✓
Textile technology Preforming			✓

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials Wood			✓
Cellular materials (foam materials) Closed-pore, Open-pore, Syntactic foams			✓
Composites Aramid fibre composites, Basalt fibre-reinforced plastic, Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Short fibre-reinforced concrete, Natural fibre reinforced plastics (NFRP)		✓	✓
Fibres Aramid fibres, Basalt fibres, Glass fibres, Ceramic fibres, Carbon fibres, Natural fibres, Others (UHMWPE)			✓
<i>Functional materials</i>			
Metals Aluminium, Steel, Titanium			✓
Plastics Thermoset plastics, Thermoplastics			✓
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

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Contacts

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