LaVa-X GmbH

Laser beam welding in a vacuum

About this organisation

Machine translation

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

LaVa-X is a provider of solutions and supports customers with their joining technology challenges. In addition to the development, production and sale of product-related machines for laser beam welding in a vacuum, we also offer you complete process development from the feasibility study, through component production as a contract manufacturer, to the implementation of the system in your production environment.

LaVa-X GmbH enables the processing of technically demanding materials through the process of laser beam welding in a vacuum. For example, 6000 and 7000 aluminium alloys that are susceptible to hot cracking can be joined to the highest quality. In addition to chamber-based processes, we also offer solutions for mobile or localised vacuum applications. The vacuum is only generated locally around the welding point. This means that the process is also suitable for applications in automotive body construction, for example.

Kaiserstraße 100
52134 Herzogenrath
North Rhine-Westphalia
Germany
www.lava-x.de/de/

Organisation type
Small or medium-sized enterprise

Sector

Employees
10 up to 49

Turnover
Up to €2m

Funding

Main areas covered	Laser beam welding systems, Process development, Job Shop, Special machine construction
Infrastructure	TruDisk 12002 disc laser, Trudisk 2000 disc laser, SPI redPOWER QUBE 2000W, SPI redPOWER QUBE 500W, LaVaCELL 450
Certifications	ISO 9001, ISO 14001
Keywords	Laser in a vacuum, Laser, Laser in negative pressure, Laser welding
Memberships	DVS e.V., EPIC

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products			
Services & consulting Consulting, Technology transfer	✓	✓	✓
Field of technology			
Design & layout Others (Design & layout of laser and LaVa-compatible components and assemblies)	✓	✓	✓
Functional integration Material functionalisation	✓	✓	✓
Measuring and testing technology Destructive analysis, Non-destructive analysis	✓	✓	✓
Modelling and simulation			
Plant construction & automation Plant construction, Automation technology, Handling technology	✓	✓	✓
Recycling technologies			

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing Others (LaVa melting)	✓	✓	
Coating (surface engineering)			
Fibre composite technology			
Forming			
Joining Hybrid joining, Soldering, Welding	✓	✓	✓
Material property alteration Heat treatment	✓	✓	
Primary forming			
Processing and separating Drilling, Turning, Milling, Sawing, Grinding			✓
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			
Fibres			
Functional materials			
Metals Aluminium, Intermetallic alloys, Magnesium, Steel, Titanium, Others (Mixed compounds such as Al/Cu, Al/Fe, Cu/Fe etc.)	✓	✓	✓
Plastics			
Structural ceramics			
(Technical) textiles			

Contacts

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Contacts

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