

About this organisation

Machine translation

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

The EVOBEAM team has more than 30 years of experience in the development and production of vacuum systems for high-precision, high-productivity processes in the automotive and aerospace industries. EVOBEAM specialises in additive manufacturing and welding technology with the electron beam and laser in a vacuum. Our expertise includes vacuum furnaces and presses as well as CNC and real-time controls.

Additive manufacturing technologies can make a significant contribution to the creation of complex lightweight structures. This applies in particular to the LPBF process. The technology used by Evobeam, the LPBF process in a vacuum at high preheating temperatures, is particularly suitable for processing refractory metals such as titanium. The high preheating temperatures of up to 800 degrees minimise distortion. Evobeam's wire-based additive processes, whether with electron beam or laser, also offer the potential to produce more complex workpieces in a much more material-friendly and cost-effective way. The focus here is on titanium and aluminium.

Am Hofgut 5
55268 Nieder-Olm
Rhineland-Palatinate
Germany
evobeam.com



Organisation type

Small or medium-sized enterprise

Sector



Employees

10 up to 49

Turnover

€2m - €10m

Funding



About this organisation

Main areas covered Electron beam welding machines, Laser welding machines in a vacuum, LPBF and DED-LB-w in a vacuum, DED-LB-w under atmosphere, EBAM - Electron beam DED-EB-w

Infrastructure

Certifications ISO 9001, ISO 3834, DIN 2303 Q1Q2Q4

Keywords

Memberships DVS e.V.

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Machines and plants	✓	✓	✓
Services & consulting Testing and trials, Engineering	✓	✓	✓
Field of technology			
<i>Design & layout</i>			
<i>Functional integration</i>			
<i>Measuring and testing technology</i>			
<i>Modelling and simulation</i>			
Plant construction & automation Plant construction, Automation technology, Robotics	✓	✓	✓
<i>Recycling technologies</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing Deposition welding, Electron beam melting, Selective laser melting (SLM, LPBF, ...), Selective laser sintering (SLS)	✓	✓	✓
<i>Coating (surface engineering)</i>			
<i>Fibre composite technology</i>			
<i>Forming</i>			
Joining Welding	✓		✓
<i>Material property alteration</i>			
<i>Primary forming</i>			
<i>Processing and separating</i>			
<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>			
<i>Composites</i>			
<i>Fibres</i>			
<i>Functional materials</i>			
Metals			
Aluminium, Intermetallic alloys, Magnesium, Steel, Titanium	✓		✓
<i>Plastics</i>			
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

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Contacts

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