

# Clean-Lasersysteme GmbH (cleanLASER)

## Cleaning and structuring with laser radiation

### About this organisation

#### Machine translation

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

cleanLASER develops and produces high-precision laser systems for laser cleaning and industrial surface treatment.

Clean-Lasersysteme GmbH (cleanLASER) specialises in the precise joining pre-treatment of lightweight materials using laser light. Automobile manufacturers, aviation companies and numerous suppliers in Germany and abroad have been using cleanLASER in series production for many years. Optimum results have been achieved with aluminium, copper and magnesium, for example. The flexibility and market maturity make this sustainable technology accessible to a wide range of users. In addition to industrial applications, the focus is also on continuous research and development. For example, the 3KLANK research project is developing a 3 µm beam source for use in the pre-treatment of fibre composite materials for bonding and painting.

Dornkaulstraße 6-8  
52134 Herzogenrath  
North Rhine-Westphalia  
Germany  
[www.cleanlaser.de/de/](http://www.cleanlaser.de/de/)



#### Organisation type

Small or medium-sized enterprise

#### Sectors



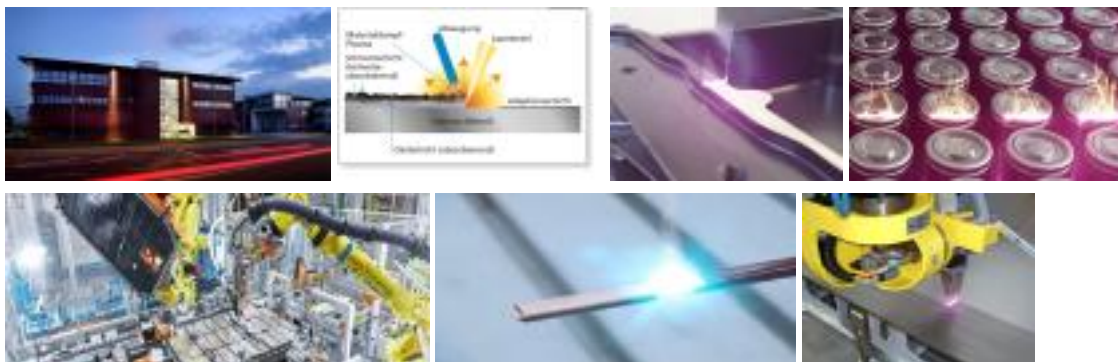
#### Employees

50 up to 249

#### Turnover

€10m - €50m

#### Funding



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<b>Main areas covered</b>	Surface treatment, Laser beam source development, Measurement and process analysis technology, Feasibility studies
<b>Infrastructure</b>	Laser systems from 20 W to 1.6 kW, Optics development, Automation systems, Training and education centre
<b>Certifications</b>	ISO 9001, ISO 14001
<b>Keywords</b>	Laser process, Environmental friendliness, Structuring, Paint stripping and decoating, Pre-treatment
<b>Memberships</b>	LASER.region.AACHEN, AiF SME Research Network

### Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Offer</b>			
<b>Products</b> Parts and components, Machines and plants, Software & databases, Systems and end products	✓	✓	✓
<b>Services &amp; consulting</b> Training, Consulting, Testing and trials, Engineering, HR services, Validation, Maintenance and repair	✓	✓	✓

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	Research	Development	Manufacturing & Supply
<b>Field of technology</b>			
<b>Design &amp; layout</b> Others (Design & layout of laser-compatible components and assemblies)	✓	✓	✓
<b>Functional integration</b> Sensor technology, Thermal activation, Material functionalisation		✓	✓
<b>Measuring and testing technology</b> Component and part analysis, Visual analysis (e.g. microscopy, metallography), System analysis, Materials analysis, Destructive analysis, Non-destructive analysis	✓	✓	✓
<b>Modelling and simulation</b> Life-cycle analysis, Optimisation, Processes, Materials, Reliability validation		✓	✓
<b>Plant construction &amp; automation</b> Plant construction, Automation technology, Handling technology		✓	✓
<b>Recycling technologies</b> Material separation, Recycling	✓	✓	✓

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	Research	Development	Manufacturing & Supply
<b>Manufacturing process</b>			
<i>Additive manufacturing</i>			
<i>Coating (surface engineering)</i>			
<i>Fibre composite technology</i>			
<i>Forming</i>			
<i>Joining</i>			
<b>Material property alteration</b>			
Heat treatment	✓	✓	✓
<i>Primary forming</i>			
<b>Processing and separating</b>			
Others (Paint stripping, decoating, mould cleaning, pre-treatment, structuring)	✓	✓	✓
<i>Textile technology</i>			

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

### Contacts

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## Contacts

Ms Bettina Schulz

*Administration*

[info@cleanlaser.de](mailto:info@cleanlaser.de)