Cleaning and structuring with laser radiation

About this organisation

Machine translation

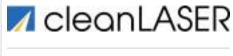
This organisation has been machine-translated based on data provided in German.

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/



Organisation type

Small or medium-sized enterprise

Sectors













Employees

50 up to 249

Turnover

€10m - €50m

Funding



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

Overview of lightweighting expertise

Machine translation

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

| | Research | N Development | Manufacturing & Supply |
|--|----------|------------------|------------------------|
| Offer | | | |
| Products Parts and components, Machines and plants, Software & databases, Systems and end products | ✓ | ✓ | ✓ |
| Services & consulting Training, Consulting, Testing and trials, Engineering, HR services, Validation, Maintenance and repair | ✓ | ~ | ~ |

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| Overview of lightweighting expertise | | | |
|---|------------------|------------------|----------------------------|
| Machine translation This organisation has been machine-translated base | d on data provic | ded in German. | |
| | Research | N Development | /Janufacturing & Supply |
| Field of technology | | | |
| Design & layout Others (Design & layout of laser-compatible components and assemblies) | ✓ | ✓ | ✓ |
| Functional integration Sensor technology, Thermal activation, Material functionalisation | | ~ | ✓ |
| Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), System analysis, Materials analysis, Destructive analysis, Non-destructive analysis | ✓ | ✓ | ✓ |
| Modelling and simulation Life-cycle analysis, Optimisation, Processes, Materials, Reliability validation | | ~ | ✓ |
| Plant construction & automation Plant construction, Automation technology, Handling technology | | ✓ | ✓ |
| Recycling technologies Material separation, Recycling | ✓ | ✓ | ✓ |

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| Overview of lightweighting expertise | | | |
|---|--------------------|----------------|---------------------------|
| Machine translation | | | |
| This organisation has been machine-translated ba | sed on data provid | ded in German. | |
| | Research | Development | Manufacturing & Supply |
| Manufacturing process | | | |
| Additive manufacturing | | | |
| Coating (surface engineering) | | | |
| Fibre composite technology | | | |
| Forming | | | |
| Joining | | | |
| Material property alteration Heat treatment | ✓ | ✓ | ✓ |
| Primary forming | | | |
| Processing and separating Others (Paint stripping, decoating, mould cleaning, pre-treatment, structuring) | ✓ | ~ | ~ |
| Textile technology | | | |

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Overview of lightweighting expertise **Machine translation** This organisation has been machine-translated based on data provided in German. Manufacturing **Development** & Supply Research Material Biogenic materials Cellular materials (foam materials) Composites Glass-fiber reinforced plastics (GFRP), Carbonfiber reinforced plastics (CFRP) **Fibres** Functional materials Metals Aluminium, Magnesium, Steel **Plastics** Structural ceramics (Technical) textiles

Contacts

Machine translation

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| Ms Bettina Schulz Administration info@cleanlaser.de | Contacts |
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