

THE NEW LIGHTNESS

Laser cleaning in automotive manufacturing



LASERCLEANING



The automotive industry places the highest demands on process reliability, quality and efficiency. Modern manufacturing processes must not only be precise and economical, but also meet growing demands for sustainability and flexibility.

SLCR laser systems enable reliable and reproducible surface processes - from pre-treatment prior to joining to the removal of coatings from complex components.

Because of their combination of maximum precision, reliable control and flexible automation concepts, SLCR systems are suitable for both: manual workstations and fully automated production lines.

Renowned manufacturers in Germany and abroad are integrating our systems into their process chains, enabling them to meet new challenges such as those posed by e-mobility and the Euro 7 standard. This is because laser surface treatment offers decisive advantages:



Precision

Gentle and very precise machining



Sustainability

No blasting media or chemical processes



Efficiency

Time and cost savings

LIGHTCLEANER

The all-rounder for manufacturing



GOOD REASONS FOR LASER CLEANING

Use only light to clean components and workpieces. Pulsed laser radiation cleans all metallic and many other materials, e.g. CFRP, in a gentle and environmentally friendly manner.

EASY TO USE

After a brief introduction and training session (online or on site), you can get started right away. Our systems are installed at your site using the plug-and-play method and can be easily started up for the desired application thanks to defined "recipes". Every system can be designed to be Industry 4.0 ready.

PRECISELY TAILORED

Each system is developed and implemented by our specialized engineers and programmers to meet customer-specific requirements

GREEN TECHNOLOGY



No chemicals, no other media.
Just light.

MORE INFORMATION

about our industry expertise:



QUESTIONS?

We look forward to your call!
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System example 1: System for removing flux residues from battery coolers in the E-Motive area. Preparation for subsequent cathodic dip coating.

Typical applications include:

- **Adhesive bonding and welding pretreatment**
Removal of oils, greases and corrosion layers for reliable activation of joining areas - for permanently stable bonds in steel, aluminum or CFRP.
- **Coating and paint removal**
Precise, partial removal of paint layers, e.g. on alloy wheels or body components, without masking and without damaging the base material.
- **Tire and rubber industry**
Cleaning and marking tires or tool molds – quickly, cleanly and without the use of chemicals.
- **E-mobility components**
Pre-treatment of contact and sealing surfaces on battery modules, cell connectors or fuel cell systems for reliable performance in series production.



System example 2:
System for stripping wheel caps (painting without masking)



System example 3:
System for pre-cleaning brake pads