

ALL-ROUNDER

Laser surface treatment
in the tire industry



LASERCLEANING



With state-of-the-art laser cleaning, precise laser marking and laser corrections, you can increase productivity, quality and sustainability in tire production. Put an end to excessive waste in production by specifically removing causes of non uniformity with laser technology. Fully automated, with maximum efficiency and the highest precision.

DIVERSE APPLICATIONS IN THE TIRE INDUSTRY:

- Mold cleaning for tire vulcanization
- Removal of release agents from the inner layer of tires prior to further processing
- Improvement of tire uniformity through precise removal of rubber
- Marking serial numbers, QR/data matrix codes or logos
- Adhesive preparation inside the tire for a wide range of applications



Precision

Gentle and very
precise machining



Sustainability

No blasting media or
chemical processes



Efficiency

Time and
cost savings

LIGHTCLEANER

In the tire-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.

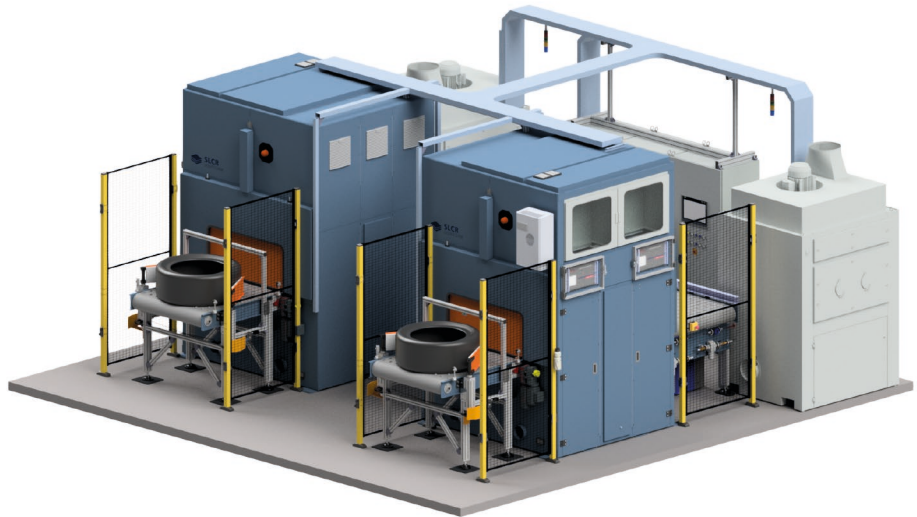
MORE INFORMATION

about our
industry
expertise:



QUESTIONS?

We look forward to your call!
+49 2423 950 93-0



Technology Details:

- **Laser cleaning:**
Uses short, intense pulses of light to vaporize or remove unwanted layers.



- **Laser marking:**
Creates high-contrast, permanent markings by removing material or changing color.



- **Laser rework:**
Reduces scrap by specific removal of rubber to improve tire uniformity.

Advantages at a glance:

1. **Residue-free cleaning** – reliably removes release agents, carbon, dust, or rubber deposits
2. **Reduced scrap** – precise and repeatable tire finishing
3. **No chemicals** – environmentally friendly and safe for employees, as well as saving on disposal costs
4. **Traceability** in production & quality assurance
5. **Precise laser marking** – permanent marking for serial numbers, QR codes, logos, or production data
6. **Less downtime** – fast and precise, without long cooling or drying times
7. **Longer tool life** – smooth surface treatment
8. **Improved ergonomics** – no manual tasks necessary, 100% automation possible