

RESIDUE-FREE CLEANING OF TIRE MOLDS

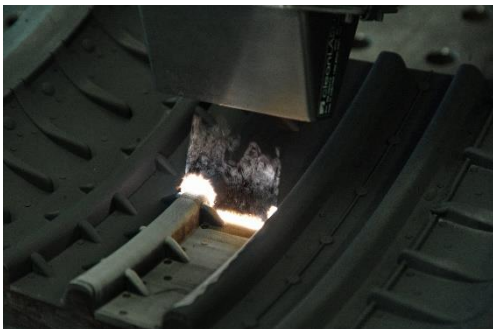
Vulcanization and rubber molds



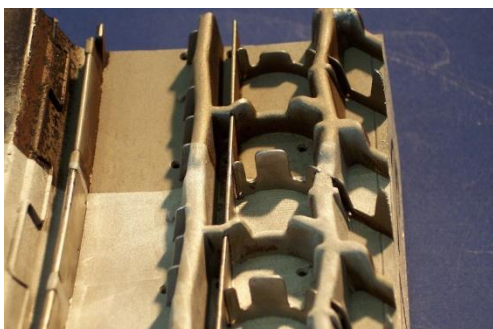
Whether manually guided or robot-operated - cleanLASER achieves excellent results when it comes to cleaning vulcanization molds. In an installed position, molds can be cleaned flexibly and comfortably with a hand-guided processing optics. Dismantled molds and segments can be processed particularly quickly using fully automated systems.



The laser cleans the sensitive mold surface damage- and residue-free, even applied to valves for mold venting such as „Eurovents“ or „Thielmannvents“. Due to the absence of mechanical force, profile ridges remain undeformed. The process thus extends the service life of the molds and the quality of the tires at the same time. The same applies to „puzzle molds“, as their edges are particularly well protected by laser processing.



- Manually or robot-guided operation
- Easy integration into existing production processes
- Damage-, wear- and residue-free
- Reproducible
- Quality control through process monitoring
- Economical and energy-saving
- Fast and quiet
- No blasting and cleaning media
- Complete suction of residual particles
- Eco-friendly process, awarded with the German Environmental Prize
- Over 40 systems in operation worldwide



Hand-guided or automated – cleanLASER provides a large product portfolio

Gentle laser cleaning allows residues to be removed leaving no abrasive behind or causing no damage to the sensitive mold surfaces.

cleanLASER offers compact, mostly modular laser systems for the treatment of vulcanization molds.

The special laser optics with long optical fiber is easy to operate and can also be flexibly used for a wide range of mold and profile geometries as well as for hot molds.

Please feel welcome to contact us for more information on our tire interior cleaning with the Tire Inner Cleaner.

EXAMPLES FOR CLEANLASER SYSTEMS



CleanLASER offers special compact, mostly modular laser systems and processing optics for cleaning and processing: From the 100 watt Low Power (as FFC with homogeneous beam profile) to the 1600 watt High Power Laser.



PLEASE CONTACT US – WE ARE HAPPY TO ADVISE!

APPLICATION EXAMPLES

- Automated cleaning of tire molds in dismantled condition
- Manual cleaning of tire molds in dismantled condition as well as in the vulcanization press
- Marking and labeling of mold components and tires
- Bonding pre-treatment of tire inner surfaces for the mounting of air pressure monitoring systems and RFID sensors
- Full-surface bonding pre-treatment of tire inner surfaces for the installation of Run Flat structures
- Cleaning of steel molds for the rubber mold parts industry, e.g. O-rings
- Bonding pre-treatment of metal parts for rubber-metal parts production

6.2022 Subject to technical changes

 **cleanLASER**
cleaning with light