

Equipment for mold cleaning



Basic laser system features

- High performance solid state lasers
- Up to 1.000 Watts average power
- Integrated cooling system
- Different optics for multiple applications available
- Easy integration due to compact size and fiber connection
- Low maintenance

Cost aspects:

- Low running costs (1-5 € per hour)
- High production rates
- Automated or handheld use

Clean-Lasersysteme offers state of the art laser cleaning technology. Complete, powerful, diode pumped solid state laser systems can be easily integrated in a new or existing production process. Competitive cleaning performance combined with low running costs offer excellent economy.

The core competence of equipment produced by Clean-Lasersysteme is exhibited in the precise removal of thin organic oxide layers and release agents. With laser units ranging in power from

20 to 1.000 Watts, Clean offers a wide range of equipment for both small and large areas to be cleaned in the cycle time you require.

The fiber coupled base units can be equipped with different optical laser heads. An optimized and capable appliance can be achieved by configuring individual systems specifically for a customer's application. Systems are available in different configurations from a compact and mobile "backpack" size to fully automated robot based laser cells.



Ultra compact laser optics type OSH 50 for manual use only

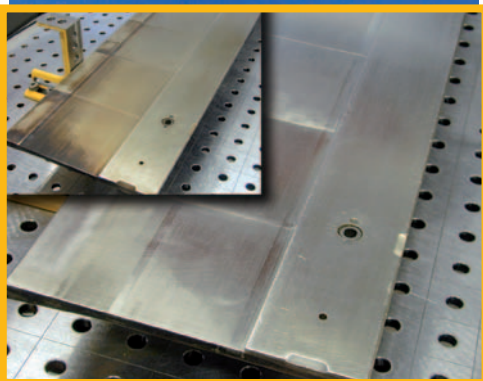
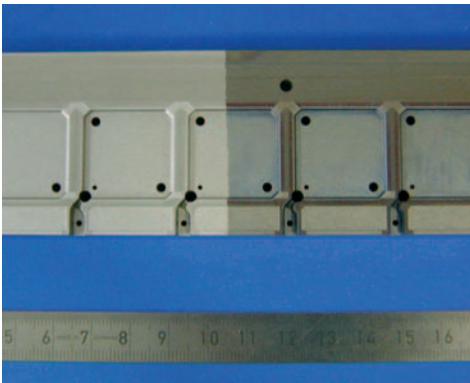
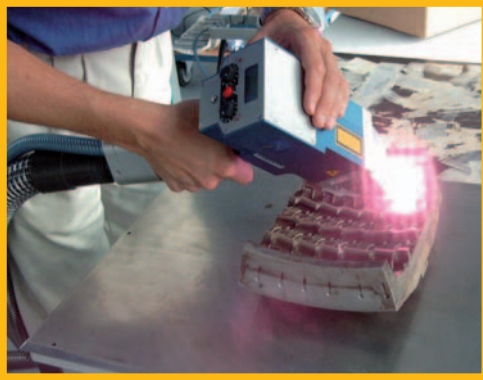


Workstation system for semi automated treatment



Laser optics type OSA 70 for robot based applications

Surface treatment for sensitive molds



- Mold cleaning rates up to 22m²/h
- Precise consistent cleaning results
- Safely cleans without abrasion
- Extends mold service life
- Easy to automate
- Molds can be cleaned while hot

Precision mold cleaning using laser technology is an economical alternative to traditional methods. Laser mold cleaning is also a “green” process that quickly removes difficult residues without producing chemical or abrasive waste. This remarkable technique extends the service life of valuable molds that are used to form critical parts in a wide range of industries.

Clean-Lasersysteme GmbH has engineered unique laser systems that use the power of pulsed laser energy to eliminate stubborn release agents and process residues while being gentle enough to avoid surface damage. Through careful testing, the laser beam is precisely adjusted to optimize cleaning effectiveness in the safest manner possible for each application. Extensive research has proven laser cleaning can consistently and safely clean delicate molds, again and again. The result is significantly extended tool life.

With laser cleaning rates up to 22m²/hour, manufacturers can increase production by minimizing the downtime required for mold cleaning. Further, the laser process is designed to clean hot molds at ambient air temperatures up to 70°C, thereby eliminating cleaning delays waiting for cool down. Laser mold cleaning is technology that’s designed to be safe, fast and versatile.

Let Clean-Lasersysteme show you how laser cleaning can save time, get more life out of your molds and save money!

