



## Precision Laser Cleaning Unit (TWIN-PULSE-SERIES) 100W, 200W, 300W

**Non-contact cleaning.**  
A quick and intense procedure – and still gentle to material.

Common applications include intense cleaning of plastic injection molds, car body and motor parts (e.g. cylinder heads and gears), as well as many other general procedures like removal of varnish, de-coating and other cleaning procedures for surfaces.

Wherever you go – it won't leave you alone: This practical laser cleaning unit with a weight of only 68KG fits into every trunk, ideal for mobile applications at the site of the client or also on construction sites. From classical rust removal in industrial environment and workshops, up to cleaning of natural stone facades, the scope of this pulsed laser cleaning unit is very large. Optionally, a pilot laser system can be integrated to make positioning of the laser head easier.

### Applications:

- Cleaning of tool molds.
- Cleaning of car body and motor parts.
- Derusting.
- Removal of varnish, de-coating.
- Cleaning of concrete and natural stone surfaces.
- Cleaning of wood surfaces.
- Cleaning of weld seams.
- Cleaning of ceramic tiling and joints

### Particular Features:

- Cleaning power for different standard applications: 100W, 200W or 300W.
- Flexible laser beam width. Standard: 10 - 190mm.
- 2D focus objective: 6 different laser cleaning patterns.
- Pulsed fiber laser with air cooling.
- Lightweight handgun for scanning of the surface: Only 0.7KG.
- Length of flexible fiber optic cable: 5m, up to 7m as an option.
- High efficiency, low space requirement, high flexibility.
- Simple operation.
- Outstanding price / performance ratio.
- Menu language selectable.
- Manufacturer's warranty: 1 year.



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Lüdenscheid  
Attendorf

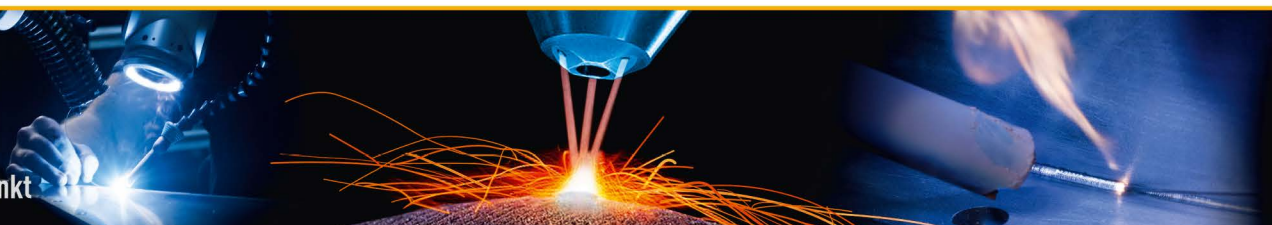
Nottebohmstraße 16  
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Mo bis Fr: 6.45 – 16h  
Mo bis Fr: 6.30 – 15h

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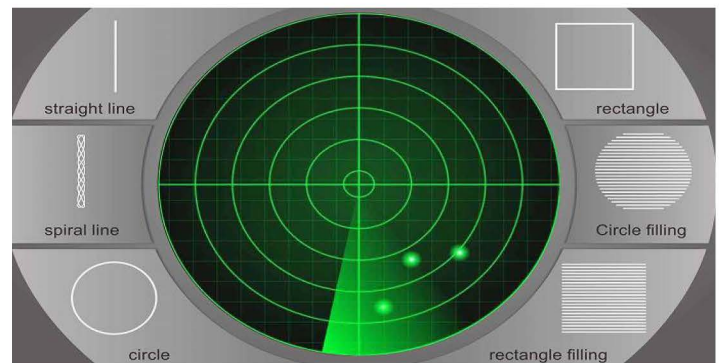
Specification:

Laser power	100W / 200W / 300W
Laser source type	Pulsed fiber laser
Laser wave length	1064±5nm
Pulse width (ns)	10-500ns
Modulation frequency	1-4000kHz
max. single pulse energy (MJ)	≤1.8 MJ
Humidity	10-95%
Admissible room temperature	0-40°C
Power supply	230V / 1PH / 50-60HZ
Cooling method	Air cooling
Power consumption	450W / 600W / 800W
Length of fiber-optic cable	5m, up to 7m as an option.
Width of laser beam	10 - 190mm
Types of laser beam	6 different types
Cleaning head	2D-Cleaning head
Safety button for cleaning head	Yes
Alarm lamp	Yes
Menu Language	Variable adjustment
Weight cleaning head	0.7KG
Machine dimensions (LxWxH)	530 x 420 x 760mm
Gross weight machine	68KG

Simple Operation via Touch-Screen (Several Languages Provided):

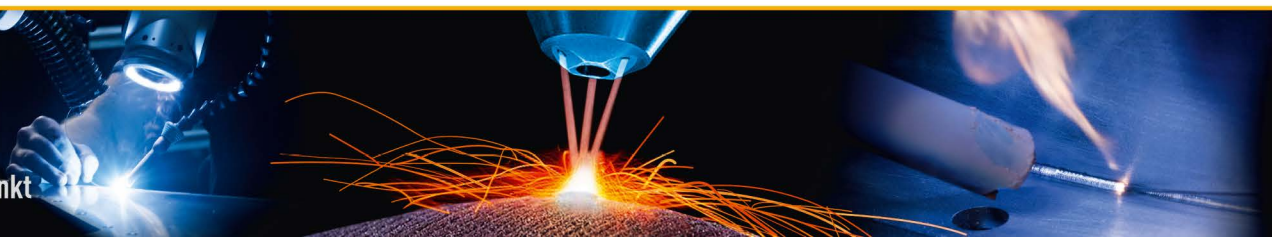
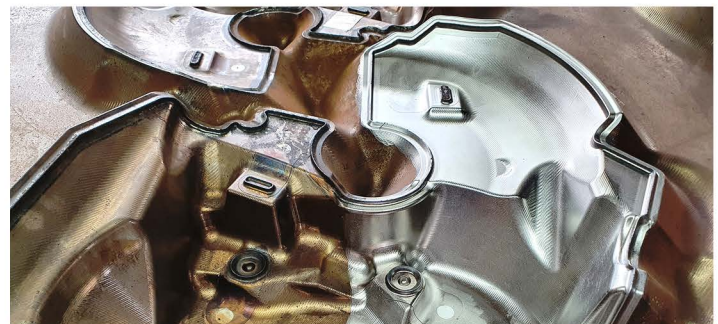


6 different laser cleaning patterns:



We will be happy to advise you on selecting the appropriate machine type that meets your requirements. Individual designs are tailored to your needs and manufactured by our mechanical engineering team according to your wishes. Contact us and ask for a non-binding price and delivery time. We would be happy to rent you one of our machines until your own is ready.

Example (before /after cleaning):





## Laser Cleaning

### HIGH-TECH and Quality at a Fair Price

As a manufacturer of laser cleaning machines, it is our main aim to make available to the clientele highly reliable machines featuring optimum quality. Our mechanical construction meets all challenges concerning HIGH-END Surface treatment, which represents a new element in our product portfolio composed of reliable and valuable machines equipped with advanced laser technology. The concentrated energy transfer to the surface creates a sudden increase in temperature and an effect similar to an explosion, causing impurities to vaporize at once without leaving a trace or residues. Our business network includes corresponding experienced suppliers producing innovative and reliable laser equipment, which we can offer to the clientele at fair terms and conditions, customized and tailored to applications in question.

We produce only machines which we have thoroughly tested and used in our own production as a service provider, knowing each model in detail. For this reason, we can offer service and support for the entire life cycle.

## Non-contact cleaning

### Expulses contamination – spares the material.

The new and innovative laser technology revolutionizes not only the industrial sector, but conquers also more and more private fields of application. Removal of varnish and decoating, derusting and removal of contamination belong to the tasks comfortably to be carried out by this method. Surfaces are cleaned thoroughly and intensely, and parts after treatment prove to be completely regenerated. The process is simple and quick, even for very comprehensive cleaning work. The concentrated energy of the laser beam eliminates deposits on injection molds, rust, lacquer, oil, soot, coatings, oxides and many other contaminations from metal, wood, natural stone and concrete.

Thanks to this recently developed cleaning method, cleaning of the surface takes place without damage to base material and edge rounding. The laser features a specific wavelength acting only on contamination of every kind and not on the material of a part being cleaned. The non-contact procedure, based on precisely targeted energy input, is also convenient for zones difficult to access.

Discover yourself a new level of refurbishment...

## Advantages of Laser Cleaning:

- Simple and quick in daily use.
- Dry and clean.
- Low noise level.
- Base material is neither removed nor damaged.
- Surface remains free of scratches, thanks to non-contact laser technology.
- Appropriate for both small and large surfaces.
- Ideally suited for zones hard to reach.
- Thoroughness and efficiency exceed the results of many other cleaning methods.
- Accurate and controlled cleaning jet.
- Residues nearly absent.
- Fast cleaning process with minimum delay.
- Minimum maintenance.
- Low operating cost.



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