



## Aggressive Laser Cleaning Unit (HIGH-POWER-SERIES) 1000W, 1500W, 2000W, 3000W

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

The perfect alternative to classic sand and dry ice blasting. Our high-power systems are particularly suitable for large-scale derusting and paint stripping of components.

Our integrated Crossjet system within the scan head largely increases the lifetime of the protective glass. Optionally, a pilot laser system can be integrated to make positioning of the laser head easier.

### Applications:

- Rust removal.
- Removal of varnish, de-coating.
- Cleaning of surfaces, even in presence of strongest contamination.
- Cleaning of weld seams.

### Particular Features:

- Cleaning power for different heavy-duty applications: 1000W, 1500W, 2000W or 3000W.
- Flexible laser beam width:  
1000W-2000W standard 10 – 400mm  
3000W standard 10 – 550mm
- 2D focus objective: 6 different laser cleaning patterns.
- Fiber laser with water cooling for permanent use.
- Lightweight handgun for scanning of the surface: Only 1KG.
- Length of flexible fiber optic cable: 8m, up to 30m 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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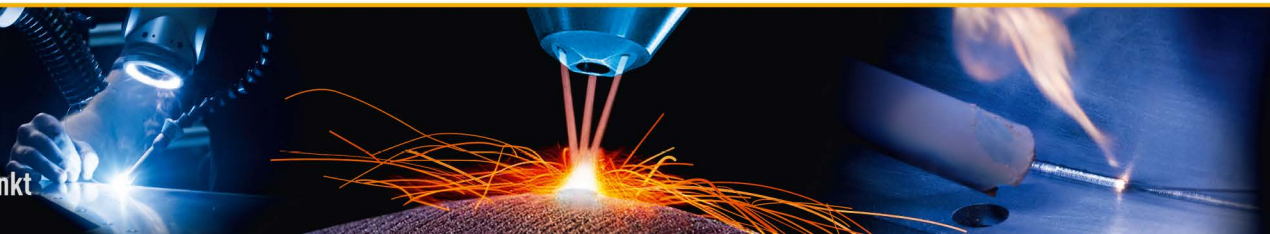
Lüdenscheid  
Attendorf

Nottebohmstraße 16  
Askay 11

02351 98 00-66  
02722 63 59-140

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

info@klb-laser.de  
www.klb-laser.de





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



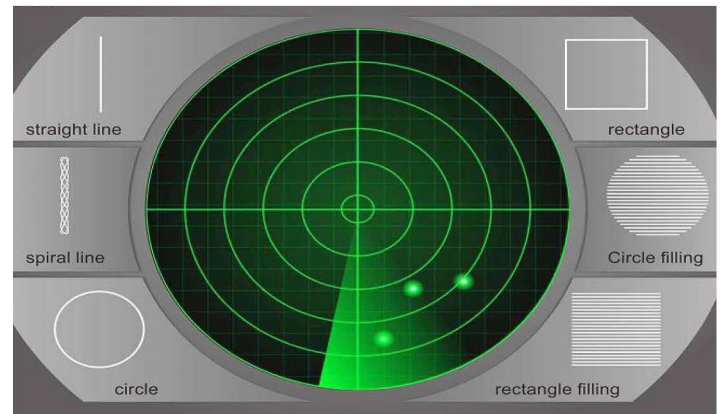
Precise Parameter Optimization:



Specification:

Laser power	1000W / 1500W / 2000W / 3000W
Laser source type	CW-Fiber laser
Laser wave length	1080±5nm
Modulation frequency	1-5kHz
Humidity	<70%
Admissible room temperature	5-40°C
Power supply	400V (32A)
Cooling method	Water cooling
Power consumption	5700W / 6800W / 7700W / 8900W
Length of fiber-optic cable	<30m (optional)
Width of laser beam	1000W-2000W: 10 to 400mm 3000W: 10 to 550mm
Types of laser beam	6 different types
Cleaning head	2D-cleaning head with pilot laser
Safety button	yes
Alarm lamp	yes
Weight cleaning head	1KG
Machine dimensions (LxWxH)	1210 x 650 x 1280mm
Gross weight machine	220KG (incl. cooling water)

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.

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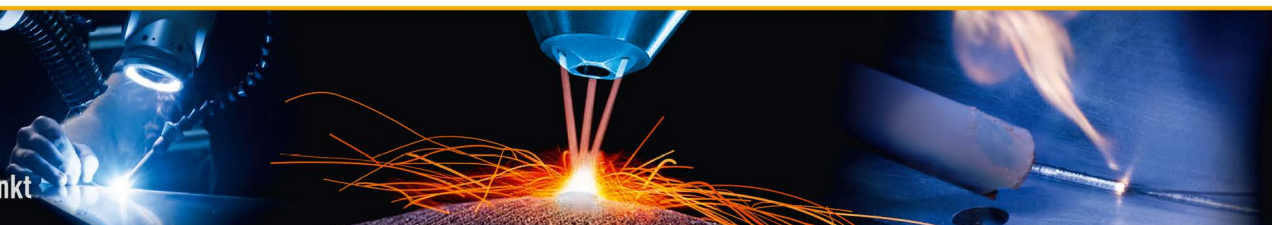
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## Laser Cleaning

### 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.

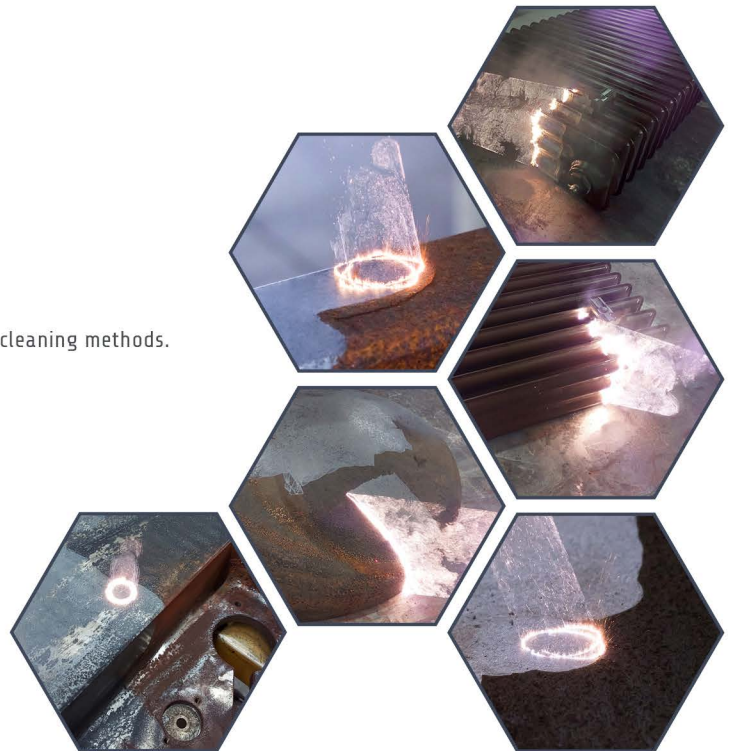
The new and innovative laser technology revolutionizes not only the industrial sector, but conquers also more and more private fields of application. Removal of varnish and de-coating, derusting and removal of contamination belong to the tasks comfortably to be carried out by this method. Surfaces are 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 rust, lacquer, oil, soot, coatings, oxides and many other contaminations from metal, natural stone and concrete.

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.
- Appropriate also for extended 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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