



Precision Laser Cleaning Unit (INFINITY-SERIES) 200W, 300W, 500W, 1000W

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

From classical rust removal in industrial environment and workshops, up to cleaning of natural stone facades, the scope of pulsed laser cleaning units is very large. 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.

This medium size model covers a great variety of applications. Equipped with a pilot laser at the cleaning head for easy focus detection, it enables work to be performed in a comfortable manner, even by beginners.

Applications:

- Cleaning of tool molds.
- Cleaning of car body and motor parts.
- Derusting.
- Removal of varnish, de-coating.
- Cleaning of wood and natural stone surfaces.
- Cleaning of gaps and tilings.
- Cleaning of weld seams.

Particular Features:

- Cleaning power for different standard applications: 200W, 300W, 500W or 1000W.
- Flexible laser beam width. Standard: 10 - 130mm.
- 2D focus objective: 6 different laser cleaning patterns.
- Pulsed fiber laser with water cooling for permanent use.
- Lightweight handgun for scanning of the surface: Only 1.35KG.
- Length of flexible fiber optic cable: 10m.
- High efficiency, low space requirement, high flexibility.
- Simple operation.
- Outstanding price / performance ratio.
- Pilot laser for simple focus detection.
- Menu language selectable.
- Manufacturer's warranty: 1 year.



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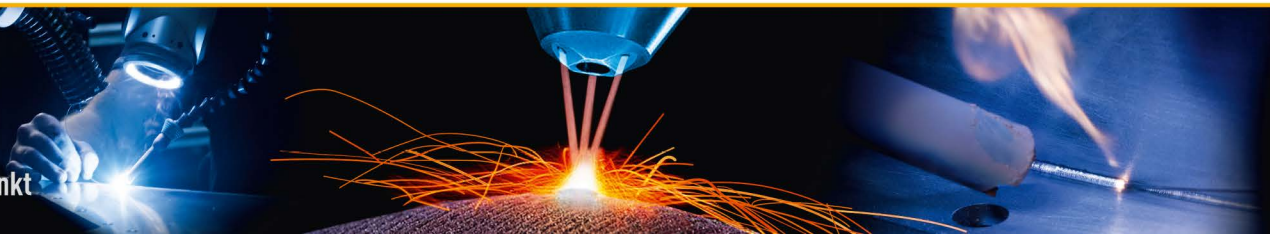
Lüdenscheid
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Mo bis Fr: 6.45 – 16h
Mo bis Fr: 6.30 – 15h

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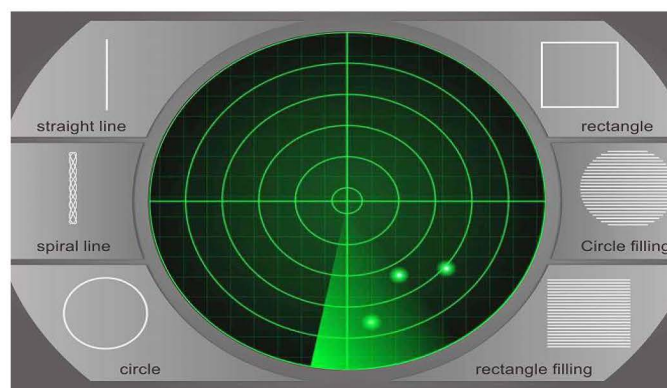




Simple Operation via Touch-Screen (Several Languages Provided):



6 different laser cleaning patterns:

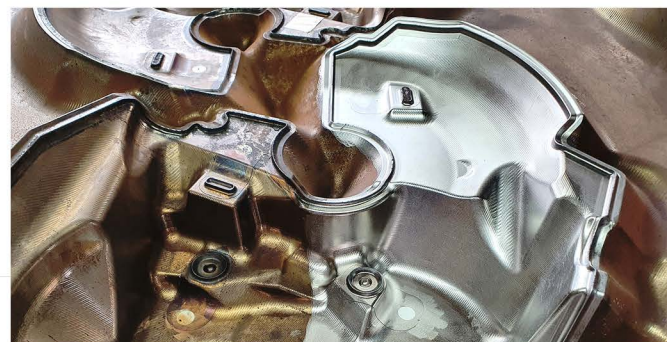


We will be happy to advise you on selecting the appropriate machine type that meets your requirements. Individual designs are tailored to your needs and manufactured by our mechanical engineering team according to your wishes. Contact us and ask for a non-binding price and delivery time. We would be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

Specification:

Laserleistung	200W / 300W / 500W / 1000W
Laser source type	Pulsed fiber laser (Top-Hat)
Laser wave length	1064±5nm
Pulse width (ns)	90 / 90-110 / 80-160 / 90-110
Modulation frequency (kHz)	10-50 / 20-50 / 10-50 / 10-50
max. single pulse energy (MJ)	10 / 12.5 / 25 / 50
Humidity	<80%
Admissible room temperature	5-40°C
Power supply	230V / 230V / 400V / 400V
Cooling method	Water cooling
Power consumption	2900W / 3500W / 4200W / 8900W
Length of fiber-optic cable	10 meter
Width of laser beam	200-500W: 10 to 130mm 1000W: 10 to 200mm
Types of laser beam	6 different types
Cleaning head	2D-cleaning head with pilot laser
Safety button	yes
Alarm lamp	yes
LED pilot laser at the head	2 pcs.
Weight cleaning head	1.35KG / 2.4KG
Machine dimensions (LxWxH)	200-500W: 1210 x 650 x 1280mm 1000W: 1550 x 800 x 1670mm
Gross weight machine	220KG / 480KG (incl. cooling water)

Examples (before / after cleaning):



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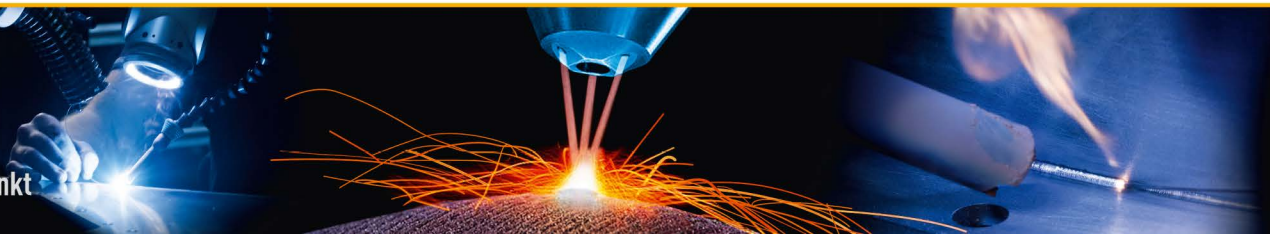
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Laser Cleaning

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 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. 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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Lüdenschied
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