

# Handheld Fiber Laser Cleaning Machine

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## Handheld Fiber Laser Cleaner Machine

- **Laser Type** :CW Laser (Continuous Wave Laser)
- **Laser Source Power** : 1000W/1500W/2000W
- **Scanning Width** : 160±10mm
- **Cleaning Efficiency** : 15-45m²/h
- **Input Voltage** : 220V, 1Phase
- **Cooling Method** : Water Cooling
- **Price Range**: **\$8500.00 to \$9000.00**
- **Application** to multiple scenarios-Mold cleaning,paint stripping or coating removal,pre-treatment of parts before spraying,aerospace component cleaning,oxides removal pre-treatment before soldering or welding,etc

Request a quote



**Handheld fiber laser cleaning machine** is a manual portable laser cleaner with 1000W, 1500W, or 2000W CW fiber laser generator for rust removal, paint stripping, coating removal, plating, oil, stain, dirt cleaning for metal, ceramic, stone, and rubber mold residue cleaning. Now the affordable portable handheld laser cleaning machine for sale at cost price.

## What is Laser Cleaning Machine and How Does it Work?

Laser cleaning is an environmentally friendly laser ablation or photoablation method to replace chemical and mechanical cleaning methods. Laser cleaning machine is a type of laser ablation machine to irradiate and heat the surface material of the object with a CW (Continuous Wave) laser or pulsed laser and make it evaporate or sublime to achieve the purpose of removing the surface material.

**Laser cleaning machine** is also known as laser cleaner, laser rust cleaning machine, laser paint removal machine, laser paint stripping machine, laser coating removal machine, laser rust removal machine, laser oxide removal machine, laser dirt cleaning machine, laser oil cleaning machine, laser descaler machine.

There are two most common types of laser cleaning machines:

One is CW fiber laser cleaning machine, another one is pulsed laser cleaning machine. CW fiber laser cleaning machine uses handheld clean head with continuous laser source. The advantage of CW cleaning machine is high cost performance. If you have low requirements for laser cleaning and only remove rust or thin paint of stainless steel, mild steel and iron, the cost effective CW laser cleaning machine can meet the requirements. CW laser cleaning machine powers support 1000W 1500W 2000W.

Pulsed laser cleaning machine is equipped with pulse laser source and galvo clean head. If you have high-value products need to clean and without harm the base materials, that must be use pulsed laser cleaning machine system. Laser cleaners are designed for laser degreasing, laser paint removal, laser zinc removal, laser film removal, laser coating. Laser cleaning machines are mainly used for rust removal from metal surface, paint removal treatment, plating, coating removal, oil, stain, dirt cleaning, and rubber mold residue cleaning.

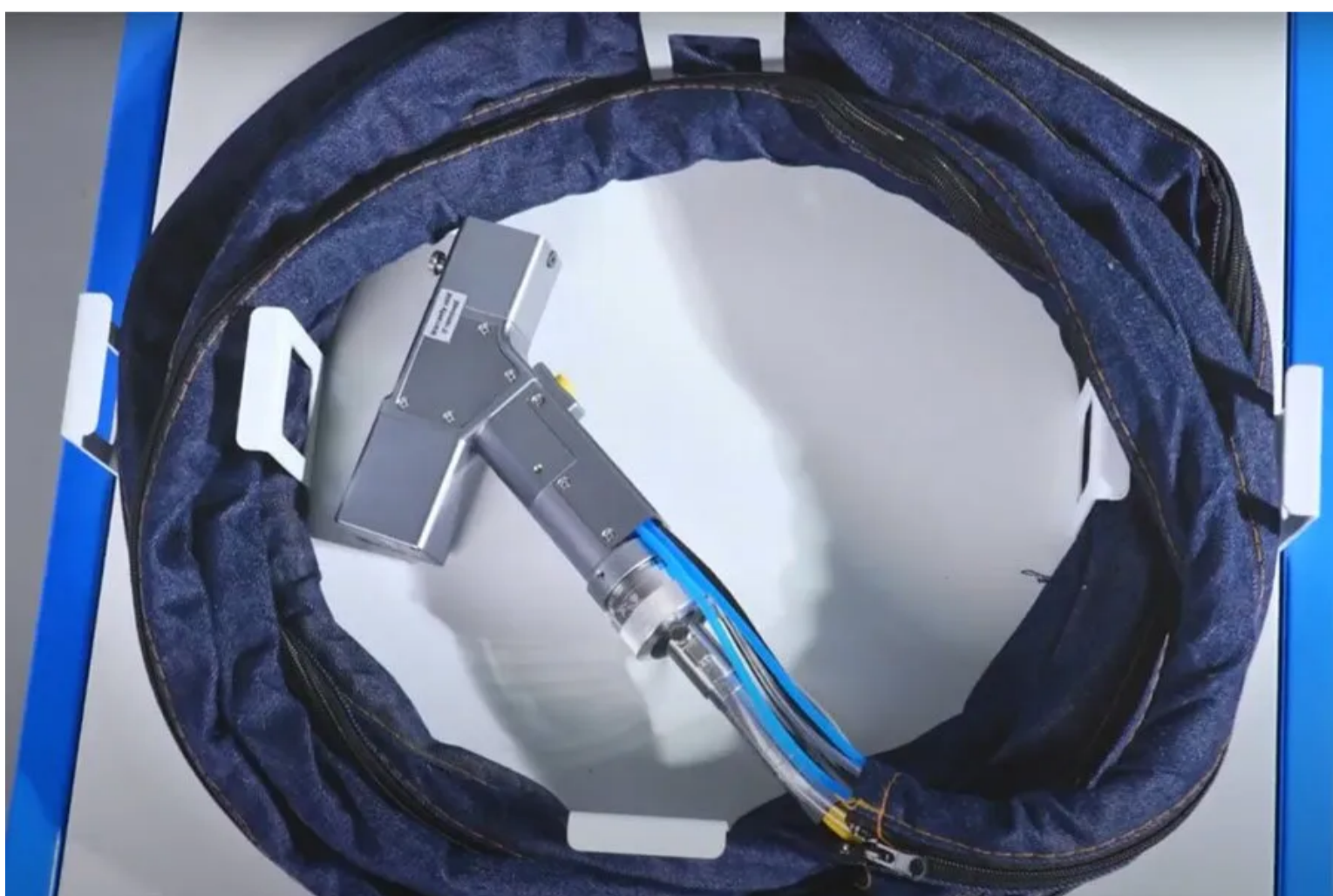




time-saving.

- Stable laser cleaning system, free maintenance.
- All the materials used in the products come from the best manufacturers, such as Maxphotonics, JPT, Schneider, etc.
- Electrical and circuit scientific planning, layout, standardized production process, high quality.
- For the cleaning system, you need to double-click the switch to start cleaning, which is safer to operate and avoid mistakes.
- Dust removal system to avoid damage to the lens caused by dust pollution, reduce replacement, reduce machine cost, and improve cleaning efficiency.





## Technical Parameter

Laser Source Power	1000W/1500W/2000W
Scanning Width	160±10mm
Laser Type	Continuous/Modulation
Total Power	6000-10000W(Including Chiller)
Cleaning Efficiency	15-45m²/h
Cable Length	Standard 10m(customizable 15m)
Laser Wavelength	1080±1nm
Input Voltage	220V, 1Phase
Environment Humidity	≤70% No Condensation
Cooling Method	Water Cooling
Cooling Water Requirements	Purified or Distilled Water
Machine Dimension(mm)	870*560*1050
Machine Weight(kg)	145/165/180

## Product Details



Handheld Laser Cleaning Machine

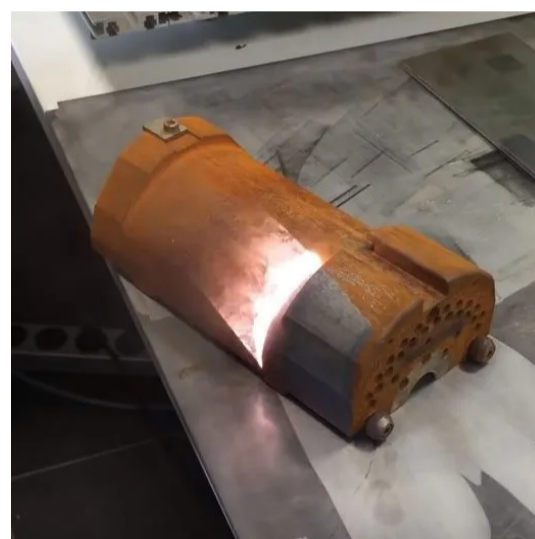
Laser Cleaning Head(Upgrade)

MAX Laser Source

- Laser cleaning machine for metal rust paint oil,etc.
- Energy saving and environmental protection.
- No damage to the base material.
- Cost saving, cleaning evenly.
- Adjustable Parameters to fit various materials and processing needs.

- Independent research and development,lightweight and easy to use.
- 400mm focal length,cleaning width up to 160mm.
- Short focus,large cleaning width,high tolerance,low light attenuation.
- Flexible and easy to clean on large irregular workpieces.

- High beam quality
- Alternative lamp pump lasers
- High photoelectric conversion efficiency
- Pulse and continuous working modes
- High pulse power, stable power, and high peak power



## Hanli Chiller

- Intelligent control self-adaptive hot and cold dual temperature adjustment.
- Separate cooling of cleaning head and laser source.
- Stable laser output,fast and energysaving.

## Smart Control Panel

- Full touch screen operation interface,multilingual support.
- Work status is clear at glance.
- Process library design,set once,use at any time.

## Application

### Industries&Scenarios

- Aviation/Marine/Electromechanical/Rubber Mold/Auto Parts/Food Processing
- Mold cleaning,paint stripping or coating removal,pre-treatment of parts before spraying,aerospace component cleaning,oxides removal pre-treatment before soldering or welding.

# Portable Handheld Fiber Laser Cleaning Machine

## Advantages

Compared with the traditional cleaning methods such as mechanical friction cleaning, chemical corrosion cleaning, liquid solid strong impact cleaning and high frequency ultrasonic cleaning, manual laser cleaner has obvious advantages.

1. It is a “green” cleaning method. It does not need any chemical reagent and cleaning liquid. The waste cleaned is basically solid powder. It is small, easy to store and recycle, and can easily solve the environmental pollution caused by chemical cleaning.
2. The traditional cleaning method is contact cleaning, which has mechanical force on the surface of the cleaning object, damages the surface of the object or the cleaning medium adheres to the surface of the object being cleaned, which can not be removed, resulting in secondary pollution. The non-abrasion and non-contact nature of laser cleaning make these problems easy to solve.
3. Laser can be transmitted through optical fibers, cooperate with robots and robots, realize remote operation conveniently, and can clean the parts that are not easy to reach by traditional methods, which can ensure the safety of personnel in some dangerous places.
4. The portable fiber laser cleaner can remove pollutants and contaminants from many types of materials without damaging.
5. The portable fiber laser cleaner has high efficiency and saves time.
6. Although the purchase of laser cleaning system has a high one-time investment in the early stage, the cleaning system can be used stably for a long time with low operation cost.

Laser cleaning is considered to be the most reliable and effective solution because of its non-abrasive, non-contact, non-thermal effect and applicability to various materials. Laser cleaning will be instead of traditional chemical and mechanical cleaning methods for environmental protection and safety.

## Application Scene of Portable Handheld Fiber Laser Cleaning Machine

Removing the burnt rubber residue from tire molds; giving a new life to old pipelines; cleaning pipes in nuclear power plants; and even larger projects such as removing paint from a rusty bridge and preparing welding surfaces are all projects that can benefit from industrial laser cleaning.

This non-contact cleaning technique can be used in countless industrial applications. The only limit is the capacity to discriminate between the material to be removed and the one to be protected.

At the moment, the most common laser cleaning applications include:

- Welding pre-treatments to remove rust and other contaminants from welding areas
- Welding post-treatments to remove aluminum and stainless-steel oxides
- Laser surface preparation to maximize paint adhesion
- Laser oxide removal from specialty alloy ingots
- Coating removal just after the coating process to replace part masking in production lines
- Depainting parts that would otherwise be scrapped due to paint defects



## International Shipping Around the World

Are you looking forward to buy an affordable automatic, portable, or handheld **Laser cleaning Machines** for rust removal, paint stripping, coating removal, oxide removal, plating, oil, stain, dirt cleaning for metal, ceramic, stone, and rubber mold residue cleaning in USA, UK, UAE, Canada, Australia, Russia, South Africa, China, India or other countries?

We'll offer you 2022 cheap fiber **Laser cleaning Machines** with 1000W, 1500W, or 2000W laser power, and expert cleaning service to fit your custom cleaning plans, projects, and ideas.

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Handheld Laser Rust Remover Tool for Sale

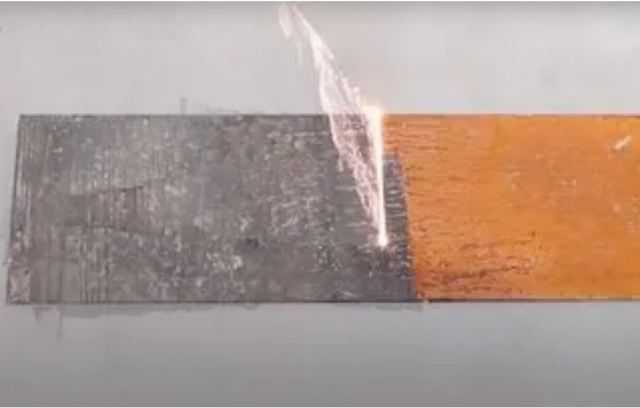


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