



High Power Rust Remover Laser Cleaning Machine

Laser cleaning technology is a new technology that developed in recent decades, related research started in the middle of 80s, and became a new member of the big family of laser processing in.

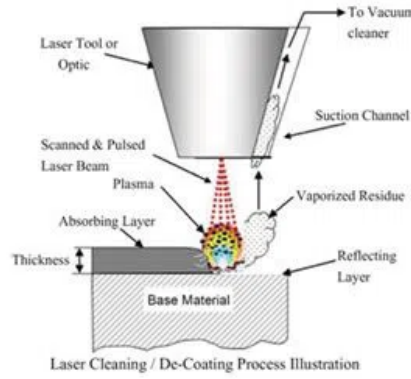
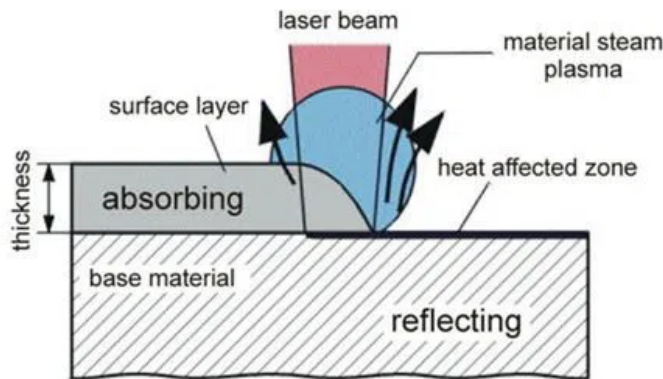
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Product Details

1. Introduction



The 2000W high power rust remover laser cleaning is an most important process in the removal of contaminants from the surface layer of materials, such as metal, wood, stone, plastics, etc. These contaminants can be substrates such as carbon, rubber or silicon. In most of industries, the surface of the materials is get contaminated, with rust, coating, dirt, etc. The laser cleaning application can be the best way to remove such contaminants and coating in very efficient way.

High power laser cleaning machine is the main product of Herolaser, which is diverse in variety and closely following the market trend and requirements. Herolaser uses advanced production equipment and manufacturing technology to produce high power laser cleaning machines. The product receives favors from the majority of customers for the high quality and favorable price. We adopt scientific and advanced management methods and cultivates a professional and efficient service team to provide quality service for customers.

2. Specifications of the high power rust remover

Model	ML-MF2000I-LC	Maximum Power	14KW
Laser Power	2000W	Weight	350KG
Cooling Way	External Water Cooling	Working Temperature	5-40°C
Laser Wavelength	1064 nm	Laser frequency	1-50k HZ
Power Supply	3 Phase / AC380V	Laser source type	Fiber laser source

3. Features

High Power Rust Remover Laser cleaning machinecan remove rust, oil stains, oxides, oxide scales, etc. produced by welding. In complex situations, it can be cleaned without disassembly, avoiding the cumbersome steps of traditional cleaning and environmental pollution, and greatly improving the welding efficiency. The weld seam is of high quality, smooth, no porosity, and the best stability and quality. It has the advantages of manual focusing, suitable for surface cleaning, and good surface cleanliness.

4. Comparison with traditional clean methods

Comparision	Laser Cleaning	Chemical Cleaning	Mechanical Grinding	Dry ice cleaning
Washiing Method	non-contact cleaning	contact cleaning	Abrasive contact cleaning	non-contact cleaning
Harm to base material	None	Yes	Yes	None
Washing Efficiency	High	Low	Low	Mid.
Consumable	Power	Chemical Detergent	Abrasive paper, grinder, abrasive stone	Dry Ice
Washing result	Very good, very clear	Medium, uneven	Medium, uneven	Good, uneven
Precision Washing	Accuracy controllable. High precision	Uncontrollable, low precision.	Uncontrollable, medium precision.	Uncontrollable, poor precision.

Safety/Environment	No pollution	Chemical pollution	Dust pollution	No pollution
Operation	Easy to operate, portable or automation optional.	Complicated process, higher technical requirement of the operator. Pollution prevention measures required.	Need more time & manpower. Pollution prevention measures required.	Easy to operate, portable or automatic.
Investment	High investment on machine. But no consumable, low maintenance cost	Low investment on machine. But expensive consumables	Medium investment on machine. High man-power cost.	Medium investment on machine. High consumable cost.

5. Applications

The laser cleaning machine can clean resin, oil stains, stains, dirt, rust, coating, coating, paint on the surface of the object.

6. Industries

It is suitable for cleaning the surface of steel and aluminum as the pretreatment of welding surface, and is used in the automobile industry, precision tool production, shipbuilding and other industries.

7. Advantages

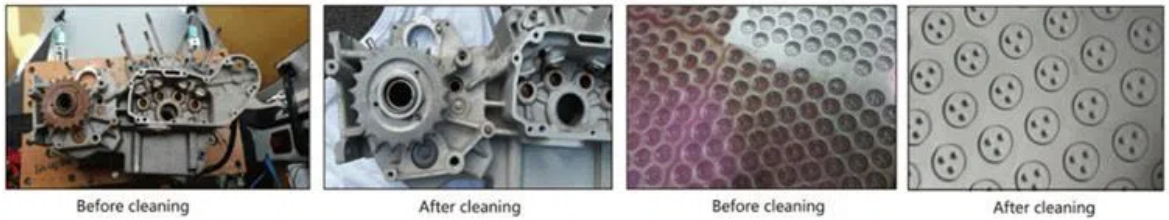
- Herolaser adopts Germany IPG laser source as our core parts which is the most famous laser source in the world. The whole machine have better cleaning quality, higher laser stability, higher laser efficiency, higher laser constancy, longer laser lifetime.
- Wide application, easy operate, either portable or installed with robot for automatic cleaning. Real-time monitoring of cleaning results can achieve specific and customized cleaning as per different cleaning requirements.

APPLICATIONS



- Maintenance free. Low operating costs, system stability and almost no maintenance. The whole machine can use almost 8-10 years without any problem.

MOLD CLEANING ,RUST REMOVING



- Easy-operated control system. The machine interface is very clear and concise, and the operation is convenient. Various parameters can be set to realize the control of the laser galvanometer easily.

EASY OPERATE ,QUICK RESPONSE IN TWO MINUTES



- High Customization to meet customer different cleaning requirements. The mode of the cleaning machine can be switched arbitrarily, and other cleaning modes can be customized according to specific requirements. The mode parameters can be saved, which is convenient for next operation.

AUTOMATION PLATFORM CASE



- Safe &environmental friendly technology. No need chemical detergent, no consumables.

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TRADITIONAL CLEANING METHOD



Acid Clean : Environmental Pollution / High Labor Cost / Harmful to Body



Sandblasting: Environmental Pollution /High Labor Cost / Harmful to Body / Uneven Cleaning Effect



Dry Ice Clean : High Cost Of Consumables / High Environmental Requirements / High Risk Of

- Non-contact cleaning, good cleaning performance on workpiece.

OXIDES, OIL STAINS AND RESIDUES CLEANING



Before cleaning

After cleaning



Before cleaning

After cleaning



Before/after derusting

- Precision positioning, selecting cleaning, desired cleaning area can be applied to the workpiece.

AEROSPACE PARTS, TIRES, ETC. CLEANING



- 15-meter cable length from the laser machine to laser gun head. Most of others are only have 5-meter laser cable. Our machine is much more suitable for larger operation area, if customer need to operate machine far away from the machine, our machine is the best choice.



8. Professional & High Quality Production Technique

All Herolaser products are produced according to international standards. The layout, wiring, safety design, quality control and production process of the products are all executed according to international standards. The whole machine is very convenient for maintenance and after-sale service.



Tidy Assembly Production Center



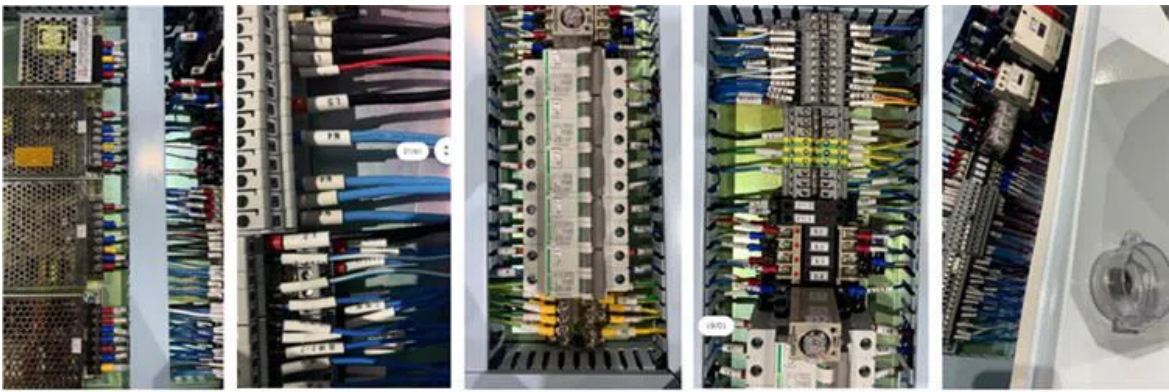
Laser cleaning machine assembling and testing in production base



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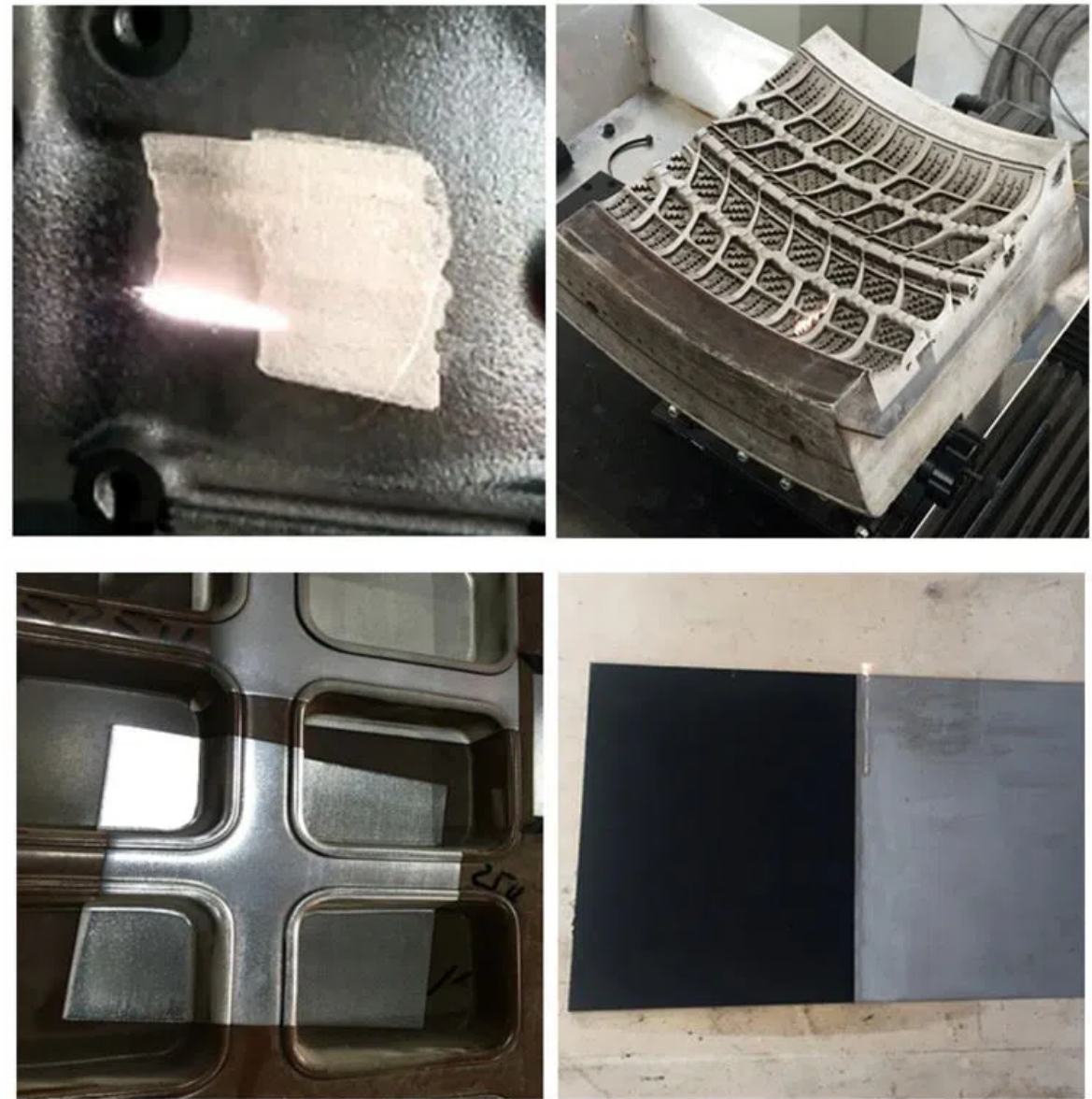


High standard & artistic modular wiring layout, very clean and safe




Reasonable design, humanization, strict quality inspection

9. Sample pictures




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10. Hero Laser Headquarter & Production center view



Herolaser Headquarter · Heyuan Production Base(50000m²) · Jiangsu Production Base (30000m²)



Modern Office & Meeting Room

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Please include details like size, weight, destination port and etc., so that we can quote the best price.

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