

Optical specification

Norminal Maximum Power (W)	1500W/2000W
Operation Mode	C/P/M
Output Power Range (%)	1-100%
Laser Wavelength (nm)	1075 ± 5 nm
Laser Beam Quality @ Collimator	M2 ≤ 1.3, for 25 μm fiber
Power Stability	< ±1.5%
Maximum Modulation Frequency	50kHz
Laser response time	< 10us
Guiding Laser Wavelength (nm)	650
Guiding Laser Tuning Range (mw)	0.5-1

Fiber Delivery System

Interface	Handheld laser cleaning head QBH connector
Delivery Fiber Core Diameter & Length	25um or 50 um / 10m (5m optional)
Delivery Fiber Type	Step index fiber with breakage and thermal monitor
Delivery Cable Length	10 +/- 0.5m standard, other length available upon request

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Control interface

Control port	DB25/DB9
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Mechanical specification

Dimension	650 x 300 x 621 [mm] (L×W×H)
Weight	62[kg]

Cleaning Head

Collimation	D20*5/F60
Focus	D20*4.5/F800
Focus vertical adjustment Range	±10mm
Spot adjustment Range	0-300mm
Weight	0.8kg

Proven cleaning gun with our ergonomic design for smooth and easy operation.
Ideal for safe, high-quality continuous cleaning operations around the clock.



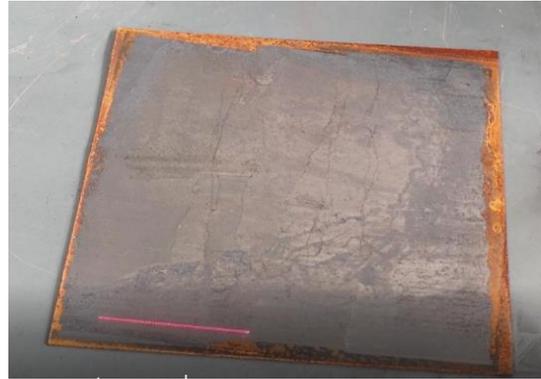
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Cleaning Examples



Rust Removal



Rust Removal



Paint cleaning Before & After



Paint Layer cleaning



Paint cleaning Process

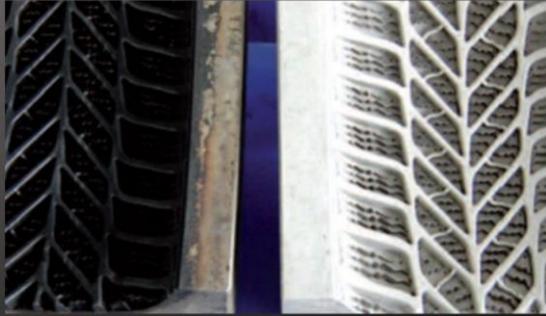
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Air cooled laser cleaner

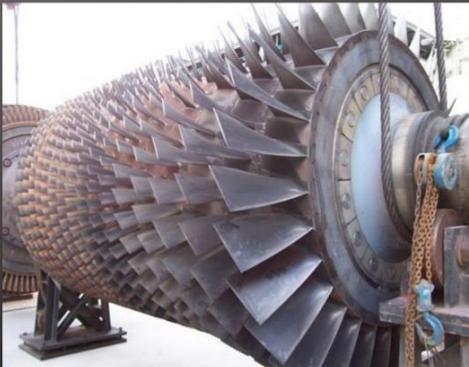
Technical Specification



Tire mold cleaning - Before



Tire mold cleaning - Afterwards



Large Rotor blade rust removal



High-speed Rail Track rust removal



Welding seem cleaning

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Eye safety protection for Fiber laser cleaners



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Important Advantages

Ultra-Compact & Fully Portable, Easy to carry

Weight and volume are much less than water cooled hand-held laser welding systems. The volume is about 1/4, the weight is about 1/3 of it.

Extremely lightweight body, easy-to-carry, increasing the application field to nearly double! Just take it with you, plug and play (220V).

The integrated body design meets ergonomics and improves the mobile reliability of the whole equipment.



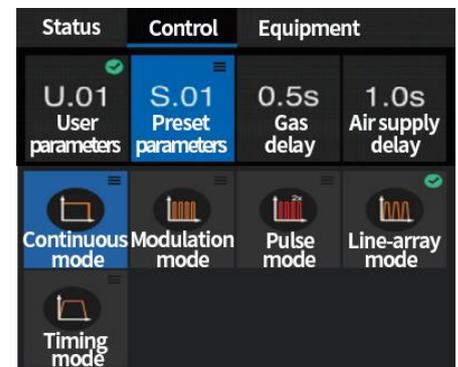
Easy to operate

Integrated operator touch screen control with preset parameter library, swing mode, automatic shielding gas control and safety features.

Compared to operating conventional cleaning equipment, cleaning novices do not need a lot of time for training and experience, and can get started in just a few hours of learning.

The machine is preset with commonly used cleaning parameters, which can be quickly switched to the optimal cleaning parameters for different materials and thicknesses.

The parameters are set via the touch screen, which is very intuitive and simple to use, and can be customized and saved at the same time.



More Safe

Several protective measures have been taken to ensure safe operation:

- Key switch and emergency stop button ensure safety.
- QBH interlock ensures the integrity of the laser transmission.
- Coloured LEDs for operation.
- Workpiece and cleaning gun interlock and helmet interlock. The laser is automatically switched off when the Operator does not wear the helmet properly.

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Legal notices:

PRC's Fiber Laser series are designed in strict accordance with the respective safety regulations. All products are manufactured according to the currently valid national and international standards and regulations. Warning labels as shown in the figure appear on each PRC laser to indicate the respective classification.



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