

CleanSaber-200W Fiber Cleaning Laser

Portable Fiber Cleaning Laser - Portable Rust Removing Laser



Introducing the CleanSaber FCL-200W Rust removing laser: Your Rust's Worst Nightmare and your new best friend! Unleash the power of laser precision with our Fiber Cleaning Laser - high-tech meets high-energy in a dazzling dance of cleanliness. Whether it's stubborn corrosion or rusty relics, this portable laser rust removal machine leaves no rust unturned! Magic Eraser for Rust: Rust won't even see it coming. Our Rust Removing Laser makes oxidation vanish into thin air!

Description

Revolutionize Your Cleaning Process with Our Advanced Fiber Cleaning Laser. Its environmentally friendly and eliminates the need for chemicals.

Discover the power of precision with our state-of-the-art Fiber Cleaning Laser. Designed for versatility, our portable laser rust removal machine cleaning systems offer a non-contact, environmentally friendly solution for various industries. From intricate artifacts to robust industrial machinery, our lasers deliver unmatched cleaning efficiency.

Our Fiber Cleaning Laser is not just a tool but a long-term investment in the quality and efficiency of your cleaning processes. Elevate your cleaning standards with our advanced laser technology - a cleaner, safer, and more efficient solution for modern industries.

Most Common Use Cases for Fiber Cleaning Laser Machine

Industrial Maintenance and Restoration: Removal of rust, paint, oxides, and other contaminants from industrial equipment, leading to improved performance and longevity. Ideal for refurbishing large machinery, tools, and parts in manufacturing settings.

Automotive Industry: Cleaning of welding seams, removal of oil, grease, and production residues from automotive parts. Also used in restoring old vehicles by removing rust without damaging the underlying material.

Aerospace and Aviation: Precision cleaning of sensitive aircraft components, including removing oxides and preparing surfaces for welding or bonding.

Historical Preservation: Gentle cleaning of artifacts and historical monuments, effectively removing pollutants and corrosions without harming the original material.

Marine Industry: Removal of marine growth, rust, and coatings from ships and offshore structures, contributing to maintenance and longevity. Cleans ship hulls and other marine structures by removing algae, barnacles, and other marine growths.

Energy Sector: Used in power plants and renewable energy sectors for cleaning turbines, solar panels, and other critical components.

Electronics and Semiconductor Industry: Precise cleaning of electronic parts and circuit boards, removing residues without damaging delicate components.

Glass Cleaning: Effective in cleaning various types of glass, including removing residues or unwanted coatings.

Restoration of Buildings and Structures: Removes grime, pollution, and graffiti from stone, brick, and concrete surfaces in urban environments.

Mold Cleaning: Cleans molds used in various industries, including plastic injection and rubber molding, without abrasion or chemical use.

Surface Preparation: Prepares metal surfaces for coating or painting by creating a clean, textured surface for better adhesion.

Adhesive Removal: Can clean away adhesives without damaging the base material, which is useful in manufacturing and refurbishing processes.

Residue and Contaminant Cleaning: Efficiently removes oil, grease, and production residues from metal surfaces in automotive and manufacturing sectors.

Paint and Coatings Removal: Fiber lasers can strip paint, coatings, and surface treatments from various substrates, preparing them for repainting or further processing.

Stone and Concrete: Effective in removing graffiti, pollution stains, and biological matter like algae and moss from stone and concrete surfaces, commonly used in building maintenance and restoration projects.

Wood: Though less common, can be used for certain applications on wood, like removing coatings or surface treatments without damaging the wood grain.

Product Feature



Portable and Versatile Design

Compact and mobile, allowing for easy transportation and adaptability in various settings, from workshops to outdoor locations.



Compact Design

Ability to stow away the laser wand within the laser carrying case and safely move it off site when required.



Ergonomic laser wand

Light weight and easy to point and shoot.



Red Light Assisted Focus

Allowing you to see where the laser will shoot prior to pulling the trigger



Quality Power Source

Raycus laser power sources are known for their longevity and quality.



Variable Beam Angles

Beams come in various shapes and sizes to accommodate a variety of cleaning applications.



Long Life and Low Maintenance

You can expect up to 100,000 hours of use and extremely easy and cost effective to maintain.



Q-switched Laser

known for its ability to emit high-intensity, short-duration pulses, which are beneficial for precise and delicate ability to remove substrates.



User-Friendly Interface

Features an intuitive control system, making it easy for operators to use and program with minimal training required.



Low Maintenance and Operational Cost

Designed for durability with minimal maintenance requirements, offering a cost-effective solution over its lifespan.



High Precision and Control

Delivers precise cleaning with the ability to target specific areas without affecting surrounding materials, ideal for delicate or intricate surfaces.



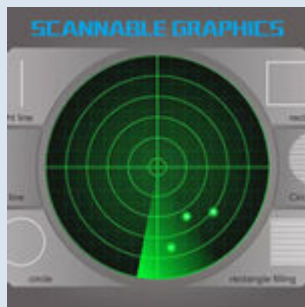
Environmentally Friendly

Offers a green cleaning alternative, eliminating the need for chemicals or abrasive materials, thus reducing waste and environmental impact.



Non-Contact Cleaning Technology

Utilizes laser energy to clean surfaces without physical contact, preserving the integrity of the substrate and eliminating mechanical wear.



Available Laser Shapes

You have a few shapes to choose from to make working with various materials and sizes more efficient. Choose from Line, Spiral Line, Circle, Rectangle Filling, Circle Filling.

Physical Features

Specification	MM	INCH
Marking Area	150x150mm (Focal distance 254mm)	5.90x5.90" (Focal distance 10")
Marking Area (Optional)	100x100mm (Focal distance 163mm)	3.93x3.93" (Focal distance 6.41")
Horizontal Processing Envelope	Max 150x150mm	Max 5.90x5.90"

Specification	MM	INCH
Fume Port Size	N/A	N/A
Fume Extractor CFM	N/A	N/A
Machine Footprint	430*530*750mm	16.92*20.86*29.52"
Hand wand size	405x100x114mm	15.94x3.93x4.48"
Net Weight	70kg	155Lbs
Gross Weight	90kg	199Lbs

Power

Specification	MM	INCH
Voltage	110v	110v
Optional Voltage	N/A	N/A
Power Requirement	1200W	1200W

Laser Power Source

Specification	MM	INCH
Frequency Range	1-4000khz	1-4000khz
Laser Classification	Class 4 laser products, as defined in International Standard IEC 60825-1	Class 4 laser products, as defined in International Standard IEC 60825-1
Power Source	Raycus	Raycus

Laser Power Specifications

Specification	MM	INCH
Laser Power	200W	200W
Laser Power Options	300W	300W
Wavelength	1064nm	1064nm
Laser Shapes	Line, Spiral Line, Circle, Rectangle Filling, Circle Filling	Line, Spiral Line, Circle, Rectangle Filling, Circle Filling

Controller Interface

Specification	MM	INCH
Linux	Built In Software	Built In Software

Computer

Specification	MM	INCH
Accepted File Formats	N/A	N/A
Wifi	No	No

Performance

Specification	MM	INCH
Positioning Accuracy	0.005mm	0.0001"
Max Scanning Precision	0.005mm	0.0001"
AutoFocus	No	No
Red Dot Positioning	Yes	Yes
Scan Speed	7000mm/s	275.59"/s