



Professional laser cleaning machine

1500W
2000W
3000W

SF-Reviver SERIES

Working Principle of Laser Cleaning

Absorption: The laser beam is directed onto the impurities or coatings present on the surface to be cleaned. The laser energy is absorbed, converting into thermal energy.

Evaporation/Combustion: The rapid increase in temperature caused by the absorbed energy leads to the evaporation or combustion of the contaminants, separating them from the surface.

Main Advantages of Laser Cleaning

Chemical-free: Continuous laser cleaning eliminates the need for chemical solvents, minimizing environmental and health hazards.

High efficiency and speed: Laser technology allows for fast and efficient cleaning, enhancing overall productivity.

Non-contact cleaning: Laser cleaning is a non-contact process, significantly reducing the risk of surface damage or scratching.

Enhanced controllability: Laser cleaning parameters can be adjusted to accommodate various materials and cleaning requirements.

Versatility: Continuous laser cleaning can remove a wide range of contaminants, coatings, or paints from different materials.

Consumable-free: As the cleaning method only uses a laser beam to vaporize the layer to be removed, there are literally no consumables with it.

Application

- Welding Pre-treatments
- Welding Post-treatments
- Metal Oxide Removal
- Metal Rust Removal
- Coating Removal



NEW GENERATION OF CLEANING HEAD

Max Cleaning Width:300mm
Dust Protection
Dual Safety Mechanism Design

Smaller size for easy mobility



Very low operating costs



Fast and easy to replace lens



Easy to use with friendly interface



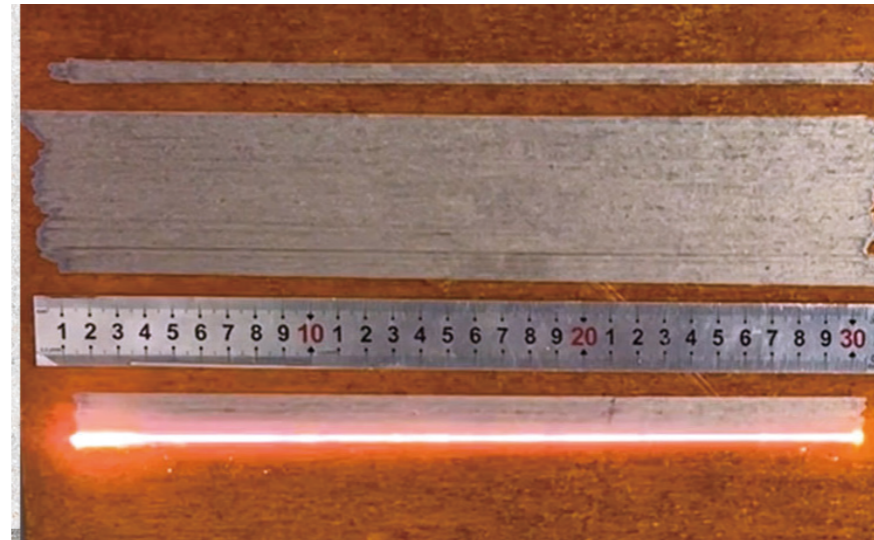
Cleaning efficiency reference

LASER POWER	TYPE	THICKNESS	SPEED	WIDTH	EFFICIENCY
1500W	Oxidation	≤20μm	50mm/s	150mm	15m ² /h
	Rust	≤120μm	50mm/s	150mm	4m ² /h
	Paint and coating	≤100μm	50mm/s	150mm	6m ² /h
2000W	Oxidation	≤20μm	50mm/s	300mm	20m ² /h
	Rust	≤120μm	50mm/s	300mm	5m ² /h
	Paint and coating	≤100μm	50mm/s	300mm	8m ² /h
3000W	Oxidation	≤20μm	50mm/s	300mm	30m ² /h
	Rust	≤120μm	50mm/s	300mm	14m ² /h
	Paint and coating	≤100μm	50mm/s	300mm	9m ² /h

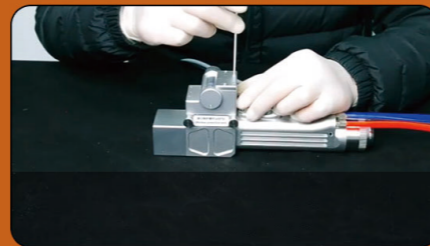
Cleaning Cases



Cleaning Width



Focus Lens Replacement

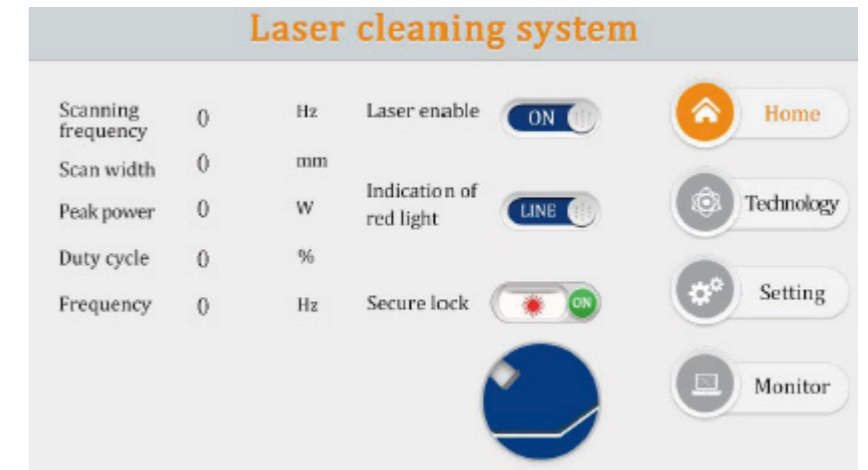


Loosen the screws and take out the lens drawer



Replace with new lens

Intuitive System



Safety Warning

- **Protective Eyewear:** Always wear appropriate laser safety goggles or glasses specifically designed for the wavelength of the laser being used. This will protect your eyes from the powerful laser beam.
- **Skin Protection:** Avoid direct exposure of the laser beam to your skin. The laser beam can cause burns or other injuries. Wear protective clothing, such as long sleeves and gloves, if necessary.
- **Proper Ventilation:** Ensure that the working area is well-ventilated to avoid inhaling hazardous fumes or smoke produced during the cleaning process. Use extraction systems or work in a well-ventilated room.
- **Fire Hazards:** Laser cleaning can generate sparks, especially when removing coatings from flammable materials. Keep flammable materials away from the cleaning area and have appropriate fire extinguishing equipment nearby.
- **Laser Beam Path:** Be cautious of the laser beam path and avoid pointing the laser towards reflective surfaces or people. Reflective surfaces can redirect the beam and cause unintended exposure.
- **Training and Certification:** Only operate a handheld laser cleaning machine if you have received proper training and certification on laser safety procedures. Understand the machine's operation and safety features before use.
- **Maintenance and Inspection:** Regularly inspect the machine for any signs of damage or malfunction. Do not attempt repairs unless you are qualified to do so. A professional technician for maintenance or repairs is necessary.