



Handheld Fiber Laser Cleaning Machine

AC Series

SAFETY
LEVEL

AESTHETICS

COSTING

- ◆ Compact and versatile, laser cleaning machine is designed for cost-effective treatment of small areas that require gentle high-precision cleaning, de-coating and other surface treatments.
- ◆ The basic system consists of a laser source with control and cooling function, optical fiber for beam transmission and processing head. A simple main power supply is used to run with very low energy demand.
- ◆ Strong, short and fast-moving laser pulses act on the target surface, resulting in micro plasma rupture, shock wave, thermal stress, which leads to surface material sublimation and evaporation.
- ◆ Laser cleaning is suitable for metal surfaces. The treated and optimized laser beam does not change the properties of the metal or damage the surface after laser treatment.
- ◆ Precision positioning, selective cleaning, desired cleaning area can be applied to the workpiece.
- ◆ Safe and environment-friendly, without the use of chemical detergent or other consumables.
- ◆ Using advanced laser light source, laser optical scanner and control system to meet the requirements of the metal surface cleaning process.
- ◆ Industrial laser cleaning machine is widely used in the shipbuilding industry, automotive parts, rubber mold, high-end machine tools, tire mold, track, environmental protection industries.
- ◆ The laser beam is precisely tuned to act only on the coating, residue, or oxide, without damaging the underlying parent metal surface.

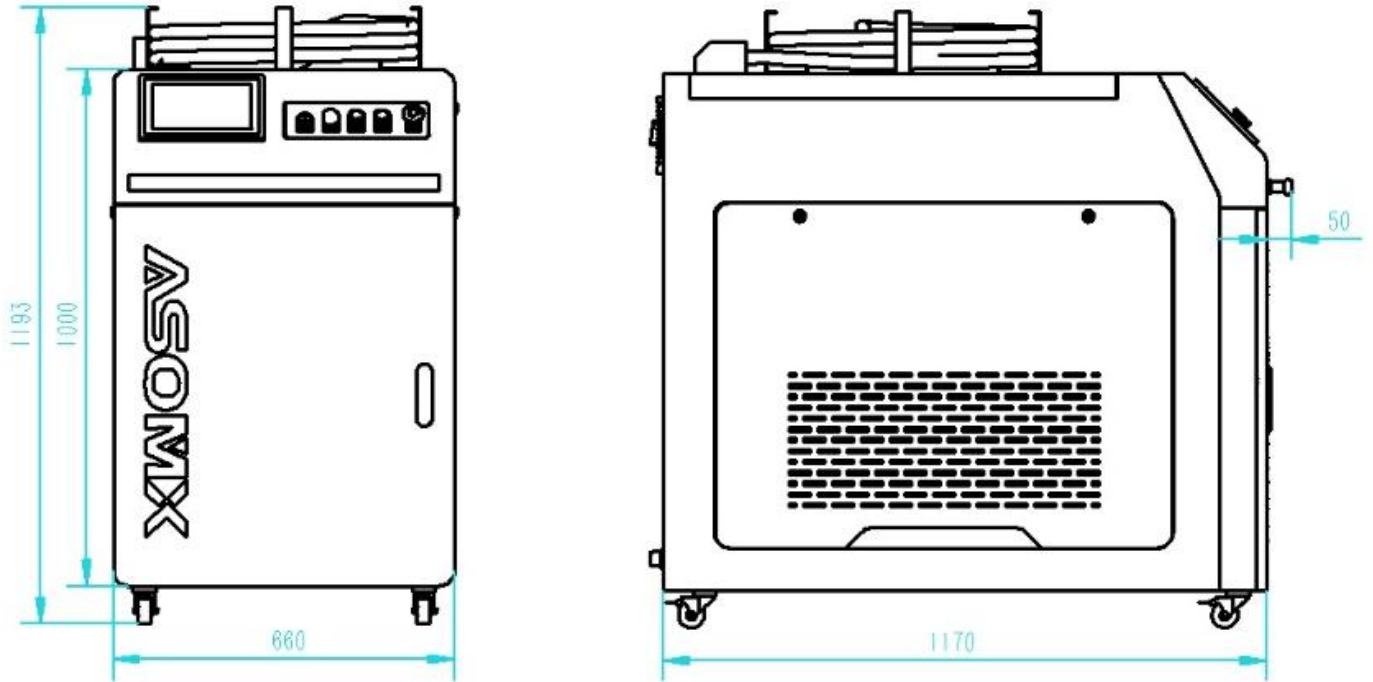
Components



Specifications

Model No.	AC Series
Laser Power	100W/200W/300W/500W
Laser Wavelength	1064nm
Laser Type	Single-Core Junction Semiconductor Module
Pulse Frequency	20-200KHz
Fiber Cable Length	5000mm
Optional Cable Length	3000mm / 10000mm
Scan Width	10-100mm
Cleaning Line Speed	1000-8000mm/s
Scanner Weight	2.5kg
Working Distance	160mm(standard), 210mm, 250mm
Operation Interface	OLED Touch Screen
Laser Class	IV
Cleaning Ability	100w-1 m ² /h; 200w-3 m ² /h; 300w-5 m ² /h; 500w-8 m ² /h (0.5mm rust)
Cooling Type	Industrial Circulating Water Cooling
Auxiliary Gas	Compressed Air / Nitrogen
Air Pressure	0.5-0.8MPa
Electricity Supply	AC 220V±10% 50/60Hz
Unit Power	1.0kw/2.7kw/3.9kw/4.7kw
Optional Matching	Handheld / Manipulator
Operating Temperature	0°C-45°C
Working Humidity	45%-95% no condensed water
Laser Module Life	100000hours
Gross Weight	200kg

Layout



Samples

