

## Laser Cleaning Machines

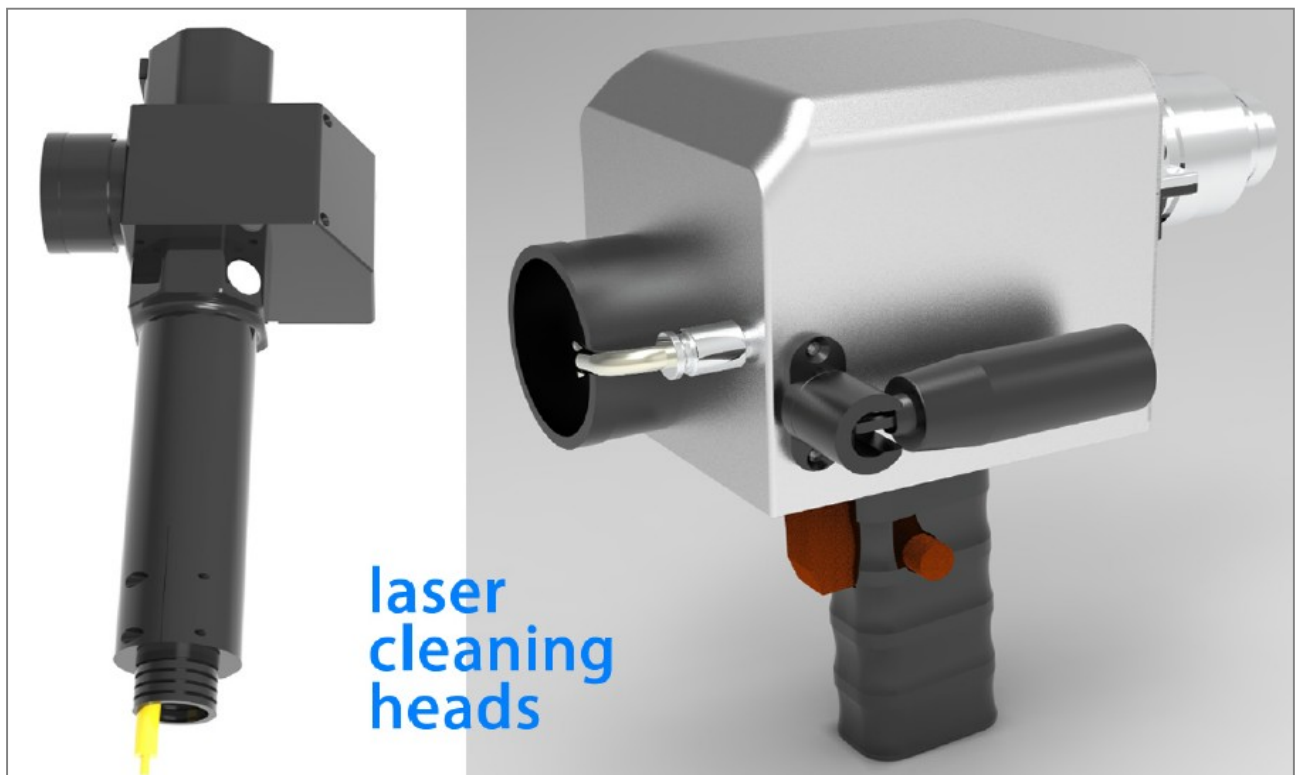


Our laser cleaning machines are mainly used for cleaning various metal surfaces with localized rust, paint, coatings, oil stains, oxide films, and other pollutants. It can also be used for cleaning surfaces of non-metallic substrates such as ceramics, glass and composite materials. Typical applications include cleaning natural oxide film on aluminium alloy before welding, cleaning black and gray oxide on battery trays after welding, cleaning welds on train bogies before non-destructive testing, cleaning automotive sheet metal parts before refurbishment, and cleaning steel components such as small holes and grooves that cannot be reached by wire brushes.

### Product Advantages:

		
Professional customized laser light source	Light control technology	Multiple security measures
		
Anti shake technology	Over ten years of process precipitation	Easy to use and durable

### 1. Hand-held Pulsed Laser Cleaning Machines

**Product Specifications:**


Part number	CL-P-100W	CL-P-200W/300W	CL-P-500W/1500W
Laser power	100W	200W/300W	500W/1000W
Laser wavelength	1064nm	1064nm	1064nm
Pulse energy	Max. 1.5mJ	Max. 1.5mJ (single mode), 5mJ	
Scanning width	5-150mm adjustable	5-100mm adjustable	5-150mm adjustable
Machine weight	22kg	60kg	180kg
Cleaning head weight	1.3kg	1.3kg	4.5kg (single mode) 2kg (multiple mode)
Fiber length	5m	5m	10m
External dimensions	603*258*481mm	783*300*784mm	913*573*881mm
Cooling method;	Air cooling	Air cooling	Water cooling
Power consumption @25°C	<500W	<1000W/<1500W	<4000W/<6000W
Supply gas pressure	0.4MPa clean air	0.4MPa clean air	0.4MPa clean air

### Cleaned Samples:



## 2. Hand-held CW Laser Cleaning Machines

The high-power continuous wave (CW) laser cleaning machines are mainly used in rust removal of steel structures, steel plates, ship components; paint removal of steel structures, ships components; oil removal, etc. It is suitable for the refurbishment of marine vessel components, rail transit components, steel structure rust removal, steel structure refurbishment, etc.

### 2.1 Hand-held CW Water-Cooled Laser Cleaning Machines



Part number	CL-CW-1500W CL-CW-2000W	CL-CW-3000W
Laser power	1500/2000W +/- 2%	3000W +/- 2%
Laser wavelength	1064nm	1064nm
Working mode	Continuous or modulated	Continuous or modulated
Beam quality	$M^2 < 1.2$ for 1500W $M^2 < 1.5$ for 2000W	$M^2 < 1.5$
Machine weight	170kg	220kg
Fiber length	10m	10m
External dimensions	980*420*712mm	1264*779*1287mm
Cooling method	Water cooling	Water cooling
Scanning width	5-150mm adjustable	5-150mm adjustable



## 2.2 Hand-held CW Air-Cooled Laser Cleaning Machines



Part number	CL-CW-1200W-A CL-CW-1500W-A
Laser power	1200W/1500W
Laser wavelength	1080nm
Working mode	Continuous
Machine weight	65kg
Fiber length	10m
External dimensions	715*520*744mm (subject to actual delivery)
Cooling method	Air cooling
Scanning width	5mm ~ 150mm, adjustable (F400) 5mm ~ 225mm, adjustable (F600) 5mm ~ 300mm, adjustable (F800)