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# Handheld Continuous Fiber Laser Cleaning Machine

Make The World Clean and Green  
Eco-Friendly  
Speedy Removal; Fine Finish  
Less Base Material Damages

Model:

- COS-LR-1000
- COS-LR-1500
- COS-LR-2000

Inquire





## General Description of the Machine

COSME LASER COS-LR Series is a high performance handheld CW laser cleaning and surface preparation system designed to remove rust, paint and almost anything else from stainless steel, carbon steel, aluminum, iron, copper and many more surface types. Such cleaning machine exceeds the capabilities of standard sandblasting and dry-ice blasting in the long run. The COS-LR Series eliminates dangerous chemicals, hazardous fumes, costly materials, and complicated procedures. The COS-LR cleaners are the most cost-effective, efficient, and safest machine of industrial cleaning, rust removal, paint removal, and surface treatment. The COS-LR laser cleaning machines are class 4 laser products and incorporate extra safety features for safe and simple operation in any working environment. The typical power of the laser source of our handheld CW fiber laser cleaning machines are 1000W, 1500W and 2000W

Completing the job with surgical accuracy and minimal time and high yield rate under any condition, our COS-LR handheld fiber laser cleaning machine can be used in many fields such as aerospace (aero-engine parts cleaning, aircraft skin cleaning, etc.), rail transportation (railway rail cleaning, wheel-set cleaning, rail surface paint removal, etc), welding

## Advantage of the Machine

01

### Non-damage cleaning

Non-contact cleaning, and no or minimal damage to the substrate of workpieces you handle.

02

### Precise cleaning

Can achieve precise selective cleaning in terms of location and size.

03

### No environmental pollution

No chemical cleaning liquid, and no consumables; it's very safe and environmentally friendly.

04

### Further simplified operation

The operation is very simple, just requiring pressing Power On button. It can be manually operated, or can be integrated with a robot into a fully automated cleaning line.

05

### High efficiency

Due to the super stable cleaning control system and first-rate laser generator, the cleaning efficiency is high, and it is also very time saving.

06

### Almost maintenance free

Thanks to its modular design and compact layout, the machine can be maintained very easily and it just takes a very little time and effort for the maintenance.



# Specifications

The system mainly consists of simple and fast-to-set-up cleaning control system, first-class single-mode continuous-wave fiber laser source, China top ten built-in industrial water cooled chiller, first-grade optical fiber cable, robust galvanometer cleaning head with air curtain projection, and sturdy and attractive carbon steel housing. The application is very broad, removal of rust, paint, cladding, coating, oily & greasy dirt, dirty spots and metal weld discoloration, statue and stone surface cleaning, etc.

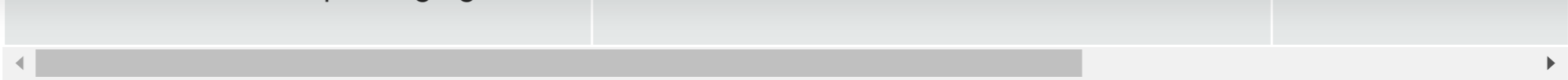
For some large steel structures, such as big pipes and large metal pieces, due to the large volume, fast heat dissipation and lower requirement for substrate damage, our continuous wave laser cleaners at a much more favorable price will be the best choice.

Model	COS-LR-1000	COS-LR-1500
Fiber laser source	Raycus (CW)	Raycus (CW)
Laser head	XINGHONG	XINGHONG
Weight of the laser head	1KG±0.3	1KG±0.3
Beam width	10-150mm	10-150mm
Laser power	1000W	1500W



	Power adjustment range ( %)	10-100% (Gradient adjustable)	10-100% (Gradient adju
	Wavelength (nm)	1070±5	1070±5
	Standard fiber cable length	10M	10M
	Scan speed	0-7000mm/s	0-7000mm/s
	Cleaning thickness (mm)	1.5mm	2mm
	Cleaning efficiency (m2/h)	≤15	≤25
	Operating distance (mm)	300-450	300-450
	Cooling method	Water cooling (Hanli Brand; built in)	Water cooling Brand; built in)
	Power supply required	Single Phase 220V±10% 50Hz	Single Phase 220V±10% 50Hz
	Max Power consumption	5000W	6500W
	Working temperature (°C)	-25 ~ 55	-25 ~ 55
	Total weight after packaging	250KG	260KG





# Applications



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