

Laser Cleaning Machines



We are pleased to announce our brand new Laser Cleaning Machine! Please see the video to see how quick the cleaning is: <https://youtu.be/6vHzlnoz0CE>

We developed a special customized head which focusses the laser beam into a line. The head is specially designed to be handheld and light, so that a human can easily hold it and move it around as you can see in the video! The focused laser beam quickly reacts with the light-absorbing coatings and removes rust/oxides, oil grease and production residues. Since metals are highly reflective, once the contaminants are removed, the newly exposed metal will reflect most of the laser light, thus sustaining no damage to the metal! This is great for industrial, military, and shipyard – production intensive de-coating.

We are working very closely with local polytechnic to continue to develop higher power versions up to 1000W or more to enable faster cleaning! Currently, we only offer the low power 50W version available now.

Applications:

- Rust-removal
- De coating
- Paint removal
- Labeling & Marking
- Micro-structuring on surfaces
- Mold cleaning and De-oiling
- Pre-treatment for adhesive bonding

Pulsed lasers are used in the laser cleaning machines. Maintenance and lifetime of the product is not an issue. The simple integration of the system requires no after-installation service. It comes in OEM desktop configuration with detachable cleaning head. You may need a lab jack to place your workpiece. The safety ring attachment is optional to prevent your hands from going into the laser beam path!



It is so simple to use too! A simple switch is provided, so the user can use 2 hands to hold the detachable cleaning head, and then use his foot to step on the pedal to enable the laser output! To stop the laser output, simply lift your foot off the pedal!

Model	M-CLEAN-50-100
Laser Source	
Laser type	Pulsed laser
Laser wavelength	1060-1080 nm
Laser power	50 W
Laser Peak Power	10,000 W
Laser Pulse Width	~100ns
Cooling method	Air
Weight (exclude detachable cleaning head)	~40kg
Detachable Handheld Cleaning Head	
Weight	3-4 kg (easy for human to hold)
Max Length of focused laser line (like in video)	100 mm (others available upon request)
Cleaning speed	~50 cm ² / minute (we are developing higher speeds)
Control Switch	
Simple Foot Pedal	
Advanced Control GUI	
Additional software can be installed & controlled on a regular Windows PC for advanced options	

Scanhead specs:

Part number	Wave-length um	Max input beam dia.mm	Mark area mm	Focused beam dia.um	Model of galvo	Outline	Dimension (LxWxH, mm)
LSSL-1064-10-110-S	1064	10	110x110	18	OSSL-S	F5	115x96x94
LSJC-1064-10-110-S	1064	10	110x110	18		F5	115x97x94