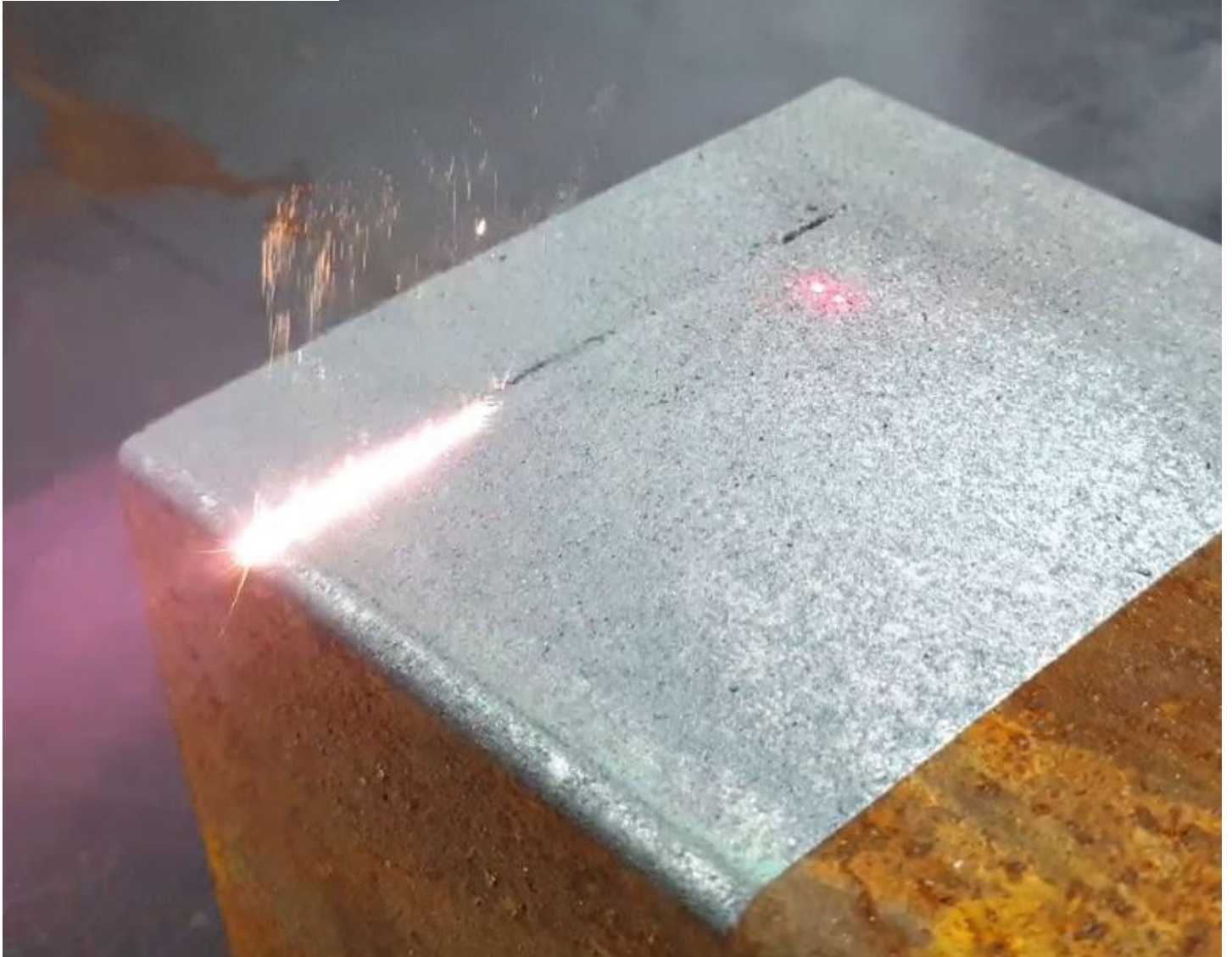


Cleaning Solutions

LASER CLEANING



India's First Registered **Laser** Machine Manufacturer

Laser Cleaning Systems



Laser Cleaning Machine - Hand Held



Laser Cleaning Machine - Galvo

Overview:

A Laser Cleaning Machine is used for metal de-rusting, de-painting and restoring metal to obtain the same old physical and chemical behaviour. A Laser cleaning system removes the contaminated layers of the metal / non-metal by exposing it to a focused Laser beam.

We offer Laser cleaning solutions with Laser powers ranging from 50W to 2kW, depending on the materials and applications. The most commonly used materials for Laser cleaning are aluminium (anodized, polished, or cast), Stainless Steel/Mild Steel, Titanium, Copper, Brass, Nickel, Galvanized Metals, Multi-Coated Materials, Painted Metal Alloys, Cast Iron, Chromium, Carbide, and nonmetals such as Plastics, Polypropylene/Polycarbonate, Rubber, and PVC.

With a rotary attachment to the machine, any material with curved surfaces and tube structures can be Laser cleaned.

Specifications:

Model	Accuclean	FC-1500	FC-2000
Laser Power	50 W - 200 W	1500 W	2000 W
Laser Type	Pulsed Fiber Laser	CW Fiber Laser	
Cleaning Width	5 mm - 80 mm	10 mm - 125 mm	
Wavelength	1064 nm	1080 nm	
Cooling Mode	Air Cooled	Water Cooled	
Operation Temperature	up to 35 °C	25 - 35 °C	
Power Requirement	220V ± 10% 50-60 Hz / 440V ± 10% 50-60 Hz		
Life of Laser Module	>1,00,000 Hrs.		
Cleaning Head	Galvo	Hand Held	
Laser Source	SIL OEM		
Fiber Cable Length	10 m		
Anti-Reflection Protection	Yes		

Features:

- Laser power depends on the thickness and depth of the material surface that needs to be de-rusted.
- The cleaning head is portable, and it operates with precise deflection and positioning of the Laser beam. The head is dust-proof and provides good stability with pressurised water cooling to the optics.
- An air-cooled chilling system will reduce machine weight.
- The mode of operation is either CW or pulsed Q-switched.
- As it is IOT-enabled, it can be integrated into any automation.
- It can be operated with a high power Galvo for cleaning a CAD-based file.
- Pre-treatments for welding are used to remove rust and other contaminants from welding areas.
- Welding post-treatments to remove aluminum and stainless steel oxides.
- Laser surface preparation to maximize paint adhesion.
- Laser oxide removal from specialty alloy ingots.
- Coating removal just after the coating process to replace part masking in production lines
- De-painting and refinishing parts that would otherwise be scrapped due to paint defects.
- Maintenance free machine, and no consumables are required for operation.

Samples:



