

# GTCLEANer Handle Fiber Laser Cleaning Machine

## PRODUCT DESCRIPTION

GT Lasers cleaning equipment is a new generation of surface treatment high-tech products, which are easy to install, operate and automation. Simple operation, turn on the power, turn on the equipment, you can clean without chemical reagents, media, and water. The focus can be adjusted manually, and the surface can be cleaned. The cleaning surface has a high degree of cleanliness, which can remove resin, paint, oil, stains, dirt, rust, coating, plating and oxide layer on the surface of objects. It is widely used in the industry, covering ships, auto repair, rubber molds, high-end machine tools, railroads, and environmental protection.

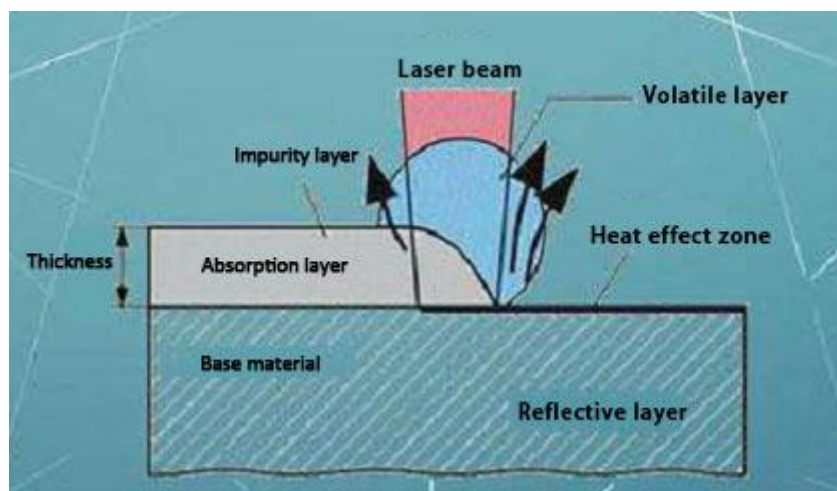
Laser cleaning technology uses high-energy laser beams to irradiate the surface of the workpiece to instantly evaporate or peel off the dirt, rust or coating on the surface, and effective removal of attachments or coatings on the surface of cleaning objects, so as to achieve the clean process. It is a new technology based on the interaction between laser and matter.

## PRODUCT FEATURE

- ▶ High cleanliness
- ▶ Precise positioning cleaning
- ▶ Non-contact cleaning to protect surfaces of brittle materials
- ▶ Effectively remove micron contaminated particles
- ▶ Environmental protection, no consumables



## Schematic diagram



## MAIN APPLICATION



Plate paint removal



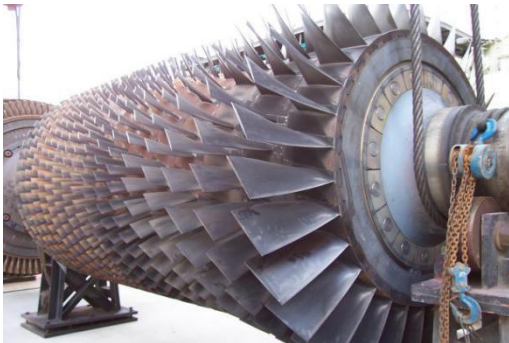
Parts derusting



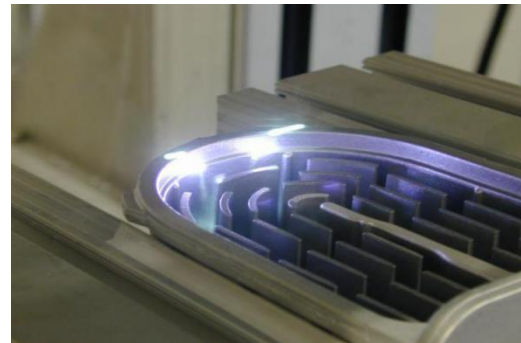
Welding line cleaning



Mold oil removal



Rotor blade derusting



Parts remove oxide film



High-speed rail derusting



Gear decontamination

## TECHNIQUE INDEX

Operating Environment		
	CL500	CL1000
Supply Voltage	Single phase AC 220V±10%, 50/60Hz	Single phase AC 380V±10%, 50/60Hz
Power	5000W (with chiller)	8000W (with chiller)
Environment	Flat, no vibration, no impact	
Working Ambient Temperature	0°C ~ 40°C	
Working Ambient Humidity	≤80%	
Optical Parameters		
Average Laser Power	≥500 W	≥1000 W
Power Adjustment Range (%)	10-100 (adjustable)	10-100 (adjustable)
Repeat Frequency (KHz)	20-50 (adjustable)	20-50 (adjustable)
Cleaning Efficiency (m <sup>2</sup> /h)	20	50
Focal Length (mm)	210/160 (Replaceable)	210/160 (Replaceable)
Central Wavelength (nm)	1064nm	1064nm
Single Pulse Energy (mj)	50	100
Cooling Mode	Air cooling	Air cooling
Mechanical Parameters		
Size	830mm×1130mm×1300mm	830mm×1130mm×1300mm
Weight	220Kg	280Kg
Fiber Length	10m/15m	15m
Cleaning Head Weight	3Kg	3Kg
Scanning Width	10-100mm	10-100mm