LC-CLEAN P

LC Lasers

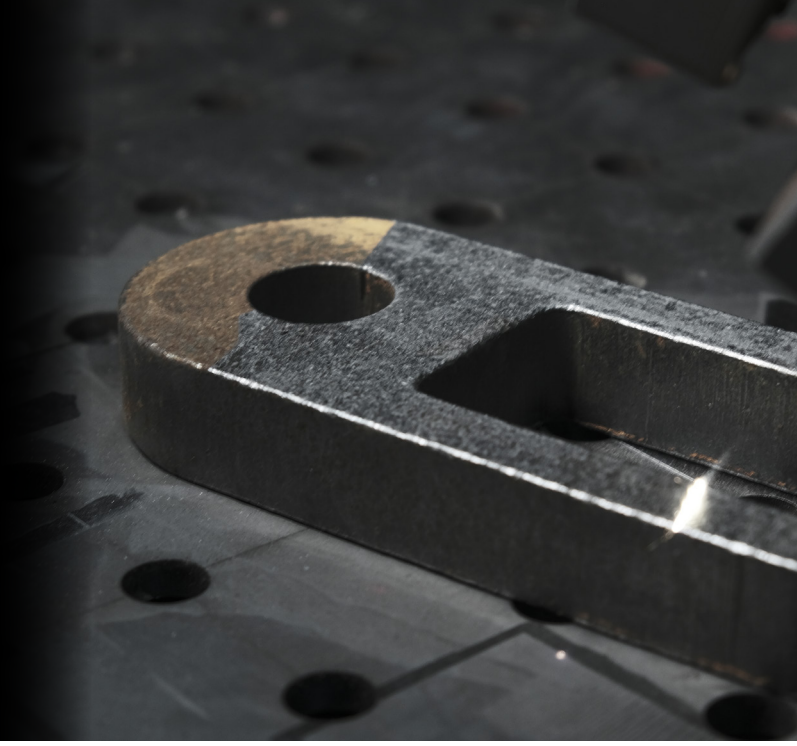
WELD.
CLEAN.
MARK.

Global presence

Own manufacturing and original design

At LC we work to offer the best laser solutions in the world of welding, industrial cleaning and product marking and engraving.

LC-CLEAN P



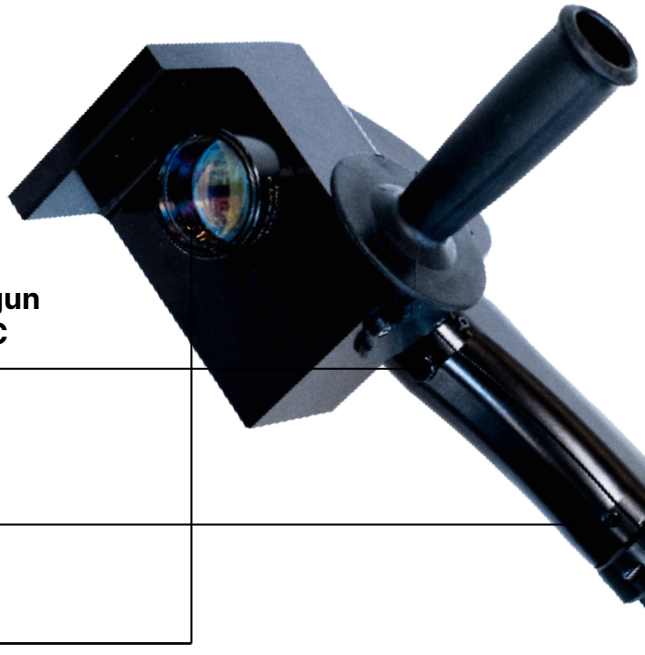
LC CLEAN is the latest technology in cleaning, an equipment that uses laser as a pickling system to extract impurities, leaving the substrate intact. With laser cleaning equipment we can remove paint, rust, impurities, perform detailed cleanings and work in different environments. A true revolution in industrial cleaning.

Eco-friendly

Laser more efficient

Intact material

Little maintenance



Original laser gun designed by LC

Comfortable and ergonomic

Interchangeable lenses

Touch screen

Control screen with everything integrated without the need for a computer.

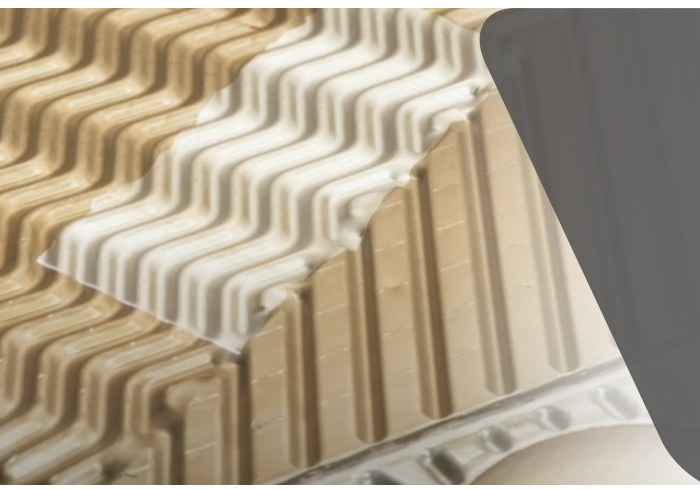
Own LC software with wide range of configuration

Equipment highly adaptable to the type of cleaning to be performed. We can vary the range, shape, scanning width, power, among other parameters.

Applications

- **REMOVAL OF RUST AND CORROSION.**
- **CLEANING OF PAINTS.** Allows paint to be removed if required, layer by layer.
- **RESTORATION.** Remove incrustation, pieces damaged by the passage of time, restore objects such as wine barrels.
- **CLEANING OF WELDINGS.** Prepare material for weld processing or perform post-weld cleaning.
- **CLEANING OF HEAT PLATE EXCHANGERS.**
- **CLEANING OF AUTOMOTIVE PARTS.**
- **Removing grease and oils is simple.**
- **CLEANING OF COATINGS.** Laser to complement part preparation processes to apply new coatings.

Materials



	CLEANING
Oxide	✓
Resin	✓
Stains	✓
Dirt	✓
Coatings	✓
Paint	✓
Fat and oils	✓

Comparison of processes

Laser cleaning can be a good alternative to other industrial cleaning methods.

	Laser Cleaning	Chemical Cleaning	Mechanical Cleaning	Dry ice	Ultrasonic cleaning
Cleaning method	No contact	Chemical Contact	Mechanical Abrasion	No contact	With Contact
Damage to the part	No harm	With damage	With damage	No harm	No harm
Efficiency	High	Short	Short	Medium	Medium
Consumables	Electricity	Chemical Agent	Abrasion	Dry ice	Special Cleaning Agent
Effectiveness	Excellent	Medium	Medium	Excellent	Excellent
Precision	High control	Low Control	Low Control	Low Control	Medium Control
Environment	Without pollution	Contamination	Contamination	Without pollution	Without pollution
Operational	Easy	Complex	Complex	Easy	Easy

Laser cleaning is the process of removing unwanted material from a solid surface by irradiating it with a laser beam. By absorbing the energy of the laser beam, the target material heats up very quickly, causing it to evaporate or sublime. It is important to note that if the surface below does not absorb energy, it remains intact.
By manipulating the laser flux, its wavelength and the length of its pulse, the amount of material removed by a single laser pulse
can be controlled with extreme precision. Make cleaning with
Laser is equally suitable for rapid and thorough rust removal as well as for removing just a thin layer of paint, without damaging the base coat.