
CO2 Laser Engraving



LC-CO2 by 

Company

LC is a leader in laser technology, we develop all kinds of solutions for industries and businesses.

We have a qualified team with great experience in laser and eco-efficient technologies.

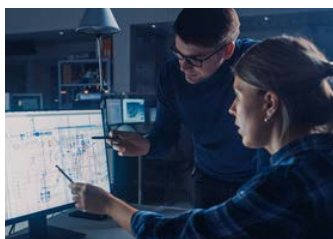
We are a company committed to industrial productivity, energy efficiency and taking care of the environment.

Our biggest goal is to make laser technology accessible worldwide, we want to share our knowledge and make the job as easy as possible.





Manufacturing Laser Technology



Analysis

Day by day we work to give our clients the best service. We want that every laser equipment is the most suitable for every case. LC is committed to offer the best option in the laser technology world, we will advise you so you can make the perfect decision. We offer 100% personalized solutions to each client.



Production

LC produces laser equipment in our facilities, to provide a faster, more efficient and higher quality service. Thanks to our production system we can ensure every detail is perfect and our machines are ready to work.



Quality

Our components are top brands so that your laser equipment works 100% from the first moment. We work with a rigorous system to improve controls and ensure the best performance of the equipment.



After-sales service

We offer a comprehensive after-sales service, with telephone, face-to-face assistance and an online service of video tutorials to solve doubts easily and give the opportunity to learn new capabilities of our laser machines. We want to offer the fastest and most efficient solution possible.

Our Co2 RF laser marking systems combine the most sophisticated electronic, optical and mechanical technologies and are characterised by their high degree of integration, due to the built-in cooling units, as well as the high efficiency of the Radio Frequency Co2 laser generators used in the LC-CO2 series. A typical CO2 laser consists of an electrically pumped gas discharge that is then cooled by air or water. CO2 lasers typically emit at a wavelength of 10.6 μm , but there are other lines in the 9-11 μm region.

Laser Type and Technology



1 High precision

CO2 laser engraving machines are perfect for engraving on many types of surfaces. They are very stable, the leading manufacturers of fibre laser machines offer generators that provide extremely high stability for up to 30,000 hours.

It has a lower maintenance cost, the Co2 laser marking machine does not need very high maintenance, so it reduces costs and improves production efficiency. The Co2 laser marking equipment only needs the design of the cutting patterns in the computer and you can mark the design you want.

2 No reworking required

High precision equipment, the laser beam of the Co2 laser marking machine has an extremely low tolerance, making it not only more productive, but also much more accurate.

Our marking systems have a serial and/or USB 2.0 connection for data transfer, which facilitates communication between the user's PC.

3 High detail and speed engraving

It is more environmentally sustainable - other lasers can only convert a small percentage of their power supply power into photons, but a Co2 laser converts around 40-60% of the energy it consumes



CO2 Laser Engraving Machine

Laser marking equipment offers high quality and reproducible marking of any desired geometry. The CO2 laser engraving equipment has a high quality galvo head and a high quality laser source at the best price.

Adjustable scale



System that allows height adjustment to adapt the laser to each thickness.

Galvo Head



Mirror system that allows fast and reliable laser marking.

Plug and Play



Connect the machine to a computer and straight away working.

Control buttons



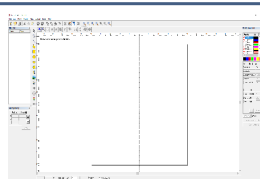
Illuminated metal buttons for durability and reliability.

Quality laser



High-end laser. The highest quality at the best price.

Software



Easy and intuitive software. It has a graphic editor or if you prefer, import your files from other programs.

Working table



Worktable with perforated slots to optimise production.



General characteristics

Programmable laser parameters

Customisable settings for each job.

Compact

Smaller equipment than other laser machines thanks to a more compact design.

Import

The machine software accepts different types of files, you can import your files in different formats.

Easy calibration

The machine has different red pointers that allow you to position the part at the ideal focal distance in a fast way.

Marking of any geometry

Use the design of your choice for marking or engraving.

Cutting

The CO2 laser allows us to make quick cuts in thin materials such as cardboard or paper.

Variety for marking and engraving

Marking and engraving options with many varieties.

Modular design

Add-ons and special features can be added depending on the work to be done.

High speed

A machine that reaches high marking speeds.

Own manufacture

Manufactured exclusively by LC.

Ease of use

Intuitive and quick to learn.



LC-C02



- POWERS: 35W and 60W



Materials

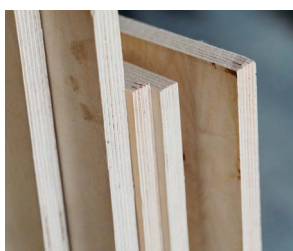


Table of Materials

	ENGRAVING
Acrylic	✓
Wood	✓
Vinyl	✓
Glass	✓
Laminates	✓
Leather	✓
Methacrylate	✓
Cardboard	✓
Paper	✓
Plastics	✓

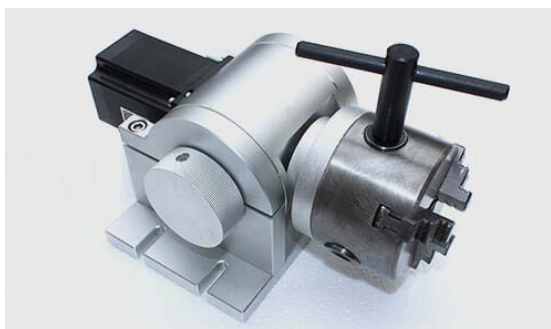
1
Compact device

2
Versatility of work

3
Easy and intuitive



Accessories and extras



Rotary system

Accessory for marking cylindrical objects in a suitable shape.



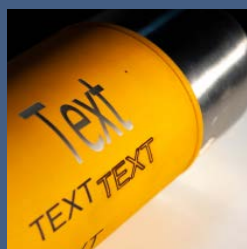
Pedal

Increase your working speed with a foot switch.

Applications and Industry

Marking equipment has many applications in different industries. The CO2 laser offers a great engraving precision and allows engraving some materials that the fibre laser does not allow. We can work with cardboard, wood, paper or methacrylate, among other options.

This equipment allows you to personalise elements and mark parts and machinery with codes or similar. Implement images, letters, vectors, designs and much more.



Información Técnica

	35W	60W
Working area	200x200	300x300
Wavelength	10.55 a 10.63 μ m	
Laser type	Co2 R.F.	
Output power	10%-100% (can be ajusted)	
Output frequency	1KHz - 20KHz	
Power stability	< \pm 5%rms	
Focus point diameter	<1.8mm	
Engraving range	\leq 400*400mm (customised)	
Engraving depth	<2.5mm	
Engraving speed	<6000mm /s	
Minimum line width	0.012mm	
Minimum character	0.1mm	
Repetition accuracy	\pm 0.003mm	
Operating system	Windows 7 / Windows 10	
Cooling mode	Air cooling	
Ambient temperature	10°C~35°C	
Ambient humidity	20%-80%	
Electrical parameters	220V/Singlephase/50Hz/<2000W	
Laser life time	10.000 hours	
Host size	400mmx350mmx635mm	







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