



INTEGRABLE LASER MARKER

CO2 LASER

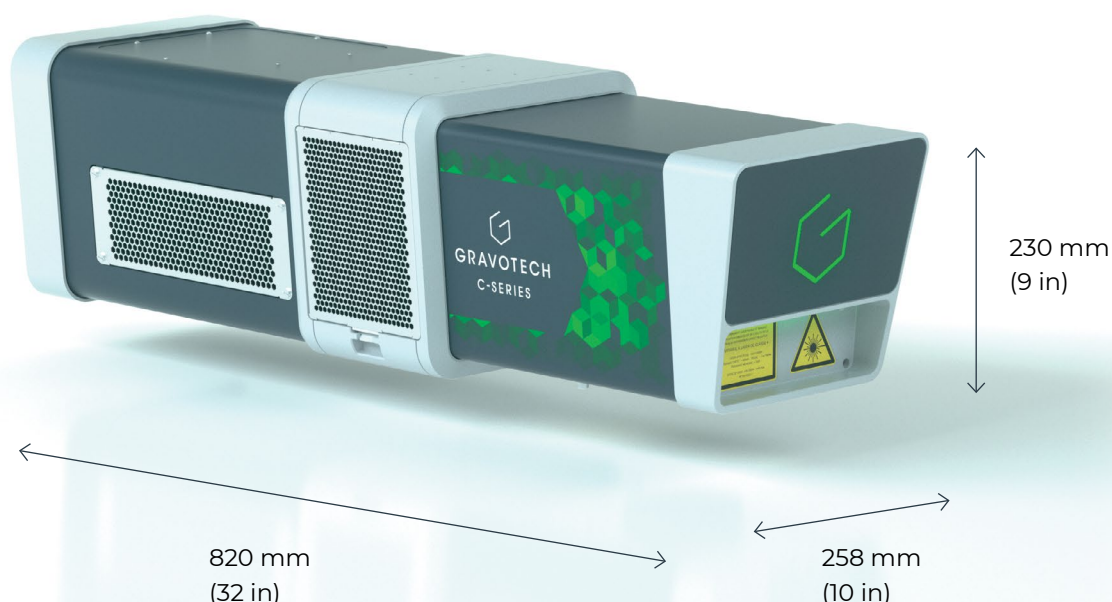


GRAVOTECH

by  **BRADY**



The CO2 laser marker is perfectly suited for marking organic materials. Unlike conventional marking systems like inkjet or label, the laser operates without contact and does not require maintenance or consumables.



FROM THE NATURAL TO THE TRANSPARENT

Our powerful and versatile CO2 laser engravers use a 10600 nm wavelength in the infrared range, which provides a precise and permanent marking on a wide range of materials such as natural materials (wood, leather, paper, fruits & vegetables), transparent material (glass, transparent plastics) and coated materials (painted surfaces, anodized aluminum).

ECO-FRIENDLY SOLUTION

Direct marking with CO2 laser engraver is a real alternative to stamping, inkjet, or labeling in several fields. Our solution is environmentally friendly as no ink is used and no waste is generated.

The CO2 laser works without consumables, unlike the other alternatives, so there is no need to replace ink or stop the machine for maintenance.

VISION MANAGER - ONE SOLUTION FOR MARKING & READING

With the efficient Vision Manager, identification of your parts is ensured. High-efficiency reading camera, easy to install, grade analysis and sending status information to the PLC are some of the features the module offers. Associated with an extremely high coding speed (up to 10,000 mm/s), the CO2 series is designed to be integrated into high productivity lines.

SEE OUR VIDEO



KEY FEATURES



Total transparency

As a non-contact marking system, our CO2 laser technology can safely engrave even on the thinnest glass and transparent plastic (PC & PET) without the risk of damaging the product.

The glass is only marked on its surface and for transparent /translucent PET plastics, a perfectly readable white marking on the surface is achieved.



The wood marking specialist

Operating without consumables, CO2 laser engraver directly marks the wood at the end of production, without altering of the quality of the material.

Laser marking of wood does not generate chips, but only smoke, gases, and dust which can be safely evacuated by an extraction system.

There are many marking possibilities on wood which can be obtained by adjusting the speed or the power of the CO2 laser. The marking color can vary from dark brown, different shades of brown or even white.



Embedded on the Laser

This CO2 laser marker can work independently in a production line and generate all data necessary to your identification without a computer.

It can serialize your parts instantaneously, generate unique ID with complex marking content (timestamps with multiple formats, variables, counters, shift codes) and update the text and 1D/2D codes predefined in your templates.

This powerful embedded electronic can communicate and centralize information coming from your PLCs and database in real-time, saving you time while increasing your productivity.

LEARN MORE ABOUT THIS PRODUCT



APPLICATIONS



Coated metals



Non-contrasted marking on plastics



Marking on labels



Fruits & vegetables marking



Marking on wood



Glass & transparent plastics

MATERIAL CHARACTERISTICS

Technology		CO2
Materials	Colored plastic	◻
	Food	●
	Glass, crystal, transparent plastics	●
	Leather	◻ ●
	Wood, varnished wood	◻ ●
	Foam	◻ ●
	Anodized aluminum	●
	Coated metals	●

◻ = Cutting

◻ = Engraving / Deep Marking

● = Marking / Etching

MAKE YOUR SAMPLES



SOFTWARE



Lasertrace is a unique software specially designed to create marking files to be loaded in the laser system. It includes a graphic composition to add text, logos and codes like Datamatrix in your marking templates.

You can describe your marking process according to specified rules: the actions (marking blocks) to be carried out, the sequence of execution and the possibility to implement a large choice of transitions (output activations, camera blocks, variables, etc).

ACCESSORIES



Exhaust system

Laser fume extractors guarantee clean and safe work and working environment.



Rotary device

Rotation system for cylindrical part marking.



eZ Laser

Motorized and autonomous Z-axis for laser marker.

SERVICE & SUPPORT



Training

Standard or customized training sessions, at your place or online.



Technical Support

Gravotech experts dedicated to support and guide you.



Maintenance

Gravotech has established a dedicated program for each machine type, including cleaning, adjustments, safety checks and more.

TECHNICAL DATA

CO2 SERIES

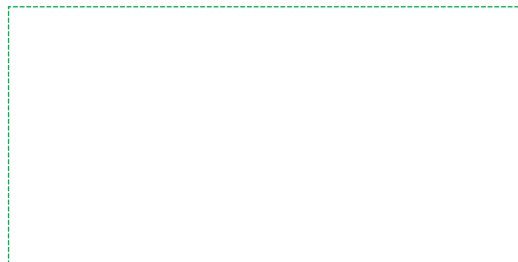
Model	C 30
Laser technology	CO2
Power	30 W
Frequency	CW laser (Continuous Wave)
Scan speed	Up to 10,000 mm/s (393.7 in/s)
Marking area - Available lenses	F100: 70 x 70 mm (2.75 x 2.75 in) F150: 100 x 100 mm (3.94 x 3.94 in) F200: 140 x 140 mm (5.51 x 5.51 in) F300: 210 x 210 mm (8.27 x 8.27 in)
Communication Interfaces (standard)	Ethernet TCP/IP; Terminal block 8I / 8O; Laser Safety Dedicated I/O; RS232; USB
Fieldbus	PROFINET or ETHERNET IP
Display	Integrated screen with control panel for: REAL-TIME SUPERVISION, EASY DIAGNOSIS, SOFTWARE UPDATES, MEMORY BACK-UP...
Marking specifications	+60 Gravotech fonts, Possible to convert User & TTF fonts, All formats of barcode and 2D codes, Logos
Operating temperature	10 to 40°C (50 to 104 F)
Rated voltage	100 - 240 V AC
Marking head weight	24 kg (52.9 lbs)
Marking head cable length	All-in-One laser
Marking head installation direction	All positions
Laser safety classification	Class 4



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