



INTEGRABLE LASER MARKER

FIBER LASER

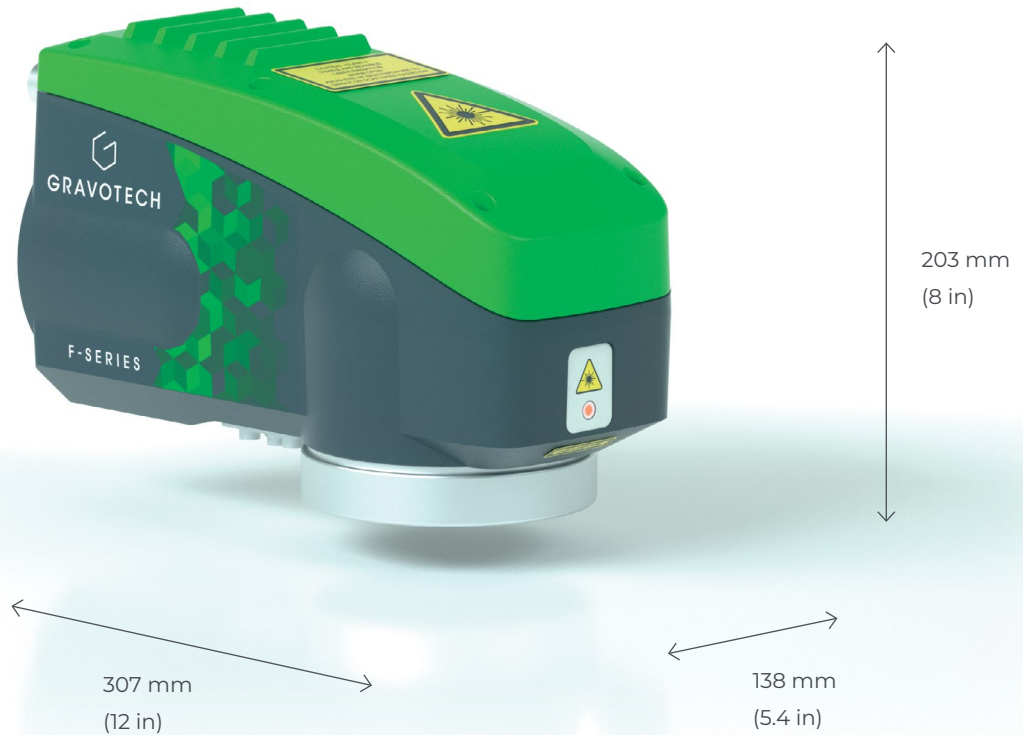


GRAVOTECH

by  **BRADY**



Our powerful and high-quality Fiber Laser engraver performs precise markings in very short cycle times. Compact, with great communication links and simple to integrate in a manufacturing process, it is the perfect laser engraver for metal and plastics.



COMPACT

The heavy-duty design, based on a cast aluminum structure, and high-quality optical components guarantee strength and low maintenance. Whether integrated on production lines or robotic cells, its implementation is easy in all mounting positions. The laser can be oriented to the part surface to significantly reduce installation times and costs.

INDUSTRIAL

Equipped to meet the needs of Industry 4.0, the fiber laser engraver is equipped as standard with full network communication ports allowing full compatibility with all PLCs brands and ensure quick and cost-effective integration.

POWERFUL

This laser marking machine is available in several powers, 20W, 30W and 50W. 20W is adapted for most of the applications for a surface marking, 30w is the solution for your fast and high-contrast markings, and 50W is the most suitable solution for deep laser markings.

Looking for a simple & affordable laser marker? The Fiber ENERGY contains all core features necessary for basic applications.

SEE OUR VIDEO



OPTIONAL FEATURES



3D Marking

This module guarantees you a precise and uniform laser marking, whatever the regularity of the pieces, or the complexity of their shape.

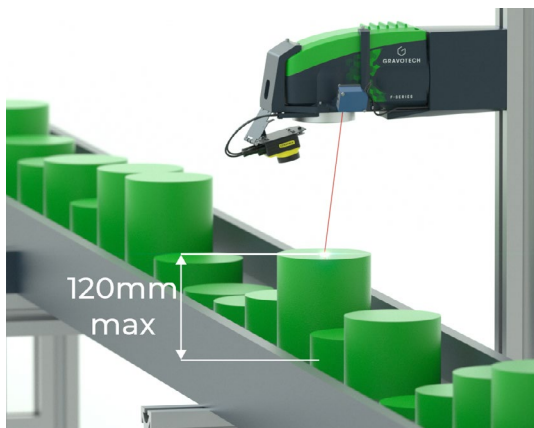
Simplify your integration: no need to adjust the focal distance - Easy programming highest amplitude.

Choose the best solution on the market:

Focal 160: up to 60 mm (2.36 in)

Focal 254: up to 120 mm (4.72 in)

Fastest solution – Reduce your marking cycle time: Less than 100ms to change the focal distance Instant refocusing.



Autofocus

This module automatically adjusts the focal distance without calibration or wait time:

- Guarantee of optimal marking regardless of the flatness of the parts or their shape.
- Exceptional range up to 120mm (4.72 in) for part height variation for marking of various types of parts on the same line.
- Constant contrast & depth.



Vision Manager - Immediate marking control

2D code content verification.

Graduation of the code and trigger of operations: file selection, dialogue with the PLC, activation of alarms, actuators for rejecting faulty parts.

Used with Lasertrace software, this module includes a Cognex Insight camera with lighting, auto-focus system and protective lens.

It offers a perfect reading of all 1D and 2D codes.



Mini-inline - Innovative solutions for permanent marking

Gravotech has designed a turnkey marking solution that will fit perfectly on your production lines.

Mini-inline is a class 1 nozzle to perform marking without designing a costly class 1 casing to secure all the marking process.

Designed for marking of large industrial parts: this class 1 solution is fully customizable to fit your parts perfectly.

APPLICATIONS



Annealing



Laser etching



Surface cleaning



Deep engraving

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.



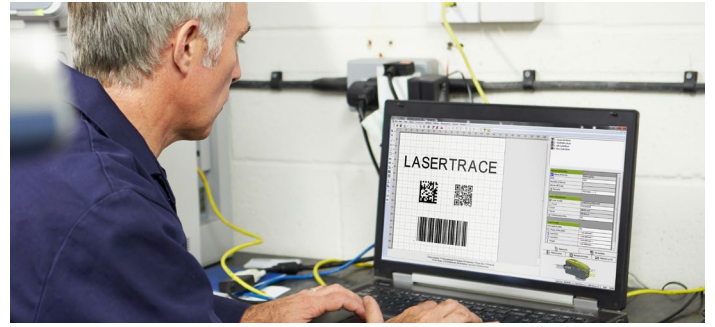
SOFTWARE



Embedded on the Laser

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

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.



LASERTRACE

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.

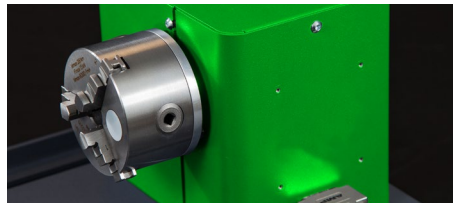
You can describe your marking process according to specified rules: the actions (marking blocks) to be carried out, the sequence of execution and the possibility to implement a large choice of transitions (output activations, camera blocks, variables, etc).

ACCESSORIES



Exhaust system

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



Rotary device

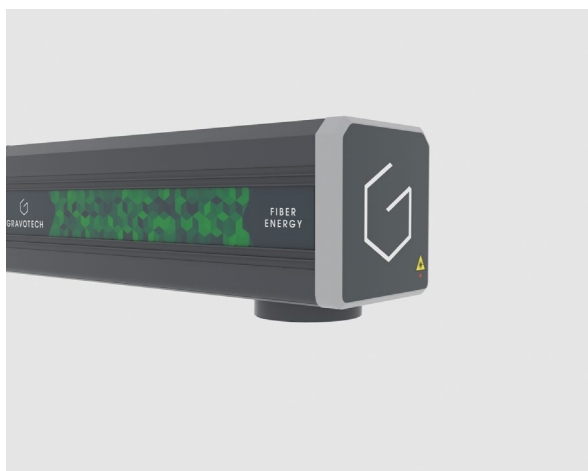
Rotation system for cylindrical part marking.



eZ Laser

Motorized and autonomous Z-axis for laser marker.

DO YOU NEED ONLY THE ESSENTIAL?



Fiber Energy

Taking all of our expertise, our proven design and dependable components we have created the essential laser, the Fiber Energy. Without the need for autofocus or complex multi-level marking, we can now provide a simple stripped back experience without compromising our product quality.

The Fiber Energy, with a IP54 marking head sealed from dust and other projections, designed to cope with a harsh environment.

With fibre source available in 20 W and 30 W versions, you can get a precise and powerful marking on a wide range of metallic materials: steel, stainless steel, titanium, aluminium and more.

TECHNICAL DATA

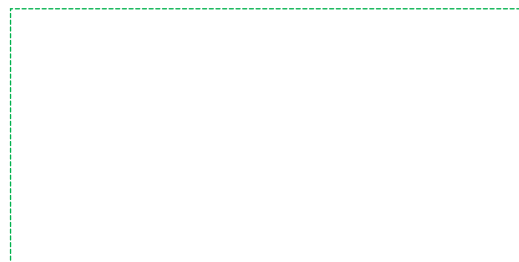
	FIBER SERIES	FIBER ENERGY
Model	F20 / F30 / F50	F20E / F30E
Laser technology	Fiber	
Power	20 W / 30 W / 50 W	20 W / 30 W
Peak power	10 kW	
Frequency	2-200 KHz	30-60KHz
Scan speed	Up to 10000 mm/s (393.7 in/s)	Up to 3000 mm/s (118.11 in/s)
Marking area - Available lenses	F100: 65 x 65 mm (2.6 x 2.6 in) F160: 110 x 110 mm (4.3 x 4.3 in) F254: 175 x 175 mm (6.9 x 6.9 in) F330: 205 x 205 mm (8 x 8 in)	F160: 110 x 110 mm (4.3 x 4.3 in) F254: 175 x 175 mm (6.9 x 6.9 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	8.3 kg (18.3 lbs)	7.5 kg (16.5 lbs)
Control unit	F20-F30: 16.6 kg (36.6 lbs) F50: 20.6 kg (45.4 lbs)	17 kg (37.5 lbs)
Marking head cable length	3 m – 9.8 Ft (5 m – 16.4 Ft in option)	3 m – 9.8 Ft
Marking head installation direction	All positions	
Laser safety classification	Class 4 Laser system, possibility to switch in Class 1 for integration on a station or equipped with Mini Inline module.	



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