

FIBER LASER TOUCH



POWERFUL, VERSATILE, EFFICIENT

DATAMARK

STANDALONE LASER MARKING SYSTEM FOR INDUSTRIAL PRODUCTION

The **Datamark Fiber Laser Touch** is a state-of-the-art fiber laser marking system **designed for industrial environments** where flexibility, autonomy, and integration into production processes are essential.

Its key differentiator is its **integrated touchscreen**, which allows for complete control of the device without the need for an external computer, offering a compact, independent, and highly **versatile solution** for marking applications on both static parts and continuous processes.



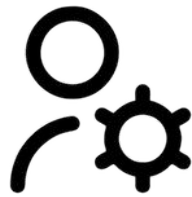
ADVANCED FEATURES

SUPERIOR PERFORMANCE



EASE OF USE

Designing the marking messages and controlling the marking process is extremely simple using the touch screen; texts, serial numbers, shift codes, dates, logos, datamatrix codes, etc.



GUARANTEED PRODUCTION

The integrated software allows you to assign different user levels (administrator, advanced user, production, etc.), for perfect organization of work processes in the company.



FLEXIBLE INTEGRATION

The system features Ethernet connection to receive variable data and commands, and can be integrated with PLCs or enterprise computer systems such as ERP, in addition to configurable digital I/O inputs and outputs.



INLINE MARKING

The laser allows marking parts in motion without interruption (fly marking), adapting to automated production lines, both for parts and continuous materials, guaranteeing maximum performance.



EFFICIENT TECHNOLOGY

The high-performance MOPA fiber laser offers clean and efficient marking, without consumables, adapting to existing industrial production processes with minimal maintenance.

THE COMPLETE “ALL-IN-ONE” SYSTEM

MAXIMUM VERSATILITY



1 DEVICE - 4 CONFIGURATIONS

FLEXIBLE INSTALLATION



BENCHTOP

Open desktop workstation setup. Maximum flexibility for working with pieces of varying sizes and dimensions.



INLINE

The laser is easily integrated into the manufacturing line, automatically marking parts, products and materials continuously and without the need for a stop.



MODULAR

The modular concept of the laser facilitates its integration into special processing machines, with laser safety modules custom-made for the product to be marked.



ENCLOSURE

The FIBER LASER TOUCH is a scalable marking system that facilitates the construction of custom-made marking enclosures and workstations with class 1 laser safety.

MARKING SOLUTIONS FOR THE INDUSTRIES



MACHINING

Permanent marking on metal parts, from machined components to industrial structures, guaranteeing precision and durability.



ELECTRONICS

High-precision laser marking on electronic components, labels or housings of subassemblies and equipment, ensuring traceability.



AUTOMOTIVE

Laser marking is applicable to a wide variety of metal or plastic parts, allowing for precise coding in automated processes.



AEROSPACE

Permanent engraving on critical parts and nameplates, for strict compliance with identification and traceability standards.



MEDICAL

High-precision, high-contrast laser marking on implants, prostheses, and surgical tools, guaranteeing traceability and biocompatibility.

MARKING MATERIALS

Metals	
Stainless steel	●
Carbon steel	●
Galvanized steel	●
Aluminum	●
Anodized aluminum	●
Brass	●
Titanium	●
Nickel	●
Cast iron	●
Alloys	●
Copper	●
Gold	●
Silver	●
Platinum	●

Plastics	
ABS	●
PVC	●
Polycarbonate (PC)	●
PET	●
PMMA (acrylic)	●
POM (Delrin/acetal)	●
PA (Nylon)	●
PE (Polyethylene)	●
PP (Polypropylene)	●
PTFE (Teflon)	●
PEEK	●
PSU	●
Rubber	●
Foamed plastic	●

Coatings	
Varnishes	●
Paints	●

Material	
Untreated glass	●
Optical glass	●
Quartz	●
Ceramics	●

Organics	
Wood	●
Paper/Cardboard	●
Cork	●
Leather	●
Textiles	●

- Optimal marking
- Possible/conditional marking
- Not markable

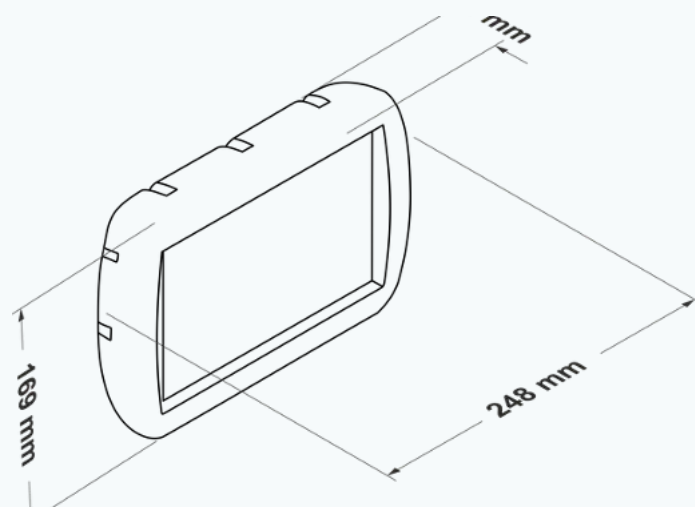
The marking result depends on the material, its chemical composition, color, additives, surface finish, and correct laser parameterization. Datamark always recommends performing marking tests on samples before final installation.

TECHNICAL DATA

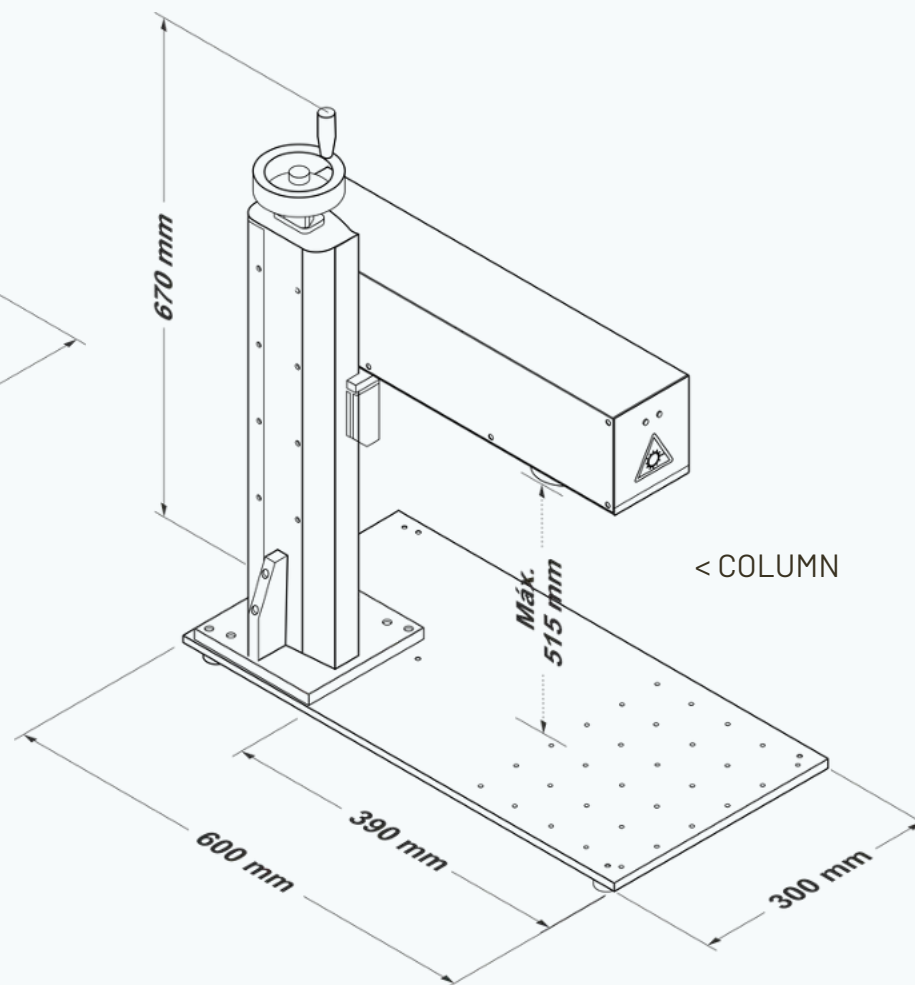
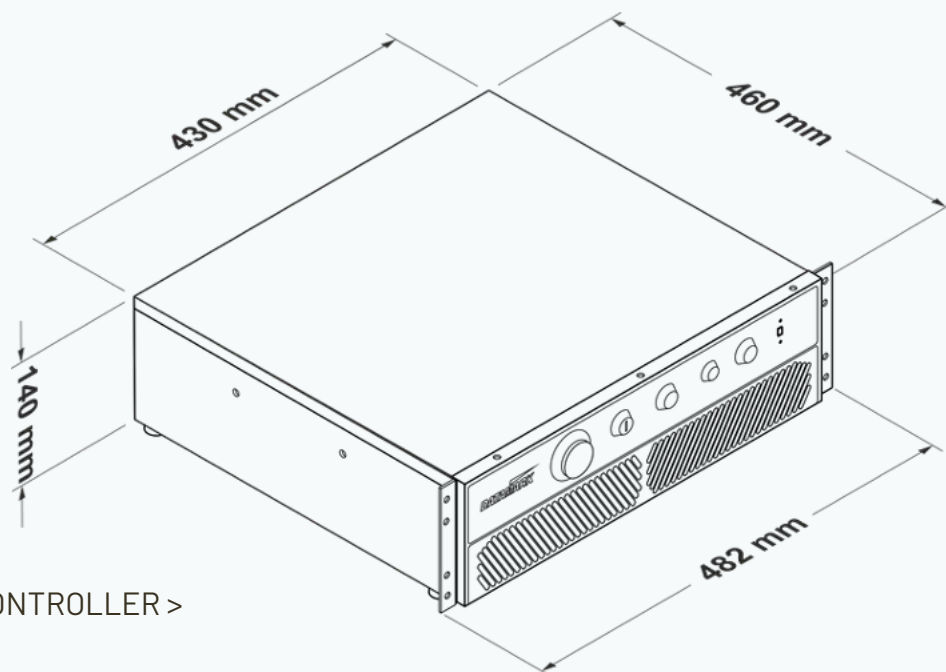
FIBER LASER TOUCH	30 W	50 W	100 W
Laser source	Fiber MOPA, air cooled	Fiber MOPA, air cooled	Fiber MOPA, air cooled
Wavelength	1064 nm	1064 nm	1064 nm
Output power	30 W	50 W	100 W
Marking area	Marking lens F160: 110x110 mm / Marking lens F 254: 175x1175 mm		
Marking distance	F160 marking lens: ~185 mm / F254 marking lens: ~285 mm		
Focus and adjustment	Red light focus finder indicators / Red light preview indicator		
Marking control	10" color touchscreen with integrated software		
Marking data	Texts, automatic time-date, serial numbers, barcodes, datamatrix, logos (HPGL, BMP, JPG, DXF, PLT)		
Control panel	Emergency stop, lock key, laser on/off, status light		
Controller interfaces	Touchscreen, IN/OUT (2x IN, 3x OUT), Trigger (start) / Optional: Encoder, Photocell-Sensor, RS-232		
Touchscreen interfaces	LAN/Ethernet, USB		
Fiber optic cable length	1,5 m		
Weight	Head: 5.8 kg / Controller: ~21 kg / Touchscreen: 2 kg		
Power supply	110V or 240V / 50-60HZ. Factory selectable		
Operating conditions	7°C - 40°C, 10% - 85% relative humidity		

DIMENSIONS

TOUCHSCREEN >



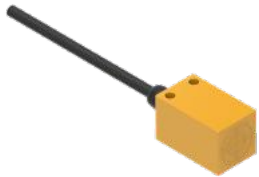
CONTROLLER >



< COLUMN

INCREASED POSSIBILITIES

OPTIONAL ACCESSORIES



PHOTOCELL SENSOR

The sensor allows the marking to be activated when it detects the parts and also acts as a safety feature in booths, stopping the laser if the door is opened.



SAFETY GOOGLES

Safety goggles protect the operator's eyesight from laser radiation, ensuring safe work at all times.



MOTORIZED COLUMN

The motorized desktop column allows for precise height adjustment, facilitating optimal focus on pieces of different dimensions.



INLINE SUPPORT

The mounting support allows the laser to be integrated into automated lines, ensuring stability and precision in marking parts in continuous production.



ENCODER

The encoder synchronizes the marking with the line speed, ensuring accuracy in continuous products such as cables, tubes, or profiles.

START MARKING WITH DATAMARK



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