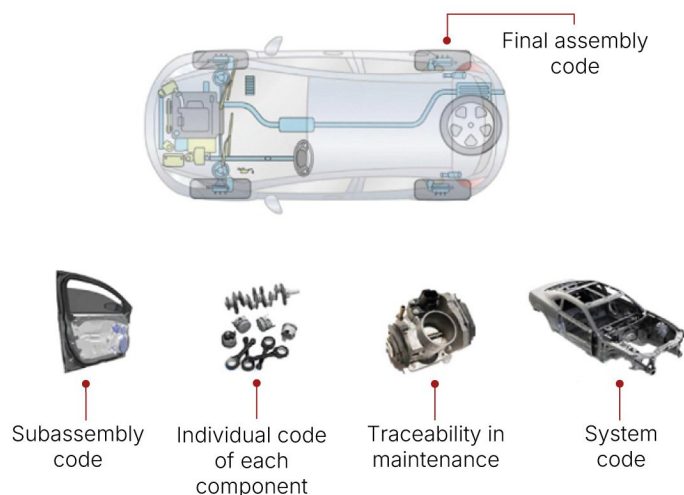


LASERLOGY

LS → F SERIES



LASER MARKING



Laser marking allows you to create precise and permanent markings, even in hard-to-reach areas, through a fast and flexible process.

LASERLOGY's innovative solutions allow you to enter information about work pieces as part of your production configuration. The permanence of the laser marks guarantees optimum traceability. In addition, contactless marking has several advantages, low material tension and low costs due to the absence of tool wear.

Our pillars



TECHNOLOGY

Everything we do is based on the deployment of the latest laser technologies applied to the industry.

Our company enhances the things that move people. We develop and design solutions with a high technological value, always keeping the client's needs as a global focus.



SERVICE

Our service begins long before a laser system is installed.

Customer advice, feasibility analysis and project management are the pillars on which our concept of success is based. A global network of experts at the service of our customers.



QUALITY

In our company, each employee is involved and sensitized, resulting in high quality products and high level service.

Technological know-how and a great sense of the important form the basis of our innovative and high quality products.

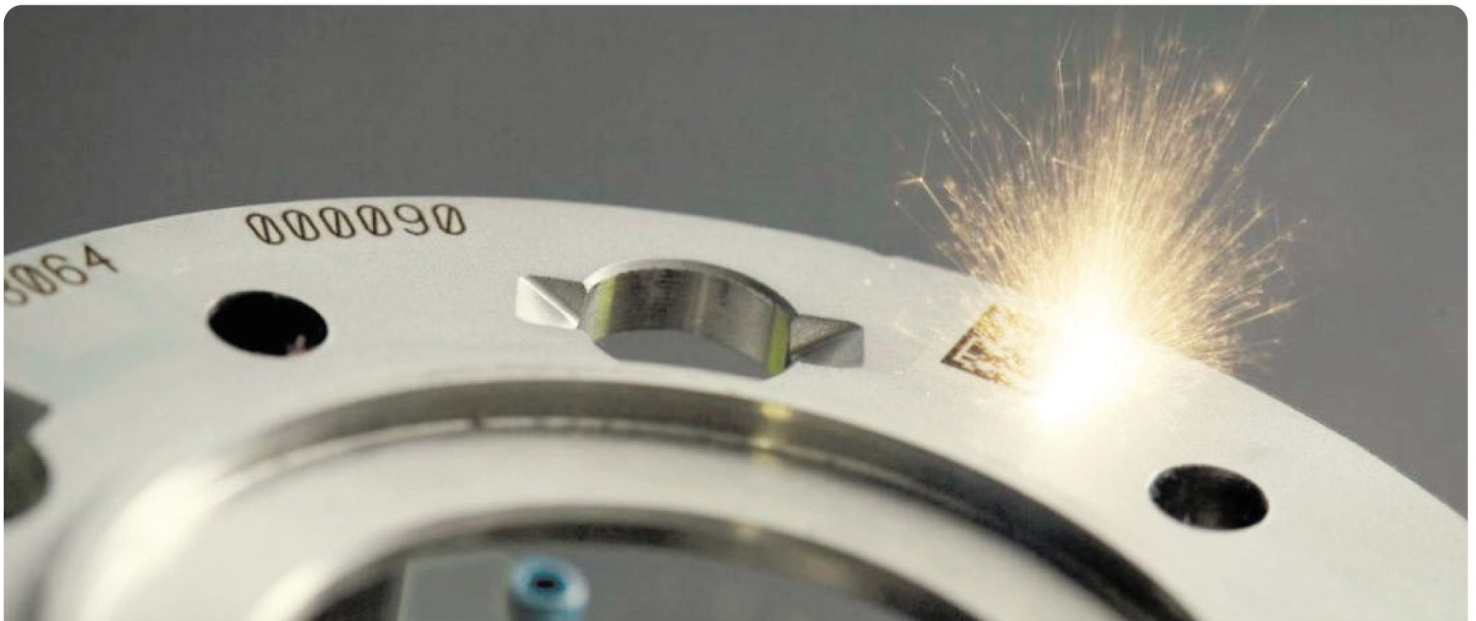
LS-F SERIES laser marker

FIBER LASER TECHNOLOGY

LS-F Series laser marker utilizes a fiber optic cable that has been doped with ytterbium (Yb) as a laser generating medium.

The fiber laser doesn't require an amplifier and offers higher performance compared to solid state lasers, making it possible to decrease the size of the marker.

A high light conversion ratio also allows to reduce the power consumption compared to conventional DPSS laser markers.



HIGH QUALITY MARKING

The LS-F Series takes advantage of various new technologies compared to conventional models in order to get high definition marking.

Material processing is controlled by adjusting the laser power, scanning speed and frequency for each object (line, text, logo, etc). The result is a beautiful and high-quality mark even at high speeds.

The combination of a high-speed galvo scanner and a output laser power up to 100W allows to perform a quick and accurate marking in all type of metals and a wide range of plastics.



ABLATION

Removes a coating, paint or other surface treatment of a base material to create contrast without damaging the surface of the underlying material. Typically made on anodized aluminum, backlit buttons (day/night), painted metals, and FR4 printed circuits.



ETCHING

Ability to change the surface finish of a metal thus altering its reflectivity and enhancing contrast. Penetration depth is typically no more than 3 microns deep. One of the most common forms of laser marking.



ENGRAVING

Vaporization of the base material sufficient to produce the required depth, typically from 3 microns to 150 microns. The vaporization process is identical to surface marking. Deep engraving requires multiple passes.



FOAMING

After a brief melting operation, small gas bubbles get trapped in the material as it cools. These bubbles diffuse and reflect any light that hits them, producing a high contrast mark.



COLORING

Commonly used with plastic materials. The contrast can be obtained in some plastics by contact with heat or by coupling a wavelength that causes a chemical change. It is possible to use chemical additives with most plastics to achieve different colors.

ANNEALING

Laser annealing produces permanent heatinduced marking, without the removal or alteration of the material. This process applies to all metals that contain carbon and that alter its color under thermal action. Excellent for applications that require smooth and undamaged surfaces.



SURFACE TREATMENT

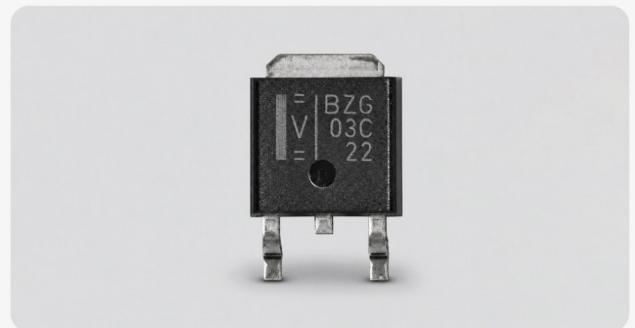
Surfaces are structured or cleaned for a specific purpose using lasers. For example, laser processing can be used to remove layers of oxide, oil or phosphate in preparation for subsequent processes.

OTHER PROCESSES

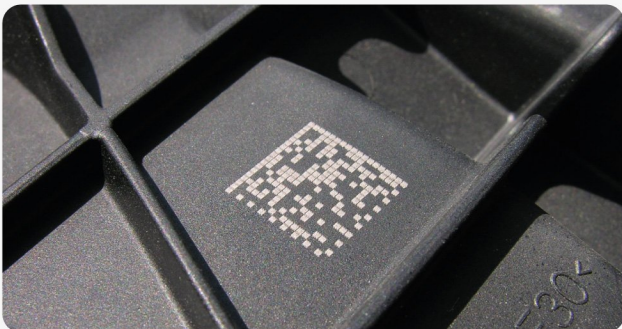
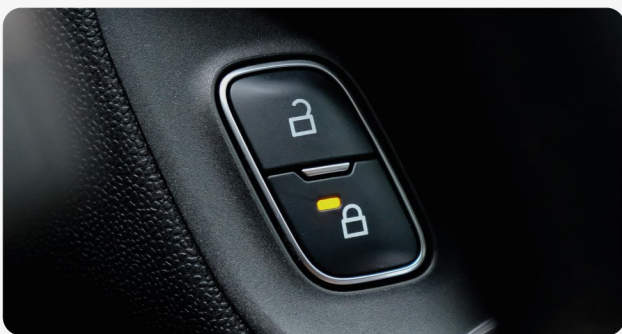
The processing of organic materials (leather, wood, cardboard, etc.) is possible thanks to the range of CO2 laser markers. Other processes such as cutting, welding, or micro-perforating can also be performed using laser technology.



ELECTRICAL AND ELECTRONICS INDUSTRY



AUTOMOTIVE INDUSTRY



MEDICAL AND PHARMACEUTICAL INDUSTRY



MANUFACTURING INDUSTRY



FEATURES

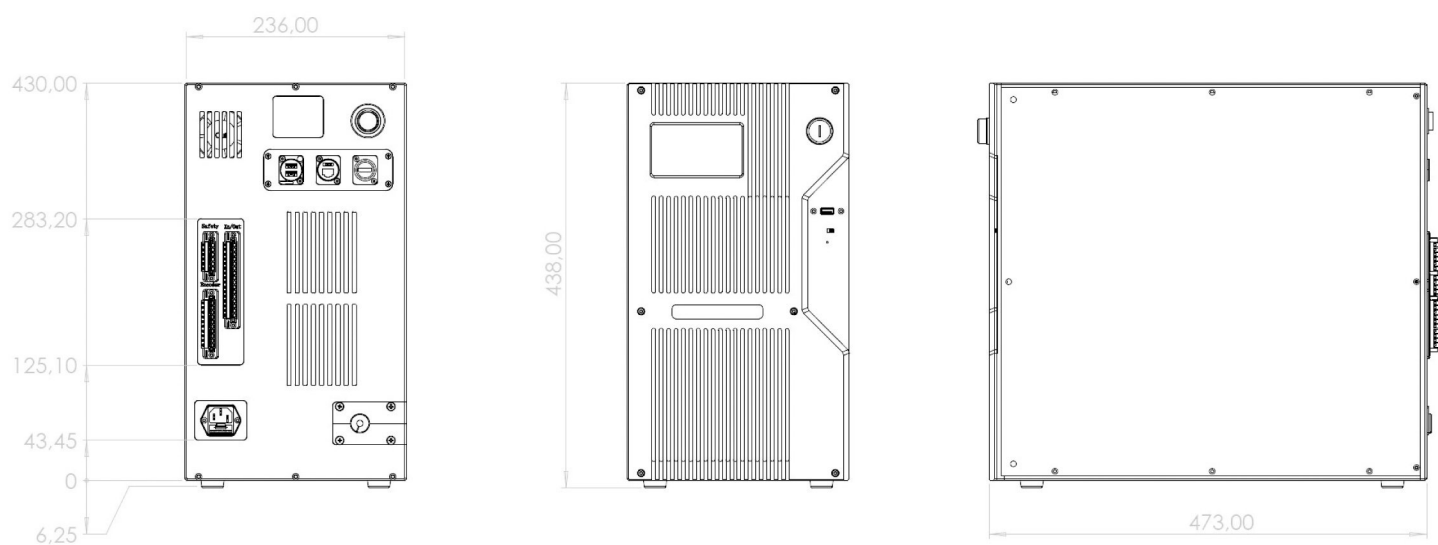
Discover all the details and features of our equipment. If you need further information or would like to learn more about our equipment, please contact our support team.

MODEL	LS-20F	LS-30F	LS-50F	LS-70F	LS-100F
LASER POWER	20W	30W	50W	70W	100W
PULSE DURATION	2-500 ns				
FREQUENCY	1-4000 KHz			1-8000 KHz	
LASER TYPE	Ytterbium-doped fiber				
MARKING AREA	70x70mm, 110x110mm, 175x175mm or 220x220mm				
WAVELENGTH	λ = 1064nm, class 4 laser				
GUIDE POINTER	Semiconductor λ = 655nm, class 2 laser; 1mW				
MARKING METHOD	Galvanometric scanner				
MAX. SCANNING SPEED	12000 mm/sec				
SOFTWARE	LogyMark				
CHARACTER TYPE	Characters, numbers, symbols and other special characters				
2D CODES / BARCODE	CODE39, CODE128, ITF2/5, NW-7, JAN/UPC/EAN, RSS 14, RSS limited, RSS expanded (GS1 Databar), GS1 Data Matrix, QR, Micro QR, Data Matrix (ECC200), etc.				
LOGOS / GRAPHICS	VEC, DXF, BMP, HPGL, SVG, JPEG, AI, EPS, etc				
AMBIENT TEMPERATURE	0 to +40°C (non-condensing, no frost), storage: -10 to 60°C				
AMBIENT HUMIDITY	35 to 75% RH (non-condensing, no frost)				
COOLING	Forced-air cooling				
POWER SUPPLY VOLTAGE	90 to 132 VAC or 180 to 264 VAC, 50/60 Hz				
POWER CONSUMPTION	< 500 W				
COMMUNICATION INTERFACES	Digital I/O, Ethernet (TCP/IP)				
FIBER CABLE LENGTH	3 meters (Other lengths available on request)			5 meters (Other lengths available on request)	
MARKING HEAD WEIGHT	6.5 Kg				
CONTROL UNIT WEIGHT	24 Kg				

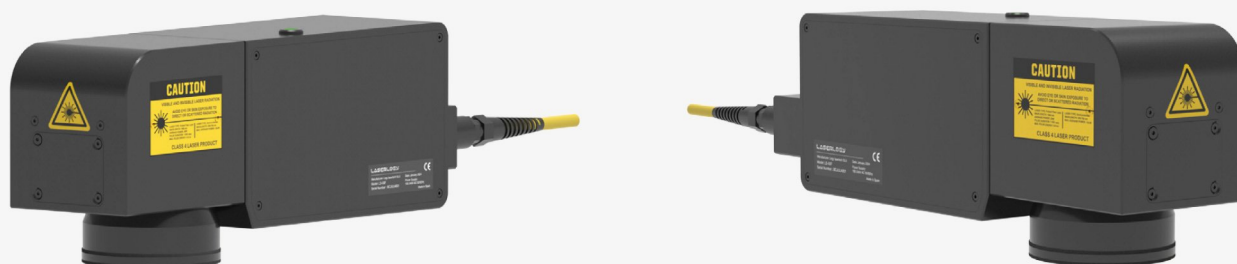


CONTROL UNIT

Compact and equipped with various interfaces for easy integration into machines or production lines. Check the dimensions or request the 3D files to verify your project.

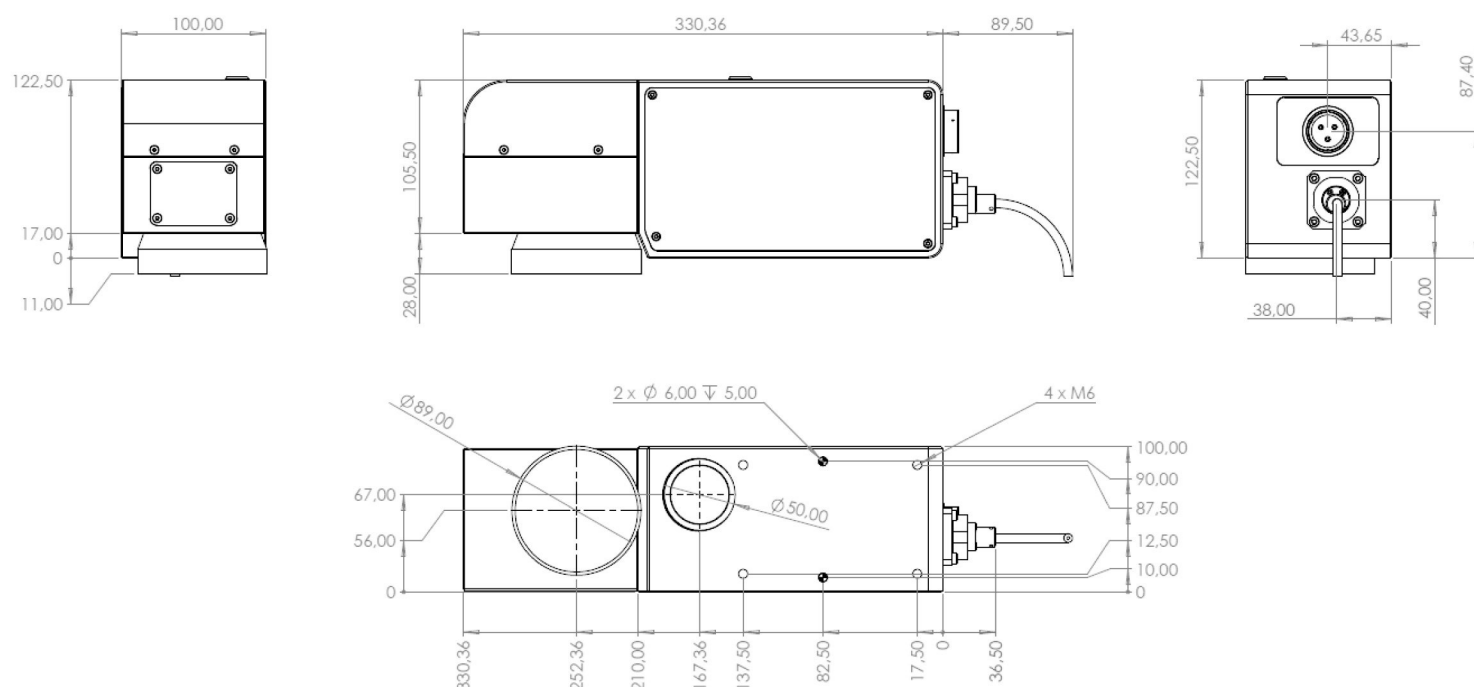


All dimensions are expressed in mm.



2DH MARKING HEAD

The 2DH version of the marking head features a horizontal fiber output, allowing the head to be installed in any orientation relative to the marking plane. Select the version that best suits your installation.

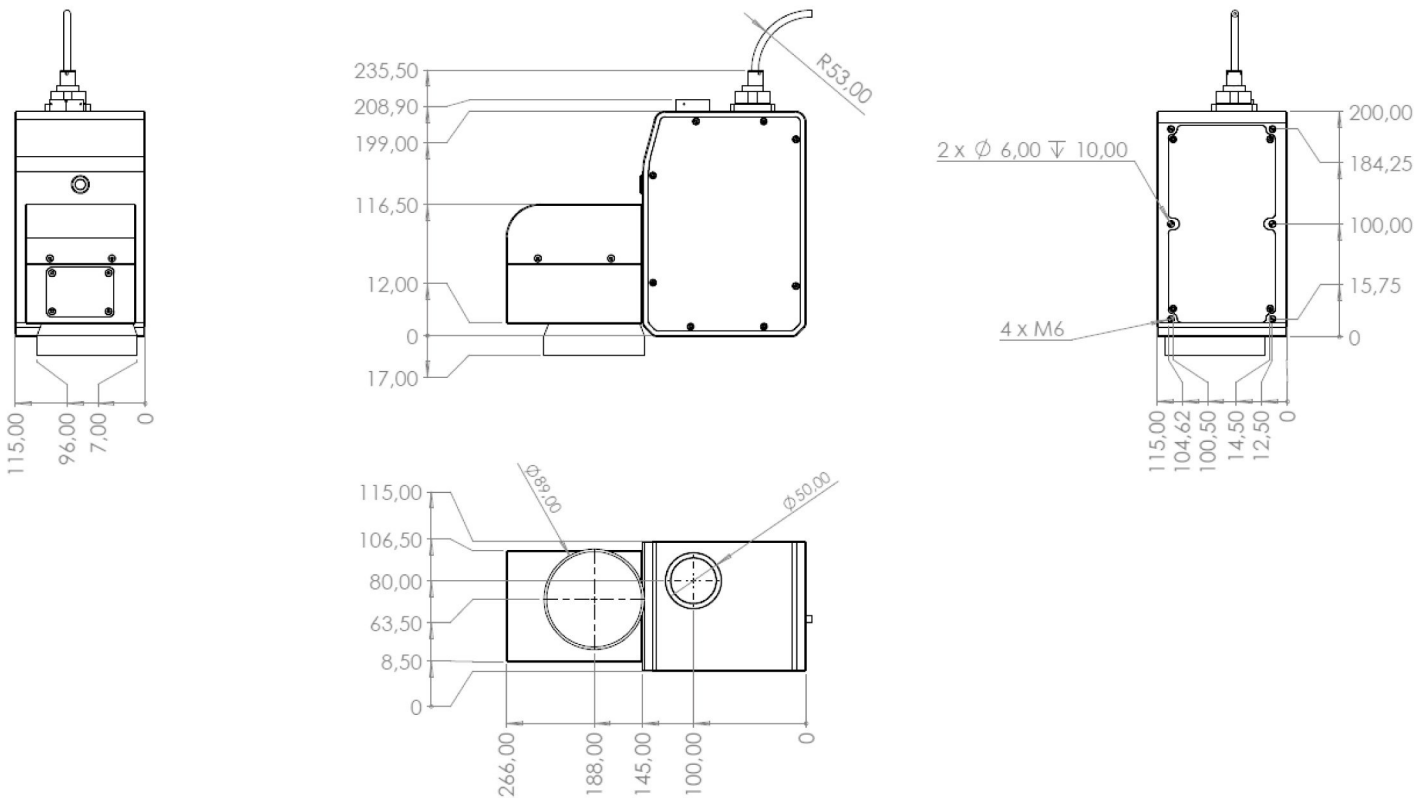


All dimensions are expressed in mm.



2DV MARKING HEAD

The 2DV version of the marking head features a vertical fiber output, allowing the head to be installed in any orientation relative to the marking plane. Select the version that best suits your installation.



All dimensions are expressed in mm.



LASERLOGY

SPAIN

Head office

📍 Polígono Industrial A Granxa, Rúa C,
Paralela 4, 118 - 36475, O Porriño
(Pontevedra)

☎ (+34) 986 596 706

✉ info@laserlogy.com

MEXICO

Technical Support & Sales

📍 Parque Industrial Colosio, Calle 3, 459 -
Colonia Balcones de la Aurora, 25298,
Saltillo - Coahuila

☎ (+52) 844 459 3605

✉ ventas.mx@laserlogy.com