DESKTOP FIBER LASER MARKER FASTMARKER F-D SERIES

- FastMarker F2100D
- FastMarker F3100D
- FastMarker F5100D

INTRODUCTION

The desktop laser marker FastMarker F-D is desktop model series, has been designed for the high-quality laser marking of small parts, medium sized components and work pieces and batches. This series is ideally suited for laser marking auto parts, electronic components, medical products, instrument, tools, metal and plastic components and general industrial products and components. The FastMarker F-D series processes small metallic and plastic components but also batches both economically and in high marking quality.

The FastMarker F-D series also is ideally suited for manufacturers with low volume requirements or where space constraints demand an efficient solution. Optional for different marking area and laser power, meet different process requirements. The machine can also be cart mounted for mobility throughout a user's facility.

- ### DESIGN

Independent patent design industrial desktop workstation with automatic Z axis for a flexible and movable use.

- ### RELIABILITY

Using built-in DSP chip set, equipped with industrial embedded operating system, running MacMark laser marking software, while ensuring superior performance, the equipment is more stable and reliable!

- ### FLEXIBILITY

Small and compact, with automatic Z axis and 3 sides door free space, marking of a large variety of parts from small to big parts, from simple to complex shapes.

- ### SAFETY

Fully equipped Germany Siemens electrical system, machine complies with EU safety regulations (performance level D)

- ### PERFORMANCE

Equipped with high quality fiber lasers with strong beam quality and high efficiency galvo head with dual red light positioning system, fast focus and precise positioning, improve accuracy and speed at work.

- ### ERGONOMICS

Wide and easily opening door for comfortable loading components, small space occupation, air-cooled laser source, height adjustable work-table and rotary clamps.

TECHNICAL SPECIFICATION

WORKSTATION

Work Space
15.7 × 7.8 in | 400 × 200 mm

Max. Work Piece Weight
up to 55 lbs | 25 kg

Max. Work Piece Size
15.7 × 7.8 × 13.7 in | 400 × 200 × 350 mm (L × W × H)

USER INTERFACES

· Laser marking software **MacMark** (on separate, internal)

· USB interface

· Operation via a monitor with keyboard and mouse / touch screen monitor

AXES PROGRAMMABLE Z-AXIS

Travel
9.4 in | 240 mm

Travel Speed
up to 0.13 in / s |3.3 mm / s

SCOPE OF DELIVERY

Integrated Z-axis

Configurable laser system

Laser marking software MacMark

SUPPLY (DEPENDS ON WORK SPACE AND LASER SYSTEM)

Power Consumption
Depends on integrated laser system above listed fiber lasers: 400 VAC

Electrical Requirements
L / N / PE 100 – 240 VAC, 50 / 60 Hz

Temperature
50 – 104 ˚F | 10 – 40 ˚C

Humidity
5 – 85 %, non-condensing

DIMENSIONS

Footprint
697.5 in | 0.217 m²

(L × W × H)
18.11 in ×27.36 in× 26.77 in | 460mm × 695mm × 680mm

IP Rating
Housing IP43, Supply unit IP21

Laser Class
Laser class 1 (according to DIN EN 60825-1)

LIFTING DOOR

Manual opening

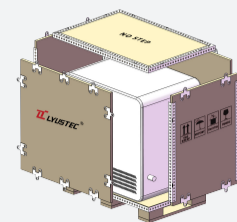Max. doorway 9.05 in (230 mm)

OPTIONS / ACCESSORIES

Mini rotary device

Cutting plate

Exhaust systems

Accuracy package

	FASTMARKER F2100D	FASTMARKER F3100D	FASTMARKER F5100D
Laser Type	Fiber		
Laser Power	20W	30W	50W
Wavelength	1064nm		
Dimensions (L × W × H)	460 mm (18.11 in) × 695 mm (27.36 in) × 680 mm (26.77 in)		
Frequency	Up to 10-80 Khz		
Marking Speed	Up to 10000 mm / s (393,7 in / s)		
Z Axis Type	Motorized		
Operating Temperature	10-40 ˚C		
Marking Area - Available Lenses	F100: 70 mm (2.75 in) ×70 mm (2.75 in) Optional: F160: 110 mm (4.33 in) × 110 mm (4.33 in) F254: 175 mm (6.89 in) × 175 mm (6.89 in)		
Z Axis Travel	238mm (9.37 in)		
Door Type	Manual		
Communication Interfaces	4 x USB; Terminal Block 2I / 3O; (Standard) Laser Safety Dedicated I / O; RS232; Ethernet TCP / IP		
Laser Safety Classification	Class 1 Door Closed / Class 2M Door Open (Aiming Diode)		
Power Consumption Rate	< 800W		
Machine Net Weight	70Kg (154.323 lbs)		
Software	MacMark		
Rated Voltage	100 - 240 VAC, 50/60 Hz		

PN-9357

Automotive Industry

Jewelry Industrial

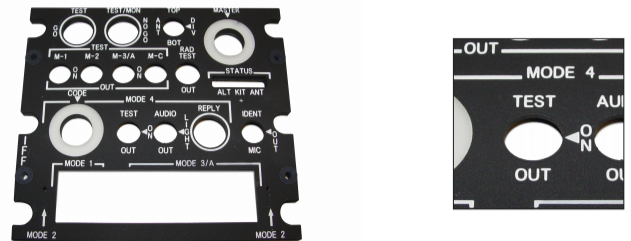## Metal & Plastics Nameplate Industry

Medical Technology

Marking Tools

Aerospace Industry

LYUSTEC LASER

Specializing in developing, manufacturing and selling of industrial laser equipment system and customized automation devices. At present, it has developed into a global laser intelligent equipment service provider integrating automation solutions.

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