

# MT-RF WORKSTATIONS CO2 LASER MARKER



- MT-RF10 WORKSTATION
- MT-RF30 WORKSTATION
- MT-RF60 WORKSTATION



## INTRODUCTION

MT-RF workstations also has high stability and anti-intervention industrial computer system as well as high precise lifting platform. It can work on a continuous 24 working hours in high stability, high precision, and high speed. Unlike conventional marking methods like inkjet or label, the integrated laser marker can operate without contact and has low maintenance.

The MT-RF workstations adopts the industrial standardization module design. This series are fitted with full set of imported metal sealed radiation frequency Co2 laser, and equipped with high speed scanning galvanometer and extending focusing system.

Offering tailored solutions to perfectly match dedicated laser marking applications and machine setups. Providing precision marking and operational simplicity in a compact and easy-to-use platform. MT-RF laser marking systems always include a motorized z-axis for easy focusing as well as a range of optional motion axes and laser types.

### • INDUSTRIAL DESIGN

Independent design patent industrial-grade workstation with motorized Z axis and safety cover. Suitable for harsh environments where dust and humidity are a challenge and where the system is regularly washed down

### • RELIABILITY

Air- cooled laser virtually eliminates maintenance; High-resolution marking head for high quality, permanent and consistently crisp codes that assure product traceability and tamper-proofing.

### • MULTI MARKING POSSIBILITIES

Mostly marking on nonmetal material, such as organic materials: paper, cardboard, wood, leather, and engraving on transparent plastics. As well as on electrical industry, plastic processing and fruits and vegetables industry.

### • VIRTUALLY NO CONSUMABLES

CO2 lasers significantly reduce the processing cost save exchange consumable time, improve efficiency.

### • LESS MAINTENANCE

CO2 lasers are virtually maintenance-free, leading to enhanced ease of operation.

### • SAFETY

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

**TECHNICAL SPECIFICATION****WORKSTATION****Work Space**

19.18 × 17.25 in | 488 × 439 mm

**Max. Work Piece Weight**

up to 55 lbs | 25 kg

**Max. Work Piece Size**

19.18 × 17.25 × 11.28 in | 488 × 439 × 287 mm (W × D × 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**

12.77 in | 325 mm

**Travel Speed**

up to 0.24 in/s | 6 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

**Electrical Requirements**

L/N/PE 100–240 VAC, 50 / 60 Hz

**Temperature**

41 – 95 °F | 5 – 35 °C

**Humidity**

10 – 90 %, non-condensing

**DIMENSIONS****Footprint**

1395.00 in<sup>2</sup> | 0.90 m<sup>2</sup>

**Weight**

Marking unit (laser) approx. 55.12 lbs (25 kg)

**(W × D × H)**

35.21 in × 26.53 in × 58.67 in |  
896 mm × 675 mm × 1493 mm

**IP Rating**

Housing IP43, Supply unit IP21

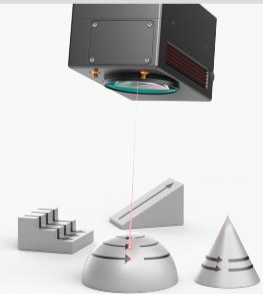
**Laser Class**

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

**LIFTING DOOR**

Manual opening

Max. doorway 16.11 in (410 mm)

**OPTIONS / ACCESSORIES**

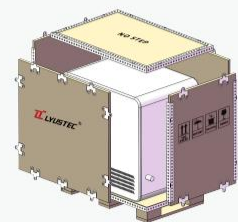
3D Laser System



Mobile worktable



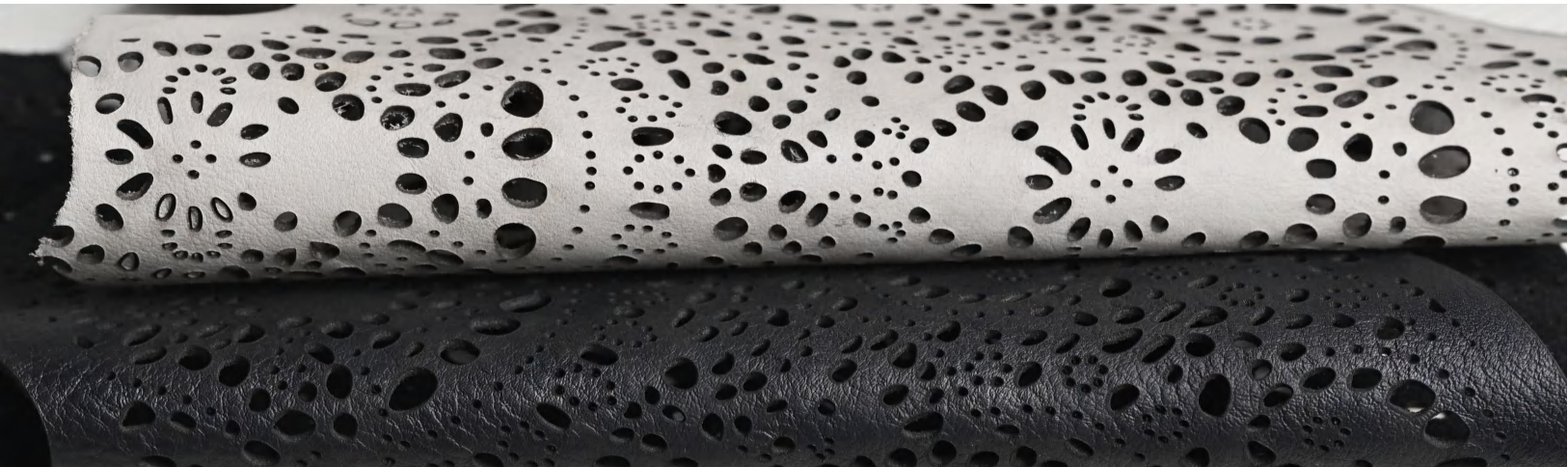
Fume Exhaust



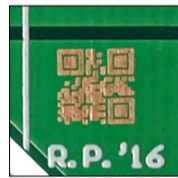
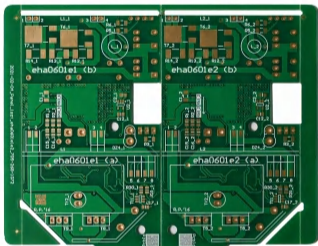
Accuracy package

	<b>MT-RF10 WORKSTATION</b>	<b>MT-RF30 WORKSTATION</b>	<b>MT-RF60 WORKSTATION</b>
Laser Type	CO2		
Laser Power	10W	30W	60W
Wavelength	10640nm		
Dimensions (L x W x H)	650 mm (25.590 in) × 700 mm (27.559 in) × 1450 mm (57.086 in)		
Frequency	Up to 10-80 Khz		
Marking Speed	Up to 10000 mm / s (393,7 in / s)		
Z Axis Type	Motorized & Programmable		
Operating Temperature	10 - 40 °C		
Marking Area - Available Lenses	F160: 110mm (4.33 in) × 110mm (4.33 in) Optional: F100: 70mm (2.56 in) × 70mm (2.56 in) F254: 175mm (6.89 in) × 175mm (6.89 in) F330: 200mm(7.87 in) × 200mm(7.87 in) F420: 300mm(11.81 in) × 300mm(11.81in)		
Z Axis Travel	325mm (12.795 in)		
Door Type	Manual / Motorized (optional)		
Communication Interfaces	4×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	100Kg (220.462 lbs)		
Software	MacMark		
Humidity Level	10 - 85%		
Electrical Requirements	L/N/PE 100 – 240 VAC, 50/60 Hz		





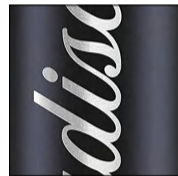
Electronics Manufacturing



Plastics processing industries



Powder coated water bottle



Wood making



Jeans cloth marking





Fruits & vegetables marking



**MACTRON 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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