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 metheds 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 comsumable time, imprave 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 in² | 0.90 m²

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

(W × D × H)
35.21in×26.53in×58.67in | 896mm×675mm×1493mm

IP Rating
Housing IP43, Supply unit IP21

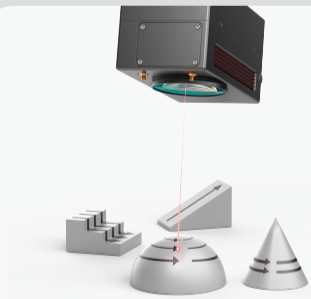
Laser Class
Laser class 1 (according to DIN EN 60825-1)

LIFTING DOOR

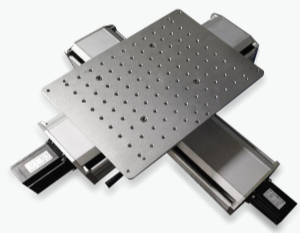
Manual opening

Max. doorway 16.11 in (410 mm)

OPTIONS / ACCESSORIES

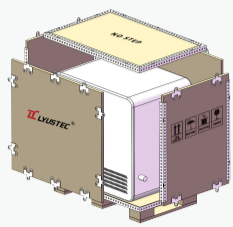


3D Laser System



Mobile worktable

Fume Exhaust

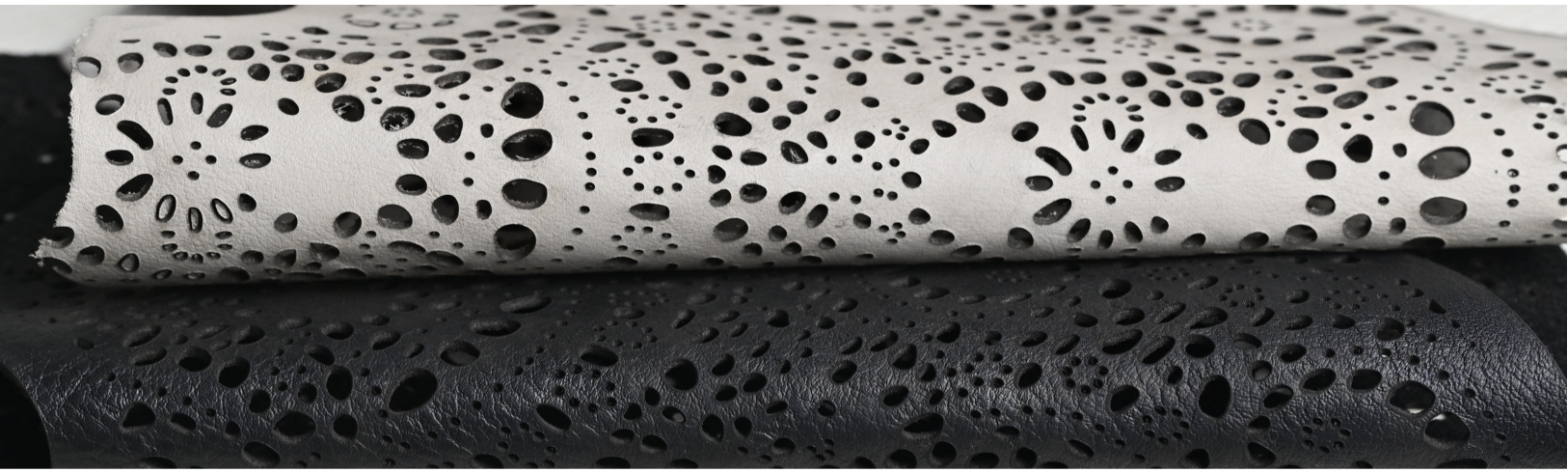


Accuracy package

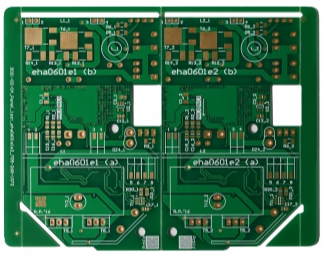
	MT-RF10 WORKSTATION	MT-RF30 WORKSTATION	MT-RF60 WORKSTATION
Laser Type	CO2		
Laser Power	10W	30W	60W
Wavelength	10640nm		
Dimensions (L x W x H)	650 mm (25.590 in) × 700 mm (27.559 in) × 1450 mm (57.086 in)		
Frequency	Up to 10-80 Khz		
Marking Speed	Up to 10000 mm / s (393,7 in / s)		
Z Axis Type	Motorized & 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		

MACTRON®

MT-RF WORKSTATIONS



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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