

MT-UV WORKSTATIONS

UV LASER MARKER



- MT-UV3 WORKSTATION
- MT-UV5 WORKSTATION
- MT-UV10 WORKSTATION
- MT-UV15 WORKSTATION



- **LESS IMPACT ON PRODUCT**

UV laser marking system only colors the surface instead of foaming the material, Therefore it is possible to mark even highly sensitive and previously unmarkable material with UV laser marker.

- **PRECISION**

Excellent Beam Quality of $<1.2M^2$. Industrial grade rigid machine, ultra-fine laser beam with high-quality optical lens, to ensure the high precision of laser processing.

- **PERFORMANCE**

Safety and integrity for sensitive and critical materials. Filigree, high-contrast markings.

- **RELIABLE**

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!

- **SAFETY**

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

■ INTRODUCTION

MT-UV workstations is specially designed for complex and cold laser marking of nonreactive materials at other wavelengths, it adopts 355nm ultraviolet laser source and has a small spot diameter, which can provide unparalleled micro marking quality and accuracy on various materials. MT-UV workstations has a small heat-affected area and can effectively avoid material damage. It is suitable for ultra-fine marking, engraving, and cutting of materials with a high thermal radiation response.

UV ultraviolet marking laser applies high-contrast markings even on sensitive products. As the vector scanning laser impacts the product's surface photo-chemically and with reduced peripheral heating, the heat effect of laser marking on substrates and materials can be kept to a minimum, which is ideally suited for the high-contrast laser marking of sensitive and delicate materials, such as glass, certain plastics (silicone, white polyamides) or ceramics. UV laser markers are used primarily in the automotive and aerospace sectors (cable marking) and in medical technology (catheters, insulin pumps).

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 – 85 %, non-condensing

DIMENSIONS**Footprint**

1395.00 in² | 0.90 m²

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

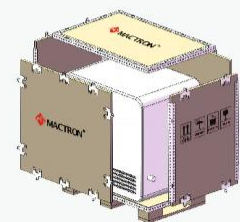
Roller rotatory device



Visual inspection solutions

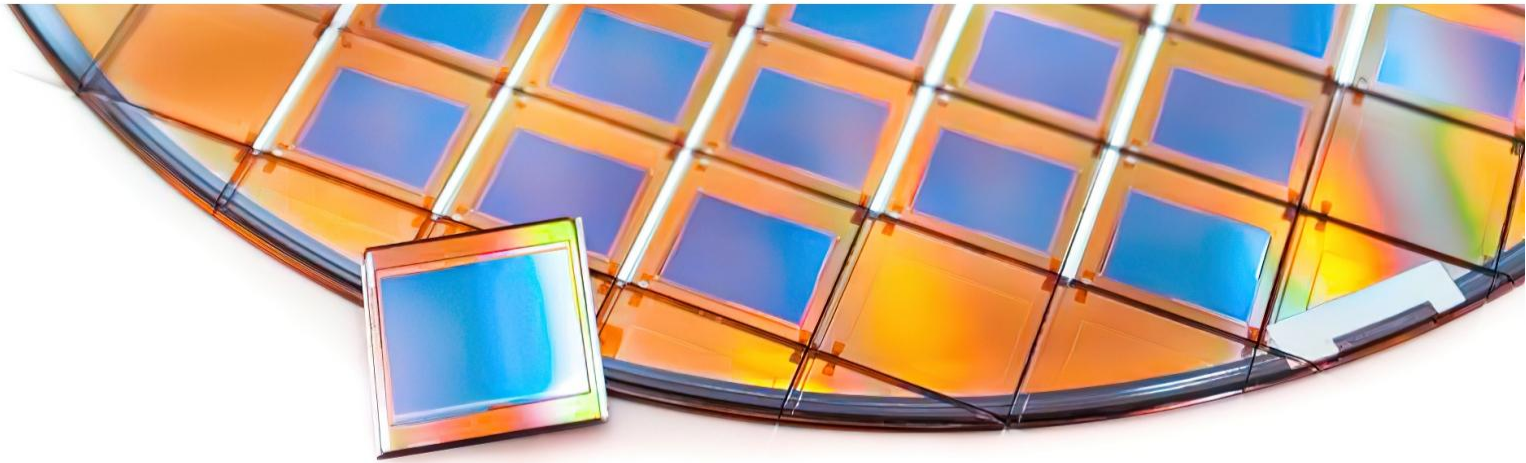


Fume Exhaust



Accuracy package

	MT-UV3 WORKSTATION	MT-UV5 WORKSTATION	MT-UV10 WORKSTATION	MT-UV15 WORKSTATION
Laser Type	UV			
Laser Power	3W	5W	10W	15W
Wavelength	355nm			
Energy (μJ)	100-800			
Dimensions (L x W x H)	650 mm (25.590 in) × 700 mm (27.559 in) × 1450 mm (57.086 in)			
Frequency	10-200Khz			
Minimum Line Width	≤ 0.002mm			
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: 110 mm (4.33 in) × 110 mm (4.33 in) Optional: F100: 70 mm (2.56 in) × 70 mm (2.56 in) F254: 175 mm (6.89 in) × 175 mm (6.89 in)			
Z Axis Travel	325mm (12.795 in)			
Door Type	Manual / Electric (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	1500W			
Machine Net Weight	100Kg (220.462 lbs)			
Software	MacMark			
Humidity Level	10 - 85%			
Electrical Requirements	L/N/PE 100 – 240 VAC, 50/60 Hz			



Automotive and Aerospace Industry



Consumer Electronics Industry



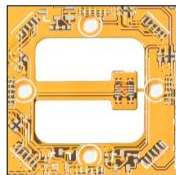
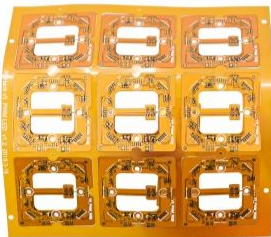
Glass Marking



Ceramic Marking



Rigid PCB and Flex Circuit Processing - Precision Cutting



Scientific and Biomedical Injector - Precision 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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