

MT-FP SERIES

FIBER LASER MARKER

MT-FP series fiber laser marker is especially outstanding in the aspect of portability. It is endowed with the features of small volume and easily marking on the surface of big volume and heavy objects. Fiber laser marking machine adopts advanced digital high speed scan galvanometer and module design, which can separate laser generator and lifter. This series has the advantages of low materials consumption, non-toxic, and pollution-free.



Easy to learn and operate.



Long lifetime, Absolutely produce long lasting results ever use over years.



Space saving but as well as industrial design. 52kgs portable model can put into any workshop or factory.

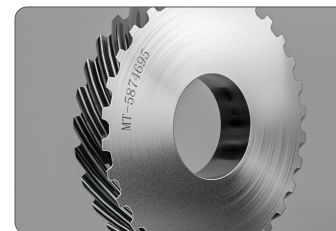


Easy to transport by Express according to the small package.



MODEL	MT-FP20	MT-FP30	MT-FP50	MT-FP60	MT-FP80	MT-FP100	MT-FP200
Laser Type	Q-Switched Pulse Fiber Laser / MOPA Pulse Fiber Laser						
Wavelength (nm)	1064						
Laser Power (W)	20	30	50	60	80	100	200
Pulse Energy (mJ)	0.66 / 0.8	1 / 0.8	1 / 1.25	1.5			1.5 or 5
Repetition Rate (kHz)	30-60 / 1-600 or 1-4000		50-100 / 1-600	1-4000			
Pulse Duration (ns)	120-150 / 200 or 2-350		120-150 / 200	2-500			
Beam Quality (M2)	<1.5 / 1.4	<1.6 / 1.5 or 1.4	<1.6 / 1.8	<1.4 or 1.5			
Output Power (%)	10 - 100						
Marking Specifications	■ Font formats: TTF, JSF, DMF, SHX fonts etc. ■ Vector formats: PLT, DST, AI, DXF, SVG, GBR, NC, CAD, CDR, DWG, BOT, etc. ■ Barcode formats: Code39, EAN, PDF417, DATAMATRIX, QR, 2D codes etc. ■ Bitmap formats: JPC, BMP, JPG, JPEG, PNG, etc.						
Speed	Up to 8000 mm/s (314.96 in/s)						
Minimum Line	0.01 mm (0.0004 in)						
Minimum Character	0.2 mm (0.008 in)						
Z axis type	Manual / Motorized & Programmable (optional)						
Software	MacMark / PC software EzCAD (on separate, external, optional Windows OS PC)						
Communication interfaces	USB; Terminal block I/O; (standard) Laser Safety Dedicated I/O; RS232; Ethernet TCP/IP (optional)						
Marking Area - Available lenses	■ Standard: F160: 100 mm (3.94 in) x 100 mm (3.94 in) ■ Optional: F100: 65 mm (2.56 in) x 65 mm (2.56 in), F254: 160 mm (6.29 in) x 160 mm (6.29 in) F330: 205 mm (8.07 in) x 205 mm (8.07 in), F450: 300 mm (11.8 in) x 300 mm (11.8 in)						
Cooling	Air-cooled, auto overheat protection						
Laser safety classification	Class 4						
Operating Temperature	10°C to 40°C (50F to 104F)						
Humidity	10%- 90%, non-condensing						
Electrical requirements	L/N/PE 100 - 240 VAC 50/60Hz (According to local electricity supply)						
Power consumption rate	400 W (800 W Max)			600 W (1000W Max)			1200W
Machine weight	52Kg (114.64 lbs)		57Kg (125.66 lbs)			63Kg (138.89 lbs)	82Kg (180.78 lbs)

This kind of machines can satisfy many marking applications, such as electronics, food and beverage, pharmaceutical, tobacco, packaging, building materials, lighting, cosmetics, kitchen & bathroom, jewellery, medical apparatus and instruments, auto spare parts and other industries.



Gear Marking
Metal Processing Industrial



LED Light Marking
Plastics Material



Metal with Powder Coated Marking



Gold / Silver Cutting
Jewelry Industrial



Ring Marking Surface Marking



Deep Engraving



Medical Tool Marking



Color Marking

B


Based on Model MT-FP(A), Z axis travel distance is 700mm (27.559 inch) suitable for high or big objects.

C


Based on Model MT-FP(A), featured on folding safety shield, designed to reduce optical density for the laser exposure to keep safe, also folds easily for storage when not in use.

D


Based on Model MT-FP(A), could install different rotary or cutting plate extra accessories to meet diversified objects need.

E

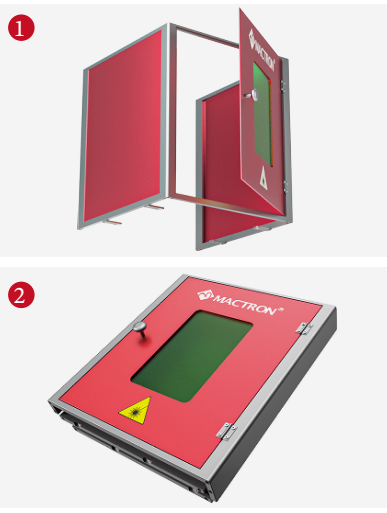

Based on Model MT-FP(A), equipped with both working table and handheld optical beam path, can be applied to both small material and big objects' surface, even to wall etc.

F


Based on Model MT-FP(A), upgraded standard model with electric motorized lift column, equipped with double red focus function, get the focus length more easily.



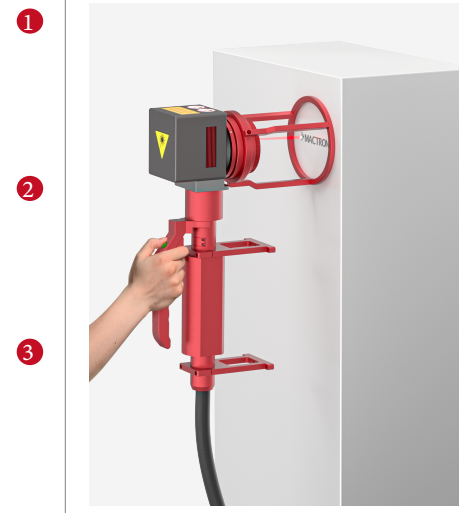
The highest marking objects : 610mm/24inch



1. Suitable for all models
2. Easy to disassemble



1. Cutting plate 2. Rotary roller
3. Ring marking rotary



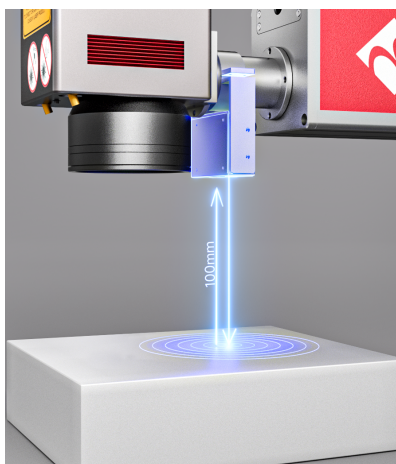
Hand-held to anywhere
Convenient to mark large objects



Electronic up & down

G

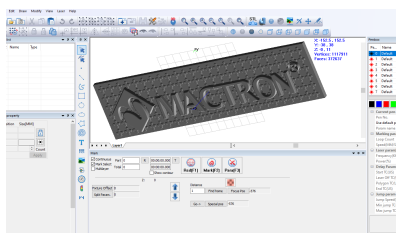

Based on Model MT-FP(F), it is with autofocus function. The object is automatically sensed by the sensor to achieve right focus length.



Automatic focus length

H

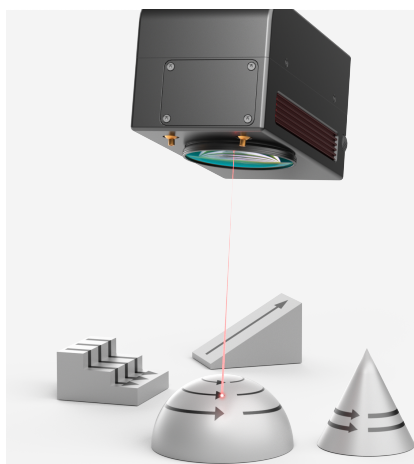

Based on Model MT-FP(F), updated to 2.5D system. With motorized lifting function, it allows for the illusion of depth with 3D graphics layers. Main function is to deep engraving and embossing engraving.



1. Deep engraving

I

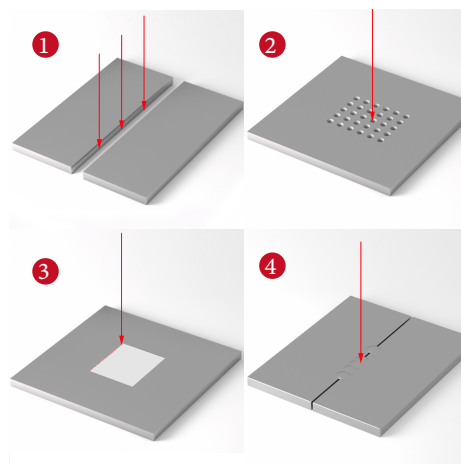

Based on Model MT-FP(A), updated to the 3-axis dynamic focus control system, and with powerful image processing software to achieve precision large-format laser engraving, deep engraving, relief engraving, odd-shaped surface engraving, etc.



Suitable for large-format marking, deep engraving, embossing, curved surface marking, and special-shaped surface marking

J


Based on Model MT-FP(A), featured max. 200w Q-pulsed laser source, With specific jigs, it can achieve deep marking, thin metal cutting and precision welding with fast speed.



1. Cutting 2. Punching 3. Peeling 4. Welding

LASER INTELLIGENT AUTOMATIC

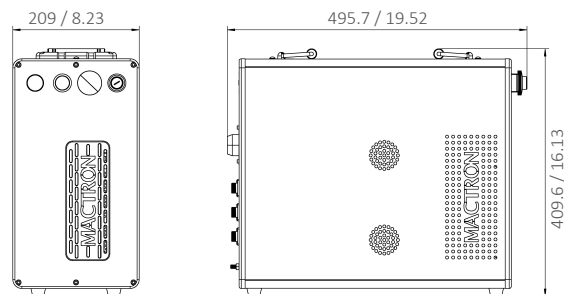
DONGGUAN MACTRON TECHNOLOGY CO.,LTD.

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.

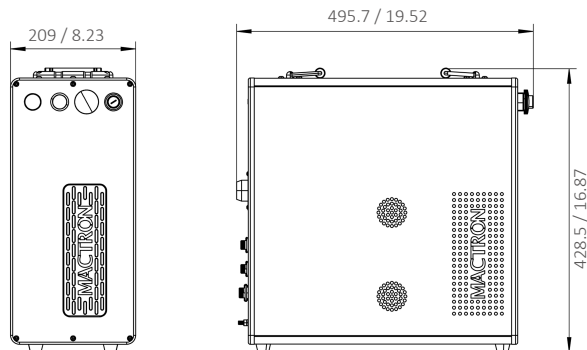
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SUPPLY UNIT DIMENSION

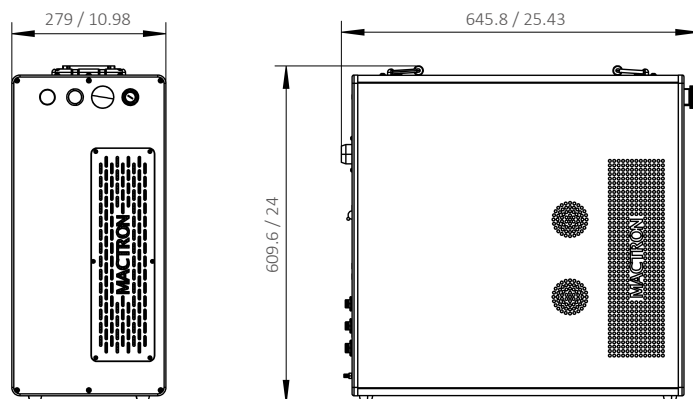
MC02



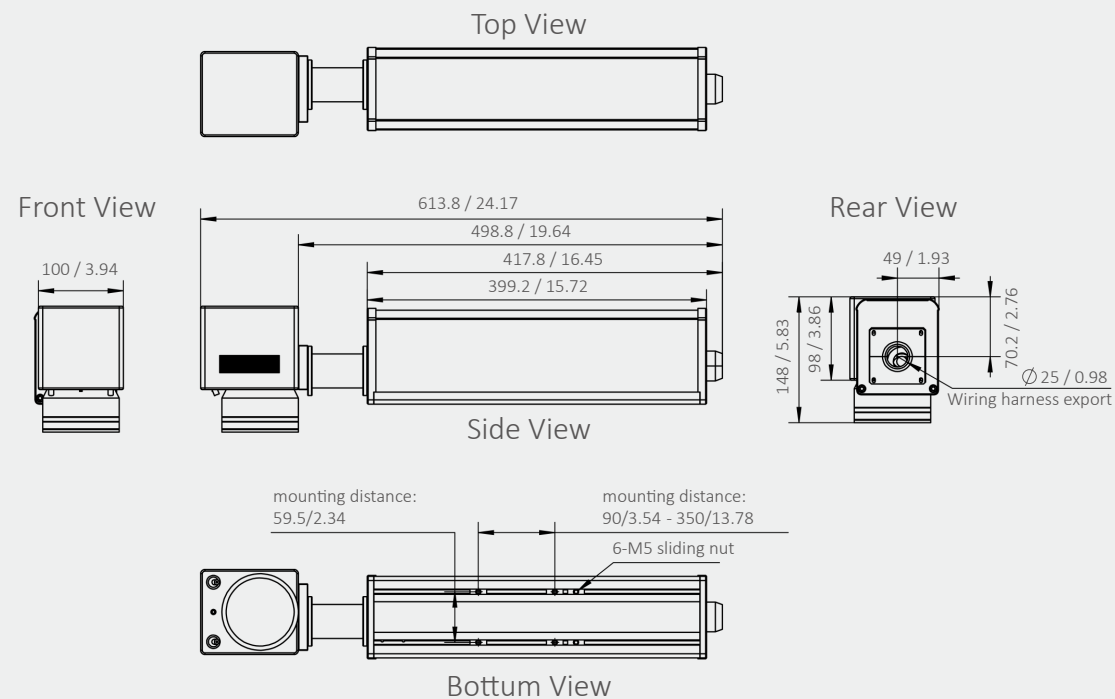
MC02 Pro



MC02 Max



MARKING UNIT DIMENSION



COLUMN DIMENSION

