

Precilaser

LASER MARKING MACHINES

- 2-D
- 3-D
- U.V.
- CO₂



Characteristic

- Excellent beam quality;
- Maintenance free, non-contact processing, high processing efficiency, computer control, easy to automate;
- Good stability, high pulse frequency, uniform engraving lines, fine patterns and strong engraving depth.

Applications

Markers are widely used in the integrated circuit chip, computer accessories, industrial bearings, watches, electronic and telecommunication products, aerospace devices, home appliances, hardware tools, moulds, wire and cable, food packaging, jewellery, tobacco and military applications in many areas such as graphics and text.



Single Head Fiber Laser Marking Machine



Double Head Fiber Laser Marking Machine



LED (8-position) Laser Marking Machine



Mould Fiber Laser Marking Machine



Portable Fiber Laser Marking Machines

Model	PL20	PL30	PL50
Laser Power	20W	30W	50W
Laser wavelength	1064nm		
Repeating Frequency	0-100KHz	20-200KHz	
Beam Quality	M<2		
Marking Range	100 x 100mm (Optional)	300 x 300mm (Optional)	
Marking Depth*	0.1mm to 2 mm	0.1mm to 3 mm	
Marking Speed	≤ 10000mm/s		
Min. line Width	0.01mm		
Min. Character	0.15mm		
Repeatability Accuracy	±0.002		
Power Consumption	≤ 800W	≤ 1500W	
Weight	≤ 100kg	≤ 120kg	
Power Supply	220V±10%, 50-60Hz		

* Depending on Material & Marking time

* W 30i & W 50i are also available.



Hand Held Fiber Laser Marking Machine

Characteristic

CO₂ radio frequency laser is a gas laser belonging to the middle infrared band. CO₂ laser has relatively large power and high electro-optic conversion rate. CO₂ and other auxiliary gas into the discharge pipe, when the high voltage on the electrode, the glow discharge is generated in the discharge tube, which can cause the gas molecules to release the discharge of laser energy beam expanding and focusing and the deflection of laser processing by scanning galvanometer.

Applications

CO₂ (Glass Tube) laser marking machine can engrave a variety of non-metallic materials ...

- Clothing accessories
- Building ceramics
- Pharmaceutical & Beverage packaging
- Electronic components
- Leather & Fabric cutting
- Rubber products
- Shell nameplate
- Craft gifts
- Leather and other industries

Model	PL-MCO2-W
Beam Quality / Source	M2 : <1.6 / Metal Tube
Laser wavelength	1064nm
Laser Power	30W (Optional)
Laser welding frequency	0 -500Hz / 1kHz-1000kHz
Engraving Speed	≤ 7000mm/s
Repeatable Accuracy	±0.0001mm
Min. Character	0.3mm
Min. Line Width	0.03mm
Marking Range	1300mm x 900mm / 900mm x 600mm (optional)
Weight	≤ 110kg
Power Supply	220VAC ± 10% / 50-60HZ



CO2 Metal Tube Laser Marking Machine

Applications

CO₂ (Metal Tube) laser marking machine can engrave a variety of non-metallic materials ...

- Leather Cutting
- Organic Glass
- Patch embroidery clothing
- Garment Accessories
- Wood
- Ceramic and Granite

Model	PL-GCO2-W
laser Type / Source	Co ² / Glass Tube
Laser wave length	1064nm
Laser Power	80W, 100W, 130W, 150W (Optional)
Engraving Area	1300mm x 900mm & 900mm x 600mm (Optional)
Engraving Speed	0-64000mm/min
Reset position Accuracy	±0.0001mm
Resolution Ratio	0.025mm
Min. Shaping Character	1mm x 1mm for letter
Minimum line width	<0.1mm
Dimensional	16000mm x 1100mm x 940mm
Weight	≤ 150kg
Power Supply	220VAC ± 10% / 50-60HZ



Co2 Glass Tube Laser Marking Machine

Applications

- Mould line etching
- Irregular surface marking
- Handicraft modeling embossment
- Different depth one-time marking processing.

Model	PL-3D YLP (30W - 100W)
Beam Quality	M2 : <1.5
Laser wavelength	1064nm
Output Power	30W power can be customized
Laser frequency	80-100kHz
Engraving Speed	≤ 15000mm/s
Min. Character	0.15mm
Repeatability	± 0.001mm
Min. Line Width	0.03mm
Weight	≤ 140kg
Power Supply	220VAC ± 10% / 50-60HZ



Characteristic

UV laser commonly generates 1064nm wavelength. A harmonic generator converts them to ultra violet wave lengths. Main feature of the UV laser is precise temperature control. Ultra violet is a colder beam compared to other beams like fiber. Hence it reduces the overheating while processing giving better results. It's absorption ratio on material is higher even at lesser power.

Applications

- Mainly used for fine processing of the high-end market the surface of :
 - Packing bottle of cosmetics
 - Medicines
 - Scribing silicon wafer
 - Food Packing and other polymer material marking
 - Flexible PCB plate marking
 - Microporous LCD liquid crystal glass
 - Blind hole processing
 - Two-dimensional code marking
 - Glass marking
 - Metal surface coating removal
 - Plastic buttons
 - Electronic components communication equipment. etc.

Model	PL3W-UV	PL5W-UV	PL7W-UV	PL10W-UV
Beam Quality	<1.1			
Laser wavelength	355nm			
Laser Power	3W	5W	7W	10W
Min. Character	0.3mm			
Min. Line Width	≤ 0.01mm			
Marking Speed	600-1000 Characters/sec			
Marking Range	100mm x 100mm / 200mm x 200mm (optional)			
Dimensional	1020mm x 760mm x 1480mm			
Repeatability Accuracy	± 0.001mm			
Cooling	Built-in cooling + Chiller			
Weight	≤ 140kg			
Power Supply	220VAC ± 10% / 50-60HZ			



Laser Equipment Accessories



Scan Head



Rotary Table



Rotary Table



Two Dimension Work Table



Chiller



Z-axis Microscope



Foot Pedal



Rotary Device



Conveyor



Safety Glass



LMC Card



Robot



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