

3D LASER ENGRAVING MACHINE



3D GALVO

light Beam Path

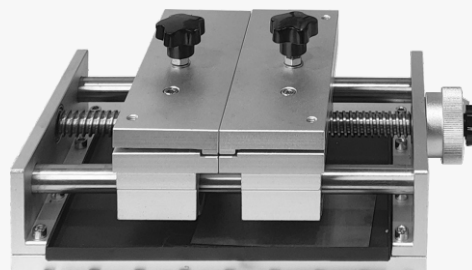
Screen

Rotation

Mouse & Keyboard

Product Description

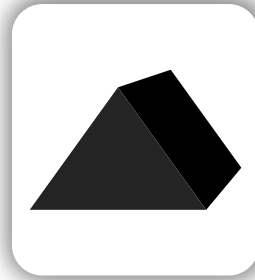
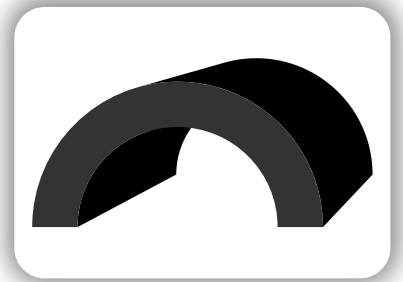
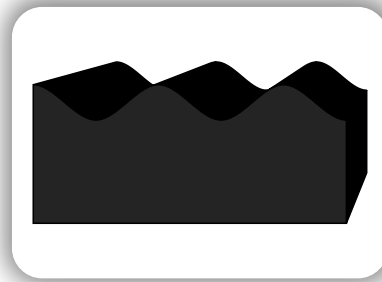
3D laser marking machine is an advanced device that uses laser beam to mark the surface of three-dimensional objects with high precision. Unlike traditional 2D laser marking machines (which can only work on flat or slightly curved surfaces), 3D laser marking machines can achieve clear and uniform marking on complex curved and uneven workpiece surfaces by dynamically adjusting the focal length and laser path. 3D dynamic focusing system, High-precision galvanometer system, 3D modeling and path planning, Various laser types.



3D GALVO



Applicable to special shapes



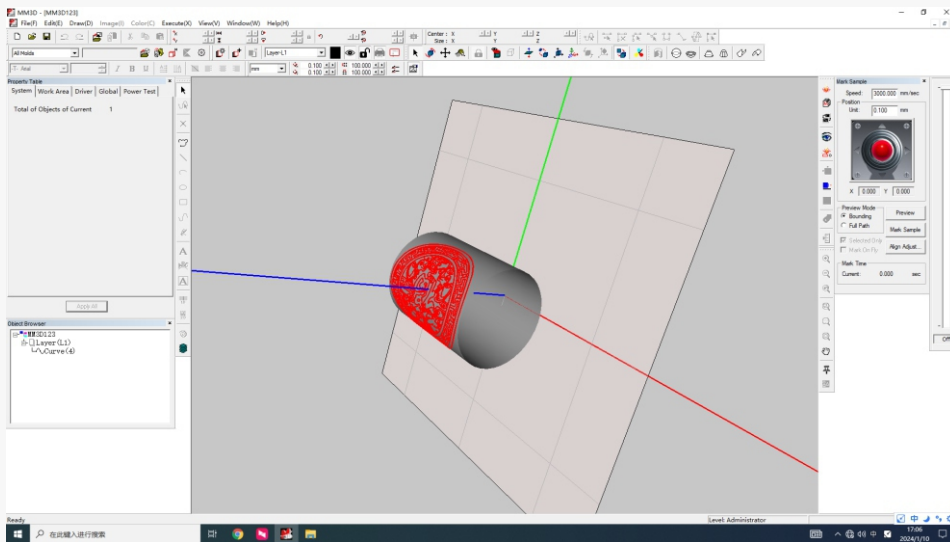
Laser Galvo Parameter

Printing Field (Adjustable)	200*200mm~300*300mm
Input Beam Size	6mm~7.5mm
X&Y Axes Mirrors Aperture Size	10mm
Marking Speed	6000mm/s
Positioning Speed	12000mm/s
Writing Speed	600cps
Step Response Time(1% of full scale)	210us
Step Response Time(10% of full scale)	710us
Tracking Error Time	≤138us
Linearity	99.9%
Repeatability(RMS)	<8uRad
Gain Error	<5mRad
Zero Offset	<5mRad
Long-term Drift Over 8 Hours	<0.5mRad
Scale Drift	<40PPM/°C
Zero Drift	<15uRad/C
Input Voltage	+24VDC
Rated Current	4A
Interface Signal	XY2-100
Machinery Scan Angle	+12.5°
Working Temperature	0°C~45°C

Machine Parameter

Laser Source Model	Fiber Laser/CO2/UV Laser
Power	Optional
Working Area	200x200/300x300/400x400mm(Customized)
Galvanometer Brand	SinoGalvoFL-3D-7210
Software	MM3D
Power Supply	110V 60Hz/220V 50Hz

Application Scenario



Samples

