3D Large Format Laser Marking Machine

SUNNA 3D Large Format Laser Marking Machine special software and scanning galvanometer and Laser perfect combination of control; Separate structure design, suitable for integrated production line or other automation equipment integrated use; Can be statically placed on the desktop for use, external computer control or IO signal interface control.

1. Product Introduction

SUNNA 3D Large Format Laser Marking Machine-- Three-axis control of ultra-high power output of the same type of Laser. Widely used at present is mainly automobile motorcycle parts, metal, alloy and oxide, sanitary ware, clothing accessories, aerospace, and other industries, they generally use laser marking machine directly on related products such as company name and trademark, product specifications, divisions, such as serial numbers, anti-counterfeiting code of Chinese characters, graphics, Numbers, and letters.

3D Large Format Laser Marking Machine three-axis dynamic system offers a larger working range and automatically marks the different height surfaces of workpieces at a time.By importing pre-designed 3D models and setting certain necessary parameters precisely controlled 3D engraving can be realized.

2. Product Parameter (Specification)

Model	SN-F
Marking Area	400*400mm/500*500mm/600*600mm optional
Laser Power	20W/30W/50W/100W optional
Worktable	Fixed high quality aluminum worktable
Wave Length	1064nm
Fiber Cable Length	3M

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Repetition Frequency Range	1KHZ~600KHZ
M2	＜1.8
Max.Single Pulse Energy	1.25MJ
Output Power Stability	＜5%
Output Beam Diameter	±0.5mm
Power Range	0-100%
Laser Frequency	10~600KHz
Laser Module Life	>100,000 hours
Engraving Depth	Adjustable according to materials
Marking Format	Graphics, text, bar codes, QRcode, automatically date, batch number, serial number, etc.
Graphic format supported	Ai, plt, ;dxf, dst, svg, nc, bmp, jpg, jpeg, gif, tga, png, tiff, tif
Computer System	WINDOWS XP/Win7/8/10 32/64bits
Minimum Character	0.15mm
Minimum Linear Width	0.01mm
Cooling way	Air Cooling
Maxi Marking Speed	15-20m/min
Data Transfer:	USB2.0 transmission
Control System	PowerMark
Compatible Software	CorelDraw, AutoCAD,Adobe Illustrator,Cadian
Total Power	500W
Power Supply	220V±10% 50HZ or 110V±10% 60HZ
Package Weight/dimension	70KG/90*77*48cm

Option Accessories	Rotary/F-theta scan lens/Laser protection glasses/Smoke purify system

3. Product Feature and Application

3D Large Format Laser Marking Machine Galvo scanner has compact design, high positioning accuracy, higher marking speed, and strong anti-interference ability. In the process of dynamic marking,the marking line has high precision, distortion free, power uniform, pattern without distortion,the overall performance has reached the international leading level in the field.

1--The world's smallest Dynamic Focusing Scanning System, the size is one third less than peers.

2-The advanced small focal spot design, the minimum focal spot is 50um

3-Accurate optical path design and fabrication, low energ y decrem ent for large scan field and curved surface processing.

4-High speed system, meets above 1500mm/s precision hatch speed.

5-Scan field up to 400x400mm, meet large scan field engraving requirements.

6-The m ax imum marking height up to 130mm, far exceed the industry height standard of 80mm.

7-The focal axis position is optimized for deep engraving, suitable for embossment, etc 3D applications.

8-Marking software with 3D operation interface, operate 3D upper and lower, right and left, front and back view, set base level, front and back switch, 3D coordinate axis simulating marking content, model frame function to help the operator place the workpiece and edit marking graphics.

9-Precisely control the focal length position of marking machine, automatically adjust Z-axis for 3D marking process, keep the spot size to minimum, ensure the uniform graphic effect after marking on the object.

10-Built-in concave and convex circular tube, concave and convex sphere, slope, cone, polygon, etc. basic models, the operator can easily and rapidly set the marking.

11-3D models can be imported, 2D graphics can be directly cladded or projected onto built-in curve surface.

12-The whole system adopted the optimization Designing of electromagnetic compatibility, with high signal-to-noise ratio and strong anti-interference ability

Application

Used to engrave metallic and non-metallic materials, for example, stainless steel decorating parts for handsets, clocks, watches, moulds, ICs, handset buttons, etc. The markers are able to engrave beautiful images on metallic and plastic surfaces.

FAQ

Q1: What's materials can be marked with fiber laser marking machine?
A1: Laser etching and engraving on stainless steel, aluminum, gold, silver, titanium, bronze, platinum or copper and other metals.
Laser marking on plastics:PVC ABS, polycarbonate, polyamide, PMMA..

Q2: Payment Terms of Handheld Fiber Laser Marking Machine
A2: 30% T/T paid as deposit, the balance paid before shipment,L/C,Western Union,credit Card,Paypal.

Q3: Does the machine is shipped all fixed?Or do I have to assemble it?
A3:All the parts are assembled well ,you just need to connect the power cable when you get it

Q4: What about warranty for both?
A4:Control system is yours , we can solve problem if you have any questions warranty(24 month warranty) is whole lifetime when you use it.

SUNNA focuses on the Laser Machine, CNC Router machine's research and development-design-program customization-sales-service, to provide you with efficient and
convenient solutions.
If you have the same ideal and pursuit, welcome to join us!