

3D LASER ENGRAVING AND LASER TEXTURING MACHINE

Specialise Products Private Limited is an Indian Original Design Manufacturer (ODM), who Conceptualise, Design and Manufacture customized machines as per customer's requirement. Our Team has core competence in the field of Lasers, Quantum optics, Fiber optics, Spectroscopy, High energy physics, Opto electronics and customised solutions and applications.

We already Conceptualised, Designed and Manufactured Laser Assisted 3D Bio Printer (**Patent Applied**), 3D Direct printer (no need for Filament, directly input your materials in Power/Granules OR Semisolid form), Liquid (Drop on Demand) 3D Printer, Automatic Laser Exposure and Scanning System (ALES) to name a few. We are always eager to understand customer's pain points and provide customise solutions which are not available in the market.



Technical Specifications 3D LASER ENGRAVING AND LASER TEXTURING MACHINE Model SP2L-LEM/LTM – ROTARY -FL

Laser Type	Fiber Laser
Laser Power output	60W or better
Laser Band	60W High Power Q-Switched Fiber Laser or better
Wave Length	Wave Length 1060 nm - 1070 nm (Compliant with IEC60825-1:2014) or better
Working Precision	Working Precision ± 0.01 mm or better
Beam Quality M2	<1.6
Scan Head	3D Standard Head
Standard Marking Scope	Inbuilt Minimum 140x140mm (Customizable within the range of 300 mm x 300mm)
Marking Speed	Typo Error " 80000 mm/s) (marking quality will not be good at higher speed)
Marking Depth	Typo Error " 14 mm" (depth will depends upon material as well as multi pass but 14 mm is not possible)
Working table(stage)	Minimum 240X240MM
Z Dynamic Range	Minimum 30mm(adjustable) (Minimum 240mm Up Down Capacity)

Minimum Line Width	0.02 mm or less
Minimum Character	0.15 mm or less
Repeated Accuracy	± 0.002 mm or less
Overall Power Draw	≤ 650 W
Power Supply	220 V ± 10% 50 Hz AC 10A
Cooling Mode	Fume Extraction: Built-in Fume Extractor to prevent laser source contamination (Compliant with emissions standards)
Laser Module Life	Laser Module Life >1,00,000 hours Approx 7 to 8 Years
Software Graphics	Shall support AutoCAD, Corel Draw, Photoshop supports STL, PLT, PCX, DXF, BMP, DWG, SVG file formats
Applications	Series numbers, bar code, 2D code, marks, logo, 3D STL Die, Die Engraving
Safety Standards	Safety Standards Class I Enclosure (Compliant with IEC 60825-1:2014), Optical Curtain for Operator Safety (Compliant with IEC 60825-1:2014)
Materials Compatibility	machine shall be capable to engrave on tool steel such as P20, H13, EN31 and SS304.
3D ENGRAVING MACHINE SPECIAL FEATURES	
High Precision Capable of achieving intricate and precise engravings on hardened Die Steel.	
High Productivity Efficient marking process for increased productivity.	
Safety Measures Class I Enclosure with optical curtain for operator safety.	
Flexibility Flexible data management software for custom designs and patterns.	
Quality Assurance Ensures the highest quality marking with a focus on throughput.	
Dust Management Integrated Dust Collector with >90% dust collecting capacity (Compliant with emissions standards).	
Motorized Up and Down - Will Allow precise focusing on various heights of the work piece.	
High-Strength Metallic body	
Remote Based Up Down Fixture - For Fast Production (+ And – Fixture) will be provided	
Foot switch system (Fast operation system)	
User friendly lifetime free software with upgradability and software backup CD for controlling & operating the quoted machine	
Rotary Attachment suitable for the Machine for cylindrical engraving	
Warranty	3-year warranty for all parts except optics. Additional warranty can be provided on extra charges.
Installation	We will do the on-site Installation and Training
HSN Code	84433290