



**LASER TECH**  
SYSTEMS AND SOLUTIONS

SERVICE BEFORE SALES

## **QuickMark Series**

**3D Laser Marking Machine**

## COMPANY PROFILE:

**Laser Tech Systems and Solutions** was founded by Mr. Rajiv Kumar with a group of Technocrats in 2021, with the idea of creating a large umbrella organization to assist and serve the growing Indian Laser Industry and to help the market with its years of experience in the field of Lasers and its applications.

We represent many global manufactures, covering a wide range of solutions Laser Marking, Laser Welding, 2D Laser Cutting, 3D Laser Cutting, Laser Cladding, Laser Hardening. Our Laser Solutions can process a wide range of materials like Metal, Paper, Acrylic, Wood, Textile, Leather, Plastic and many more.

Our main aim is to serve our customers with cost effective and innovative solutions with our utmost know how of Applications and help them to fulfill their objectives.

Our aim is to provide the best solutions to all our customers with best systems and economical prices. We believe in **SERVICE BEFORE SALES**...We provide industrial solutions for Laser for Metals, non-metal laser cutting/engraving machines, Galvo based solutions, Laser Marking, Laser welding, 2D laser cutting, 3D laser cutting, Laser cladding etc.

### **LTSS Service and Support:**

**Laser Tech Systems and Solutions** supports installation, commissioning, and training for its customers. Dedicated Laser Systems available for in-house demonstration, applications and software training. Specialized engineers are available to provide online and telephonic support.

*We proudly say that because of our team's dedicated efforts and our motto "**SERVICE BEFORE SALES**" we have a chain of happy customers related to various industries using our Laser machines in India.*



From the Galaxies of opportunity **QuickMark series** bring the best configured/Engineered machine for the apt applications of Laser Marking.

### QuickMark Series - 3D Laser Marking Machine

The newly designed compact 2D laser marking machine series is designed to deliver the optimum productivity with highest level of accuracy and versatility. The area varies from 100mm x 100mm to 300mm x 300 mm It adopts the most advanced fiber laser and high-speed scanning galvanometer system in the world. Fiber laser marker uses air cooling. which reduces the power of marking.

It has an overall small size, excellent beam quality, high reliability, long service life and maintenance free. So, it can to be used in fields with high requirements for mark depth, smoothness and fineness.



**Note:** Machine photos are for reference Purpose only. The machine model & colour may vary as per the availability.

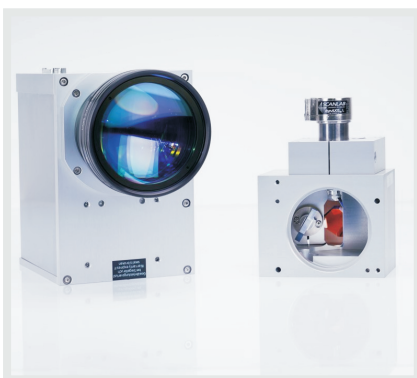
### INGENIOUS DESIGN - FULL SHEET METAL BODY

The machine is completely made from the metal sheet, with optional full cover. This gives aesthetic look along with the stability over the years.

#### **Durable :**

The laser module has a long service life (more than **100,000 hours**, while, the traditional lamp pump YAG has a service life of hundreds of hours and the semiconductor has a service life of **20,000 hours**).

### FEATURES & ADVANTAGES



**COMPACT HEAD**



**DURABLE**



**HIGH SPEED**

**LOW CONSUMPTION**

**ZERO MAINTENANCE**

**EZCAD ORIGINAL SOFTWARE**

## LASER MARKING SOLUTIONS

### QuickMark Series - 3D Laser Marking Machine

laser marker is to mark text and drawings directly one materials such as metals and plastics using fine spot laser. **QuickMark series** Laser Maker moves a spot laser beam to engrave, anneal, vaporize or remove a surface of material, resulting in a clear marking. No ink is needed.



## ADVANTAGES OF LASER MARKING

### • Enhanced Depth Perception

3D laser marking allows for marking on surfaces with varying depths and contours. This capability is particularly useful for marking on curved or irregularly shaped objects, providing enhanced depth perception compared to traditional 2D marking.

### • Versatility in Marking Complex Surfaces

The ability to adjust the focus of the laser beam in a 3D laser marking system allows for marking on intricate and three-dimensional surfaces. This versatility is valuable for applications where standard 2D marking may not be suitable.

### • Innovative Design Capabilities

The 3D capability allows for more intricate and creative design possibilities in laser marking. This is particularly advantageous in industries where aesthetic appeal and intricate marking patterns are essential.

### • Complex Geometric Marking

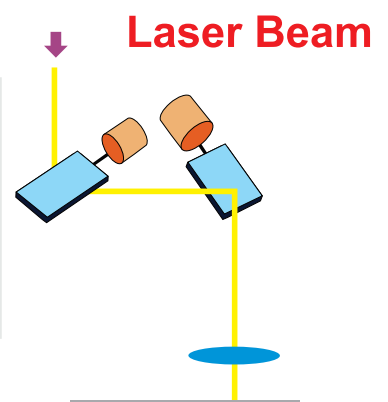
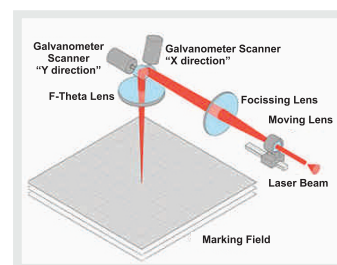
The 3D capability enables marking on objects with complex geometric shapes. This is especially useful in industries such as aerospace, automotive, and medical devices, where components often have intricate designs.

### • Precision and Accuracy

The precision and accuracy of 3D laser marking contribute to enhanced quality control. Manufacturers can achieve more reliable and consistent markings on products, reducing the risk of errors or defects.

### • Exceptional beam quality

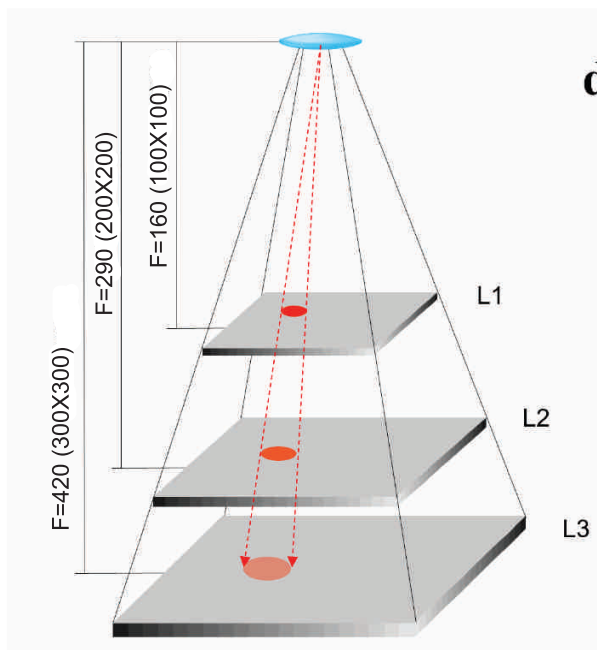
The beam quality is incredibly high and can do marking at a higher recurrence than traditional innovation and with small detailing by having a control on the parameters. By using laser marking machine customers can perform Scribing operations, Surface Annealing and Etching very easily.



## LASER MARKING VS CONVENTIONAL METHODS

Methods/Parameter	Laser Marking	Dot Pin	Chemical Etching	Ink Jet	Mechanical Stamp
Productivity	High	Poor	High	High	High
Quality / Durability	High	Low	High	Poor	High
Flexibility	High	Avg	Low	High	Low
Cost per part Variable	Low	High	High	Low	High

## WORKING AREA SELECTION



### Increasing :

1. Spot Diameter
2. Marking Speed
3. Marking area

### Decreasing :

1. Power density

Working Area Range – 100mmX100mm | 200mmX200mm | 300mmX300mm

Power Available : 20W | 30W | 50W

## SPECIFICATION

MODEL	F-20W	F 30W	F 50W
Output Power	<=20W	<=30W	<=50
Q Switch Frequency	20KHz-200KHz	20KHz-200KHz	20KHz-200KHz
Laser Beam Quality -M2	<1.2	<1.2	<1.5
Engraving Depth (subject to material)	<0.2mm	< 0.3mm	<0.5mm
Gross Power	500W	550W	600W
Voltage	AC 220V/110V 5A	AC 220V/110V 5A	AC 220V/110V 5A
Laser Wavelength	1064nm	1064nm	1064nm
Working Area	100mmX100mm	200mmX200mm	300mmX300mm
Repeatability	+/- 0.003		
Engraving Speed	6000-10000Ch/S		
Min Line Width	0.01 mm		
Marking Type Standard	Stationary		
Marking Type Optional	Stationary   ON FLY   ROTARY		
Cooling Method	AIR Cooled		
Cable length	3 Meter Standard		
Operating Temp	10-30 Deg		
Humidity	20% - 80%		

**OUR SYSTEMS** : Capabilities for laser engraving on metal have been utilized for diverse industries in the production of a wide variety of products such as:


**AEROSPACE**

**AUTOMOTIVE**

**DENTAL**

**GIFT & CUSTOMIZATION**

**JEWELLERY**

**ELECTRONICS**

**SOLAR INDUSTRY**

**LIGHT & ELECTRICAL INDUSTRY**

**Laser Tech** Systems and Solutions indulge into long time in laser industry and with our “KNOW HOW” experience the laser marking selection has become easier, the major challenge is always been right selection of machines.

#### OUR LASER ENGRAVING MACHINES FOR METAL CAN MARK ON SUCH SURFACES AS BELOW

Various grades of steel	Titanium	Brass	Nickel-plated materials
Stainless steel	Aluminium, Anodized Aluminium	Copper	Galvanized materials

#### PAINTED OR COATED MATERIALS

Surgical instruments	Firearms and accessories	Electronics	Cooking equipment
Construction tools	Cutting tools	Cutlery	Pipes, tubes, and valves
Drills	Automotive equipment	Kitchen appliances	HVAC systems

#### PLASTICS

ABS	Polyethylene	Glass Filled	Various Other Plastics
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#### PAINTED / COATED / ANODIZED

Anodized Aluminium	Painted Materials	Black Oxide	Various Other Coatings
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#### CARBIDE & SYNTHETICS

Carbide	PCD	Other Synthetic Materials
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#### PAINTED OR COATED MATERIALS



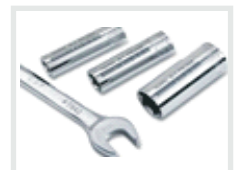
#### PAINTED / COATED / ANODIZED



#### PLASTICS



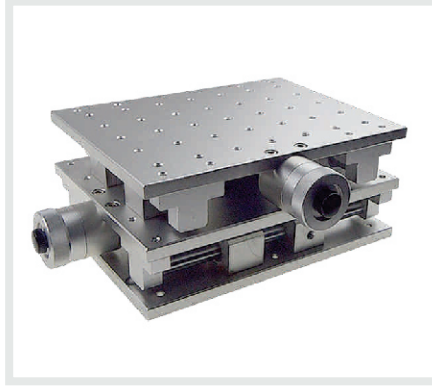
#### CARBIDE & SYNTHETICS



## OPTIONAL ACCESSORIES



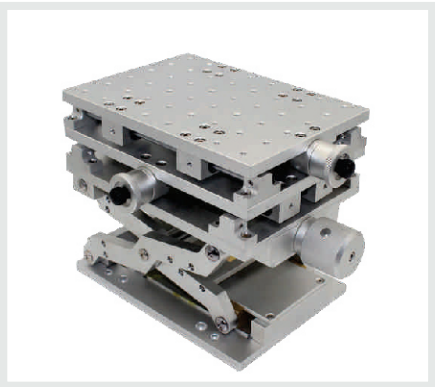
**Induction Table**



**2D Marking Moving Table**



**Metal Cutting Fixture**



**3D Marking Moving Table**



**Rotary-Attachment**



**Conveyor Table**



**Enclosure Systems**



**Industrial Fume Extractor**



**2D Electric Moving Table**

## 3D Laser Marking Samples



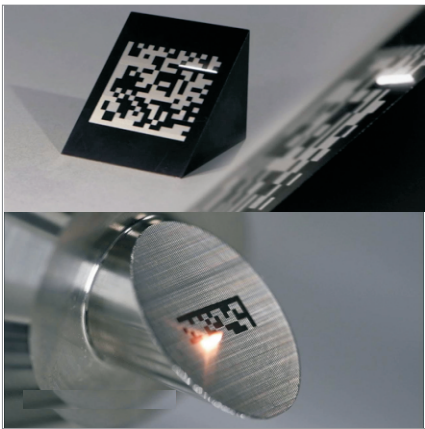
Stainless Steel



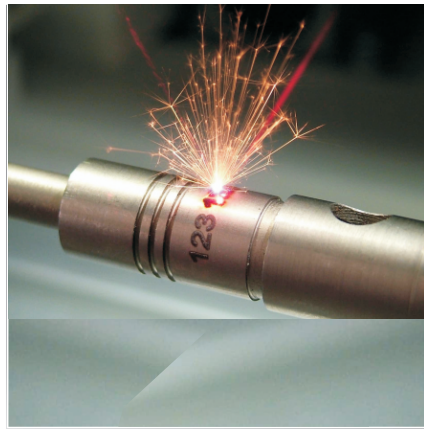
carbon steel



PVC



QR Cord Mark  
Aluminium & Stainless Steel



Brass



Plastic



Powder Coated



Aluminium



Aluminium

# **Laser Tech Systems and Solutions**

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