



LASER TECH
SYSTEMS AND SOLUTIONS

SERVICE BEFORE SALES

QuickMark Series

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.

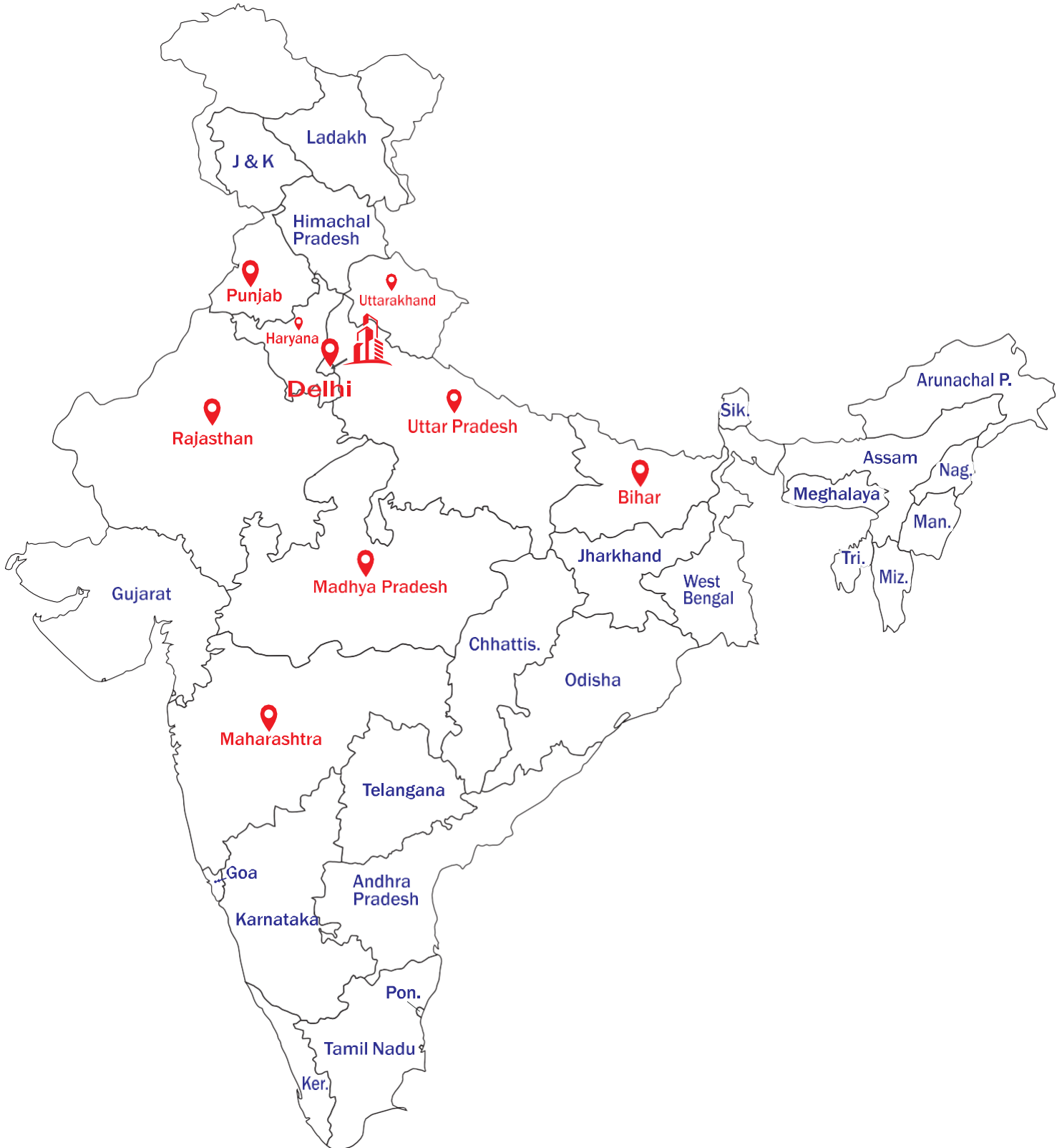
Our main aim is to serve our customers with cost effective and innovative solutions with our utmost know how of Applications and help them to fulfill their objectives.

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

FIBERLASER MARKERS - 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.

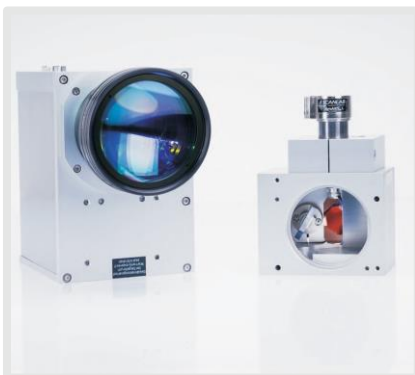
INGENIOUS DESIGN - FULL SHEET METAL BODY

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

FEATURES & ADVANTAGES

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**).



COMPACT HEAD

LOW CONSUMPTION



DURABLE

ZERO MAINTENANCE



HIGH SPEED

EZCAD ORIGINAL SOFTWARE

LASER MARKING SOLUTIONS

QuickMark Series

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

• 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.

• MARKING NOT ERASABLE

Lasers produce contrasting, high quality marks that never wear out unlike the ink-using method. This marking complies with quality control requirements in PL Laws and ISO International Standard. This is used for high level traceability.

• FINE MARKING

Lasers are capable of fine marking which inkjet marking can never perform. Laser marking is the best suitable choice for marking on microelectronic parts.

• EASY TO DESIGN AND CHANGE MARKING CONTENTS

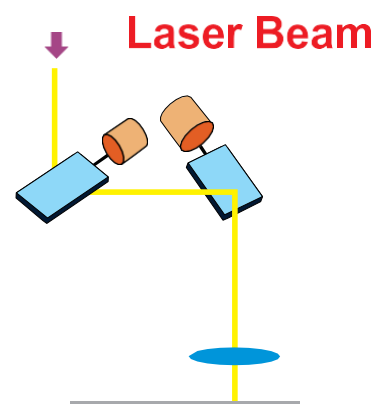
The marking software is easy to use, so can design marks easily and can switch to other marks easily at your PC. Laser markers are suitable even for a small-volume production of diversified products.

• PRODUCTIVITY-IMPROVING & LABOR-SAVING

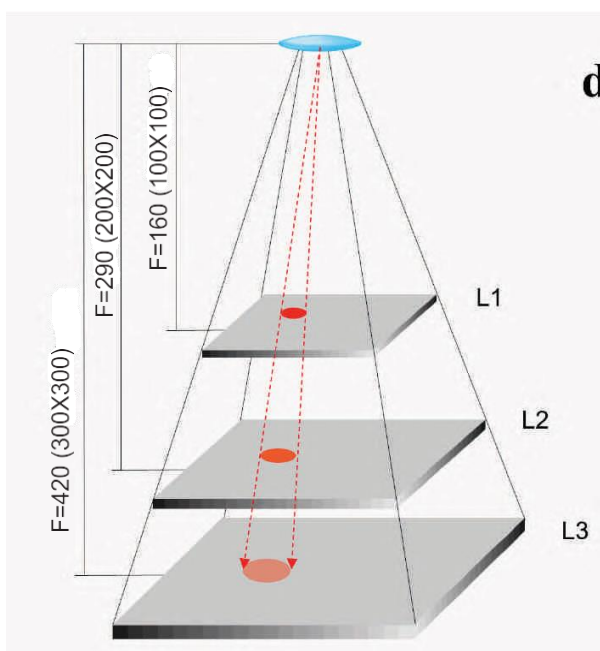
The high-speed marking contributes to improvement in productivity. Easy maintenance saves labor. Production line can be easily automated and operates unmanned even in the nighttime.

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



AVAILABLE MACHINE OPTIONS

Tabletop Fiber Laser Marking Machine:

This compact sized machine (aprox. 70*50*55 cm) is very useful where the space is less like small offices and it can be placed even on a small office table unlike normal Desktop Fiber laser marking machine which requires quite sufficient space to install the machine.



Handheld Laser Marking Machine

Fiber Portable Handheld Laser Marking Machine with a small size is very convenient to use. Laser marking machine can mark on any part of large machinery parts and components, it solves the difficulty of large components marking very well. A portable marking machine has lots of advantages: high-quality beam, high efficiency, long lifetime, maintenance-free, consumable free, Low power consumption, almost has no running cost.



Flying Laser Marking Machine:-

The flying online laser marking machine is specially designed for assembly line marking and used with assembly line workbenches to realize mass production, save labor costs, and improve work efficiency.





360 Degree Laser Marking Machine

360 degree Laser Marking Machine with 360 degree rotation and movable column on z axis makes marking very easy at any portion of the product irrespective of product size for laser marking.

Laser Hallmarking Machine

Laser Hallmarking machine is commonly used by Jewellers for doing hallmarks on various jewel metals like gold, silver, Platinum or Palladium. Hallmarks on different products ensure consumers about the purity and quality.



3D Fiber Laser Marking Machine

3D Fiber laser is used for uneven surface, curved surface and for the deep engraving objects.

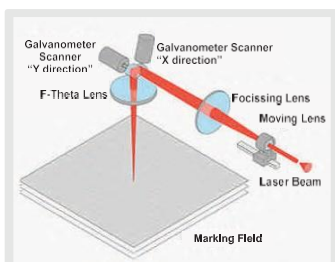
The modern galvo with dynamic beam expander helps laser beam to remain in focus during the odd shape marking and keep the beam spot diameter intact which ensures even marking on un-even surfaces. Our DBE (Dynamic beam expander) Technology works in higher range of focusing which ensures the bigger marking area with less power.

QuickMark 3D Laser Mark

AVAILABLE AREA – 110MMX110MM

AVAILABLE POWER – 20/30/50W

S/W – 3D PROFILE SOFTWARE EZCAD



QuickMark UV Laser

UV Laser Marking is an versatile & clean method to do surface marking, & the wavelength is suitable for most of the surfaces in metal & non-metal segment. The beauty of UV laser is small characters, online high speed marking & smooth marking on surface. The compact machine, is easy to integrate with line process & can mark with speed suitable for cable marking, bottle cap marking, marking on plastics & automotive panels.

Features of UV Laser :

1. High laser beam quality, tiny light spot, hyperfine marking, & the inimum character can up to 0.2mm.
2. 355nm outgoing wavelength reduces the thermal effect on the work piece; the heat affected zone will not bring about heat effect, material no deforming or burning.
3. Automatic lifting, auto focusing, and rotating functions are optional.
4. Faster, better efficiency, high-precision.
5. No consumable material needed, and the low use and maintenance cost.
6. Stable performance ensures long-time running.

Applicable Industry of UV Laser :

UV laser marking machine is mainly applied to internal or surface engraving on plastic, glass, crystal products, such as mobile phone screen, LED, optical device, auto glass, etc.. Also it is applied to the processing of most metal and non-metallic materials, Such as hardware, ceramic, glasses and clocks, PC, electronic components, etc..



TECHNICAL SPECIFICATIONS OF UV LASER:

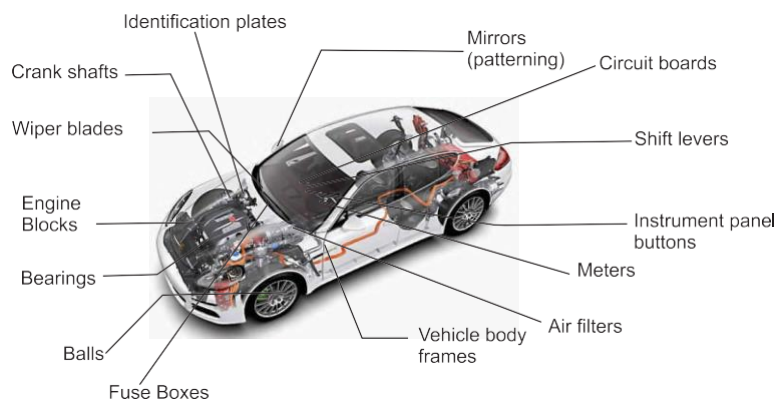
MODEL	QuickMark UV
Laser power	3w,5w,7w,10w
Laser repeating frequency	20HKz to 100HKz
Marking line speed	8000mm/s
The standard marking range	110mm*110mm
Minimum characters	0.1mm
Repeat accuracy	+/-0.003mm
Minimum line width	0.01mm
Laser module life	20,000 hours
Laser wavelength	355nm
Cooling	Water cooling
Focus lens	110*110mm

Laser Marking/Engraving have wide range of solutions from industry to day to day life, everywhere we see the importance of traceability, customization, bar coding, QR coding, Batch marking etc. few commonly industries using laser marking in mass are Automotive, Medial / Surgical instruments, Bath fitting and sanitary wear, gift and article industry.

AUTOMOTIVE APPLICATION – A BRIEF

THE KEY AREAS ARE :

Engine Assembly – Batch Marking / Deep Engraving Auto Parts – Traceability /Surface Marking / Bar coding Electronic Parts – UV / Fiber laser marked all indication Mirror Assembly – for product make, statutory warning labels.



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

Laser Marking Samples



MS Engraving



Plastic



Aluminium Engraving



Copper



Brass



0.2mm Aluminium Cut



Acrylic



PVC Pipe



Jewellery

Laser Marking Samples



Stainless Steel



Glass



Ceramic



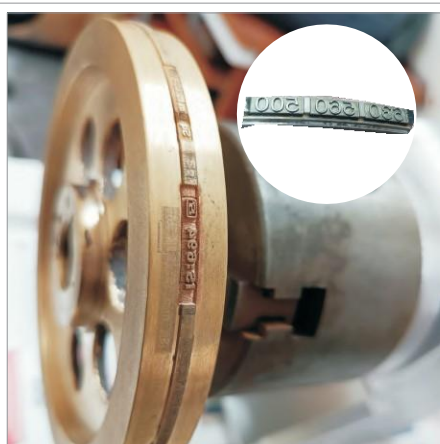
Galvanized Iron (GI)



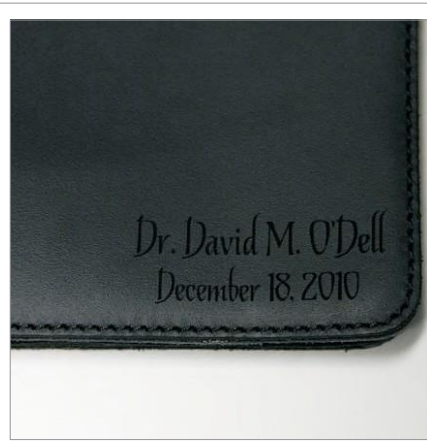
Stainless Steel



PVC



Die Embossing



Leather



Powder Coating

Laser Tech Systems and Solutions

SERVICE BEFORE SALES



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