



# FIBER LASER MARKING SYSTEM

- Marking
- Color Laser Marking
- Depth Laser Marking
- Solar Cell Cutting
- Scrabbing (Ceramics)
- Micro Machining



# Fiber Laser Marking System



SL – F Series is a complete compact Ytterbium Fiber Laser Marking System with class 1 enclosure for high speed, crisp, clear and consistent marking on nearly all metals and non metals, for flat or rotary surface. The system is integrated with pulsed fiber laser source using Master Oscillator Power Amplifier (MOPA) technology which is the most advanced and reliable laser source. this fiber laser has the highest wall plug efficiency, and virtually no maintenance.

## ADVANTAGES OF FIBER LASER MARKING

- Highest wall plug efficiency compared to other laser technology available
- Power up to 40 watt in CW and Pulsed
- High beam Quality (TEM00 mode M2=1.6)
- Diode life > 50,000 hrs
- High repetition rate
- Very stable and consistent repeatability
- Maintenance free operation with 1 year of unlimited usage warranty
- No water-cooling



**Compact Model**



## SYSTEM FEATURES

- SL F-series uses Yb fiber Laser technology integrated with a precision beam deflection unit for marking or micro machining on nearly all metals and nonmetals
- The system in compact, efficient and reliable providing the customer lowest cost of ownership
- The excellent beam quality and stability, integrated with a precision beam deflection unit, enables SL F-series to provide high resolution, fast and clear marking in variety of material, than other laser marking systems available in market
- The system includes auto focus Z axis system, Rotary Axis (optional), A PC and sophisticated easy to use laser marking / micro machining Software allowing to produce marks of various types of shapes, design, barcodes, micro machining to produce die, cutting thin sheets of SS, aluminum, copper and gold etc.
- SL F-series is available in 3 power 10/20/30 watt and work filed are from 2.5mm to 300 mm
- SL F-series consumes less than 400 watt of power to provide end user low operating cost than other systems
- SL F comes with a warranty of 2 years.
- SL F laser provides frequencies from 1 to 500 KHz enabling to mark faster and clear. The enclosure is made of Anodized aluminum structure for long life and light weight

# Applications

## Jewelry



Precision Jewellery let it be Gold, Silver, Platinum Brand them or Hall Mark them. Our special software for Jewellery will enable you to mark every individual Jewel wether you want 0.2mm or 1 mm character size Mark all. Curve or Stright, well you can also make SS jewellery with color marking on them.

## Electronics



SL F-series machine can mark up to 1 million components in 24 hrs achieving good contrast on your pigmented powder coated parts and Mark IC's microchip, capacitors, resistors, heat sink, crystal or any other component consistently 24 x7

## Tools



SL F-series marks nearly all types of tools or including carbide, HSS hardened and grinded tools with great quality. Even if you production volume is high or less easy to align software saves your time in shift to different batches in seconds.

## Fine Cutting



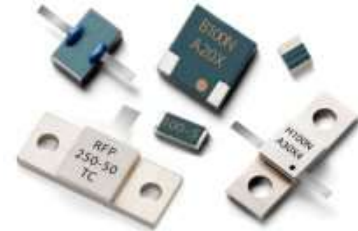
Cut up to 0.5mm 1 pass in aluminum or SS without any assist gas, with part accuracy of 10microns. You can cut more with multi pass.

## Automobile



SL F-series machines working in such high production industry for laser 2 years without virtually no maintenance.

## Ceramics



Zirconia, BASO4, Alumina or any other ceramic SL F will mark all with precision and consistent.

## Orthopedic



Precision surgical components requiring surface marking with or without depth. Let it be any shape and material, like Titanium, SS etc. SL F series marks nearly all.

## Deep Marking



Deep marking up 3 mm or more for grooving or engraving on Die or casting, SL F can provide 2D or 3D engraving on all precision dies.

## Commercial Goods



Mark anything line cigarette lighter, Pen, visiting card holder nearly anything you can imagine or whatever the customer need. SL F marking on all material from simple to color marking.

## Day & Night



Surface coating removal with extreme precision and with max transmission of light, possible with highest speeds supported by Laser providing highest frequencies of 500 khz application cover, car switches, mobile keypads etc.

## Rotary



Mark on circumference with 1 click. SL F software allows both dynamic and static mark with extreme incorporates Backlash free movement with gear reduction of 1,000:1 providing extreme precision marks.

## Electrical



Electrical components line switch gears tops, Electrical panels with very good contrast, The software allows automatic day, month, shift, change can be programmed, you can also barcode with very good readability and consistency.

# Automation

## Indexing



For maximum utilization of time this indexing mechanism will provide 2-8 part mounting station which can be rotated as required and mark. It's very use full for safe and consistent marking.

## Rotary Axis



For circular parts of gauges like micrometer integrated be incorporated with pneumatic chuck or 3 jaw manual chuck or collect for rotary axis can be operated dynamic and static marking mode. The Rotary axis has backlash free reduction gear box providing superior accuracy.

## Long 1 Axis Travel



For extra long parts namely scales or multiple components this belt drive slide us a cheaper solution with accuracy up to 0.1 mm, This slide can be also used as shuttle or as liner indexer for multiple part handling.

## Precision 1 Axis Travel



The same as long 1 Axis Travel but with Accuracy of 0.01 mm.

## XY Axis



XY axis automation can be used for marking components bigger than marking field area. The X,Y axis is driven by Micro stepping motor or AC Servo Motor and controlled by the marking software, accuracy of 0.01 mm can be achieved. These slides are made of precision ball screw assembly with liner guide.

# About Us

Established in the year 2007, as "Ajinkya Laser Impressions", and now renamed to "Sushree Laser Pvt. Ltd." are an illustrious firm engaged in Marking and Engraving machines in PAN India. We are capable of offering customised solutions of these marking machines as per the variegated needs and requirements of the clients.

These services are widely acknowledged in almost every industry like automobile parts, rotary making, tool & gauge manufacturing and many more. leads to innovation and upgrading the exacting technology.

In 2015 we started manufacturing of Fiber laser marking machine. First we made Desktop model which were very successful and accepted by our clients, on the same platform we made Portable model for the customer who running with the space in there workstations, followed by those we had taken step to customised Industrial Model, we make the machine according to customers requirements with respect to marking applications.

Our focus always on developing the new products with latest technology this leads to innovation and upgrading the exacting technology.



**SUSHREE**  
Sushree Laser Pvt. Ltd.

Sr. No. 133, Dalvi Wadi, Nanded Phata, Sinhgad Road, Dhayri, Pune 411 041

**Mob :** +91 9921160584 / 8793800400

**Email:** sushreelaser@gmail.com, www.sushreelaser.com