

Automation



XY Axis

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

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

Long 1 Axis Travel



Precision 1 Axis Travel

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

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

Rotary Axis



Indexing

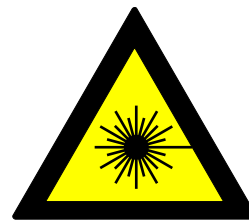
For maximum utilization of time this indexing mechanism will provide 2-8 part mounting station which can be rotated as required and mark. Its very use full for safe and consistent marking .

SIL can provide custom Automation for bearing, valve, etc. With online measurement of size accepting or rejecting parts and storing them accordingly. Kindly contact us directly for more information.



**For Further Details Please Contact :
SURESH INDU LASERS PVT. LTD.**

Mfrs. of Lasers, Optics & Electro-Optics Instruments
Survey No. 15, Sukhsagar Nagar, Pune - 411046. Maharashtra (India)
Tel.: 91 - 20 - 26962062. Fax : 91 - 20 - 26961708.
E-mail : silasers@vsnl.com, web : www.silasers.com



Classification to IEC 825-1:1993 and EN60825-1:1994
Complies with 21 CFR Chapter 1, Subchapter J. : 1996
VISIBLE LASER RADIATION
DO NOT STARE INTO BEAM

CLASS 2 LASER PRODUCT
DIODE LASER, 635-68 NM WAVELENGTH
1mW MAX. CE OUTPUT

INVISIBLE LASER RADIATION
CLASS 1 LASER PRODUCT

Data subject to change without notice. 1/1/09



Fiber Laser Marking System

Exporting and Need to meet Stringent Marking norms? Hold your 2d Data Matrix reader and see how easily it reads.



READ IT!

- Marking
- Micro Machining
- Barcoding
- Gauges
- Color Printing

Fiber Laser Marking System



Accuwrite - Fxx is a Complete Compact Ytterbium fiber Laser Marking System with class 1 enclosure, for high speed, Crisp, Clear, 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 most advanced and reliable laser source. Fiber laser has the highest Wall plug efficiency, and virtually no maintenance.

Advantage of fiber laser marking

1. Highest wall plug efficiency compared to other laser technology available.
2. Power up to 30 watt in CW and Pulsed.
3. High Beam Quality (TEM00 mode M2 = 1.6).
4. Diode life > 50,000 hrs.
5. High repetition rate.
6. Very stable and consistent repeatability.
7. Maintenance free operation years.
8. Very small footprint.
9. No water-cooling.

System Features :

- Accuwrite F series uses Yb fiber laser Technology integrated with a Precision beam deflecting unit for marking or micro machining on nearly all metals and nonmetals.
- The system is compact, efficient and reliable providing the customer lowest cost of ownership.
- The excellent beam quality and stability, integrated with precision beam deflecting unit, enables Accuwrite F series to provide, high resolution, fast and clear marking on 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, Bar codes, micro machining to produce die, cutting thin sheets of SS, Aluminum, copper gold etc.
- Accuwrite F is available in 3 power 10 watt, 20 watt, 30 watt and work field area from 25mm x 25mm to 300mm x 300mm
- Accuwrite F consumes less than 400 watt of Power to provide end user low operating cost than other system available in the market.
- Accuwrite F comes with a warranty of 2 years. Thanks to the MOPA fiber laser having no moving parts and involving telecommunication grade laser diodes as pump source, and are highly reliable component.
- Accuwrite F laser provides frequencies from 1 to 500 KHz enabling to mark more faster and clear. The enclosure is made of Anodized Aluminum structure for long life and light weight.

Industrial Version
For Large Work Field and Automation
Ideal for Job working Companies



Dual Scanner
for Double Production with 1 Laser
Ideal for Mass Production and
100% Duty Cycle.
Fitted with Tropical Kit to use in
the Shop floor. Environment
without any Air Conditioner.



Ultra Compact
For Direct Mounting on Belt
or for less space utilisation.

Application

Jewelry



Precision Jewelry let it be Gold, Silver, Platinum, Brand them or Hall mark them. Our special software for Jewelry will enable you to mark every individual Jewel whether you want 0.2mm or 1mm character size Mark all. Curve or Straight, Well you can also make SS jewelry with color marking on them. **Contact for more information.**

Electronics



SIL machine can mark upto 1million components in 24hrs achieving good contrast on your pigmented powder coated parts and Mark Ic's, microchip, Capacitors, Resistors, Heat sinks, crystal, or any other component consistently 24X7.

Tools



Accuwrite F series marks nearly all types of tools or including carbide, HSS, Hardened and grinded tools with great quality. IF your production volume is higher or small easy to align software saves your time in shift to different batches in seconds.

Fine Cutting



Want to cut with Laser Marking? YES WE SAY. 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. Now what else would one can demand!

Automobile



The most busy sector requiring 100% uptime, Virtually maintenance free batches, SIL machines working in such high production industry for last 3 years with virtually no maintenance.

Ceramics



Working in Special materials? Zirconia, BASO4, Alumina, or any other ceramic, Accuwrite will mark all, with precision and consistent.

Orthopedic



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

Deep Marking



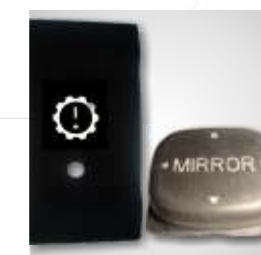
Deep marking up to 3 mm or more for grooving or engraving on Die or castings, Accuwrite F can provide 2d or 3d engraving on all precision dies.

Commercial Goods



Mark any thing, Like Cigarette lighter, Pen, visiting card holder nearly anything you can imagine or what ever the customer asks for, Accuwrite f will mark nearly all material. From simple marking to color marking on steel every thing is possible

Day & Night



Surface Coating removal, with extreme precision and with maximum transmission of light, possible with highest speeds supported by Laser providing highest frequencies of 500khz applications cover Car switches mobile key pads etc.

Rotary



Mark on Circumference with 1 click, SIL software allows both Dynamic mark or Static mark with extreme precision. Our rotary axis incorporates Backlash free movement with gear reduction of 1,000:1 providing extreme precision marks.

Electrical



You can mark electrical components like Switch gears Tops, Electrical panels with very good contrast. The software allows automatic Day, month, shift, change can be programed, you can also bar code with very good readability and consistency.