Fiber Laser Marking Machine

SKY TECH

SKY TECH SOLUTIONS

www.skytechsolutionsindia.com

Sky Tech - FXX is a Complete compact Ytterbium Fiber Laser Marking System with class 1 enclosure, to achieve High Speed, Crispy, 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 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 40 Watts in CW and Pulsed
3. High beam Quality
4. High repetition rate
5. Very stable and consistent repeatability
6. Maintenance free operation with 1 year of unlimited usage warranty
7. Very small footprint
8. No water-cooling

Industrial Version

For Large Work Field and Automation
Ideal for Job working Companies

- Sky Tech 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 provides the customer lowest cost of ownership.
- The excellent beam quality and stability, integrated with precision beam deflecting unit, enable Sky Tech 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, allow to produce marks of various types of shapes, design, bar codes, micro machining to produce die, cutting thin sheets of S.S., Aluminum, copper gold etc.
- Sky Tech F is available in user selectable range and work field area from 25 mm x 25 mm to 300 mm x 300 mm.
- Sky Tech F consumes less than 600 W of power to provide end user low operating cost than other system available in the market.
- Sky Tech 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.
- Sky Tech F Laser provides frequencies from 1 to 400 KHz enabling to mark more faster and clear. The enclosure is made of Anodized Aluminum Structure for long life and light weight.

Applications

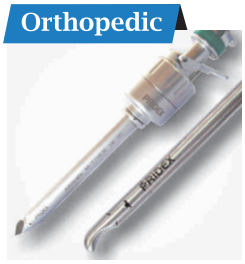
Automobile

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

Ceramics

Works in Special Materials? Zirconia, BASO4, Alumina, or any other Ceramic, Accuwrite will mark all with precision and consistent.

Orthopedic



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

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 Mark bar code with very good readability and consistency.

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

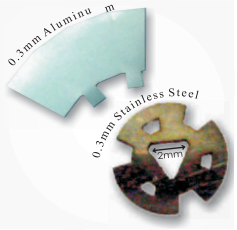
Electronics

SIL machine can mark upto 1 million components in 24 hrs 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.

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 provides extreme precision marks.

Fine Cutting



Want to cut with Laser Marking? Yes WE SAY. Cut up to 0.5 mm 1 Pass in aluminum or SS without any assist gas, with part accuracy of 10 microns. You can cut more with multi pass. Now what else would one can demand!

Jewellery

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 0.2 mm or 1 mm character size mark all curve or straight well you can also make SS jewelry with color marking on them.

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 500 KHz applications cover Car Switches, Mobile Key-pads etc.

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.

Technical Specifications

Model	ST F-20/30/50/60/100Watts
Power	20W to 100W
Wavelength	1063±3nm
Beam quality	<1.2(M^2)
Output power adjust mentrange	10-100%
Pulse repetition rate	20 - 400KHz
Power stability	<±1%
Focus spot diameter	<0.05mm
Working area	70X70/100X100/150X150/200X200/300X300mm^2
Max marking depth	1.2mm
Max marking speed	1500 standard characters/second
Minimum line width	0.05mm
Minimum character	0.5mm
Repetition accuracy	±0.003mm
Cooling mode	Aircooling
Ambient temperature	15°C-35°C
Power requirement	220V/single phase/50Hz/<600W

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Office: 28/4, A Block, 1st Floor, Mayapuri Industrial Area, Phase-1, New Delhi - 110064

Phone: 011-42630379, **E-mail**: delhisales01@skytechsolutions.info,

Website: www.skytechsolutionsindia.com

Branch Office : Ludhiana | Kolkata | Indore