

DIODE PUMPED LASER MARKING SYSTEM



Accuwrite-D series involves HIGHLIFE Diode Pumped Laser technology. The system consists of High life Diode pumped chamber providing uninterrupted diode life of 20,000 Hrs, Q-switch and resonator optics. The complete system is enclosed in sealed enclosure, which ensures usage of the system in Harsh Environmental conditions and reduces maintenance involved due to climatic conditions. Laser power up to 100 watts can be delivered in this series making this series highly suitable for Deep marking, Micro machining, Steel Marking etc. The complete system consists of Laser with scan head, PC with control board, power supply, Solid State Chiller (optional), software, and a laser safety enclosure with a motorized Z axis. SIL has in-house capability to service and replace diodes after their lifetime, allowing us to reduce the replacement cost less than others.

All SIL Laser Markers are monitored by a Smart Machine Control Interface (SMCI technology introduced by SIL) capable of communicating for any fault reported directly to our service center (Internet connectivity needed for this feature at site of machine installation)

The Accuwrite D series can be configured for many different types of production setup and it is possible to have online marking or Mark on the fly options.

Advantage of diode pumped laser marking

- 1 Better wall plug efficiency compared to lamp pumped technology
- 2 Power up to 100 watt in CW and Pulsed
- 3 Good Beam Quality (TEM00 mode M2 = 2.8)
- 4 Diode life > 20,000 hrs.
- 5 Very flexible Pulse frequency from 100 Hz to 50 KHz
- 6 Stable and consistent repeatability
- 7 Maintenance free operation with 2 years of unlimited usage warranty.
- 8 Compact Gas to water cooling "Solid state Chiller (Optional)
- 9 Maximum single pass depth up to 1mm (stainless steel)

MODEL	ACCUWRITE D 30	ACCUWRITE D 50	ACCUWRITE D 80	ACCUWRITE D 100
Laser Type	Acousto optically Q-switched Nd:YAG laser			
Pumping	808 nm Diode (side pumping)			
Laser Type	Nd:YAG Central emission wavelength of 1064nm			
Laser Power	30 watt	50 watt	80 watt	100 watt
Pulse Frequency	0.1 - 50 KHz			
Beam Quality m2	2.8	2.8	3.2	4
Power Tunability	5 -100%			
Marking area	100x 100 mm, 160 x 160 mm, 254 X 254 mm, 300 X 300mm			
Marking Speed	Standard system comes with 100 x 100 mm marking field			
Writing Speed	500 characters/sec. (All characters of 1mm height and width)			
Marking repeatability	3000 mm/sec			
Operating System	+/- 100 microns or better			
Z-axis with	Windows XP, Windows 2000			
Auto focus	Programmable up to 300 mm height components can be marked.			
Software	All laser marking machines from SIL have a unique Auto focus feature allowing to change the parts of different heights and precision placing again on the marking field area with 1 key input.			
Operating Power	Windows XP/ Windows 2000 based software with features for Automation, Circumferential marking, Bar-coding, 2 D bar-coding, Z-axis focusing, User access control, and lifetime free upgrade. Online part simulation prior to marking. Various formats like HPGL, PLT, Windows BMP, WMF, JPEG, DXF, and many more can be imported directly and marked.			
Power consumption	230 VAC 5 Amps Maximum			
machine size	1.5 kW Maximum (including all subsystems)			
	1000 mm x 800 mm x 500 mm			



**For Further Details Please Contact :
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