End-pumped LD Laser Marker, 10SG-MKDP1064

The 10SG laser marker is equipped with an imported semi-conductor laser reactor. The system has a small, steady & reliable facular along with high marking precision. Achieving the perfect laser mark is a simple process with the user-friendly software interface. The system has been designed for low power consumption & low operating costs, even in a 24 hour full load operating environment. The software control system utilizes a WINDOWS interface and is compatible with files from design software platforms such as CORELDRAW, AUTOCAD etc. Graphic file formats such as PLT, PCX, DXF & BMP etc. and fonts (SHX, TIF) are directly supported by the software. The 10SG also marks automatic codes, sequence numbers, batch numbers, dates, 1D & 2D bar codes. The software can also mark figures on the opposite side of some materials.

Main advantages:

* High speed fine detail marking.
* Spot size does not vary with laser power.
* Marks coated materials without damaging sensitive substrates.
* Compact design and light weight
  (The head and the controller is combined)
* Diode expected life time up to 20,000 hours.
* Low running cost in air cooling system.
* User friendly Windows software for optimum marking performance.
* Available as modules for production line integration or with choice of workstation for turnkey solution.

10SG-MKDP1064 Main Specification	
Model No.	10SG-MKDP1064
Type	Nd:YVO_4
Wave length	1064nm
Nominal Power	10W
Beam Quality	M2 < 1.2
Q-switch frequency	5 - 100kHz
Pumping Source	Fiber coupled diode laser
Pulse width	12ns (@10kHz) 15ns (@20kHz)
Pulse Energy	Max. 550μJ (@10kHz)
Peak Power	Max. 45kW
Power instability	±1% ms (cw mode)
Guide Beam	Red laser diode wave length 635nm, 5mW
Max. Marking area	110mm x 110mm
Work distance	160mm
Repeatability	±0.001mm
Minimum line	0.1mm
Cooling	TE Peltier, Air cooling
Control Method	Analog Voltage (0-5V)、 RS232, TTL
Power Supply	AC90-240V, Single Phase
Power Consumption	1kVA
Environmental	+10℃～+35℃、85%No frost
Size	810 x 500 x 490 mm