

CO2 Laser Marker

Automated Laser Marking for Programmable Semiconductor Devices

- Mark up to three lines, 15 characters each line
- Alphanumeric text, TrueType fonts and graphics
- Create and modify complex marks with ProLase
- Combine standard text and ProLase job files
- Select font size and orientation
- Set laser speed and power
- Lase real-time information, including date codes and serialization
- Dust control and collection with vacuum and two-stage filtration
- Standard nozzle kit included
- Dual nozzles for high throughput
- Class 1 Laser Unit
- Sealed enclosure safely isolates the laser operation
- Permanent mark supports control and traceability standards
- Robust Synrad laser tube and ScanLab marking head
- Laser tube rated for 1000's of hours resulting in low cost per device
- Teach and test before running a job

Later Horke	r Cenfigure					2.2
peed 5	n/se: Deven 1		23			
line]:	1204067898	ы	×810	Y 010	Angle-(deg)	See 001
Line Zr		·	-0		0	10-1208U0r. 1052
1002		•	-0	1	0	<-34567 JB0
Project PA	cied Pile Li [per
Due Due be Due be Seed	fore Mark Bro Factoretter Bryber: Br (Th Andth (] m] Lengt	(w) [0 [0]	Kongier []	deg (196/a.81	

CO2 Laser Marker

The CO₂ Laser Marker from BPM Microsystems is offered as an integrated part of the 3000 and 4000 series automated programming systems. This optional peripheral is able to quickly and reliably laser mark up to three lines of 15 characters each on many programmable semiconductor devices. Users can easily configure laser settings, character settings and erase\ablate settings, all from the Laser Marker Configure dialog within BPWin.

The CO₂ Laser Marker comes standard with ProLase software by American Laserware to support advanced laser marking capabilities. With its intuitive user interface, users can create and modify ProLase project files to lase complex markings like graphics and TrueType fonts. Save the project file to laser mark future programming jobs or construct a template for a fast and easy job changeover.

How the CO₂ Laser Marker Works

After programming successfully, the device is moved into the laser chamber on a dual nozzle shuttle. Once the device is presented in the sealed enclosure, the laser firing tube is activated to generate a small, intense laser beam. The beam is projected into the scan head, which controls and positions the beam to form the markings. Within only a few seconds, the lased device is transferred from the laser chamber to an output media station.

CO2 Laser Marker Advantage

As more industries require traceability and quality control, BPM Microsystems offers precision, reliability and efficiency with its CO₂ Laser Marker. The robust assembly of the laser marking system is proven to operate for thousands of hours with little maintenance and requires less consumable supplies as compared to labels, making it an economical choice for marking semiconductor devices. Featuring BPWin software and ProLase software, users can easily create designs and modify for a quick job changeover. The BPM Microsystems CO₂ laser marker solution is a natural complement to the automated device programming process.

CO₂ Laser Marker Technical Specifications

	120 -240 VAC				
Air Pressure:	80 psi (5.56 bars)		LASER MARKING PROCESS		
SOFTWARE -					
Software Features:	BPWin with ProLase by American LaserWare Inc.		Program		
	Configure and save laser settings including speed, power, character attributes, erase, orientation and angle.				
	Create ProLase job files offline for complex graphics				
	Browse and select ProLase ".laz" file via BPWin	No	Pass —	Yes	
	Combine alphanumeric text, dynamic data and complex job files				
	Save and recall laser jobs via BPWin Jobmaster	\vee			
Object Types:	Vector graphics, bitmap graphics, serial text				
LASER TUBE			Laser	Laser	
Manufacturer:	SYNRAD Model 48-1S		Shuttle	Shuttle	
Type: Output Power:	CO2, Digital, All metal RF excited, sealed tube design		Vacant	Vacant	
Rise Time:	<150µsec				
Wavelength:	10.2-10.8μm		$\overline{\nabla}$	$\overline{\nabla}$	
Power Stability:	(cold start) - ±10%				
Life Expectancy:	All 48000 Hours		Laser	Lasor	
Ene Expectancy.			Mark	Mark	
MARKING HEAD				J	
Application:	3000 Series Laser Marker		\backslash		
Manufacturer:	SCANLAB SCANgine® 14 - 75mm Focal Length		\backslash		
Typical positioning speed:	30 rads/sec			\checkmark	
Max positioning speed:	50 rads/sec		,	$ \rightarrow $	
Repeatability:	1.65 μm (0.00165 mm)			\bigvee	
Application:	4000 Series Laser Marker				
Manufacturer:	SCANLAB SCANgine® 14 - 200mm Focal Length		0	utput	
Typical marking speed:	5 rads/sec				
Typical positioning speed:	30 rads/sec				
Max positioning speed:	50 rads/sec				
Repeatability:	2.20 μm (0.00220 mm)				

Copyright ©BPM Microsystems 2013 SCANgine® is a registered trademark of SCANLAB AG and SCANLAB America, Inc.

LASERMARKER_EN_0611 REV C

CE

 BPM MICROSYSTEMS

 5373 WEST SAM HOUSTON PKWY N., SUITE 250

 HOUSTON, TEXAS 77041

 T: 713.688.4600

 T: 800.225.2102

 F: 713.688.0920

 WWW.BPMMICRO.COM

