

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

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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

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	SYSTEM REQUIREMENTS					
	Input Line Voltage:	120 -240 VAC		LASER MARKIN	IG PROCE	ESS
	Air Pressure:	80 psi (5.56 bars)				
	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		\backslash		
		graphics				
		Browse and select ProLase ".laz" file via BPWin	No		Yes	
		Diowse and select procase , laz the via brivin		Pass –		
		Combine alphanumeric text, dynamic data and				
		complex job files			\mathbf{k}	
		Save and recall lacer jobs via PDWin, Johnston	\sim	/	/	
		Save and recall laser jobs via BPWin Jobmaster			\backslash	<
	Object Types:	Vector graphics, bitmap graphics, serial text				\mathbf{i}
				$\overline{}$		\leftarrow
						\sim
	LASER TUBE			Laser		Laser
	Manufacturer:	SYNRAD Model 48-1S		Shuttle	9	huttle
	Туре:	CO2, Digital, All metal RF excited, sealed tube design		Nozzle		Vozzle
	Output Power:	10W		Vacant		/acant
	Rise Time:	<150µsec				
	Wavelength:	10.2-10.8µm		\backslash		\backslash
	Power Stability:	(cold start) - ±10% Air				
	Cooling: Life Expectancy:	48000 Hours		Laser		Laser
	Life Expectancy.	10000 110015		Mark		Mark
				Mulk		Murk
	MARKING HEAD					
	Application:	3000 Series Laser Marker				/
	Manufacturer:	SCANLAB SCANgine® 14 - 75mm Focal Length			/	
	Typical marking speed:	5 rads/sec		\backslash		
	Typical positioning speed:	30 rads/sec			\mathbf{Y}	
	Max positioning speed:	50 rads/sec			$\overline{}$	
	Repeatability:	1.65 μm (0.00165 mm)		_		
	Application:	4000 Series Laser Marker				
	Application: Manufacturer:	SCANLAB SCANgine® 14 - 200mm Focal Length			Dutput	
	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)				

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