

V Series 100W On-The-Fly Laser Printer

CO₂ Laser Marking System



Introduction

The 100W CO₂ laser marking system delivers high-efficiency, near-primary-color marking across diverse materials. With three wavelength options (10.6μm, 10.2μm, 9.3μm) and an air-cooled design, it achieves line speeds up to 300 m/min with a remarkable 40,000-hour laser lifetime.

CO₂ lasers have lower energy densities than other solid-state lasers have. They are widely used on wood, paper, cardboard, glass, rubber, PMMA, PET, etc.



High-Speed Marking

Marking speed is up to 1350cps. Up to 300 m/min line speed for maximum production throughput.



Near-Primary-Color Marks

High-quality, natural-looking marking on a wide range of surfaces.



Clear & Permanent Marks

Clear & permanent marks with sharp-cut edges are generated via precise laser ablation. The markings resist abrasion, chemical solvents and high-temperature exposure. No fading or smudging will occur during long-term service of the workpiece.



Up to 40,000h Lifetime, Economical-friendly

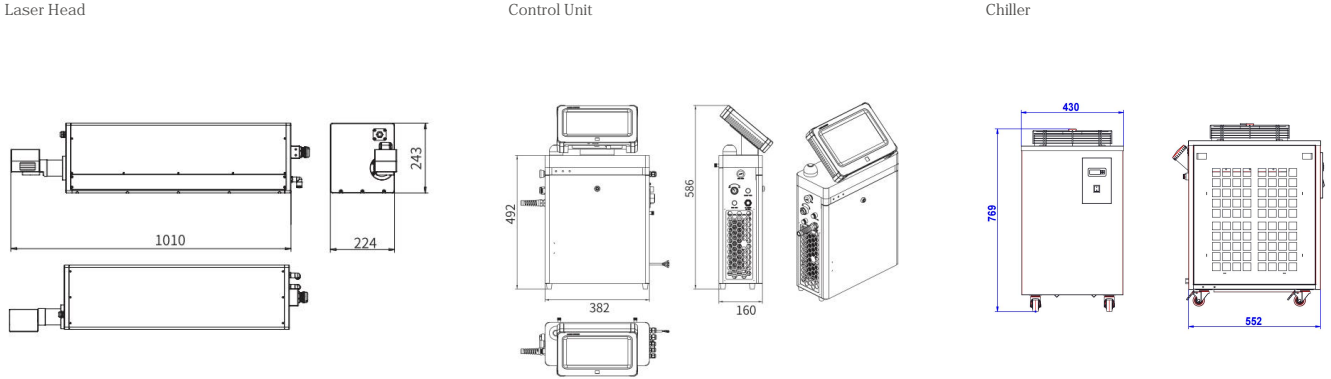
Well-proven mature-duty technology, long laser-tube service life and ink-free operation cut running-cost. Capital expenditure is far lower than inkjet and other laser solutions.

Applications



Model		V1010i	V1020i	V1030i
Basic Configuration	Laser power	100W		
	Laser type	Sealed metal RF CO2 laser source		
	Laser wavelength	10.6μm	10.2μm	9.3μm
	Mark field	Standard: 110mm×110mm, maximum: 400mm x400mm		
	Positioning method	Red-light positioning		
Marking Features	Production line speed	0~189m/min (varies according to materials and printing contents)		
	Image format	BMP/DXF/HPGL/JPEG/PLT		
	Code type	Code128A, Code128B, Code128C, Code39, Code93, Ean13, PDF417, 01 Code; QR, DM, GS1-DM, AztecCode, HanxinCode, DotCode		
	Lines of characters	No limits within mark field		
System Features	Operating system	Linux		
	Type of drawings	Both dot matrix and vector		
	Language	Chinese Simplified, Chinese Traditional, English, German, Spanish, French, Italian, Japanese, Korean, Portuguese, Hindi, Russian, Turkish, Arabic, Persian, etc.		
	Interfaces	RS-232C / USB2.0 / Ethernet, I/O		
Structure and Conditions	Machine material	Anodized Aluminum (Laser Head) & Stainless Steel (Control Unit)		
	Power supply	220V / 50-60Hz (110V optional)		
	Power consumption	≤4515W		
	Machine weight	120kg		
	Protection class of shell	IP54 (laser printer head) (IP65 for whole laser head optional)		
	Cooling system	Water-cooled		
	Dimensions	1010mm x 224mm x 243mm (Laser head) 382mm x 160mm x 492mm (Control box) 552mm x 430mm x 769mm (Chiller)		
	Working conditions	0-45°C		

Dimensions (mm)



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