



V Series 100W/150W 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.

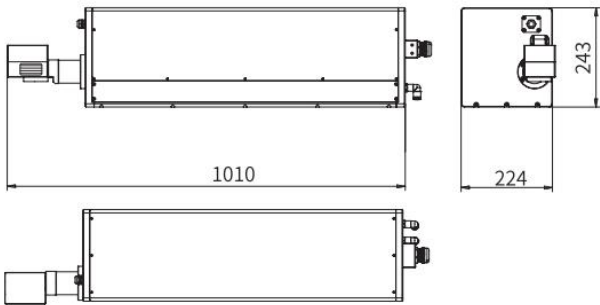
Applications



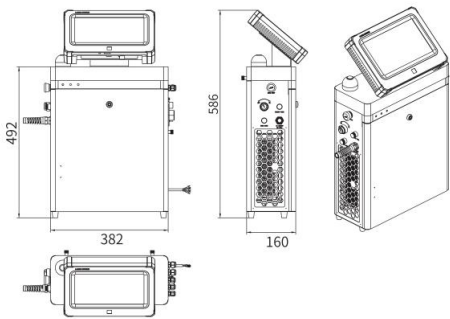
Model		V1010i	V1020i	V1030i	V1510i	V1520i	V1530i
Basic Configuration	Laser power	100W			150W		
	Laser type	Sealed metal RF CO ₂ laser source					
	Laser wavelength	10.6μm	10.2μm	9.3μm	10.6μm	10.2μm	9.3μm
	Mark field	Standard: 110mm x 110mm, maximum: 400mm x 400mm					
	Positioning method	Red-light positioning					
Marking Features	Writing speed	1000 characters / second					
	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	SUNINE V6 platform Linux Based					
	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	100~240VAC 50/60Hz					
	Power consumption	≤4515W					
	Machine weight	120kg					
	Protection class of shell	IP54 (laser head)					
	Cooling system	Water-cooled (Chiller is optional, customer can use their own chiller)					
	Dimensions	1010mm x 224mm x 243mm (Laser head) 382mm x 160mm x 492mm (Control box)					
	Working conditions	5-40℃; 30%-85% RH (No-condensing)					

Dimensions (mm)

Laser Head



Control Unit



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Portal to official website