PRINT JET®

PJU5TT Series



Compact UV Laser Coding

Designed for Next-Generation Manufacturing.

The PJU5TT 50/100 UV laser systems deliver maintenance-friendly, consumable-free coding, helping manufacturers reduce operating costs while ensuring continuous production uptime.

Designed for precise and permanent marking on a wide variety of substrates. These systems perform exceptionally well on sensitive mono-materials recyclable films, rigid plastics and other challenging surfaces requiring high-contrast coding.

Capable of producing sharp human-readable text along with machine-readable codes such as QR codes, Data Matrix and GS1-compliant markings. The PJS UV laser platform provides dependable performance for demanding industrial coding and traceability applications.

Advanced **Coding Performance**

Achieve faster production efficiency with ultra-high-speed marking capability of up to 2000* characters per second, enabling greater throughput and improved line productivity.

UV laser technology delivers precise marking with significantly lower heat impact compared to CO_2 and Fibre lasers, helping protect delicate materials such as films, plastics, and sensitive packaging substrates.

Produce sharp, high-contrast codes with cleaner edge definition for superior readability and reliable traceability across a wide range of applications.

Sustainable & Cost **Efficient Operation**

The PJU5TT Series operates without consumables, eliminating the need for inks, ribbons or frequent replacement parts. This helps reduce operating costs while improving overall production efficiency.

Unlike traditional ribbon-based coding systems that generate hazardous waste requiring specialised disposal processes. UV laser technology offers a cleaner and more environmentally responsible solution with reduced waste generation and lower energy consumption.

Compact Design & User **Friendly Operation**

Designed with a compact footprint comparable to conventional TTO systems, the PJU5TT Series enables easy installation into existing production lines with minimal modification requirements.

With a working distance of 45–75 mm and a marking area of up to 100 × 100 mm, the system can conveniently replace TTO applications across a wide range of packaging environments.

Equipped with a self-developed software platform, the system offers simple operation, intuitive controls, and easy job setup for enhanced user convenience.

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Technical Specifications

Laser Details	Maximum Laser output	5W
	Laser wavelength	355nm
	Laser Life	Life expectancy is up to 20,000 hours*
Performance	Line Speed	Up to 130mtr/min*
	Marking speed	12000mm/s
	Characters per second	Up to 2000char/Sec*
	Printing Capacity	"No. lines of text: only limited by character size and marking field size"
	Character Height	Up to marking field size (Up to 50mm or 100mm)
	Print Rotation	0-360°
Laser Head & Lens options	Lens (mm)	50mm, 100mm
	Marking Filed	50X50mm, 100X100mm
	Focal length	45mm / 75mm
	Spot Size	0.03mm
	Positioning mode	Blue light indication
Physical Characteristics	Material	SS and Polymer, Aluminium mounting
	Weight	10Kg (Laser Marking Unit) 18Kg (Chiller Unit)
	Mounting options	Down (90°), or straight (0°)
	Protection Class	IP54
	Cooling Style	Water Cooled, much reliable
	Supply voltage/frequency	230VAC/50HZ, 1-phase
	Maximum power consumption	750W
	Dimension	311*133*133mm (Laser Head)
Software	Easy access operator toolbar	Date & time offset, variable text, rotate / flip / mirror / curve, adjust laser intensity
	Multilingual	English, Arabic, Spanish, German, Chinese, Russian, Persian etc
	User Management	Multi user management
	operating system	Linux System
	Password protection	"Multiple protection levels and access rights (User defined)"
	Fonts and file format	BMP/DXF/HPGL/JPEG/PLT/TTF
	Code options	Date, time, static text, variable text, serial numbers, shift codes, 1D/2D barcodes, graphics and logos, 2D codes including GS1 and QR Code.
Environmental Details	Ambient operating temperature	0 to 45°C
	Storage Temperature	-10 to 50°C
	Humidity range	10 - 90% (relative, non-condensing)
Interfacing	Interface ports	1 detector, 1 encoder, 1 beacon, 1 safety single interlock, 1 Ethernet RJ45, 1 HMI Touch Screen
	Input/Output options	Start, print status, finish, fault

(*Line and marking speeds are application dependent)

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