CM505U-T

UV LASER MACHINE

Cyklop®





Coding & Marking

The CM505U-T is a consumable-free 5W UV laser marking machine with compact size, easy integration, intuitive touch control, and TTO line compatibility, delivering precise non-contact marking on various materials.

NO PRINTHEAD REPLACEMENT
Minimizes downtime and ensures smooth production line operation

NON-CONTACT MARKING
Achieves precise marking without damaging the workpiece surface

CONSUMABLE-FREE
No need to replace ribbons or printheads, delivers stable, maintenance-free laser marking

EASY TO INTEGRATE
Smaller marking head, convenient for production line upgrading

TTO LINE COMPATIBLE
Seamlessly integrates into TTO lines, optimized for laminated films and flexible packaging

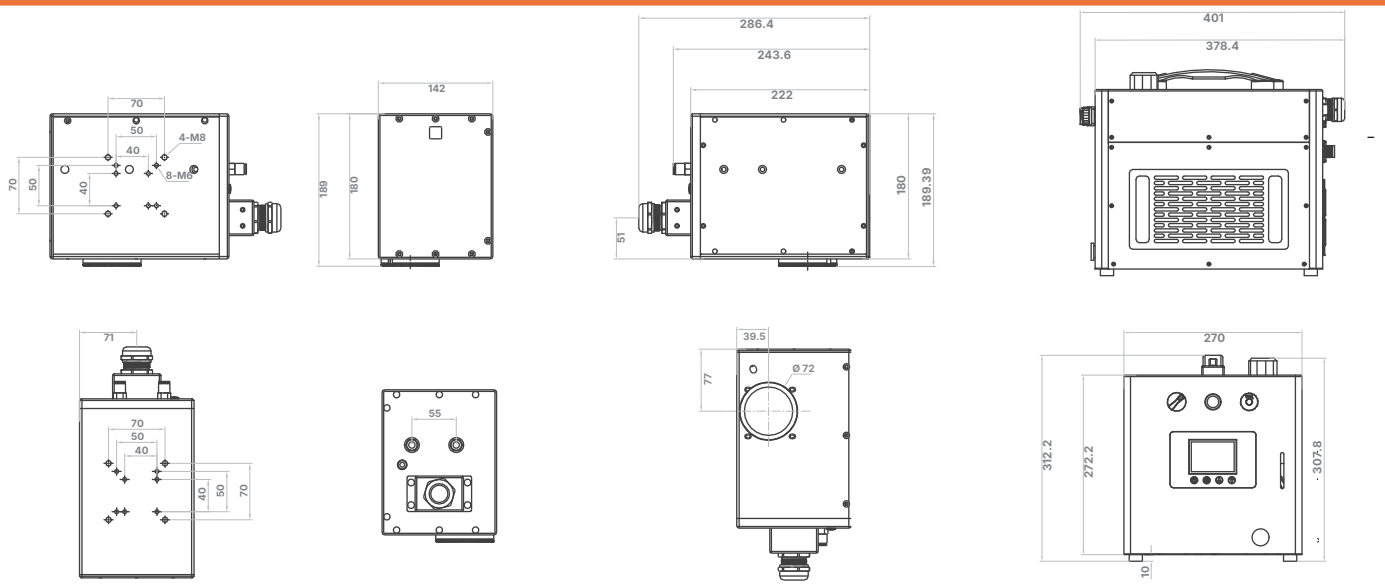
INTUITIVE OPERATION
Equipped with a 10.1-inch intuitive touch-screen featuring a user-friendly interface for fast and efficient operation

Technical Specifications

Laser types and characteristics	Main Material: Anodized aluminum oxide structure + stainless steel Laser Tube: 5W nanosecond UV laser generator Wavelength: 355 nm Cooling System: Integrated water-cooled (integrated) Positioning Method: UV positioning and infrared assisted focusing
Substrates / Application characteristics	Plastics: PE, PVC, PP, PS, POM, PC, acrylic, nylon, etc. Flexible PCB Metals: stainless steel, aluminum, gold, silver, titanium, brass, etc. Wood products: MDF, plywood, fiberboard Glass*
Speed	Scan Head Marking Speed: Up to 5000 mm/s Production Line Speed: Up to 200 m/min
Marking characteristics	Number of lines marked: limited only by character height and markable area Font support: double-line font, dot matrix font, standard industrial font (Windows TrueType), single-line font Machine-readable codes: Barcodes: Code 39, EAN-13, Code 128, Code 93, Code 128A, Code 128B, Code 128C, GS1-128, PDF417, ITF-14, Codebar 2, UPC-A 2D codes: QR-Code, Data Matrix, Aztec-Code, DotCode, Han Xin-Code Marking objects & effects: Graphics, logos, symbols Marking layout & functions: Linear, circular, angular, reverse, rotate, sequential and batch numbering, automatic date, layered code, time code, real-time clock
User interface	Screen size: 10.1 inch
Communication and I/O Interfaces	UDP, TCP/IP, RS232 supports encoder and sensor inputs
Standard and optional configurations	**Standard:** marking machine, 10.1-inch external touch screen, touchscreen bracket,fiber optic sensor, universal adjustment sensor bracket, hex tool kit (UV lasers are equipped with water cooling system). **Optional:** Photoelectric sensor, encoder, encoder bracket, encoder wheel, fume extractor (single head), optional lenses and refer to spare part list
Marking area and working distance	UV Focus Lens/100*100mm UV Focus Lens/200*200mm
Physical characteristics	Working temperature: 5-40°C (41-104°F) Humidity: 10%-90%, non-condensing Electrical requirements: 100~130VAC/200~240 VAC, 50~60 Hz, 0.72kW Overall dimensions: see dimensional drawings for details Net weight: 24kg

* Subject to material type, surface condition, and marking content complexity.

Dimensions (mm)



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