



Professional Packaging Systems

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Videojet 7510 Fiber Laser Marking System

At a Glance

- 50-Watt fiber laser marking machine creates high-contrast marking
- Crisp codes at speeds up to 600m/min
- Virtually no consumables
- Marks on robust materials such as high-density polyethylene (HDPE), nylon, polyvinyl chloride (PVC), aluminum, and stainless-steel metal



Pricing

Call us at 888-318-0083

Many options are available. Complete details will need to be finalized to determine requirements and final system costs. Work with your Pro Pac representative to build this machine to your specifications.

High-Contrast Marking at Ultra-Fast Line Speeds

The Videojet 7510 50-Watt fiber laser marking system delivers advanced performance for high-contrast marking on robust plastic packaging, metal containers, and other industrial products at ultra-fast line speeds up to 600m/min.

Specifically engineered for high-speed beverage, pharmaceutical and extrusion manufacturers, the Videojet 7510 delivers better mark quality, higher efficiency and a dramatically smaller marking unit than traditional solid state laser systems.

Benefits

Uptime Advantage

Maximum performance and laser source life expectancy up to 100,000 hours (mean time before failure). Highly efficient air cooled laser source virtually eliminates maintenance intervals. 90% more energy efficient compared to predecessor 100W Nd:YAG laser systems.

Mark More Content at Higher Speeds

Optimized to mark-on-the-fly at line speeds up to 440m per minute. Large marking window provides more time to mark, increases throughput and maximizes productivity. CLARiTY Laser Controller features built-in productivity tools to help identify the root cause of downtime events and make sustainable process improvements.

Precise, Consistent Codes

High-precision scan head delivers consistent high-quality codes across the entire mark window.

CLARITY Laser Controller uses built-in Code Assurance software to help prevent operator coding errors. Permanent codes help assure product traceability and tamper-proofing.

Simple Usability

Compact mechanical design with two beam delivery options simplifies integration. Intuitive color touchscreen interface option makes training and usability quick and easy.

Please [contact Pro Pac](#) or call 888-318-0083 for your printing and date-coding equipment.

Marking Fields

Focal Length	100	163	254	420
Max Height/mm	107.4	181.9	267.8	498.5
Max Width/mm	84.7	142.2	221.7	366.5

Specifications

Specification	Value
Laser Tube	Ytterbium (Yb) pulsed fiber laser
Maximum Power	50W
Laser Cooling	Air cooled
Maximum Line Speed	600 m/min (1,960 ft/min)
Environmental Protection	IP54
Beam Output	Steered beam
Laser Source Expected Life (MTBF)	Up to 100,000 hours (MTBF)
Laser Wavelength Options	1.06µm – 1.07µm
Focal Distance Options	100/163/254/420mm (3.93/6.41/10/16.53in)
Maximum Mark Window	498.5 x 366.5 mm (19.62 x 14.43 in)
Standard I/O Connectivity	Internal terminal connections
Standard User Interface	Smartgraph PC software
Optional User Interface	PC, CLARiTY Laser Controller
Certifications / Approvals	CE TUV

More Specifications

Marking Formats	<p>Standard fonts (Windows TrueType / TTF; PostScript / PFA, PFB; Open Type / OTF) and individual fonts, such as high-speed or OCR</p> <p>Machine readable codes: ID-MATRIX (ECC100, 140, 200: 10x10 for square formats, 8x8 to 16x48 for non-square formats; ECC plain; QR code); BAR CODES (BC25/25i/39/39E/93/128; GS1-128; UPC_A; RSS14TR/ST/STC; RS LIM/EXP) Graphics/ graphic components, logos, symbols, etc. (dxf, jpg, ai, etc.)</p> <p>Linear, circular, angular text marking; rotation, reflection, expansion, compression of marking contents</p> <p>Sequence and serial numbering; Automatic date, layer and time coding, real-time clock</p> <p>Online coding of individual data (weight, contents, etc.)</p>
Laser Source	<p>Ytterbium (Yb) pulsed fiber laser</p> <p>Power class 50 Watt</p> <p>Central emission wavelength: 1064nm (min: 1055nm, max: 1075nm)</p>
Laser Beam Deflection	<p>2 high-speed galvanometer scanners</p>
Laser Beam Orientation	<p>90-degree (standard) and straight-out (option)</p>
Focussing	<p>Focal lengths: f=100/163/254/420mm</p>
Multiple Operator Interface Options	<p>Smart Graph software on PC; configurable in 12 languages (option)</p> <p>CLARiTY Laser Controller</p>
Language Capabilities (interface dependent)	<p>Arabic, Bulgarian, Czech, Danish, English, German, Greek, Finnish, French, Hebrew, Hungarian, Italian, Japanese, Korean, Dutch, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Simplified Chinese, Slovak, Spanish, Swedish, Thai, Traditional Chinese, Turkish, Vietnamese</p>
Communication	<p>Ethernet, TCP/IP and RS232, digital I/Os</p> <p>Inputs for encoders and product detector triggers</p> <p>I/Os for start, stop, external error, job select, trigger, trigger enable, encoder; system ready, ready to mark, marking, shutter closed, error, bad, good signals and machine/operator interlocks</p>
Integration	<p>Direct integration into complex production lines via scripting interface</p> <p>Integration via Ethernet and RS232 interface</p> <p>Highly precise side guided height adjustment via dovetail joint</p>

Electrical Requirements 100 - 240 VAC (autorange), 600 VA, 1 PH, 50/60 Hz

Cooling System Air cooled

Temperature / Humidity Range 15 - 35° C (59 - 95° F) and up to 40°C (104° F) with a duty cycle of 70%
10 - 90%, non-condensing

Sealing and Safety Standards Marking unit: IP54
Supply unit: IP21
LASER CLASS 4 product (acc. to EN 60825-1:2014)

Measured Weight Supply unit: 18.8kg (41lbs)
Marking unit: 7.6kg (17lbs)

Applicable Certifications CE, TÜV/NRTL, FCC, EAC

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