Laser Marking System

Videojet® Lightfoot™ Canning Solution

The Videojet Lightfoot™ canning solution is an all-in-one fiber laser system tailor-made to meet the challenging requirements of high-speed beverage canning operations.

The Videojet canning solution handles demanding production needs even in harsh environments with features such as dual Lightfoot™ fiber laser marking heads, a cabinet rated for washdown environments, and best-in-class safety measures.

A turnkey system purpose-built for beverage canning, the Videojet Lightfoot canning solution delivers speed, quality, and reliability in a comprehensive package.

Tailor-made for canning
- Achieve marking speeds up to 100,000 cans per hour*
- Optimize for washdown with the IP65 rated cabinet
- Handle harsh humid or sugar-laden environments easily with IP69 rated marking heads
- Keep the line running with built-in redundancy from dual marking heads

Complete solution
- Help ensure operator safety with a sealed enclosure that blocks all optical radiation
- Reduce cleaning needs with an air knife that prevents dust build-up on the marking head exit beam
- Connect to common line integration or code management solutions with standard industry protocols
- Maximize your productivity with included VideojetConnect™ Remote Service

*Speed capacity will vary based on application requirements
**Videojet® Lightfoot™ Canning Solution**

**Laser Marking Systems**

### Marking field

<table>
<thead>
<tr>
<th>Working Distance (CFS-X)</th>
<th>x Dimension</th>
<th>y Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medium (MI)</td>
<td>112.50</td>
<td>48.27</td>
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</table>

### Marking formats

- Standard fonts (Windows® TrueType®, TTF, PostScript® PFA, PFB, Open Type®/ OTF) and individual fonts, such as high-speed or OCR
- Machine-readable codes: ID-MATRIX, ECC plain, BAR CODES®-stacked omnidirectional/limited (CCA/B) expanded
- Graphics/graphic components, logos, symbols, etc. (dsf, jpg, ai, etc.)
- Linear, circular, angular text marking; rotation, reflection, expansion, compression of marking contents
- Sequence and serial numbering; Automatic date, layer and time coding, real-time clock;
- Online coding of individual data (weight, contents, etc.)

### Laser source

- Ytterbium (Yb) pulsed fiber laser
- Power class 30 Watt
- Central emission wavelength: 1,040 - 1,090nm (1.04 - 1.09μm)

### Laser beam deflection

- Digital high-speed galvanometer scan

### Laser beam orientation

- Straight-out (CFS-x)

### User interfaces

- TCS+ browser-based free form onboard editor
- Smart Graph software for PC, configurable in 20 languages (option)
- CLARITY™

- **TCS+**
  - Browser-enabled software for intuitive creation of complex jobs on standard web browser compatible devices
  - Dual laser configuration uses leader/follower pattern with single integrated software control
  - Support for 27 languages
  - Full user access control and role definition
  - Event log for history of user interactions
  - Graphical guided line setup wizard
  - Easy system and parameter configuration
  - WYSIWYG editor

### Integration

- Direct integration into complex production lines through the laser’s scripting interface
- Integration via Ethernet and RS232 interface
- Highly precise side guided height adjustment via dovetail joint or 38mm tube

### Communication

- Ethernet (TCP/IP, 100/1000bit LAN), EtherNet/IP™, ProFinet®, RS232, digital I/Os
- Inputs for encoders and product detector triggers
- 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
- Customer-specific solutions

### Electrical requirements

- 100 - 240 V (auto range), 360 VA, 1 PH, 50/60 Hz

### Environmental protection

- Supply unit: IP65, air cooled
- Laser head: IP69, air cooled

### Temperature/humidity range

- 5 - 60 °C (40 - 105 °F)/ 10 - 90 %, non-condensing

### Weight

- Beam shield tunnel - 300 – 148.2 / 326.7lbs
- Beam shield tunnel - 600 – 230.6 / 508.4lbs
- IP65 Enclosure – 78.8kg / 173.7lbs
- Marking head enclosure – 14.2 / 31.3lbs
- Mounting stand, blower unit – 3.2kg / 7.1lbs

### Applicable certifications

- EtherNet/IP DOC, ProFinet/PNO certificate, CE, TÜV/NRTL, FCC
- Compliance (no certification required): ROHS, CFRH/FDA

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