Laser Marking Systems

**Videojet® 7340/7440**

The 7340 and 7440 are versatile fiber laser marking systems that feature the smallest fiber laser marking head on the market, designed for simple integration, reduced installation cost and increased range of installation opportunities.

The Videojet 7340 (20-Watt) and 7440 (30-Watt) fiber lasers are the first to feature the Lightfoot™ marking head, making them easy to integrate, operate and service.

The Lightfoot marking head is one of a kind, smallest in the industry both in size and weight, and IP69 rated for use in washdown and harsh environments. These fiber lasers, designed to deliver high-quality, permanent codes for a wide range of marking applications, are an ideal solution for parts-marking, food, beverage, consumer packaged goods, pharmaceutical and cosmetics manufacturers who have space limitations, are looking for simple integrations, or do frequent rapid changeovers.

**Uptime Advantage**
- Achieve simple integration, reduced installation costs, and an increased freedom of positioning with an industry-first, compact, fiber laser marking head
- Simplify laser head adjustment and positioning with reduced laser head mounting bracketry
- Easily migrate to a laser marking solution, with the added benefit of reduced consumables
- Reduce the need for additional housing or equipment with a water and dust tight IP69 laser marking head, facilitating worry-free usage in washdown and harsh environments

**Built-in productivity**
- Mark up to 2,000 characters per second
- Get closer to the product with the smallest fiber laser marking head on the market
- Benefit from easier, faster and precise focal distance during line or product changeover with pilot beam-based focal alignment installation process

**Simple usability**
- Achieve easy set-up and fast product changeovers with the integrated pilot beam focus finder that can reflect the code and actual size of the marking field
- Benefit from easy serviceability with the ability to quickly remove or replace the fiber laser unit either on the production line or within complex machinery
- Focus more on production and less on user interaction and maintenance with an easy-to-use laser solution that is intuitive to the operator without the need for additional training

**Code Assurance**
- Control the laser through a range of familiar, easy-to-use user interfaces, reducing operator training needs and the risk of product rework and recalls
- Benefit from simple operation, message creation and reduced operator errors with the Videojet Touch Control Software (TCS+) or the Videojet CLARITY™ laser controller
Marking fields (mm)

<table>
<thead>
<tr>
<th></th>
<th>Working Distance (CFS-X)</th>
<th>Working Distance (CFT-X)</th>
<th>x Dimension</th>
<th>y Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small (-S)</td>
<td>72.00</td>
<td>89.00</td>
<td>37.01</td>
<td>63.58</td>
</tr>
<tr>
<td>Medium (-M)</td>
<td>112.50</td>
<td>129.50</td>
<td>48.27</td>
<td>89.30</td>
</tr>
<tr>
<td>Large (-L)</td>
<td>171.00</td>
<td>188.00</td>
<td>64.46</td>
<td>126.30</td>
</tr>
</tbody>
</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
Graphical graphic components, logos, symbols, etc. (dxf, 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 classes 20 and 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) and 90-degree (CFT-x) options

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
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

Smart Graph software
Graphic-oriented user interface for Windows®
Text / data / graphics / parameter editor
Configurable in 20 languages, e.g. in German, English, Japanese
Easy import functions for the most important file formats (.dxf, .jpg, .ai, etc.)

Communication
Ethernet (TCP/IP, 100Mbit 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

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

Electrical requirements
100 - 260 V (auto range), 360 VA, 1 PH, 50/60 Hz

Environmental protection
Supply unit: IP21, air cooled
Laser head: IP65, IP69, air cooled

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

Weight
Supply unit 3m supply line – 23kg / 50.7 lbs
Supply unit 10m supply line – 27kg / 59.5 lbs
Marking unit CFT – 0.64kg / 1.4 lbs
Marking unit CFS – 0.61kg / 1.3 lbs

Applicable certifications
EtherNet/IP DDC, ProfiNet/IP, PROFIBUS®, CE, TÜV/NRTL, FCC
Compliance (no certification required): ROHS, CERH/FDA

Marking head dimensions
90-degree

Supply cabinet dimensions

Order supplies shop.videojet.com
Call 800-843-3610
or visit www.videojet.com
or email info@videojet.com

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