



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

## 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

## 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

# Videojet® 7340/7440

## Laser Marking Systems

### Marking fields (mm)

|             | Working Distance (CFS-X) | Working Distance (CFT-X) | x Dimension | y Dimension |
|-------------|--------------------------|--------------------------|-------------|-------------|
| Small (-S)  | 72.00                    | 89.00                    | 37.01       | 63.58       |
| Medium (-M) | 112.50                   | 129.50                   | 48.27       | 89.30       |
| Large (-L)  | 171.00                   | 188.00                   | 64.46       | 126.30      |

### 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. (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-orientated 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 - 240 V (autorange), 360 VA, 1 PH, 50/60 Hz

### Environmental protection

Supply unit: IP21, air cooled

Laser head: IP65, IP69, air cooled

### Temperature/humidity range

5 - 40° 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 DOC, ProfiNet/PNO certificate, CE, TÜV/NRTL, FCC

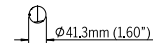
Compliance (no certification required): ROHS, CFRH/FDA

### Marking head dimensions

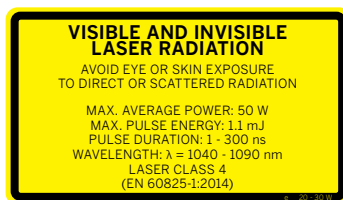
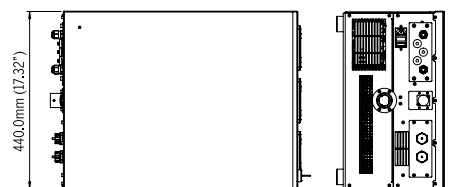
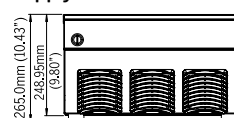
90-degree



Straight-out



### Supply cabinet dimensions



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Part No. SL000681  
ss-7340-7440-en-0922

