

Compact and versatile all-in-one solution
Excellent mark quality and wide application range
Quick start and simple operation

Videojet® 3020

Laser Marking System





10-Watt laser marking system for consumer packaged goods and industrial applications

Compact and easy to set up, the Videojet 3020 is one of the most versatile entry-level 10-Watt CO₂ lasers on the market. With scribing laser technology and large marking fields, the Videojet 3020 provides excellent mark quality on paper, cardboard, plastics and other materials.

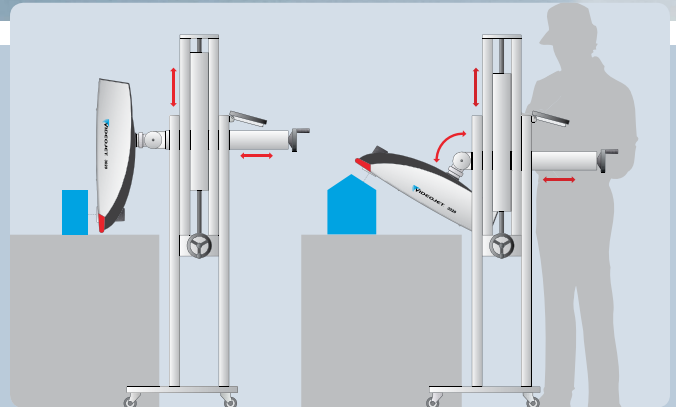
Compact design and versatile all-in-one solution

- Single-box design enables fast installation and line changes
- Weighing 7 kg (15 lbs.), one of the lightest systems available in its class
- Configurable in a variety of angles and heights with the adjustable mobile stand
- Fits easily on most production lines

Excellent mark quality and wide application range

- Scribing technology provides clear, high quality marks without a dot matrix look on both stationary and moving products
- Depending on the lens used, mark field sizes up to 126 x 87mm (5 x 3.4") are available to mark a wide range of codes and applications

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Laser Marking System



Versatile stand allows for a large range of installations (top, bottom, left, right, upside-down, etc.). Low weight allows for easy handling by a single operator.

Quick start and simple operation

- Averages 30 minutes for mechanical setup and 20 minutes for line changes enable quick starts
- Smart system features include focus finder for simple adjustment of working distances and automatic signal detection of the encoder and product detector
- Intuitive operator interface on a touch-screen tablet provides maximum ease of use
- Setup wizard's simple menu structure and preview window allow the creation of jobs and setting of print parameters in a matter of minutes



Touch-screen enables creation and editing of jobs

Cardboard



Laser sensitive corrugated cardboard: color change



Corrugated cardboard: carbonization



Cardboard box: carbonization, color change



Cardboard box: engraving, color removal

Plastic Materials



Sticky beverage label foil: color change



Pharmaceutical sticker: color removal



PVC: color change and engraving

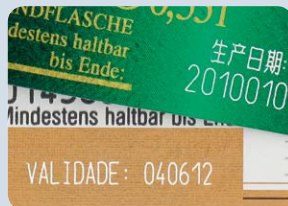


Plastic bottle: color removal

Paper Items



Paper cup: carbonization, color change



Metalized beverage labels: color removal



Beverage labels: color removal



Metalized beverage labels: color removal

Wooden and Metal Materials



Pencil: color removal



Pencil: carbonization



Ice cream sticks: carbonization



Anodized aluminum: color removal

Note: For every application, tests must be made to determine the most suitable system solution/configuration.

Marking Fields (see graphic for marking field sizes)

	Three Focusing Lenses		
Working Distance/mm	80	128	179
Focal Length/mm	100	150	200

Marking Formats

Standard fonts: Simplified Chinese, Western/Eastern European

Optional fonts: Bengali, Vietnamese, Thai, Japanese, Arabic, Hebrew

Machine-readable codes: ID matrix, bar codes

Logos/symbols (pixel-based, vector-based)

Graphical elements (ellipse, rectangle, polyline)

Variables (serial numbers, text, date, time, shift code)

Marking Speed (application dependent)

Up to 500 characters/sec.

Line Speed (application dependent)

Up to 3.26 feet/sec. (1 m/s)

LASER MARKING SYSTEM COMPONENTS

Standard Configuration

Laser marking unit: (includes laser, digital high-speed galvanometer scanners, one lens with lens protection, controller, I/O panel, built-in keypad, power supply, connectors, lamps, switches, focus finder to adjust working distance); laser beam orientation: 90-degree beam exit; product detector; touch-screen tablet

Options & Accessories

Mobile stand; beam shield; exhaust unit; encoder; fiber optic photocell; touch brackets; mounting brackets

Laser Tube

Single sealed CO₂ laser, power class 10-Watt

Central emission wavelength: 10.6 μm

Integration

Stand-alone solution when optional stand is utilized

Usage without stand: direct integration into production lines via mounting brackets

USER INTERFACES

Touch-screen Tablet

PC based; communicates with the marking unit via ethernet

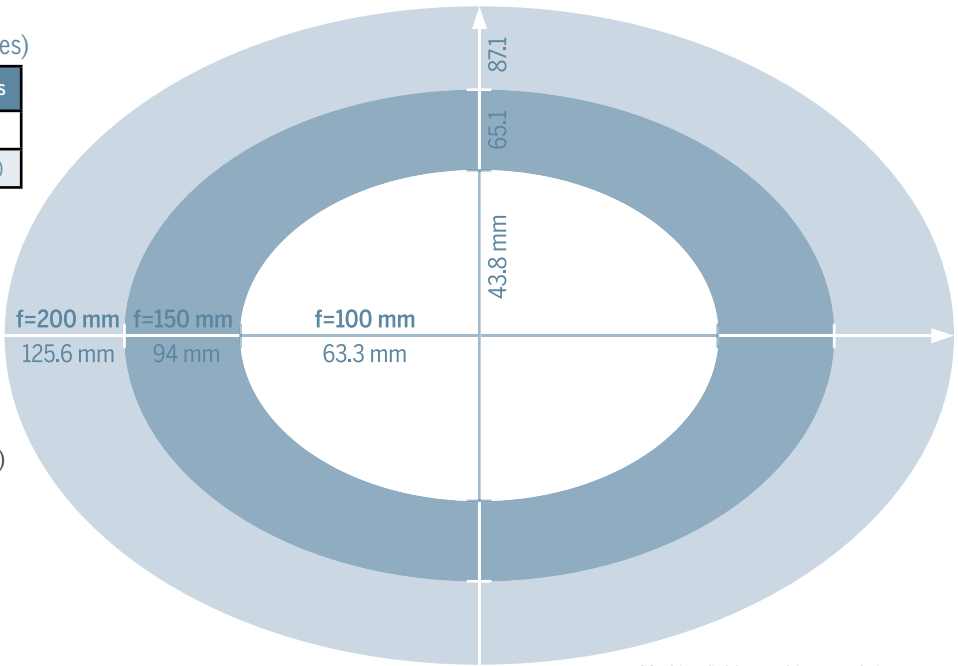
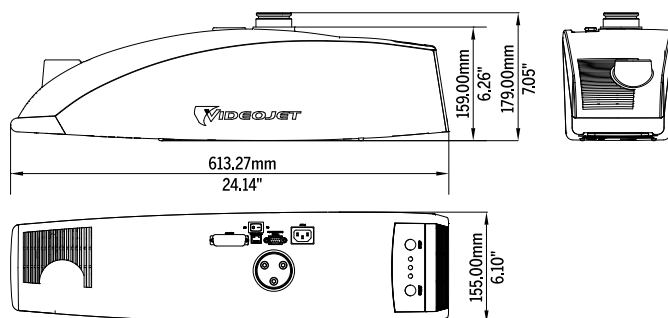
USB interface on touch-screen for data exchange; IP20

Configurable in English (US, UK), Chinese (simplified, traditional), Korean, Thai, Vietnamese, Spanish, Portuguese, Brazilian, Arabic, Danish, Dutch, German, French, Italian, Polish, Russian, Turkish

Built-in Keypad

Start and stop keys; LED indicators for status, laser emission, error

Marking Unit Dimensions



Marking fields graphic: actual size

SOFTWARE

Touch Control Software

Touch-screen user interface runs Windows® for preparation of marking jobs, line setup, print parameter setup and system configuration

Creation and editing of jobs; includes vertical/horizontal adjustment, rotation and scaling of marking contents and intensity variations

WYSIWYG

Various password-protected security levels

Communication

Inputs for encoder and product detector

Digital I/Os for start, stop, interlock, shutterlock, ready, error, shutter closed

SUPPLY

Electrical Requirements

100 to 120 V/200 to 240 V (autorange); 350 VA, 1 PH, 50/60 Hz

Environmental Protection

Dust protected; internally air-cooled

Ambient temperature: 5° to 40° C (41° to 104° F); up to 45° C (113° F) with reduced duty cycle

Humidity range: 10 - 90%, non-condensing

Sealing and Safety Standards

IP20; LASER CLASS 4 product (ACC. DIN EN 60825-1)

Approximate Weight

Marking unit: 7 kg (15 lbs.)

Applicable Certifications

CSA, ROHS, CE



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