Compact and versatile all-in-one solution

Excellent mark quality and wide application range

Quick start and simple operation

Videojet® 3020
Laser Marking System

VIDEOJET

VIDEOJET 3020

VIDEOJET®
Uptime Peace of Mind®

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 CO_2 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
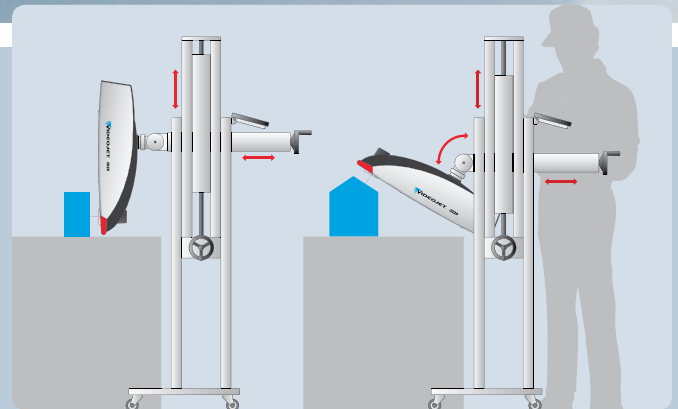
Versatile stand allows for a large range of installations (top, bottom, left, right, upside-down, etc.). Low weight allows for easy handling by a single operator.

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

Videojet® 3020
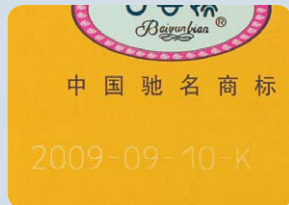*Laser Marking System*

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:
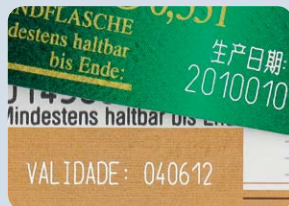color removal

PVC:
color change and engraving

Plastic bottle:
color removal

Paper Items

Paper cup:
carbonization, color change

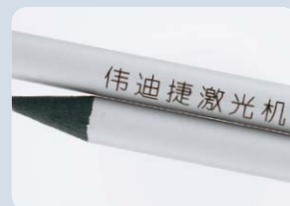Metalized beverage labels:
color removal

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.

Videojet® 3020
Laser Marking System

Laser. Ink Jet. Thermal Transfer. Labelers. Track & Trace. Supplies. Parts & Service.

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 CO_2 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

87.1
65.1
43.8 mm

f=200 mm | f=150 mm | f=100 mm
125.6 mm | 94 mm | 63.3 mm
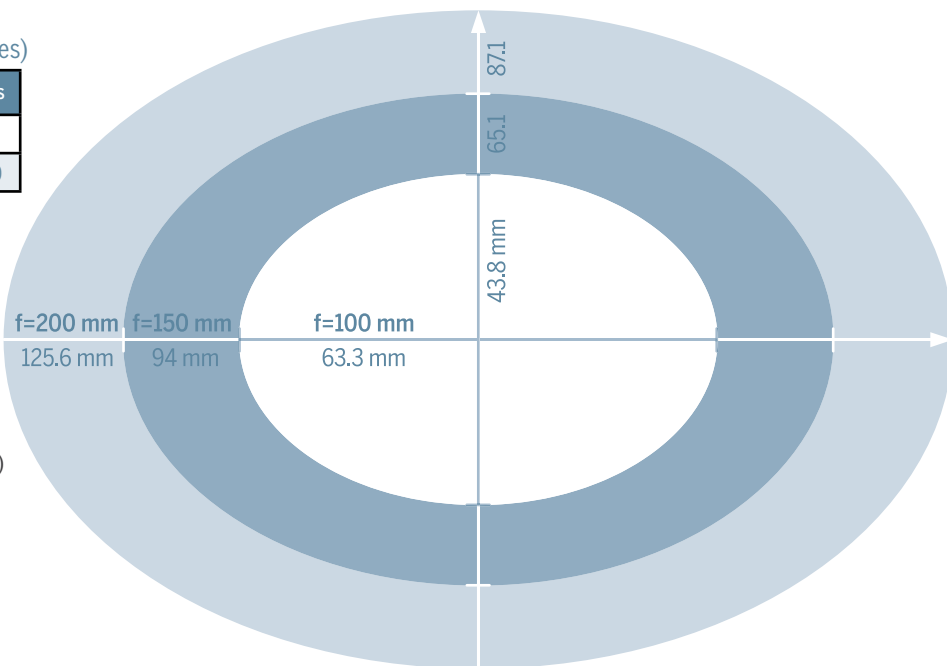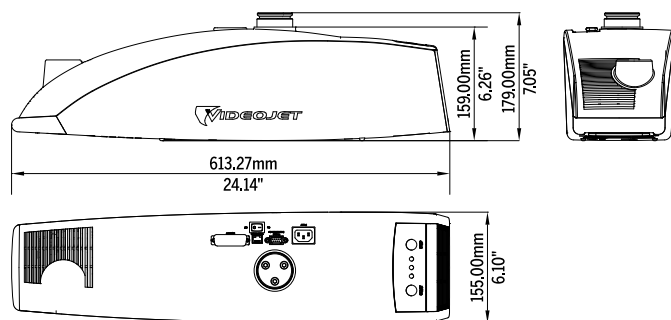
Marking fields graphic: actual size

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

159.00mm / 6.26" / 179.00mm / 7.05"

613.27mm
24.14"

155.00mm
6.10"

VIDEOJET®
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