



Laser marking system

Videojet® 3020

The 3020 10-Watt laser delivers excellent mark quality and is well-suited for a wide variety of consumer packaged goods and industrial applications.

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

The Videojet 3020 is specifically designed to meet simple coding applications across a wide range of substrates. It's fast and easy to set-up and operate, and flexible enough to accommodate changing production demands.



Uptime Advantage

- Scribing technology provides clear, high quality marks on both stationary and moving products
- Print speeds up to 500 characters/sec with a maximum line speed of 197ft/min (60m/min)
- Long-life laser tube provides years of reliable operation

Built-in productivity

- Average of 30 minutes for mechanical setup and 20 minutes for line changes to help 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
- Touchscreen user interface has built-in tools for code creation, job set-up and changeover, helping to reduce operator errors

Simple usability

- Single-box design helps enable fast installation and line changes
- Extra-large marking field helps enable accurate coding in multiple locations, for more content to be marked across a larger area
- Configurable in a variety of angles and heights with the adjustable mobile stand
- Setup wizard with simple menu structure and preview window allows for quick job creation and setting of print parameters

Videojet® 3020

Laser Marking System

Marking fields (see graphic for marking field sizes)

	Three focusing lenses		
Working distance/mm	100	163	254
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 3.26ft/sec. (1m/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

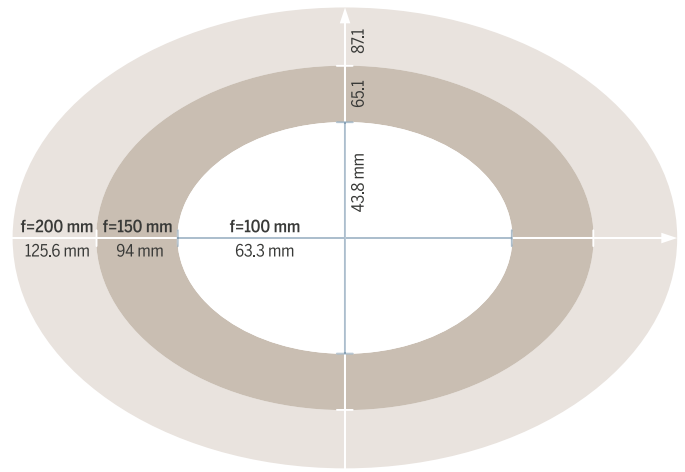
Built-in Keypad

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

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° - 40°C (41° - 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)

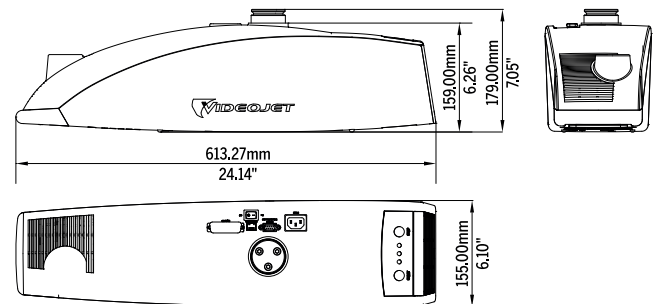
Approximate Weight

Marking unit: 7kg (15lbs.)

Applicable Certifications

CSA, ROHS, CE

Marking unit dimensions



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