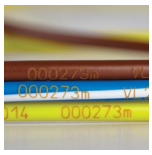


Laser Marking System

Videojet® 3330

The 3330 30-Watt laser offers a powerful combination of performance and flexibility delivering high quality marks on moderate to high speed lines.

High speed packaging operations that demand crisp, high quality codes can rely on the performance of the 3330.

With virtually no font, code or graphic restrictions and line speeds up to 900 m/min., the 3330 is an ideal solution for marking complex codes at high speeds in food, beverage, cosmetics, pharmaceutical and extrusion industries.

Through a diverse combination of marking heads, lenses and wavelength options, Videojet can deliver 21 spot size variations to match a broad range of marking effects.

Uptime Advantage

- Maximum performance and extended laser source life expectancy up to 45,000 hours through optimized total power output
- Air-cooled laser source virtually eliminates maintenance intervals
- Line set-up wizard aids fast product changeovers, eliminating set up trial and error and minimizing planned downtime*

Built-in productivity

- Large selection of mark window options offers optimally matched applications for faster marking
- On-screen diagnostics track causes of downtime and help troubleshooting to get the line back up and running quickly*
- High speed capability allows marking at 100,000 products per hour

Code Assurance

- Optional CLARiTY Laser Controller offers built-in software features that help reduce operator errors, to ensure products are coded correctly
- High quality, permanent codes help assure product traceability and tamper-proofing
- High resolution marking head delivers consistent, crisp codes

Simple usability

- Most flexible integration solution with 32 standard beam delivery options
- Quick set up and easy redeployment via detachable umbilical cable for easy routing on the line and simple-to-use accessory connections
- 4 interface options plus a choice of networking communications to match your preferred workflow

** With optional CLARiTY Laser Controller*

Videojet® 3330

Laser Marking System

Marking speed
Up to 1,300 characters/sec.[1]

Line speed
Up to 15 m/sec. (49 feet/sec.)[1]

Marking window
Approx. 25x20 mm to 485x351 mm

Wavelengths
10.6µm, 10.2µm and 9.3µm

Marking formats
Standard industrial fonts (Type 1 Windows® TrueType®) and Single line fonts
Machine readable codes (OCR, 2D-matrix, etc.)
Bar codes: BC25, BC251, BC39, BC128, GS1-128, EAN13, UPC_A, RSS14, RSS14 Truncated, RSS14 Stacked, RSS14 Stacked Omnidirectional, RSS Limited, RSS Expanded, etc.
Graphics, logos, symbols, etc.
Linear, circular, angular, reverse, rotate
Sequential and batch numbering
Automatic date, layer and time coding; real-time clock
Dot mode enables marking 2D codes faster than traditional grid mode

Laser tube
Sealed CO_2 laser, power class 30-Watt

Beam deflection
Steered beam with digital high-speed galvanometer scanners

Focusing
Focal lengths: 64/ 95/ 127/ 190/ 254 mm (2.5/ 3.75/ 5.0/ 7.5/ 10.0 inches); 63.5/ 85/ 100/ 150/ 200/ 300/ 351/ 400 mm (2.50/ 3.35/ 3.94/ 5.9/ 7.87/ 11.8/ 13.8/ 15.75 inches)

Multiple operator interface options
Handheld controller
PC software
CLARiTY® Laser Controller
Smart Graph Com

Language capabilities[2]
Arabic, Bulgarian, Czech, Danish, English, German, Greek, Finnish, French, Hebrew, Hungarian, Italian, Japanese, Korean, Dutch, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Simplified Chinese, Slovak, Spanish, Swedish, Thai, Traditional Chinese, Turkish, Vietnamese; interface dependent

Communication
Ethernet, TCP/IP and RS232 optional
Inputs for encoders and product detector triggers
3 inputs/ 7 outputs for start/ stop signals, machine/ operator interlocks, alarm outputs; with additional I/Os available
Customer-specific solutions available

Integration
Direct integration into complex production lines via scripting interface
Flexible beam delivery options (beam extension unit/ beam turning unit)
Detachable umbilical for simple integration; available in 3 lengths

Electrical requirements
100-240 VAC (autorange), ~50/60Hz, 1PH, 0.70KW

Cooling system
Air cooled

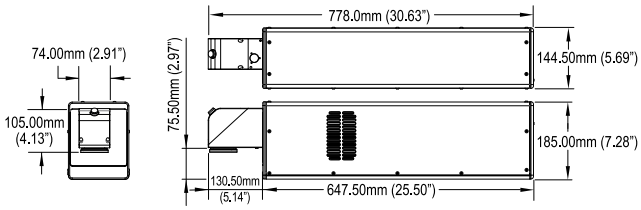
Environment
Temperature 40-105° F (5-40° C)
Humidity 10%-90%, non-condensing

Sealing and safety standards
Supply Unit: IP32, optional IP54 and IP65
Marking Unit: IP54, optional IP65
Optional safety module provides Performance Level d (PFL-d) in accordance to EN 13849-1
IEC/EN 60825-1:2007

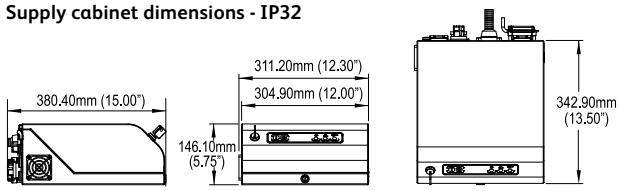
Approximate weight
Supply Unit (IP32/IP54): 16 lbs. (7 kg)
Marking Unit (IP54): 46lbs (20.9kg)

Applicable certifications
CE, TÜV/NRTL, FCC
Compliance (no certification required): ROHS, CDRH/FDA

Marking unit dimensions - IP54 with SHC60 marking head



Supply cabinet dimensions - IP32



[1] *Maximum marking and line speed is application dependent*

[2] *With optional CLARiTY Laser Controller*

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