Laser Marking System

Videojet® 3640 Pharma Line

Exceed current marking speed expectations on the production line with the Videojet 3640 Pharma Line laser marking system, engineered to process complex serialization codes at highest speeds, with the industry’s widest mark field.

Meet permanent coding needs today and in the future, with the high-speed capabilities of the Videojet 3640 Pharma Line CO₂ laser marking solution.

With print speeds of up to 2,100 characters per second and 150,000 products per hour, the 3640 Pharma Line is an ideal solution to help address highest speed serialization applications in the pharmaceutical and medical device industry.

With virtually no font, code or graphic restrictions, the 3640 Pharma Line meets all code standards of GS1, securPharm, HIBCC, and ICCBBA.

To facilitate GAMP® 5 compliance the 3640 Pharma Line comes with IQ and OQ documentation.

Uptime Advantage

- Optimized for high-speed and high-volume production lines
- Maximize printer availability with long-life, air-cooled laser sources
- Optional VideojetConnect Remote Service allows access to Videojet experts to help improve productivity and troubleshoot potential issues

Industrial Design

- Suitable for harsh environments where dust and humidity are a challenge and where the system is regularly washed down
- Available with an ingress protection level of IP65
- Designed for 24/7 operation

Code Assurance

- High-quality, permanent codes help assure product traceability and tamper-proofing
- High-resolution marking head delivers consistent, crisp codes
- Available in three wavelength options to best match substrate requirements for code superiority

Simple integration

- Compact, high-power laser marking system in the industry
- Easily integrate the laser marking system, even into production lines that have space limitations
- Widest marking field reduces the number of lasers that are required to cover multi-lane / wide web applications, reducing investment and running cost
- Comes with IQ and OQ documentation to facilitate GAMP® 5 compliance
**Videojet® 3640 Pharma Line**

**Laser Marking System**

**Marking speed**
Up to 2,100 characters/sec.\(^{(1)}\)

**Line speed**
Up to 15m/sec. (49ft/sec.)\(^{(1)}\)

**Marking window**
Approx. 30.8 x 38.2mm to 601.0 x 439.8mm\(^{2}\)

**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, BC25i, 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 60-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); 100/ 150/ 200/ 300/ 351 mm (3.9/ 5.9/ 7.9/ 11.8/ 13.8 inches); 400/ 500/ 600 mm (15.75/ 19.68/ 23.62 inches)

**Multiple operator interface options**
Handheld controller
PC software
TCS Touch Control 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. Additional languages available with Smart Graph software.

\(^{(1)}\) Maximum marking and line speed is application dependent

\(^{(2)}\) With optional CLARiTY™ Laser Controller

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**Communication**
Ethernet, TCP/IP and RS232 optional
Inputs for encoders and product detector triggers
16 inputs / 11 outputs for start/stop signals, machine/operator interlocks, alarm outputs; in addition to the safety circuits
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, 1.15kW

**Cooling system**
Air cooled

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

**Sealing and safety standards**
Supply Unit: IP54, optional IP65
Marking Unit: IP54, optional IP65
Optional safety module provides Performance Level d (PFL-d) in accordance to EN 13849-1
IEC/EN 60825-1:2014

**Approximate weight**
Supply unit: IP54/IP65 25.6 lbs. (11.5kg)
Marking unit: IP54 58.4 lbs. (26.5kg); IP54 59.5lbs. (27kg)

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

**INVISIBLE LASER RADIATION**
Avoid eye or skin exposure to direct or scattered radiation.
Max. power: 155 W
Wavelength: λ = 9-11 nm
Laser class 4
(EN 60825-1:2014)

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