High-speed 50-watt, flexible steered beam laser

- Exceptional code quality at high print speeds (up to 2,000 characters/sec.)
- Simple integration into almost any production line with an articulated arm and small remote head
- Lower maintenance and higher throughput, even in harsh manufacturing environments

The Videojet 3430 laser marking system provides best-in-class marking speeds and maximum production throughput with 50 watts of power. For example, PET bottles or labels can be coded at 72,000 per hour with marking speeds up to 2,000 characters per second, meeting the beverage industry’s demand for high throughput. And the Videojet 3430 system can also handle more demanding logo and graphics content, easily marking rubber, plastic and wood extrusions with high quality, permanent codes.

With an articulated arm and a small scanning head, the Videojet 3430 easily integrates into tight machinery and production lines. In the optional horizontal configuration, it can even be mounted above the machine – requiring no floor space. The Videojet 3430 is mobile, delivering production flexibility and increasing return on investment with the ability to code product in one location this week, then quickly and easily relocate the printer and set up coding on another production line the following week.

With the robustness to handle even severe manufacturing environments, the Videojet 3430 laser marking system is rugged and reliable. Its stainless steel enclosure is wash down rated (IP65) and its cooling system is completely self-contained, protecting the key components of laser operation and decreasing maintenance requirements.
### VIDEOJET

**MARKING FEATURES**

**Marking Speed**
- Up to 2,000 characters/sec. (application dependent)

**Line Speed**
- Up to 50 feet/sec. (15 m/sec.) (application dependent)

**Marking Field**
- Stationary products: max. approx. 3.4 x 3.5 inches² (84.4x87.3mm²) with 125mm lens; 5.4 x 5.6 inches² (135x139.6mm²) with 200mm lens; unlimited number of lines
- Moving products: max. height approx. 3.5 inches (87.3mm) with 125mm lens; 5.6 inches (139.6mm) with 200mm lens; length does not depend on width of marking field; unlimited number of lines

**Marking Formats**
- Standard fonts (Windows® TrueType®/TF; PostScript®/ PFA, PFB; Open Type®/ OTF)
- Individual fonts, such as high-speed or OCR
- Machine-readable codes: ID-Matrix (ECC100, 140, 200: 10x10 to 144x144 for square formats, 8x18 to 16x48 for non-square formats; ECC plain [free config. ECC code]); barcodes (EAN13/128; BC25/25i/39/39E/128; UPC_A; RSS14 truncated/ -stacked [CCA/B/ -stacked omnidirectional/ -limited [CCA/B/ expanded]
- Graphics and graphic components, logos, symbols, etc. (DXF, JPG, AI, etc.)

**Dimensions**

**Specifications**

- Linear, circular, angular text marking; rotation, reflection, expansion, compression of marking content
- Sequential and batch numbering
- Automatic date, time, shift coding, real-time clock
- On-line coding of individual data (weight, contents, etc.)

**LASER**

**Laser Tube**
- Single sealed CO2 laser, power class 50W

**Laser beam deflection**
- Digital high-speed galvanometer scanner

**Focusing**
- Precision lens system
- Precision optics: focal lengths 4.92/7.87 inches (125/200 mm)

**INTEGRATED INTERFACE**
- Graphic remote control via Ethernet for flexible operation
- Preparation of marking jobs, marking data entry
- System configuration
- Status and alarm display; key switch and e-stop switch
- Excellent legibility of graphic display; fast, intuitive operation

**SOFTWARE**

**Smart Graph**
- Graphical user interface under Windows® 2000/XP for intuitive and quick generation of complete marking jobs on external PCs
- System configuration
- Full feature text/data/graphics/parameter editor
- Languages: German, English, Chinese, Japanese, Russian, Arabic and many others; freely selectable
- Easy access to standard CAD and graphics programs by convenient import functions
- WYSIWYG
- Multiple security levels with configurable user rights, password protected

**Smart Graph Com**
- ActiveX software interface for integration into operating software

**Communication**
- Ethernet, TCP/IP; optional RS232
- Shaft encoder and product detector inputs
- 3 inputs/ 7 outputs for start/ stop signals, machine/ operator inter-locks, alarm outputs; with additional I/Os extensible
- Customer-specific solutions

**Integration**
- Direct integration into complex production lines via the laser’s scripting interface
- Integration via Ethernet (TCP and UDP) and RS232 interface
- Flexible integration options via articulated arm

**UTILITIES**

**Electrical Requirements**
- 100-120V or 200-240V, 47-63 Hz, 1PH, 1.8kVA

**Cooling System**
- Integral closed loop (water to air)

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

**Sealing and Safety Standards**
- IP65, LASER CLASS 4 product

**Weight**
- 297 lbs. (135 kg)

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