

LARGE CHARACTER MARKING

Videojet 320si

- Flexibility to print onto porous and non-porous materials
- Reliable printing in all industrial environments
- Versatile printing between ¼ and 1 inch high



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The Marsh 320si large character printer combines increased throw distance and precision drop placement with higher speeds, to deliver reliable coding and printing solutions for a wide variety of industrial applications. The Marsh 320si system features an advanced touch screen graphical user interface and modular and scalable hardware/software design for maximum flexibility.

Advanced Print Head Technology

The Marsh 320si printers new printhead combine advanced microvalve and slant head technologies to provide higher resolutions of up to 40dpi, precision drop placement and superior throw distance. These printheads are also rated to run at 200 feet per minute (60m/min) at 40 dpi resolution. The precision manufactured micro-valves are designed to run with both water based and fast dry solvent-based inks, providing maximum flexibility. The printheads are rated at IP54 to withstand extreme environmental conditions in a variety of customer applications. Slant technology enables one or two lines of print between 1/4 inch and 1 inch (6 and 24 mm) in height per print head.



Slant Technology

The Marsh 320si printer can print characters using fonts which are based on 7, 9, 12 and 16 drops. The slant technology also enables such characters to be printed in messages which are between 1/4 inch and 1 inch (6 and 24mm) in height. The micro-valves in this printer enable two lines of 7 drop high characters to be printed where other technologies only permit one line.



Throw Distance

The propriety valves in the Marsh 320si printhead operate at a higher frequency than those in printers with traditional technology, and the ink output at a much higher speed. This makes the printer more robust in changes to throw distance, so it can print messages at throw distance of up to 1.2 inches (30mm) or more, depending on line speed and substrate. Traditional technologies can handle throw distances of no more than 0.12 to 0.16 inches (3-4mm) before print quality degrades.

This insensitivity to throw distance enables the 320si printer to operate in applications where the substrate is irregular and when physical constraints limit close access to it.



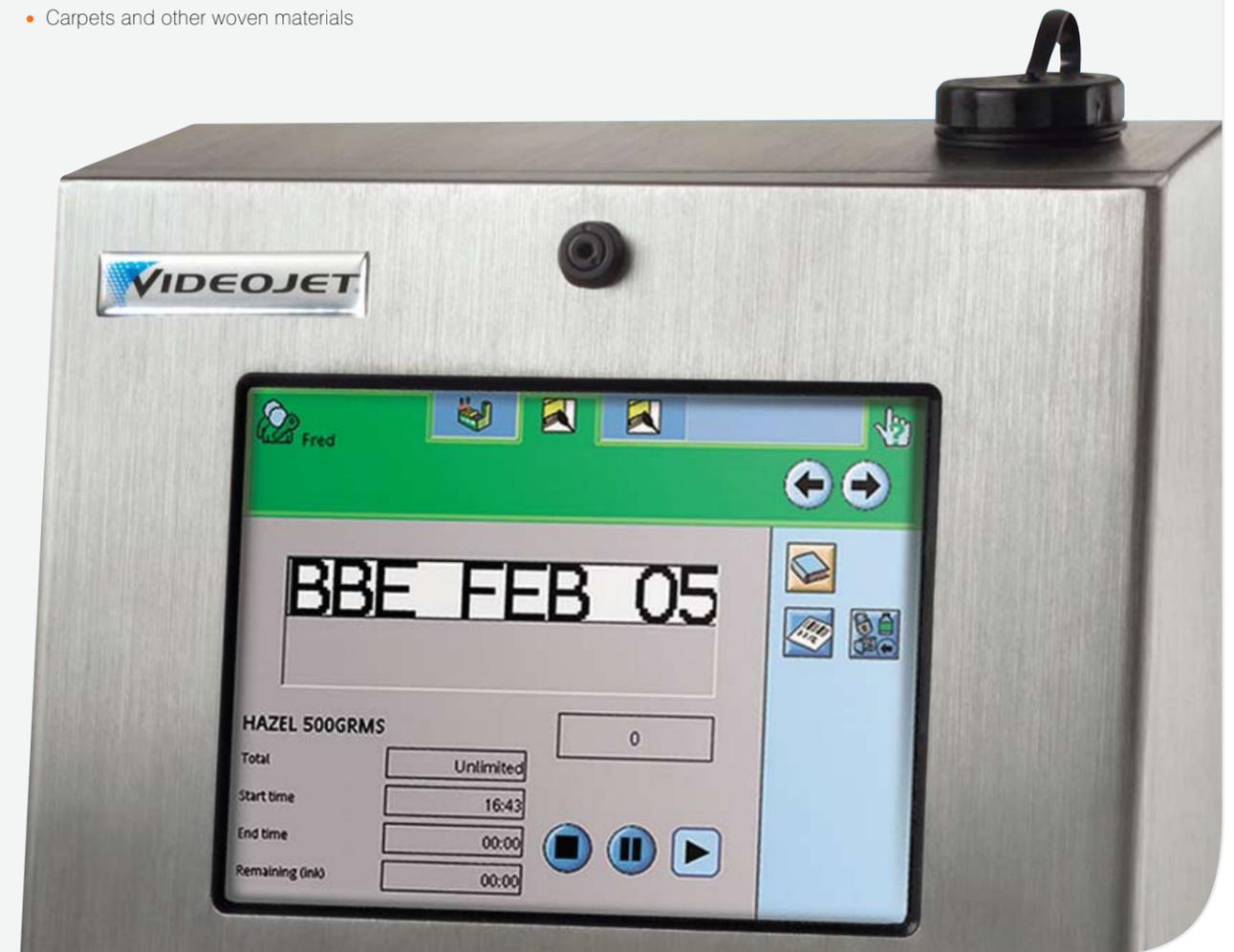
Modular Scalable Software

The Marsh 320si printer is designed to give the most flexibility to mix and match both hardware and software options. The controller is pre-programmed with multiple languages to allow individual users to pick their language. Multiple security levels can be programmed by users to have a variety of different access levels. The easy to use graphical interface reduces training time and maximizes up time

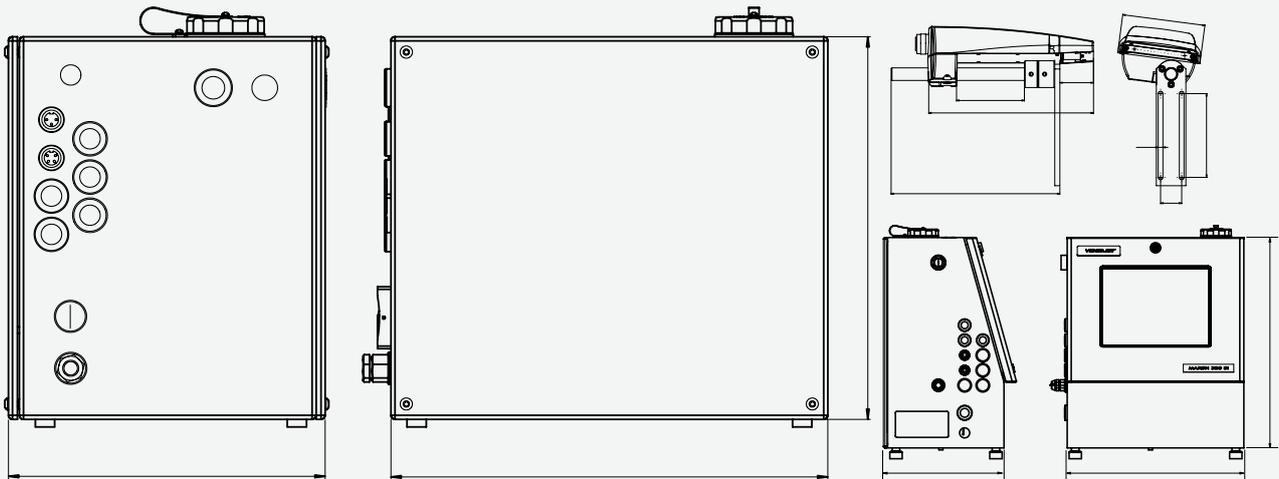
Typical Applications

The Marsh 320si system's higher print resolution, increased throw distance and variable print height enhance its performance significantly beyond the traditional applications of valvejet printers. The Marsh 320si printer can be used to print on:

- Corrugated cases and clay coated cartons
- Plastic/paper sacks for minerals and cement packaging
- Plastic/metal drums for chemical and petroleum products
- Rice, corn, wheat and other food grain and seed packages
- Products in piping and conduit extrusion and processing
- Flat rolled or coiled steel and metal products
- Carpets and other woven materials



VIDEOJET 320si



Print Specifications System Components

Printer

- IP-54 stainless steel industrial enclosure 19 cm (7.5") or 26.4 cm (10.4") touch-screen interface Supports 2 printheads per printer; optional dual tasking Ethernet networking connection

Print stations (optional)

- IP-54 stainless steel industrial enclosure Standard drive capability for 2 printheads Optional drive capability to support 2 additional printheads Photocell and shaft encoder connections 2 litre capacity pump driven ink system

Printhead

- Print resolution up to 40dpi Maximum line speed at optimum resolution Optimal throw distance 10 mm (0.4"); expandable up to 30 mm (1.2") IP54 16 channel printhead 3m (10-foot) umbilical length

Standard software

- Large character single line text up to 24 mm (0.96") Standard twin-line printing 4 font size choices: 7, 9, 12 and 16 dot high Regular and Julian dating Regular and military time Counters: consecutive counting (incrementing & decrementing)

Optional software modules

- A wide range of additional text, graphics and bar code modules are available

Electrical requirements

- Supply voltage: 110-230 VAC +/-15%
- Frequency: 50 Hz to 60 Hz
- Controller power consumption: 60 VA
- Print station power consumption: 150VA

PC Software Requirements (only needed when interfacing)

- Windows® 95, 98, NT, 2000, XP XP Pro Printhead Orientation

- Distance to print surface - no greater than 1.2" (30 mm)

- Firing directions - 360°

- Mounting - conveyor

Messages

Alphanumeric lines

- One or two lines per printhead

Print Heights

- 6mm to 24mm (0.24" to 0.96")

Storage

- 32 MB for message, font and graphics

Ink

Colours

- Black, blue and red

Capacity

- 2 litre ink reservoir; 1-liter ink bottle

Substrates

- Water-based and fast-dry solvent-based for both porous and non-porous substrates Warning output (24V PNP) Spare (24V PNP)

Environmental Limits

- Operating temperature 41°F to 113°F (5°C to 45°C)

Relative humidity

- 0 to 90% non-condensing

Ink consumption

- Typical ink consumption based on font and average drop size

Complete Customer Care

At Videojet we offer you a world leading after sales service. You have the opportunity to take maximum advantage of the full Videojet bundle of products and services to obtain superior product marking and coding with maximum equipment uptime. Our families of green, environmentally friendly fluids, have been helping customers meet and exceed their expectations and objectives for years. We can also provide inks with fewer or no volatile organic compounds (VOCs) enforcing our commitment to a greener code.



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