

We Build Confidence... *In Large Character Ink Jet Printing*

- Higher resolution – up to 40 dpi
- Flexibility to print on porous and non-porous materials
- Superior throw distance for reliable printing in all industrial environments
- Print height flexibility from slant technology for one or two lines of print between 1/4 and 1 inch in height per printhead
- Easy to use color touch screen with graphical interface



Get confident. Contact us today.

Versatile Large Character Printing

The Marsh[®] 320Si Large Character Ink Jet Printer

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.

Simple, easy-to-use graphical user interface



Touch-screen controller with 7.5" or 10.4" (19 or 26.4 cm) display

Printer with integrated electronics and pump system



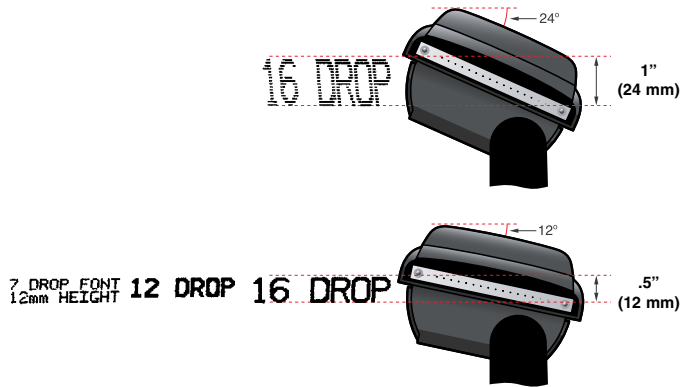
16-dot, revolutionary micro-valve printhead with slant head technology

Advanced Print Head Technology

The Marsh 320Si printer's new printheads combine advanced micro-valve and slant head technologies to provide higher resolutions of up to 40 dpi, precision drop placement and superior throw distance. These printheads are also rated to run at 200 feet per minute (60 m/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

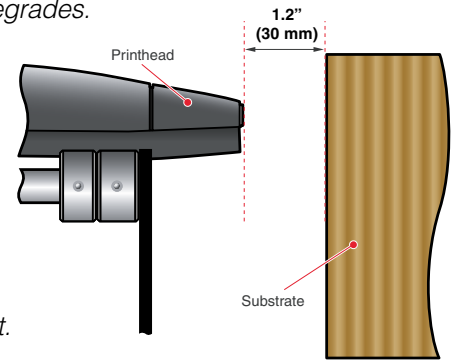
The Marsh 320Si printer can print characters using fonts which are based on 7, 9, 12 and 16 drops. The slant technology also enables such characters to be printed in messages which are between 1/4 inch and 1 inch (6 and 24 mm) in height. The micro-valves in this printer enable two lines of 7 drop high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



Throw Distance

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

This insensitivity to throw distance enables the Marsh 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 you 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. Built-in on-line help and the graphical user interface reduces training time and maximizes uptime.

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

