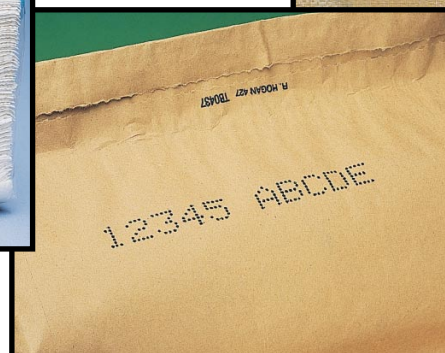
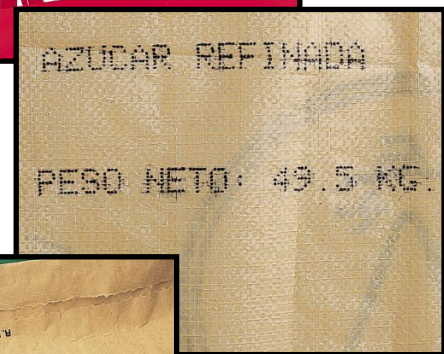


We Build Confidence... *In Large Character Ink Jet Printing*

- **Marks on both porous and non-porous surfaces**
- **Fast dry technology: standard 4-second dry times**
- **Dual tasking: can run up to two production lines**
- **Marks at conveyor speeds faster than 200 feet/min. (60 m/min.)**



Get confident. Contact us today.

System Overview



Code on to Hard-to-Mark, Non-Porous Surfaces with the Marsh LCP® / ML4 System

The LCP/ML4 system—with fast-dry (FD) inks and printheads, and specially-designed NEMA 12-rated ink pump assembly and controller—makes coding onto non-porous and porous surfaces simple, fast, clean and dependable.

Get clear, clean, smudge-free marks on virtually all products and packaging materials. Industries using metal, plastic, poly, woven poly, claycoat or any of the many other non-porous materials, save time and expense with the ML4 systems' high-speed application and standard **four-second** dry-time. This dry-time can be further accelerated by applying heat or air to the coded surface. The same system and inks make equally bold marks on porous surfaces with no system changes or adjustments.

As with all Marsh® LCP Systems, the ML4 system is durable and dependable. All electronics are encased in a NEMA 12-rated cabinet for complete protection from the working environment.

Specifications

LCP/ML4

BASIC SYSTEM:

Controller with hardware
Input Device (KID, LCP/ID, or terminal with RS232 port)
FD Series printheads
LCP/4FP bulk 5-gallon (18.9 liter) or FD Quart ink system

CHARACTER FONTS:

64 character ASCII set

ELECTRICAL REQUIREMENTS:

120 volts; 60 Hz
110/220 volts; 50/60 Hz
100 volts; 50 Hz

OPERATING ENVIRONMENT:

Temperature range: 40°F (4°C) to 130° (54.4°C)

OPTIONS AVAILABLE:

48K memory
Thumbwheel switches
Dual-tasking
Networking

LCP/4FP INK SYSTEMS

SYSTEM COMPONENTS:

4FP fire-proof pump assembly with 6' (1.83 m) attached power cord
Mounting hardware kit
Ink system cap assembly
Ink line kit

ADDITIONAL COMPONENTS:

5-gallon (18.9 liter) bulk ink

OPERATING ENVIRONMENT:

Temperature range: 40°F (4°C) to 130° (54.4°C)

ELECTRICAL REQUIREMENTS:

100/120 volts; 50/60 Hz or 220/240 volts; 50/60 Hz

INK:

LCP/FD inks - black, blue, red

FD QUART INK SYSTEM:

System Components:

FD Quart ink restraint
Harsh environment air module
Mounting hardware kit
Ink system cap assembly
Ink line kit

ADDITIONAL COMPONENTS:

Quart (.946 liter) ink bottles

FD PRINTHEADS

PRINT HEIGHTS:

713FD Series Printhead

7x5 matrix - single-line, 1/2" (13 mm) high
5x5 matrix - single-line, 3/8" (8.4 mm) high

720FD Series Printhead

7x5 matrix - single-line, 3/4" (19 mm) high
5x5 matrix - single-line, 1/2" (13 mm) high

1632FD Series Printhead

7x5 matrix - twin-line, ea. 1/2" (13 mm) high
5x5 matrix - twin-line, ea. 3/8" (8.4 mm) high
14x10 matrix - single-line, 1 1/8" (29 mm) high

1650FD Series Printhead

7x5 matrix - twin-line, ea. 3/4" (19 mm) high
5x5 matrix - single-line, 1/2" (13 mm) high
14x10 matrix - single-line, 1 11/16" (43 mm) high

APPLICATIONS:

The FD Series printheads are suitable for both absorbent and non-absorbent surfaces. They are particularly effective on very high speed conveyors and on tough-to-mark non-porous surfaces.

CONVEYOR LINE SPEEDS:

FD Printhead Series	Max. Line Speed
713	206 ft/min. (63 m/min.)
720	328 ft/min. (100 m/min.)
1632	206 ft/min. (63 m/min.)
1650	328 ft/min. (100 m/min.)

Shaft encoder required for variable speed, stop/start applications, and line speeds less than 20 ft/min. (6 m/min.).

INK:

Marsh LCP/FD inks (black, blue, red)

OPERATING ENVIRONMENT:

Temperature range: 40°F (4°C) to 130°F (54.4°C)



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800-843-3610 • www.videojet.com • info@videojet.com

Videojet Technologies Inc. • 1500 Mittel Boulevard
Wood Dale IL • 60191-1073 • USA
Phone: 630-860-7300 • Fax: 630-616-3623

For additional information, contact your local Marsh product distributor at: