

High resolution and dot matrix characters from one system

Dual tasking for printing on two production lines

Prints on both porous and semi-porous surfaces

## Marsh® PatrionPlus® Large Character Ink Jet Printer



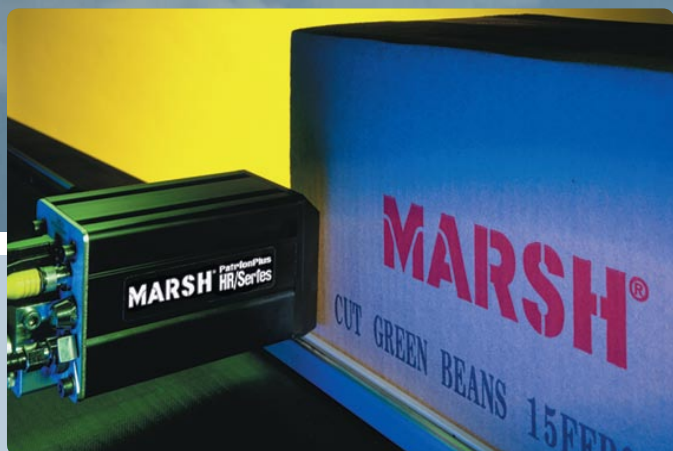
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Large character dot matrix or fully formed characters from one system.

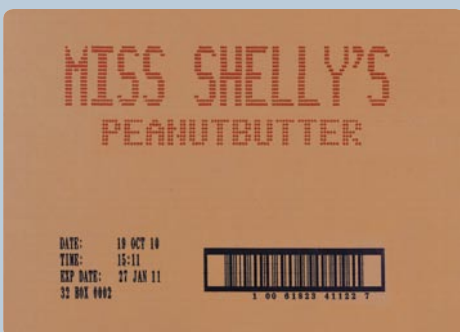
The Marsh PatrionPlus® large character printing system is more versatile, more functional and more adaptable than ever to meet your expanding needs. The advanced printer technology in this system has unique printhead flexibility that allows you to meet numerous production line applications with the versatility to print dot matrix or fully formed, high-resolution characters from one truly reliable system.



#### Most Flexible Controller Available

The Marsh PatrionPlus system is easy to install and even easier to operate. A typewriter-style keyboard and pop-up menus make it simple to learn, operate and program. What's more, this single controller operates both HR Series and Valve Jet printheads.

- Large, ergonomically correct keyboard is simple to use with large, easy-to-read LCD display that reduces the chance of error
- Menu-driven programming comes standard in eight languages, and additional languages are available
- Drives up to (16) printheads, with each printhead capable of printing up to three lines of text



**Marsh PatrionPlus®**  
Large Character Ink Jet Printer

## HR Series – High Resolution

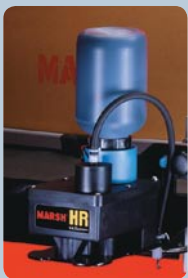


This reliable, Videojet-engineered advancement offers up to 2 inches (50 mm) print height for high-resolution characters. The heart of the HR printhead is

the piezo print engine that delivers 150 vertical DPI fully formed characters and enhanced legibility.

- Print large, sharp text and serialized numbers, logos and bar codes
- Compact size of HR printhead fits more production lines and allows for more applications
- Quick, clear printing up to 200 feet/min. (61 mpm) and a 1/4" (7 mm) throw distance
- Low maintenance from no moving parts

## Series 2000: Ingenious, Foolproof



This Videojet innovation is specifically formulated for smooth operation with HR Series printheads. A patented, color-keyed cap system reduces the chance of replacing the 17 ounce (500 ml) bottle with the wrong ink.

- Bottle features patented no-mess design that prevents ink spillage
- Eliminates mistakes and makes ink changeover easier than ever

## Valve Jet – Dot Matrix Flexibility



Optimize the most basic printing needs with this reliable large character, dot matrix printhead. It is versatile, too, with 7-dot and 16-dot versions.

- Multiple fonts for flexibility, with upper/lower case for better legibility
- Easy to install and adjust with a simple tube-and-handle assembly
- Fast, efficient printing at up to 200 feet/min. (61 mpm)

## The Versatile Marsh ADS Ink System

The ADS ink system is designed exclusively for Videojet printheads. At its heart are trouble-free inks for both porous and non-porous substrates.

- Flexible, 5-gallon, air-driven system utilizing plant air
- Features reliability and simplicity the PatrionPlus is known for



### System Components

#### Controller

RS-232 Interface compatible

#### Printhead

High Resolution or Valve Jet (see below)

#### Ink System (HR)

Capillary feed 13oz./382 ml reservoir

#### Ink System (VJ)

Marsh ADS System

#### Photocell

External Diffuse and Retroflective Beam

#### Input Device

QWERTY-style keypad integral to the Controller

#### Cabinetry

NEMA 12/IP 51 stainless steel option

### System Operation

#### Electrical Requirements

Operable on 50 Hz or 60Hz 100 VAC through 240 VAC

#### Printhead Operation: (HR)-High Resolution

##### Print Speed

20 to 200 fpm (6 to 61 mpm)

##### Character Height

0.25" (6 mm) to 2.0" (50 mm)

##### Fonts

Roman Fixed Width, logos, bar codes, and special characters.

#### Printhead Operation: (VJ)-Valve Jet

##### Print Speed

20 to 200 fpm (6 to 61 mpm)

##### Character Height

3/8" (10 mm) to 2.0" (50 mm) dependent upon printhead selected

##### Fonts

5x5, 7x5, 9x7, 14x10; 16x12 uppercase in 16 dot; 16x12 lowercase

### Printhead Orientation

#### Distance to Print Surface

Not greater than 0.25" (6 mm)

#### Firing Directions

360°

#### Mounting

Conveyor or floorstand

### Messages

#### Alphanumeric Lines

1- 4 per printhead, dependent upon font and printhead

#### Font

64-Character ASCII set plus special and accented characters

#### Ink Series 2000: (HR)-High Resolution

##### Colors

Black, Red, Blue, Green

##### Capacity

13oz. (382 ml) ink reservoir; 17oz. (500 ml) bottle

##### Surfaces

Porous only

#### Ink Series: (VJ)-Valve Jet

##### Colors

Black, Red, Green, Blue, Violet, Orange, Brown, Yellow, Ultraviolet

##### Consumption

600,000 character/quart

##### Capacity

5 gallons/18.9 liters

##### Surfaces

Porous and non-porous

### Environmental Limits

#### Operating Conditions

Any normal, non-condensing or harsh environment with a temperature range of 40° F to 120° F (4.4° C to 49° C)



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