

**EVOLUTION I INK JET PRINTER  
for Porous Surfaces**



**EVOLUTION I  
INK JET PRINTER**

The **Evolution I** is a high resolution, large character ink jet printer. This compact system is powered with reliable printhead technology by Hewlett Packard at a price competitive with contact coders. This printer delivers bold, highly legible and fully formed characters at production line speeds of up to 200 feet per minute in a print resolution of 300 dpi.

The **Evolution I** system comes equipped with an Arial font style in two character heights, 1/2" and 7/32". Print a one line message in 1/2" characters or two lines of text with the 7/32" high characters. Selecting the character size is accomplished through the font key on the hand held controller. The hand held controller has the capability of controlling up to 32 individual print head modules.



**HAND HELD  
CONTROLLER**



**INK  
CARTRIDGE**

**Approximate Yield Per Ink Cartridge:**

- 1/2" high characters yield 450,000.
- 7/32" high characters yield 2.1 million.
- \* • 1/8" high characters yield 5.6 million.
- \* • 3/32" high characters yield 8.6 million.

\*1/8" & 3/32" high characters are alternate fonts and are available through Flash Card Media.

**Technical Specifications**

**Standard Operating Features**

Alpha/Numeric character set plus special characters.  
Ability to control up to 32 print heads via RS 485.  
Bracketry capable of mounting up to 4 print heads.

Character Height & Message Length:  
1/2" (12.7mm) - One line of 24 characters  
7/32" (5.5mm) - Two lines of 48 characters

Programmable line speed, print direction, print delay,  
Inter-character spacing & inverted printing  
Multiple language prompts: English and Spanish.

**Physical Dimensions**

Controller: 4.125" Wide x 8.750" Long x 1.500" Deep  
Print Head Module: 2" W x 3" H x 4" Deep

**Environmental**

50F - 104F (10C - 40C)  
Up to 80% RH non-condensing

**Ink Supply**

Cartridge Volume: 42cc  
Low ink monitoring.  
Colors: Black, Dark Blue, Cyan, Red, Green and Yellow.

**Production Speed & Resolution**

300 DPI at 200 feet (61m) per minute.

**Power Required**

110-240 VAC, 50-60Hz 0.5A

Authorized **EVOLUTION** Distributor:

**Universal Stenciling & Marking Systems, Inc.**

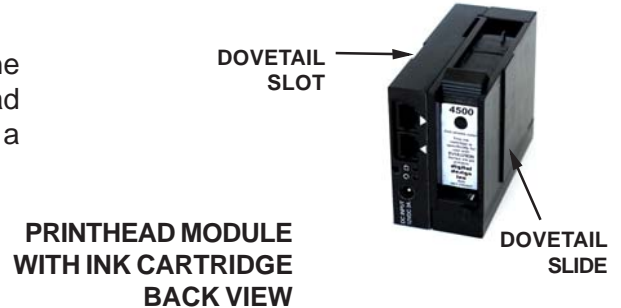
P.O. Box 871 - St. Petersburg, FL 33731 - U.S.A.

Ph: (727) 894-3027 Fax: (727) 821-7944 - E-Mail: sales@universal-marking.com Website: www.universal-marking.com

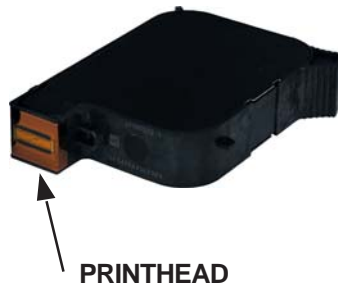
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**Print Head Module**

Each print head module is manufactured with a dovetail slot on one side and a dovetail slide on the other so to add another print head just slide them together. You can attach up to 4 print heads on a single bracket.



A RS 485 data cable is used to connect the print head modules on the same production line while a longer cable connects them to the next production line in the manufacturing area. This allows the hand held controller to network all of the print heads on the production line. The print head modules have a discreet address to identify them for message entry functions so they can operate as a group or each one can operate independently.



The print head is an integral part of the ink cartridge so no print heads to clean. When you replace the ink cartridge you are also replacing the print head keeping the system running like new without maintenance down time and costly field service. Simply remove the depleted ink cartridge and replace it with a new one in just seconds. One ink cartridge holds 42 cc's of ink with a print resolution of 300 DPI. Inks are available in a variety of colors including Black, Dark Blue, Cyan, Green, Red, and Yellow.

**Breakaway Feature**

The horizontal adjusting rod that holds the print head module has been designed with a “**breakaway**” feature. If a carton moving down a typical conveyor or case taper comes through skewed or off center, the adjusting rod is designed to move the print head out of harms way should the carton come in contact with it. A detent in the assembly allows you to securely snap the print head back into position after the misaligned carton has past.

The **EVOLUTION I** system comes with the mounting bracketry, a hand held controller with tactile keypad for message entry and the print head module with internal product sensor for side coding applications. The ink cartridges are sold seperately.

The **EVOLUTION I** can be easily customized to fit each individual users requirements. Font styles, character heights (different than the standard sizes), and logos can be supplied and easily added with optional data flash cards. Software which can expand the standard operating parameters of the Evolution printer are also available as options on data flash cards.

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