



Professional Packaging Systems

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Evolution EV II High-Resolution Ink Jet Printer



At a Glance

- Low-cost case-printing solution
- Complete high-resolution printing system includes mounting bracketry, hand-held controller, printhead module with product sensor and power supply
- One line message of 1/2 inch, two lines of 7/32 inch, three lines of 1/8 inch, or four lines of 3/32 characters
- Print simple product identification, date, time, and sequential numbering, eight of the most common barcodes, and logos and graphics

Buy your [printer ink](#) from us, and get a discount on this Evolution printer!

Pricing

Call us at 888-318-0083

Many options are available. Complete details will need to be finalized to determine requirements and final system costs. Work with your Pro Pac representative to build this machine to your specifications.

Low-Cost High-Resolution Printer for Lot, Date, or Product Codes & Barcodes

As with the EV I, the EV II is delivered as the lowest total cost of ownership of any competitive ink jet printing system available. The EV II is complete and ready to install right out of the box. The system includes a hand-held backlit WYSIWYG controller, printhead module with built in product sensor and a flash card reader, complete software package, mounting bracketry, and power supply.

The Evolution EV II has a printing range from simple product identification to date, time, and sequential numbering; to eight of the most common barcode symbologies; to logos and graphics - all in a compact, simple to use high-resolution ink jet printer.

Benefits

Inkjet Technology by Hewlett Packard

Designed by Digital Design, the Evolution EV II is powered with ink jet technology by Hewlett Packard. This combination gives you the benefits of an affordable, compact, and efficient design coupled with the reliability of printhead technology by Hewlett Packard.

Optimum Print Resolution

Evolution EV II delivers bold, highly legible and fully formed characters in a print resolution of 300 dpi at production line speed of up to 200 feet per minute.

Print up to Four Lines of Text

Print a one line message in 1/2" characters, two lines of text in 7/32" high characters, three lines of 1/8" or

four lines of 3/32". All four character heights are selectable through the font key on the hand-held controller.

Standard Barcodes Included

Interleaved 2 of 5, Code 39, UPC-A, UPC-E, 128 B, 128 C, EAN 8, EAN 13

Ink Supply

Built into the printhead is a 42cc ink reservoir. Once the ink in the cartridge is depleted, it can be taken out, disposed of and a new ink cartridge inserted in just minutes.

Breakaway Printhead Protection

A typical powered conveyor or case taper corrugated cartons can sometimes come through skewed or off center. The horizontal adjusting rod that holds the printhead module has been designed with a breakaway feature that moves the printhead out of harms way should the carton come in contact with it. A detent in the assembly allows you to securely snap the printhead back into position after the misaligned carton has past.

Add-On Printheads

Adding another printhead is as simple as sliding it on. Each printhead module is manufactured with a dovetail slot on one side and a dovetail slide on the other. You can attach up to three additional printheads on a single bracket by inserting the slide on one into the slot on the other. A small RS 485 data cable is then used to connect the modules. This allows the hand-held controller to network all of the printheads on the production line.

Customized

Evolution EV II is supplied with a built in font style. Optional alternative fonts are available and can be downloaded into the printhead modules through flash card media. Logos are another option, and up to 3 can be downloaded into the message via the data flash card.

Networking Capabilities

The hand-held controller has the capability of controlling up to 32 individual printhead modules through the use of a RS 485 data cable. A small data cable is used to connect the modules on the same production line while a longer cable connects them to the next production line in the manufacturing area. The printhead modules have a discreet address which is used to identify them for message entry functions. Complete PC control of the Evolution EV II network through our Evolution-Net software is available as an option.

Please [contact Pro Pac](#) or call 888-318-0083 for your printing and date-coding equipment.

Complete Standard System Includes

Handheld Controller

For entering messages, system configuration, and displaying data from the printhead

One serial RS485 port for communication with the printhead

Backlit WYSIWYG 4 line x 16 character LCD display

Alpha/numeric tactile keypad for message entry

Message Storage: Up to 100 messages in controller

Printhead Module

Alpha/Numeric character set plus special characters

Standard Character Style: Arial

One Line Message: 48 ASCII characters of 1/2" (12.7mm) height
Two Line Message: 96 ASCII characters of 7/32" (5.5mm) height (24 per line)
Three Line Message: 144 ASCII characters of 1/8" (3.2mm) height (24 per line)
Four Line Message: 192 ASCII characters of 3/32" (2.4mm) height (24 per line)
Print Resolution: 300dpi at 200 feet (61m) per minute
Internal product sensor for side coding applications
Two Serial RS485 ports for communication with the controller and any other external device
Flash card reader for optional software, optional fonts, and logos download
Bracketry capable of mounting up to 4 printheads
Dovetail slot/slide for add-on printheads
Distance between the printhead and substrate up to 1/4" (6.4 mm)
Storage and print logos and barcodes in bitmap(.bmp) file format
Standard software includes programmable: line speed, print direction, print delay, inter-character spacing, message orientation, automatic message repeat, lot counter/sequential numbering, shift coding, date offset, product counter, variable time and date formats, password protection
Multiple language prompts: English, Spanish
Embedded EVP (Evolution Communication Protocol) for OEM and Systems Integration

Add-On Printhead

Includes printhead module, 7-inch communication cable, and power supply.
Used when additional lines of text or product information needs to be printed on the carton or product. The printhead module simply slides on the the existing printhead using the dovetail slide and slot on the sides.
A set screw locks the printhead modules into position.
Up to four printheads modules can be mounted onto a single mounting bracket.
The 7-inch communication cable is inserted into the appropriate port on the printhead to allow communication with the controller.

Add-On Printhead with Bracket

Includes printhead module, power supply, and mounting bracket assembly.
Used when product information needs to be printed on the opposite side of the carton.
Also used on additional production lines within the manufacturing facility.
A communication cable of the appropriate length must be ordered separately if connecting the additional printhead modules onto a network of Evolution printers.

Hardware Options

Add-on high-resolution printhead modules
Spring loaded carton follower
Top coding bracketry
Floor stand
External product sensor
External encoder

Software Options

Alternative fonts: Downloadable via custom programmed flash card media.
Logos: Ability to load up to 3 logos into the message downloadable via flash card media.
Barcodes: Additional barcodes such a data matrix can be supplied as options and downloaded via the

flash card media.

Evolution-Net software for PC control of network.

Specifications

Production Speed

Up to 200 feet (61m) per minute

Ink Supply

Cartridge volume: 42cc

Porous Colors: Black, Blue, Red, Green, Yellow, UV Visible

Semi-Porous Colors: Black, Blue, Red

Low ink monitoring

Power Required

110-240 VAC, 50-60Hz, 0.5A

Environmental

50F - 104F (10C - 40C)

Up to 80% RH non-condensing

Physical Dimensions

Controller: 4.125" wide x 8.750" long x 1.500" deep

Printhead module: 2" wide x 4" deep x 3" high

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Standard and Available Fonts for the EV II

	1/2"	7/16"	3/8"	7/32"	3/16"	5/32"	1/8"	3/32"2.4 mm
Font Heights	12.7 mm 36 pt	11 mm 31.5 pt	9.5 mm 27 pt	5.6 mm 15.75 pt	4.8 mm 13.5 pt	4 mm 11.25 pt	3.2 mm 9 pt	6.75 pt
Arial	Standard	n/a	Available	Standard	n/a	Available	Standard	Available
Outline	Available	n/a	n/a	n/a	n/a	n/a	Available	n/a
Tahoma	Available	n/a	Available	Available	Available	n/a	Available	Available
Swiss	Available	Available	n/a	Available	n/a	Available	Available	Available