EVOLUTION III ™

Ink Jet Printer Series

EVOLUTION III takes High Resolution Ink Jet Printing to the next level. It features a 7 inch full color touch screen controller combined with a complete software package and the ability to print up to one inch high alpha/numeric characters as well as barcodes and graphics up to two inches in height. It includes a variety of font styles and sizes which can be used in a total print area of 2 inches high by 24 inches in length.

EVOLUTION III system with 4 printheads.

A Complete System
EVOLUTION III is complete and ready to install right out of the box. The system includes a full color touch screen controller with stylus for message entry, one printhead module with internal product sensor, power supply for up to four printheads, and the mounting bracketry.

Thermal Inkjet Technology by Hewlett Packard
Designed by Digital Design, the EVOLUTION III is powered with thermal ink jet technology (TIJ) 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 III 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.

Customized Print Area
Stitching four of the EVOLUTION III printheads gives you a total print area of 2" high by 24" long. Text, graphics and barcodes can be printed in any combination of font styles and character heights that are resident in the Evolution III controller.

Positioning of the text or graphics is easily accomplished by touching the screen with the stylus and creating either a text box or graphics area.

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

Add-On Printheads
The EVOLUTION III is capable of controlling up to 8 printheads, with 4 on each side of the production line. The 4 printheads on the opposite of the line can only print the same message as those on the primary side. Each side of the production line will require a power supply and mounting bracket. One printhead module, mounting bracket and one power supply is included with the initial printer.

Adding another printhead is as simple as sliding it on. You can attach up to three additional printheads on a single bracket by inserting the dovetail slide on one into the dovetail slot on the other. Once the printheads are attached to one another, the optional printhead alignment tool can be used to align the printheads for stitching applications. A small RS 485 data cable is then used to connect the modules. This allows the touch screen controller to network all of the printheads on the production line.

Font Styles Character Heights and Graphics
EVOLUTION III is supplied with four built in font styles. Optional alternative fonts are available and can be downloaded into the controller through flash card media.

Logos are another option, and up to 6 can be stored in the controller. Logos can be printed up to 2" in height.

There are 12 built in barcode symbologies included and can be printed up to 2" high, The barcode software in the controller allows you to set the quiet zone, bar width, interbar spacing, human readable information and more.

Up to 3 different barcodes can be printed within the same message.

Technical Specifications

Complete Standard System Includes:
A 7 inch full color touch screen controller with stylus for message entry. One high resolution printhead module with power supply, Internal product sensor and complete mounting bracket for side coding applications.

Standard Operating Features
Alpha/Numeric character set plus special characters
Ability to control up to 8 printheads (4 on each side of production line)
Bracketry capable of mounting up to 4 printheads
Print Resolution: 300dpi at 200 feet (61m) per minute
Font Styles: Arial, Swiss, Tahoma and Outline
Character Heights: 3/32" (2.4mm), 1/8" (3.2mm)
                    7/32" (5.5mm), 1/2" (12.7mm)
                    5/8" (15.9mm), 1" (25.4mm)
Message Area: 2" (50.8mm) high X 24" (609.6mm) long
Message Storage: Up to 325 messages in Controller
Message Backup via Data Flash Card
Multiple font styles and character heights in message
Programmable line speed
Programmable print direction
Programmable print delay
Inter-character spacing
Inverted printing
Automatic message repeat
Password protection
Variable time formats
Variable date formats
Sequential numbering
Shift coding
Date offset
Product counter
Flash Card read/write ability in Controller for Message Backup, System Upgrades, downloads of optional fonts, logos and barcodes
One Serial RS 485 port and one Serial RS232 port, for communications to support OEM's and System Integrators
USB Port
Multiple language prompts: English, Spanish

Ink Supply
Cartridge volume: 42ml
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

Production Speed
Up to 200 feet (61m) per minute @ 300dpi

Physical Dimensions
Controller: 7.250" wide x 4.625" high x 1.312" deep
Printhead module: 2" wide x 4" deep x 3" high

Standard Barcodes Included

I 2 of 5	Code 39
UPC-A	UPC-E
128 B	128 C
EAN 8	EAN 13
GS 1B	GS 1C
ITF 14	2D Data Matrix

Hardware Options
Add-on High Resolution printhead modules
Mounting Bracket for opposite side of production line
Power Supply for opposite side of production line
Spring loaded carton follower (for up to 2 printheads in a non-stitching mode)
Top coding bracketry
Floor stand (for up to 2 printheads in a non-stitching mode)
External product sensor
External encoder
External low ink beacon
Ethernet Communication for linking to a host computer
8MB Data Flash Card for Logos and Message Storage Backup

Software Options
Alternative fonts: Downloadable via custom programmed
                    flash card media
Logos: Ability to load up to 6 logos into the message
        Downloadable via flash card media
        Logos must be made to specific height required
Barcodes: Additional barcodes can be supplied as options
Evolution III Logo Download package to transfer logos, from a PC to the controller or to a Data Flash Card
EVOLUTION-NET software for PC control of network (not yet available)

Authorized EVOLUTION Distributor:

inkjet technology by **hp** invent

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