

EVOLUTION IV

High Resolution Ink Jet Printer

EVOLUTION IV takes High Resolution Ink Jet Printing to the next level. It features a 4.3 inch color touch screen controller **TSC** 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. It includes a variety of font styles and sizes which can be used in a total print area of 1 inch high by 24 inches in length.

EVOLUTION IV is complete and ready to install right out of the box. The system includes a color touch screen controller with stylus for message entry, one print head module with internal product sensor, power supply, and mounting bracket.

Digital Design

Designed by Digital Design, the **EVOLUTION IV** is powered with thermal ink jet technology (TIJ). Using the **EVOLUTION** gives you the benefits of an affordable, compact, and efficient design coupled with the reliability of print head TIJ technology.

EVOLUTION IV delivers bold, highly legible and fully formed characters in a print resolution of 300 dpi at production line speed of up to 150 feet per minute.

The **EVOLUTION IV** print head gives you a total print area of 1" 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 TSC** controller.



Built into the cartridge is a 128 ml 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.



EVOLUTION IV system .

The **EVOLUTION IV** is capable of adapting to existing **EVOLUTION** systems, controlled with existing controllers. Additional units may be added on to the existing bracket for larger print area requirements. Add on print heads are available with or without brackets for mounting on the opposite of the line. Each side of the production line will require a power supply and mounting bracket. One print head module, mounting bracket and one power supply is included with the initial printer.



Adding another print head is as simple as sliding it on. You can attach an additional print heads on a single bracket by inserting the dovetail slide on one into the dovetail slot on the other. Once the print heads are attached to one another a small RS 485 data cable is then used to connect the modules. This allows the touch screen controller to network all of the print heads on the production line.

EVOLUTION IV is supplied with four built in font sizes. 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 1" in height.

There are 12 built in barcode symbologies included and can be printed up to 1" high, The barcode software in the controller allows you to set the quiet zone, bar width, inter-bar spacing, human readable information and more.



Technical Specifications

A 4.3 inch color touch screen controller with stylus for message entry. One high resolution print head module with power supply, internal product sensor and complete mounting bracket for side coding applications.

Alpha/Numeric character set plus special characters
Bracket capable of mounting up to 2 print heads
Print Resolution: 300 dpi up to 110 feet (33.5m) per minute
Font Styles: Arial, (optional) Swiss, Tahoma and Outline
Character Heights: 7/32" (5.5 mm), 10/32" (7.9 mm)
15/32" (11.9 mm), 1" (25.4 mm)

Message Area: 1" (25.4 mm) high X 24" (609.6 mm) long

Message Storage: Up to 200 messages in Controller

Message Backup via Data Flash Card

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

Serial RS 485 port for communications to support OEM's and System Integrators

USB Port on Touch Screen Controller for message selection

Multiple language prompts: English, Spanish, German, French

Cartridge volume: 128 ml

Porous Colors: Black (Blue, Red, Green, Cyan, Yellow, and UV Visible TBD)

Semi-Porous Colors: (Black, Blue, Red, Green TBD)

Non-Porous colors: (Black TBD)

Low ink monitoring

110-240 VAC, 50-60 Hz 1.7A

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

Up to 80% RH non-condensing

Up to 110 feet (33.5 m) per minute @ 300 dpi

Controller: 4.00" wide x 3.500" high x 1.000" deep

Print head module: 3.5" wide x 4" deep x 3" high

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Code 39

UPC-A

UPC-E

128 B

128 C

EAN 8

EAN 13

GS 1B

GS 1C

ITF 14

2D Data Matrix

Add-on High Resolution print head 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 print heads in a non-stitching mode)

Top coding bracket

Floor stand (for up to 2 print heads in a non-stitching mode)

External product sensor

External encoder

External low ink beacon

4MB Data Flash Card for Logos and Message Backup

Alternative fonts: Downloadable via custom programmed flash card media

Logos: Ability to load up to 3 logos into a message

Downloadable via flash card media

Logos must be made to specific height required

Barcodes: Additional barcodes can be supplied as options

Evolution 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

EVOLUTION