

# EVOLUTION IV<sup>TM</sup>

## Ink Jet Printer Series

High Resolution  
Ink Jet Printer

New

LARGE or SMALL Character Printer • Lower Ink Cost

**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 4 font sizes which can be used in a total print area of 1 inch high by 48 characters in length. The system is capable of printing 1, 2, 3 or 4 lines

### A Complete System

**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.

### Thermal Inkjet Technology by digital design

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

### Optimum Print Resolution

**EVOLUTION IV** delivers bold, highly legible and fully formed characters in a print resolution of 300 dpi at production line speed of up to 110 feet per minute.

### Customized Print Area

The **EVOLUTION IV** print head gives you a total print area of 1" high. Text, graphics and barcodes can be printed in a variety of font heights in the font style that is resident in the **EVOLUTION TSC** controller. Various font styles are available as options



### Ink Supply

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.

A single cartridge using the standard installed font can produce approximately 302,000 1" characters (25,000 twelve character messages).



EVOLUTION IV system .

### Add-On Print heads

The **EVOLUTION IV** is capable of adapting to existing **EVOLUTION** systems, controlled with TSC controllers. Additional units may be added on to the existing bracket for larger print area requirements. Add on print heads are available with brackets for mounting on the opposite of the line. Each side of the production line will require a power supply and mounting bracket.



Adding another print head is as simple as sliding it on. You can attach an additional print head 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. Each additional print head does require it's own power supply.

### Font Styles Character Heights and Graphics

**EVOLUTION IV** is supplied with four built in font sizes. Optional alternative fonts are available and can be downloaded into the print head 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.

Since 1990

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[amsalesinc.net](http://amsalesinc.net)



# Technical Specifications

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## Complete Standard System Includes:

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.

## Standard Operating Features

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 48 characters 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 as standard, German, French as alternates updated via flash card.

## Ink Supply

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

## Power Required

110-240 VAC, 50-60 Hz 1.7A

## Environmental

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

## Production Speed

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

## Physical Dimensions

Controller: 4.00" wide x 3.500" high x 1.000" deep  
Print head module: 3.5" 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 print head modules  
Mounting Bracket for opposite side of production line  
Power Supply for additional print heads  
Spring loaded carton follower for up to 2 print heads.  
Top coding bracket  
Floor stand for up to 2 print heads  
External product sensor  
External encoder  
External low ink beacon  
4MB Data Flash Card for Logos and Message Backup

## Software Options

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 (TBD)

**Authorized EVOLUTION Distributor:**

**A & M SALES, INC.**

**(414)-453-9660**

**1-800-382-6108**

**email: [sales@amsalesinc.net](mailto:sales@amsalesinc.net)**

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