

BestCode CIJ Coders

Continuous Ink Jet Systems

Overview



Special Features

- CleanStart™ industrial stainless steel printheads ready to use in one minute
- Fast print speeds up to 1500 feet/minute (single line)
- Uses a large 10.4" Touch Screen display with intuitive icon buttons for easy use
- SmartFill™ allows fluid addition on-the-fly without opening enclosure
- EcoTec™ fluid management system reduces fluid consumption and overall cost of ownership

Series 8 printheads start clean every time.

These printheads are industrial stainless steel and built-to-last for the harshest printing applications. Designed for a clean, pin-pointed start every time, the BestCode printheads are built around our proprietary micro-disk drop generator.

A single small bore tube delivers ink and solvent eliminating the need for multiple inlets/outlets. An integrated valve provides Direct Solvent Injection for printhead nozzle and gutter cleaning. Jet Startup is ready to print in less than 1 minute.

Series 8 systems print fast, faster and fastest – 3 speed settings.

A single line of text can print at speeds exceeding 1500 feet/minute (470M/minute), two lines over 600 feet/minute (200M/minute), three or four lines of print at 300 feet/minute (100M/minute). That's fast.

A range of quick to immediate dry inks have been developed for use with Series 8 printing systems. Inks available include MEK, Acetone, Ethanol, and Acetone/Ethanol blend based inks. Multiple colors are available as are a number of specialty fluids for unique applications.

Clearer and simpler to operate.

A large, 10.4" Color Touch Display is employed to allow easy visual of all operating information. Operating functions are large, intuitive icon based buttons, making full use of color for status indicators. A true WYSIWYG environment provides the most realistic view of creating your print message. Using "drag and drop" field based message, a graphical screen provides exacting location of your message format.

BestCode products are designed for the global market. Systems use multi-national character sets, featuring multiple languages and Unicode character printing – over 60,000 characters.

Print everything. Waste nothing! Bottles drain completely so you can print every drop.

External fill fluid addition allows on-the-fly Ink and Solvent filling without opening enclosure. The large, clean, mistake proof intelligent one quart fluid containers are sized differently eliminating the risk of adding Solvent or Ink into

the wrong tank, while extending time between fluid additions. The quart ink and solvent bottles know their fluid type, and shelf life.

LargeVolume™ ink and solvent tanks.

High volume, demanding print applications are achieved with minimal user intervention. Tanks hold multiple liters of fluids for extended run time. Ink tank volumes can operate multiple months between additions. Solvent tank volumes can operate 1000+ operational hours between additions.

Designed to the Extremes

The Series 8 systems are designed for industrial extreme applications, engineered to the operating specification edges. Systems operate in wet/dry/dusty and hot/cold applications.

Industrial, all metal, stainless steel enclosure.

The systems are "Built-to-Last" in a compact, lightweight space saving design. Operate in the most extreme wet and dry applications with an IP55, or IP65 rated enclosure for high dust.

TempSense™ ventilation.

Using automatic detection systems, variable fan speed and highly efficient air flow, TempSense™ ensures the system operates in the correct temperature range. High volume air filters operate 12 months between service intervals.

EcoTec™ fluid management system reduces solvent consumption, lowering overall cost of ownership while extending the time between solvent additions and filter replacements.

The ink tank is designed to last the life of the system. The reduced cycle pump extends pump life and lowers fluid operating temperature resulting in lower evaporation rates. Vapor condensing and reduced solvent evaporation lowers overall ownership cost and reduces interaction time adding solvent to the system.

Smart Filters

Filters know their install date, keeping track of usage and alerting when the ink filter should be replaced. Quick change, extended life filters operate up to 8,000 hours – 12 months.

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General Specifications

Continuous Ink Jet Systems



Printhead

Continuous Ink Jet (CIJ) Technology, Single Printhead Control

User Interface

10.4" (264mm) Color LCD, Touch Screen, Icon based - Graphical User Interface (GUI)

Lines of Print

1-2 Lines, 16 pixel (Model 82)
1-3 Lines, 25 pixel (Model 86)
1-4 Lines, 32 pixel (Model 88)

Print Fonts

5, 7, 9, 12, 16 (Model 82)
5, 7, 9, 12, 16, 19, 25 (Model 86)
5, 7, 9, 12, 16, 19, 25, 32 (Model 88)

Electronic Hardware

32 Bit ARM 9, 208 Mhz Processor

Storage

4GByte Solid State Drive, 16 MByte Flash, 128 MByte RAM, USB Interface (thumb drive)

Machine Interface

RS232 (Model 82)
RS232 (Model 86)
RS232, Ethernet (Model 88)

Inputs

1 Photocell, 1 Photocell or Programmable Input, 1 Shaft Encoder, 8 Programmable – Field programmable input, remote message selection option – 256 possible selections

Outputs

4 Programmable Alarms (open collector, 150mA sink), 1 Programmable Dry Contact Relay External Power (+24VDC 500mA)

Enclosure

Stainless Steel Enclosure

Ingress Protection

IP55 (Model 82)
IP55 (Model 86)
IP65 (Model 88)

Filter Life

4,000 hours (Model 82)
4,000 hours (Model 86)
8,000 hours (Model 88)

Operating Environment

Temperature: 32°—122° F (0°—50° C), % Relative Humidity: 10—90% (non condensing)

Electrical Requirements

Auto Ranging: 100—240 VAC (3 Amp), Frequency: 50—60Hz, Power Consumption: 50 watts

Compliance

CE Certified, RoHS Compliant

Message/Code Creation

Dynamic Message Storage (over 1000 Messages), WYSIWYG Message Editing, Drag/Drop Field Based Formatting, Multi-National (Unicode) Character Printing, Download Fonts, Integrated Font Editor, Real and Expiration Time and Date, Shift and Rollover Functions, Product and Batch Counting, Download Graphics and Integrated Editor, Continuous and Repeat Print Capability

Operation Features

Icon Based Operation, Single Button Start, Single Button Stop/Power Off, Password Security, Automatic Diagnostics, Error and Activity Logs, Service Reminders, Backup / Restore Functions, Downloadable Software Updates, Multiple Operator Languages, Download Language Translations

Ink Delivery

SmartFill™ Ink Bottle: 32oz (946ml), SmartFill™ Solvent Bottle: 32oz (946ml)

Fluid Capacity

Ink Capacity: 68oz (2 liter), Solvent Capacity: 102oz (3 liters)

Ink Types

Quick Dry to Immediate, Full Range — MEK, Ethanol, Acetone

Ink Colors

Black, Red, Blue, Green, Yellow, White, Invisible (UV Readable)

Specialty Systems

C88S micro, C88S pigment, C88S food (Model 88)

Printhead Umbilical

10 Feet (3 Meter) *other options on request

Printing

Printhead Orientation - Omni Directional

Image Height

Adjustable: .025" (.6mm) - .5" (12mm)

Throw Distance

Non-contact printing ¼" (6mm) – 1" (25mm) throw distance

Print Speed Capability

600 ft/minute (196M/min) (Model 82)
1500 ft/minute (470M/min) (Model 86)
1500 ft/minute (470M/min) (Model 88)

Weight

45 lbs (20kg)

Optional Accessories

Alarm Beacon, Photocells, Mountings, Shaft Encoder, Positive Air Kit (for high dust), Printhead Wash Station

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