Series 8.
Next generation marking and coding.

High speed. Non-contact. Continuous ink jet printing systems.

BestCode Industrial Marking and Coding Systems print best by, lot code, sell by, expiration codes and other identifying marks and codes on industrial and consumer goods to ensure product traceability.

A complete range of small character printing systems.

Series 8 systems print high speed, reliable marks and codes on a wide range of substrates, including plastic, glass, paper and more.

82
Designed for basic applications, targeted at applications printing 1 or 2 lines of text, with 1-2 shifts per day, 5 days per week – 2000-4000 hour annual operation, with slower production line speeds.

86
Designed for high speed applications, targeted at applications printing 1, 2, or 3 lines of text with 1-2 shifts per day, 5 days per week – 2000-4000 hour annual operation, with high speed production line speeds.

88
Designed for high speed / high use applications, targeted at applications printing 1, 2, 3, or 4 lines of text, with 2-3 shifts per day, 5-7 days per week 6000-8000 hour annual operation, with high speed production line speeds.
Best print quality. Trupoint™ provides the best CIJ print quality. Through high speed processing and CIJ specific electronic hardware, millions of drop patterns are dynamically adjusted on the fly to achieve best in class print quality.

Print anything. Mark and code everything.
Series 8 printheads start clean every time.

Series 8 printheads are industrial stainless steel, built-to-last for the harshest printing applications. Printheads are designed for a clean, pin-pointed start every time. Series 8 printheads are built around BestCode’s proprietary micro-disk drop generator. An integrated valve provides Direct Solvent Injection for printhead nozzle and gutter cleaning. Jet Startup is ready to print in less than 1 minute.

Ink range. 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 and a number of specialty fluids for unique applications.

Series 8 systems print fast. Multiple speed settings to achieve the fastest print applications. 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).
Simplified, Extended Operation, Lower Cost of Ownership

Series 8 systems are designed to extend operation time between human interactions. Routine operator functions are made less often.

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.

Industrial, Designed to the Extremes
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.

EcoTec™ is a proprietary ink tank, reduced cycle pump, SmartFilter™ and a twin trap vapor condensing unit purpose designed for CIJ Technology. 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. 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.

State-of-the-Art Electronics.
Systems feature high speed, state-of-the-art 208Mhz processor core integrated into a single electronic board. Systems feature large memory storage, allowing multiple thousand messages to be stored for selection.

Stay connected with CodeConnect.™
Integrated USB, RS232, multiple programmable inputs and outputs and optional Ethernet communications enable network connectivity allowing integration into any application.

Use USB memory sticks to backup, restore, move, and carry system files wherever you go.
Specifications

**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 1-3 Lines, 25 pixel 1-4 Lines, 32 pixel

**Print Fonts**
5, 7, 9, 12, 16 5, 7, 9, 12, 16, 19, 25 5, 7, 9, 12, 16, 19, 25, 32

**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 RS232 RS232, Ethernet

**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 RelayExternal Power (+24VDC, 500mA)

**Enclosure**
Stainless Steel Enclosure

**Ingress Protection**
IP55 IP55 IP65

**Filter Life**
4,000 hours 4,000 hours 8,000 hours

**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,
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 liters), 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

**Printhead Umbilical**
10 Feet (3 Meter) * other options on request

**Printing**
Printhead Orientation - Omni Directional

**Image Height**
Adjustable: 0.25” (.6mm) - 5” (12mm)

**Throw Distance**
Non-contact printing ¼” (6mm) – 1” (25mm) throw distance

**Print Speed Capability**
600 ft/minute (196M/min) 1500 ft/minute (470M/min) 1500 ft/minute (470M/min)

**Weight**
45 lbs (20kg)

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

By request, BestCode can adapt hardware and software to meet specific application demands.

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