

Jet Array™

Versatile, high speed, eight-line ink jet printer



data sheet



JetArray Eight-Line Ink Jet Printer

The JetArray™ is the versatile high speed ink jet printer capable of printing up to 8 lines of fully variable information in just one pass. Suitable for a wide range of applications requiring high resolution printing of text, graphics or barcodes, the JetArray can be fully integrated into existing production equipment.

Print Performance

Designed to offer the best print quality even at high speeds, the JetArray print head features a dedicated nozzle per printed line. Each head, containing 8 jets, is capable of printing up to eight lines of information with good left hand justification.

Fonts and Rasters

The JetArray is supplied with fonts, logos and rasters via a removable data card. 16 character sets can be used for any one job as well as up to five rasters, which can be down loaded from the controller. The characters are variable in height from 2.5mm to 4mm and can be fixed or proportionally spaced.

The JetArray can print a range of barcodes including 2 of 5 interleaved, code 39, POSTNET and PLANET barcodes at 4mm height per line and also has the capacity to store 80 user specified logos per print job.

Speed

The JetArray can print at speeds of 3.9 metres per second, (12.5ft/min), or in excess of 22,000 books per hour.

Compact Print Head

The small and versatile print head is connected by an 8 metre conduit and can quickly be mounted on web, sheet fed or finishing equipment. The print head holster allows for easy removal and accurate re-positioning. The print head can be located in any orientation for printing.

Ease of Use

The start up/shut down procedures are fully automated and are achieved in less than 3 minutes.

JetArray has been designed to work with controllers which communicate any faults to the operator. The fault log facility further aids diagnostic investigation. All internal diagnostics and configuration features can be operated through an operator terminal which also can be used remotely.



Technical Specification

General

- 8 lines of text at 6 lines per inch (2.54cm)
- Prints in any orientation
- Single button start/stop
- High level diagnostics
- Modular cabinet for ease of transportation

Physical

- Head: 150mm x 120mm x 110mm (6" x 5" x 4")
- Cabinet: 1200mm x 600mm x 400mm (48" x 24" x 16")
- Weight: Cabinet: 97kg (213lbs)
- Conduit length: 8 metres (26')
- Stainless steel construction
- Holster mounted print head

Electronics

- 480mm (19") rack system based around VME 68XXX processors
- No internal adjustments - all control is through the local terminal and/or controller
- User settings are retained in non-volatile memory
- Internal print-go and stroke-go generators

Power Supply and External Interfaces

- 120/240V, 50 Hz at 3A
- Shaft encoder input, NPN O/C or line driver, 12V or 5V
- Product detector input, NPN O/C 12V
- Slave output of encoder and detector signals, optoisolated
- External alarm contacts, 50V O/C, 1A fused
- Modem Connection (optional) for remote service option

Ink System

- Automatic control of modulation, viscosity and pressure
- 5° - 45°C (dependent on fluid type)
- 2.4 litre sump, 1.1 litre refill bottles

Local Terminal

- ST8, RS422 unit with 6 metre (20') cable

Speed

- Up to 1523cps or 230mpm (750ft/min) per line (7 x 5 matrix) 10cpi
- Up to 1066cps or 162mpm (530ft/min) per line (9 x 5 matrix) 10cpi

Matrix Options

- Option of 5 operating rasters per job, one per line
- Option of 16 operating character sets per job
- May be mixed in lines
- Option of 80 logos (128 pixels each) per job

Controller

- Domino Controller Range
- Data interface 8 x RS232 lines
- Full printer control and error reporting communication
- Character sets, rasters and logos can be transferred from the controller
- The global data card comes as standard with 16 character sets and 5 barcodes

