World Class Printing Systems
for **Real World Applications**

SQ/2 *Scorpion*

SQUID INK LETS YOU HAVE IT YOUR WAY

The SQ/2 Scorpion ink jet printing system offers the durability, versatility and productivity that you have come to rely on from Squid Ink. SQ/2 Scorpion offers more options for making your mark: water-based systems for printing on porous surfaces like corrugated cases, or solvent-based systems for printing on non-porous products like plastics, metals or more. No matter what product you need to print, SQ/2 Scorpion has the functionality to get the job done right.

TRUE VERSATILITY FOR YOUR NEEDS

SQ/2 Scorpion users have the option of choosing from several printhead configurations. Five different print sizes are available: 3/8", 1/2", 3/4", 1" or 1-3/4" character height. All printheads are capable of printing at 100% or 70% character height, offering 12 print sizes ranging from 1/4" to 1-3/4" in height. The 1" and 1-3/4" (1600 Series) printheads even offer split-line capability and the option of printing full-size characters or half-size characters with the same printhead.

MORE BRAIN. MORE BRAWN.

The SQ/2 Scorpion is upgraded with software features that ink jet users need most: increased memory locations for up to 128 messages, the ability to automatically print a manufacturing date and an expiration date, as well as a shift organizer to automatically separate and code different work shifts within your packaging operation. The SQ/2 Scorpion also comes standard with a shaft encoder input for packagers using a variable speed conveyer. On the hardware side, the SQ/2 Scorpion features a built-in central air gauge to view regulated air pressure within the system and fine-tune your print quality.

USER-FRIENDLY SYSTEM

SQ/2 Scorpion's state of the art input device provides quick and easy message programming and retrieval for the 128 message locations of 128 characters each. Resident software in the input device walks the user through a series of prompts to program and save each message for printing on-demand. If necessary, the input device can be removed to prevent programming errors on the plant floor. The system also can be programmed and maintained with a PC through a standard RS-232 port.

INNOVATIVE TECHNOLOGY, PROVEN RELIABILITY

SQ/2 Scorpion utilizes Squid Ink's patented microchanneling technology, eliminating the need for a costly array of fluid valves. Squid Ink's proven plunger technology distributes ink through a series of channels, keeping production and maintenance costs to a minimum, especially when compared to the costly valve technology common in most ink jet printers today.

LESS MAINTENANCE = LESS DOWNTIME

The SQ/2 Scorpion is engineered inside and out for industrial strength operation. Heavy-duty coated steel cabinetry ensures continuous operation in rugged, real world environments. If the printer does fail, however, a fix can be completed in less than five minutes. Quick and easy-to-install replacement printheads, circuit boards and air pump modules minimize downtime and eliminate costly service calls. Best of all, the water-based SQ/2 Scorpion utilizes Squid Ink's patented SQ-60 no-clog ink, allowing users to leave the ink in their printheads for an extended period of time without flushing or cleaning, making it the most cost-effective, low maintenance ink jet printing system in it's class.

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1) The SQ/2 Scorpion utilizes water-based or solvent-based inks for printing on a wide range of porous and non-porous surfaces.

2) Run one or two SQ/2 printheads for versatile single line printing.

3) Or run one Series 1600 printhead for full character size and splitline capability.

4) Squid Ink's patented SQ-60 no-clog ink allows users to leave ink in their printhead without having to flush their system.

SYSTEM SPECIFICATIONS:

- **Printer Type -** Large character ink jet printing system
- **Printhead Options -** Users have the option to use up to two SQ/2 printheads, or one 1600 Series printhead
- **Character Heights -**
  SQ/2 Series Printheads (7-channel dot matrix characters)
  - .75" (1.9cm) in 7 x 5 matrix; .5" (1.3cm) in 5 x 5 matrix, or
  - .5" (1.3cm) in 7 x 5 matrix; .375" (1.0cm) in 5 x 5 matrix, or
  - .375" (1.0cm) in 7 x 5 matrix; .25" (.6cm) in 5 x 5 matrix
- **Character Heights -**
  1600 Series Printheads (16-channel dot matrix characters)
  - 1.75" (4.5cm) in 16 x 10 matrix, with split-line capability to print two lines of the following size characters: .75" (1.9cm) at 7 x 5 matrix; .5" (1.3cm) in 5 x 5 matrix, or
  - 1.0" (2.5cm) in 16 x 10 matrix, with split-line capability to print two lines of the following size characters: .375" (1.0cm) at 7 x 5 matrix; .25" (.6cm) in 5 x 5 matrix
- **Character Set -** 61 character ASCII set
- **Print Speed -** Up to 200 feet/minute (61m/minute) line speed
- **Message Length -** 128 character length per message; 128 memory locations
- **Communication -** RS-232C, 9600 baud, 8 data bits, 1 start, 1 stop, Asynch
- **Software Features -** Counter, lot counter, 24-hour clock, 8 or 12 hour programmable shift code, Julian date, 3-letter month name, 3-letter weekday name, expiration date, expiration month, expiration day, expiration year, expiration Julian date
- **Operating Features -** Dot size, print delay, character width, photocell on/off/repeat, invert print, reverse print, purge routine
- **Shaft Encoder Output -** Resident software allows communication with shaft encoder for use with variable speed conveyors

SYSTEM SPECIFICATIONS (CONTINUED)

- **Controller Dimensions -** 12" (31cm) H x 12" (31cm) W x 5.25" (13cm) D
- **Controller Weight -** 10.5 lbs. (4.8kg)
- **Printhead Dimensions -**
  SQ/2 Series Printheads: 3" (7.6cm) H x 1.6" (4.1cm) W x 7" (17.8cm) L
  1600 Series Printheads: 2.5" (6.4cm) H x 1.5" (3.8cm) W x 7" (17.8cm) L
  Dimensions are for the printhead only – an additional 3" (7.6cm) is needed for the ink line and printhead cabling which extends from the back of the printhead
- **Product Sensor -** Diffuse beam photocell (24v) or hardware sinking signal
- **Communication Interface -** Two RS-232 ports for connection to input device, host PC, and PLC for input from scale, scanner or external alarm
- **Air Pump -** Internal air pump module provides necessary air pressure; external air not recommended
- **Electrical Requirements -** 100 – 240 VAC, 50-60 Hz, 1.0 amp
- **Cabinet Construction -** Industrial gauge coated steel
- **Operating Environment -** Water-Based Ink: 32°F (0°C) to 120°F (50°C) Solvent-Based Ink: 0°F (-18°C) to 120°F (50°C)
- **Substrate Capabilities -** Porous or Non-Porous surfaces
- **Ink Capabilities -** Porous: Squid Ink SQ-60 no-clog ink Non-Porous: Several Squid Ink solvent based fluids to meet your application needs for adhesion and dry time
- **Ink Volume -** .5 gallon (1.9 liters) bottle standard; available upgrade

OPTIONAL ACCESSORIES

- **Spare Parts Kit -** Includes spare printhead, card cage and PC board pack, air pump module, data cable and master cap
- **Starter Kit -** Includes ink, cleaner for flushing the system, spray bottle for cleaner, hand cleaner and wipes for the printhead