

**SQ/2**

# SCORPION INK JET PRINTING SYSTEM

**Quality,  
Economical  
Ink Jet  
Printing**



## 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. *That's three different character sizes from one printhead.* Whether you need separate printheads to print messages on two sides of a box, or a single printhead to print split-line small characters on one side of a box, the SQ/2 Scorpion provides a solution. Best of all, each printhead is field-installable for future upgrade to meet your application's changing requirements.

## 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 conveyor. 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

The SQ/2 Scorpion is designed to work as an integral part of your day-to-day packaging operation. 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. SQ/2 Scorpion's easy-to-use design and user-friendly software makes everyone involved a smooth operator.

## Innovative Technology, Proven Reliability

SQ/2 Scorpion utilizes Squid Ink's patented micro-channeling 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 gauge, coated steel cabinetry ensures continuous operation in rugged, real world environments. In fact, the Series 1600 printheads, encased in sturdy, stainless steel framework, are completely sealed and resistant to dust and water. 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 its class.

GO WITH THE FLOW.

**SQUID INK**  
MANUFACTURING



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# SQ/2 SCORPION INK JET PRINTING SYSTEM

## SQ/2 Scorpion Printing System Components

- Controller cabinet and ink delivery system
- One or two printhead(s) and printhead mounting bracket(s)
- Printhead data cable(s) and ink line(s)
- Photocell product sensor and photocell mounting bracket
- Industrial-strength handheld input device



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



Or run one Series 1600 printhead for full character size and split-line capability.



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



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

## SQ/2 Scorpion Printing 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

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, Async

### 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

## SQ/2 Scorpion 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

**5-Gallon Pail Upgrade** - Upgrades ink supply to 5.0 gallons (water-base ink only)

**PC Software** - Communications software for PC integration

**Shaft Encoder** - Allows for operation with variable speed conveyors

**Rollaway Stand** - Provides mount for the SQ/2 Scorpion controller, designed with caster wheels for transportation within plant

**Installation and Training** - On-site installation and training available

## Component Modularity

Eliminates the need for costly service calls and minimizes downtime; printheads and components can be replaced in less than 5 minutes

## 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** - 90-120 VAC, 50/60Hz, 4.0 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 (water-base ink only) to 5.0 gallon (18.9 liters) pail



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