



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



## MODELS

SQ310-C-A, SQ610-C-A

## MORE OPTIONS FOR MAKING YOUR MARK

Squid Ink's SQ310-C-A and SQ610-C-A laser coding systems are designed for high speed food and beverage, pharmaceutical, cosmetic, and other primary coding applications. Squid Ink's CO2 lasers can permanently mark onto paper, cardboard cartons, plastic, glass, wood, coated metal, leather, and more.

## APPLICATION VERSATILITY

- Permanent coding of text, time and date, bar codes, serial numbering and more
- Quick and easy installation for both stationary and moving products
- Compact design easily fits into production environments where space is limited
- Can be integrated in production lines at speeds up to 300m/min
- Laser head can be rotated 90° in less than 5 minutes
- Available in 30 and 60 watt models for a variety of applications

## RELIABLE AND ECONOMICAL

- No ink/consumables and near zero maintenance for lower cost of ownership
- Clean and eco-friendly coding system features low energy consumption
- Rugged cast aluminum controller body
- IP54 rating ensures maximum reliability and uptime in demanding applications
- Integrated key switch and interlock relay for increased safety on the production floor

## HIGH QUALITY CODE GENERATION

- Scribing technology produces razor sharp marks on a variety of substrates including cartons, glass and plastics
- Ability to mix different fonts and logos in a single message
- Discrete coding ability for anti-counterfeiting and traceability
- Ideal coding alternative where CIJ systems are not practical
- 9.3µm system available for coding PET bottles for the beverage industry

## EASY TO START, SIMPLE TO RUN

- All-in-one design for fast installation and line changes
- Easy to use software with smart touchscreen panel
- Removeable 10" touchscreen controller for remote system programming where space is limited
- Intuitive system includes focus finder and code area preview window on product during setup; enables initial laser marking setup within minutes
- Easily configurable in a variety of angles with optional mobile stand
- Optional fume extraction systems available that connect directly to SQ-Laser systems

## THE RIGHT SOLUTION

Rugged design. High quality coding. Low cost of ownership. Your benefits go on and on. When it comes to industrial laser coding, rely on Squid Ink to provide the right solution for your coding and marking needs.



1) An optional heavy duty stand is available to simplify setup and install the system in a variety of configurations.

2) The laser head can be rotated 90 degrees in less than 5 minutes.

3) Easy to use 10" touchscreen controller mounts to cabinet for system configuration and message programming.

4) An integrated key switch and interlock relay is included for safety on the production floor.

## SYSTEM SPECIFICATIONS

- **Laser Type** - CO2 laser marking system, sealed metal RF CO2 laser source
- **Laser Wavelength** - 9.3μm for PET plastics or 10.6μm for general use
- **Laser Galvanometer** - High-precision 2-dimensional high-speed scanning method
- **Controller and Operating System** - 10" touchscreen controller running Linux®
- **Cooling Method** - Air-cooled
- **Power Consumption** - 30W: <1100W; 60W: <2000W
- **Marking Area** - 90mm x 90mm standard, optional lenses up to maximum 450mm x 450mm
- **Reflector Size** - 30W: 8.5mm; 60W: 10mm
- **Production Line Speed** - 0 - 300m/min (varies according to substrate and message)
- **Marking Speed** - Up to 1800mm/s
- **Character Size** - Adjustable in marking area, no character line limits within marking area
- **Marking Line Number** - Code Rotation - 0 to 360°
- **Drawing Types** - Dot matrix and vector
- **Positioning Method** - Red light positioning and auto focusing for simple setup
- **Software Features** - Counter, lot counter shift code, time and date, expiration date, 2D and linear bar codes
- **Bar Code Symbolologies** - Code128, Code39, Code93, EAN13, PDF417, 01Code, QR, DataMatrix, GS1-DM, AztecCode, HanxinCode, DotCode
- **Image Formats** - bmp, dxf, jpg, plt, png
- **Operating Languages** - English, Chinese, German, Spanish, French, Italian, Japanese, Korean, Portuguese, Hindi, Russian, Turkish, Arabic, Persian
- **Safety Features** - Integrated key switch and interlock relay included for safety on the production floor; customer provided shielding necessary to prevent eye or skin exposure
- **Interfaces** - RS-232C, USB2.0, Ethernet, I/O

## SYSTEM SPECIFICATIONS (cont.)

- **Machine Material** - Anodized aluminum (marking head) and stainless steel (control unit)
- **Laser Head Dimensions** - 30W: 29.8" (758mm) L x 7.0" (177mm) W x 5.7" (146mm) H; 60W: 36.5" (928mm) L x 8.6" (218mm) W x 7.6" (194mm) H
- **Controller Cabinet Dimension** - 15.08" (383mm) L x 8.27" (210mm) W x 23.23" (590mm) H
- **Electrical Requirements** - 90 - 240 VAC, 50/60Hz
- **Operating Environment** - 32°F - 113°F (0°C - 45°C)
- **Humidity Range** - 10 - 90% relative humidity, non-condensing
- **Machine Weight** - 30W: 73 lbs. (33kg); 60W: 97 lbs. (44kg)
- **Agency Approval** - CE Mark

## OPTIONAL ACCESSORIES

- **Print Trigger** - Optical, fiber optic, ultrasonic, laser, metal proximity, capacitive proximity
- **Encoder** - For operation with variable speed conveyors
- **Mobile Stands** - Heavy duty stand with ability to rotate laser controller in any direction and easily raise and lower marking machine by a single operator; includes casters for easy transportation within plant
- **90 Degree Head Pivot Extension** - Mirror assembly that allows marking head to point lens in line with unit axis
- **Laser Fume Extraction Systems** - SQ-LFX or SQ-LFX PVC for the proper extraction of laser application fumes
- **Installation and Training** - On-site installation and training available



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