

SQ-50F FIBER LASER CODING SYSTEM



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



MORE OPTIONS FOR MAKING YOUR MARK

Squid Ink's SQ-50F fiber laser coding system is designed for high speed automotive, electronics, medical, aerospace, and other primary coding applications. The SQ-50F laser can permanently mark onto ceramics, plastics, matte metals, rubber, composite material, 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
- Easily fits into production environments where space is limited
- Laser head can be rotated 90° in less than 5 minutes

RELIABLE AND ECONOMICAL

- No ink/consumables for lower cost of ownership
- Clean and eco-friendly coding system
- Rugged cast aluminum controller body
- Integrated key switch and interlock relay for increased safety on the production floor
- Operational in a wide variety of environmental conditions

HIGH QUALITY CODE GENERATION

- Scribing technology produces non-dot matrix, razor sharp marks on a variety of substrates
- Ability to mix different fonts and logos in a single message
- Multiple line coding allows for flexible message programming
- Discrete coding ability for anti-counterfeiting and traceability
- Ideal coding alternative where CIJ systems are not practical

EASY TO START, SIMPLE TO RUN

- Easy to use 7" touchscreen software built right into controller
- 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) 7" touchscreen controller offers an easy-to-use solution for message programming.

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

SYSTEM SPECIFICATIONS

- **Print Technology** - Fiber laser coding system
- **Laser Wavelength** - 1.064µm
- **Laser Galvanometer** - High-precision 2D high-speed scanning galvanometers
- **Cooling Method** - Atmospheric air-cooled
- **Dust Way** - Sealed
- **Power Consumption** - 800W
- **Marking Focal Length Range** - 100mm - 305mm
- **Positioning Accuracy** - 0.01mm
- **Minimum Line Width** - 0.1mm
- **Marking Area Range** - 100mm X 100mm - 205mm X 205mm (depending on focal length)
- **Assembly Line Speed Support** - <120m/min
- **Marking Speed** - 800 - 1000 characters/second
- **Character Size** - Adjustable in marking range
- **Marking Line Number** - Code Rotation - 0 to 360°
- **Software Features** - Counter, lot counter shift code, time and date, expiration date, 2D and linear bar codes
- **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
- **Operating Languages** - English and Chinese
- **Cabinet Construction** - Heavy duty cast aluminum
- **Cabinet Dimensions** - 20" (51cm) L x 4" (10cm) W x 4.7" (12cm) H
- **Power Controller Dimension** - 18" (46cm) L x 18" (46cm) W x 6" (15cm) H
- **Electrical Requirements** - 90 - 220 VAC, 50/60Hz
- **Operating Environment** - 32°F - 113°F (0°C - 45°C)
- **Humidity Range** - 10 - 90% relative humidity, non-condensing
- **Packaged Weight** - 54 lbs. (24kg)

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
- **Hand Held 10" Touchscreen Controller** - Allows complete control of the system when access is limited due to mounting requirements
- **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



©2022 Squid Ink Manufacturing, Inc. Specifications subject to change. All trademarks are the property of their registered owners.



7041 Boone Avenue North, Brooklyn Park, MN 55428
 (763) 795-8856 1 (800) 877-5658
 www.squidink.com info@squidink.com



ENGAGE technologies corporation