

# Fantom G3™

Generation 3 Thin Glass Laser Scribing Machine

FONON DISPLAY & SEMICONDUCTOR SYSTEMS

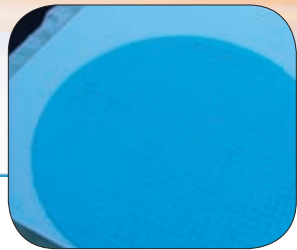
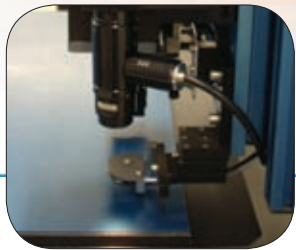
Tel: 407.829.2613

Fax: 407.804.1002

www.fonondss.com

info@fonondss.com

A DIVISION OF FONON TECHNOLOGY INTERNATIONAL



The Fantom G3 Glass Panel Scribing Machine utilizes the latest laser technology for glass scribing and equipped with integrated Laser Photonics laser source for Flat Panel Display Industry.

The Fantom G3 Laser Scribing tool is a part of a new line of industrial laser cutting systems from Fonon DSS. It incorporates a new generation modular design laser and precision direct drive high resolution linear motion system forming precision, stand alone, small foot print automatic tool which can be easily integrated into inline system.

The system is based on Zero Width Laser Cutting Technology®. ZWLCT method splits materials at the molecular level with tremendous speed, no material loss, and no chips or other debris associated with conventional scribe and break techniques.

## New & Unique Features

- Reduced training level requirements for operator
- Reduced space requirements for laser scribing
- Produces glass panels 3 to 5 times mechanically stronger without additional edge processing
- Plug-n-play characteristics give the system ease of installation and quick start-up times.
- Remote Internet monitoring and diagnostics.
- Programmable loading and unloading positions for in line integration.
- Large substrate sizes: up to 720 mm x 600 mm

## Advantages for Users

- Low cost solution for precision glass scribing & is priced the same as or less than precision mechanical scribers.
- Reduced training level requirements for operators
- Eliminates Grinding & Cleaning Line.
- Small footprint: Reduced space for Laser Scribing
- Built-in modular (easy to replace) power supply, amplifiers, PC control, and high voltage electronics.
- Modular design utilizes standard components for easier service
- “Plug-n-play” characteristics give the system ease of installation and a quick start-up time
- Price includes installation, startup, and training
- The system includes: fully documented operation manual, site plan drawings, recommended spare parts list, cost sheet and setup tool kit.
- Service: No laser service needed; there is no optics pass, no optics service required, no optical alignment necessary
- Cost of Ownership: No gas consumption, no optical alignments, no optics cleaning, no special requirements on quality of industrial space
- Plug & Play Capabilities
- Internet-ready
- Ease of installation allows for quick start-up
- The whole process is brought inside clean room



**AVOID EXPOSURE  
INVISIBLE LASER RADIATION  
IS EMITTED FROM THIS APERTURE**

### 21 CFR 1040.10 Compliance

This product is a Class 1 laser as designated by the CDRH and MEETS the full requirements for a stand-alone laser system as defined by 21 CFR 1040.10 under the Radiation Control for Health and Safety Act of 1968. As an added level of security, a redundantly switched safety interlock system helps prevent accidental exposure to excess laser radiation. Plus, the system is equipped with an electrical power manual reset, a key-locked laser power switch and a remote interlock connector. Finally, the system has audible and visible emission indicators with five (5) second emission delay settings. All these features, in combination, constitute the laser radiation safety system, which allows the equipment to be used in a safe and secure manner.

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