

# GETECH

"Performance, Value, Integrity"

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OVER 30 YEARS IN THE INDUSTRY

# GLSS GETECH LASER SINGULATION SYSTEM

## TOTAL SOLUTION FOR ROUTER BUSINESS

As a world leader in PCB Depaneling systems, GETECH presents GLSS. A standalone machine designed for high-speed laser depaneling and high-volume production of rigid and semi-flexible PCB panels.

Table Size: 350 mm x 350 mm



## FEATURES

**DUAL TABLES**

**MANUAL LOADING/UNLOADING**

**40 W NANOSECOND GREEN LASER**

**VERSATILE VISUAL PROGRAMMING SYSTEM (MOVE, TEACH, CUT)**

**PARALLEL PROCESSING (DEPANELING AND HANDLING)**

**SAFETY PROTECTION ENCLOSURE W/ INTERNAL PARTITION**

**HIGH-RESOLUTION VISION CAMERA**

**PROGRAMMABLE Z-HEIGHT**

**HIGH ACCURACY & QUALITY CUT**

**CE CERTIFICATION (OPTION)**



ISO 9001: 2015

Cert.No 622220

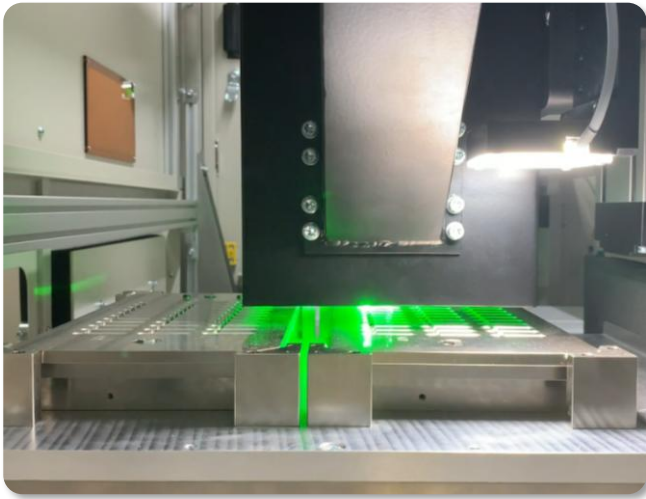
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**KANEMATSU**

# GLSS Getech Laser Singulation System

Local Agent:



The GLSS is a standalone Laser singulation machine specially designed to handle ultra-thin and flexible printed circuit board assemblies (PCBA) up to 0.8mm in thickness.

The GLSS operates with two worktables for simultaneous cutting and load/unload operations for maximum production effectiveness and flexibility. Parts handling is as simple as positioning on a flat vacuum platen or a simple alignment fixture, making the expenses usually associated with tooling less.

The GLSS employs a 532nm green laser source that delivers up to 40W at the workpiece. The green wavelength is well-suited to PCB materials enabling clean cuts.

## SPECIFICATIONS

<b>Manipulators</b>	Configuration	: 4 Axes
	Manipulator Motors	: AC brushless servo motors
	Manipulator Repeatability	: $\pm 0.02$ mm
	Resolution	: $\pm 0.01$ mm
<b>Workstation</b>	Design	: Dual workstation with nest fixture or pin fixture
	Panel Positioning	: Located by tooling holes, edges of PCB, or vacuum fixture
	Panel Loading/unloading	: Manual
	Table Size	: 350 x 350 mm
	Panel Thickness	: Up to 0.8 mm for FR4 (Design guidelines available)
<b>Laser System</b>	Laser Technology	: Nanosecond Green Laser
	Nominal Power	: Up to 40 W @ 40 kHz
	Pulse Duration	: <10 ns @ 40 kHz
	Cutting Window	: Up to 100 mm $\times$ 100 mm
	Spot Size	: 30 $\mu$ m typical
	Cooling Method	: Closed-loop water cooling
	Supported PCB Materials	: Rigid & semi-flexible PCBs incl. FR4, Polyimide, Alumina, LED strips, etc.
<b>Fume Extractor Unit</b>	Power	: 1100 W Fume extraction unit
	Filtration	: 3-stage filtration with disposable filters
		: HEPA Class H14, 99.997% @ 0.3 micron & Activated carbon
<b>Vision system</b>	Video camera	: High-resolution CCD video camera
		: PCB Fiducial capturing or PCB Edge positioning (Optional)
<b>Programming</b>	System Platform	: Windows® based Industrial PC (Win 11)
	Online	: Vision-assisted point-to-point manual teaching
	Offline	: CAD and manual program generation capability
	Editing Function	: Dry run vision assisted / test run mode
	Options	: Barcode support (1D or 2D), Fiducial alignment
<b>Safety Feature</b>	It has E-Stop buttons, a Laser safety shutter, Servo overload detection, a Class 1 Laser safe work area, and laser safety viewing windows.	
<b>Dimensions &amp; Utilities</b>	Machine Size	: 1630 W x 1580 D x 1850 H mm
	Weight	: Approx. 870 kg
	Power Supply	: 3+N+E, 380~415 V, 50 Hz (Options available)
	Air Supply	: 6 bars