

# GETECH

"Performance, Value, Integrity"

Call us on +65 6756 0777

OVER 30 YEARS IN THE INDUSTRY

## IRLD INLINE ROTARY LASER DEPANELLER

### TOTAL SOLUTION FOR ROUTER BUSINESS

As a world leader in PCB Depaneling systems, GETECH presents IRLD. An inline machine designed for high-speed laser depaneling and high-volume production of rigid and semi-flexible PCB panels sizes up to 300 mm x 300 mm.



### FEATURES

**DUAL-STATIONS ROTARY TURNTABLE**

**IN-LINE AUTOMATION READY**

**40 W NANOSECOND GREEN LASER**

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

**PARALLEL PROCESSING (DEPANELING AND HANDLING)**

**UP TO 4 VACUUM SUCTION PICK-AND-PLACE TIPS**

**HIGH-RESOLUTION VISION CAMERA**

**PROGRAMMABLE Z-HEIGHT**

**SMEMA CONNECTIVITY**

**CE CERTIFICATION (OPTION)**



ISO 9001: 2015

Cert.No 622220

Getech Automation Pte Ltd.

201 Woodlands Ave 9, #05-50, Spectrum 2, Singapore, 738955

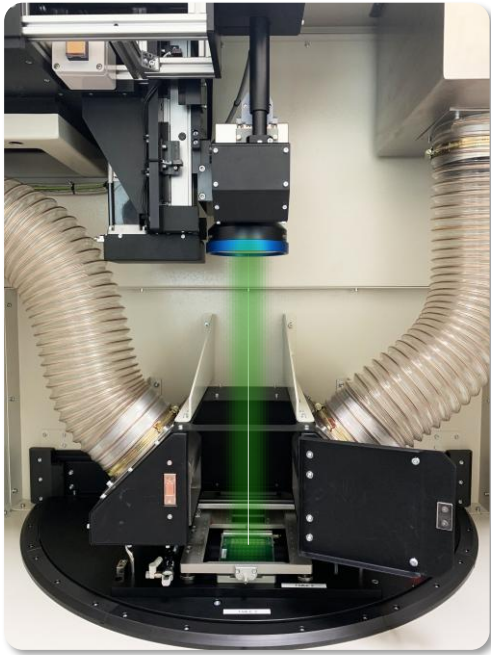
Marketing & Sales: +65 6756 9722 | Enquiry: +65 6756 0777 | Website: [www.getecha.com](http://www.getecha.com) | Email: [sales@getecha.com](mailto:sales@getecha.com)

A Member of Kanematsu Corporation

**KANEMATSU**

# IRLD Inline Rotary Laser Depaneller

Local Agent:



IRLD is an inline laser depaneling machine designed to depanel or singulate rigid and semi-flexible PCBs with high precision and repeatability. It is suitable for handling densely populated printed circuit board assemblies (PCBA) in automatic production assembly lines.

The system consists of up to 4 high-speed vacuum suction nozzle tips for very low dwell time pick-and-place operations to boost productivity. The machine also supports barcodes and 2D codes verification of incoming boards before depaneling and sorting outgoing boards before releasing them to downstream processes or straight to tape-and-reel packaging.

The IRLD comes with a short-pulsed green laser for high-quality cuts with almost no carbonization that produces virtually char-free cut edges.

## 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 dedicated fixtures on a rotary turntable
	Panel Positioning	: Locating pins with top clamp
	Panel Loading	: Automatic (In-line Automation ready)
	Panel Size	: 300 x 300 mm
	Panel Thickness	: 0.6 mm – 1.0 mm
	Component Height	: Top max. 5 mm, Bottom max. 5 mm
<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 x 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>Vision System</b>	Video Camera
<b>Programming</b>	System Platform	: Windows® based Industrial PC (Win 11)
	Product Setup	: Vision-assisted point-to-point manual teaching; Vision-assisted editing function; Test-run mode
	Variable Functions	: Barcode support (1D or 2D), Autoloading of last product. Other options are available.
<b>Conveyor System</b>	Incoming Conveyor	: Belt-type edge conveyor with lifter
	Conveyor Width Adjustment	: Manual (Front rail – Fixed, Back rail – Manual adjust)
	Conveyor Direction	: Left to Right
	Offload module	: Customer specifications
	Communication	: SMEMA
<b>Safety Features</b>	E-stops, Mechanical laser shutter, Laser-safe enclosure, Servo overload detection, HEPA Filter with activated carbon, In-machine webcam.	
<b>Dimensions &amp; Utilities</b>	Machine Size	: 1200 W x 1350 D x 1900 H mm
	Weight	: Approx. 1080 kg
	Power Supply	: 3+E, 208~240 V, 50~60 Hz (Options available)
	Air Supply	: 6 bars