

IRLD IN-LINE 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 size up to 300mm x 300mm.



FEATURES

DUAL-STATIONS ROTARY TURNTABLE

30W GREEN LASER OR 100W USP LASER

PARALLEL PROCESSING (DEPANELING AND HANDLING)

UP TO 4 VACUUM SUCTION PICK-AND-PLACE TIPS

VERSATILE VISUAL PROGRAMMING SYSTEM (MOVE, TEACH, CUT)

HIGH-RESOLUTION VISION CAMERA

IN-LINE AUTOMATION READY

PROGRAMMABLE Z-HEIGHT

SMEMA CONNECTIVITY

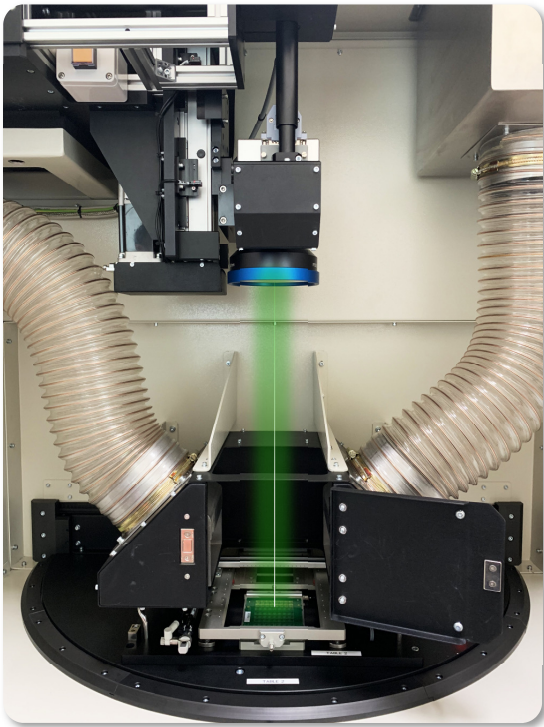
CE CERTIFICATION (OPTION)



ISO 9001 : 2015 Cert. No.: 622220

IRLD Inline Rotary Laser Depaneller

Local Agent:



IRLD is an inline laser depaneling machine specifically designed to depanel and/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/or 2D codes verification of incoming boards before depaneling and sorting of outgoing boards before releasing to down-stream processes or straight to tape-and-reel packaging.

The IRLD comes with either a short-pulsed green laser for high-quality cuts with almost no carbonization or an ultra-short-pulsed picosecond laser which produces virtually char-free cut edges.

SPECIFICATIONS

Manipulator	Configuration	: 4 axes
	Manipulator Motors	: AC brushless servo motors
	Manipulator Repeatability	: ± 0.02 mm
	Resolution	: ± 0.01 mm
Workstation	Design	: Dual workstation with dedicated fixtures on a rotary turntable
	Panel Positioning	: Locating pins with top clamp
	Panel Size	: 300mm X 300mm
	Panel Thickness	: 0.6mm – 1.0mm
	Component Height	: Top max. 5mm, Bottom max. 5mm
Laser System	Type	: 30W green laser or 100W USP laser
	Cooling	: Closed-loop water chiller
	FOV	: 50mm X 50mm to 300mm X 300mm
Vision System	Video Camera	: High-resolution CCD vision camera
Programming	System Platform	: Windows® based Industrial PC
	Product Setup	: Vision assisted point-to-point manual teaching and editing function, test run mode
	Variable Functions	: Barcodes scanning (1D and 2D), auto-loading of last product, etc.
Conveyor System	Incoming Conveyor	: Belt type edge conveyor with lifter
	Conveyor Width Adjustment	: Manual
	Conveyor Direction	: Left to right
	Outgoing	: Options available
	Communication	: SMEMA
Safety Features	E-stops, Mechanical Laser Shutter, Laser-safe Enclosure, Servo Overload Detection, Hepa Filter With Activated Carbon, In-machine Webcam	
Dimensions & Utilities	Machine Size (W x D x H)	: 1,200 mm x 1,350 mm x 1,850 mm
	Power Supply	: 208 ~ 240V
	Air Supply	: 6 bar