



"Performance, Value, Integrity"

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OVER 30 YEARS IN THE INDUSTRY

RBM INLINE ROUTER & BOARD HANDLER MACHINE

TOTAL SOLUTION FOR ROUTER BUSINESS

As a world leader in PCB Depaneling systems, **GETECH** introduces the **RBM**—an in-line router machine designed for high-speed routing and high-volume production of PCB panels up to 320 mm × 250 mm.



FEATURES

DUAL TABLES

HIGH-SPEED ROUTING & THROUGHPUT

HIGH ACCURACY & QUALITY CUT

DESIGNED FOR SSD & MEMORY MODULE PCBS

AUTOMATIC TOOL CHANGE

HIGH-RESOLUTION CAMERA

USER-FRIENDLY SOFTWARE

IN-LINE AUTOMATION READY

RIGID WELDED STEEL STRUCTURE

POWERFUL DUAL VACUUM SYSTEM (OPTION)

POST-ROUTING PCB AIR CLEANING (OPTION)



ISO 9001: 2015

Cert.No 622220

Getech Automation Pte Ltd.

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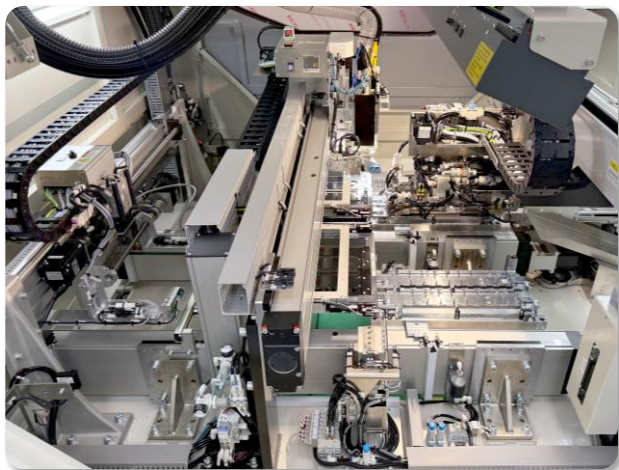
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A Member of Kanematsu Corporation

KANEMATSU

R B M Router & Board Handler Machine

Local Agent:



The RBM In Line Router Machine is a high-speed depanelization solution designed for accurate routing of large PCB panels up to 320 mm × 250 mm, particularly suited for SSD, memory module, and high-density PCB applications. Engineered for high-volume manufacturing, the RBM delivers excellent precision, fast cycle times, and a compact footprint with minimal operator involvement.

Its dual worktable design enables true continuous operation. While one worktable performs high-speed routing, the second simultaneously unloads finished boards or receives new panels via automated infeed handling. This parallel operation eliminates load/unload delays, delivering 100% operational uptime and significantly higher throughput.

The RBM offers strong process flexibility, supporting a wide variety of PCB types through vacuum or gripper-based handling. After routing, individual PCBs are transferred by a high-speed robotic pick and place system to multiple offload options, including flat belt conveyors, bridge axes, or customized configurations.

SPECIFICATIONS

Routing Capability	Non-routing Speed	: 1000 mm/sec max
	Routing Speed	: 100 mm/sec max (dependent on material, cutting quality & tool diameter)
	Repeatability	: Up to ±0.1 mm typical; ±0.05 mm achievable under optimized conditions
Manipulator System	Configuration	: 8-axis
	Manipulator Motors	: AC brushless servo motors
	Manipulator Repeatability	: ±0.016 mm
	Resolution	: ±0.01 mm
Workstation	Design	: Dual workstation with dedicated fixtures
	Panel Positioning	: Located by tooling holes or PCB edges
	Panel Loading	: Automatic, In-line automation ready
	Fixture Type Options	: Pin fixture or Gripper fixture
	Panel Size	: 320 × 250 mm (Pin fixture), 290 × 250 mm (Gripper fixture)
	Panel Thickness	: 0.5 – 2.0 mm
Spindle System	Component Height	: Top max. 12 mm, Bottom max. 25 mm (9.5 mm for Gripper fixture)
	Spindle Motor	: 0.5 kW spindle with ESD / Ceramic bearings
	Tool Change	: Automatic Tool Change, 5 tool stations
Dust Filtration System	Cooling	: Ambient air-cooled (Water-cooled optional)
	Router Bit	: Shank size Ø 3.175 mm (1/8")
	Power	: 2 × 2.55 kW rotary vane vacuum blowers
Vision System	Filtration	: 3-stage filtrations with disposable filter bag (10 microns)
	Vacuum Location	: Top vacuum on the spindle
	Extraction Hose (×2)	: ID 51 mm (2"), L= 4M
	Noise Level	: <76 dB
Programming	Video Camera	: High-resolution video camera
Operation Monitoring	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	: Tool life optimization, Barcode support (1D or 2D), Autoloading of the last product, Tool bit diameter compensation, and Fiducial alignment. Other options are available.
Infeed System	Router Bit	: Tool life tracking, Tool breakage detection, Routed board count
	Vacuum	: Vacuum filter change alarm
	Machine Diagnostics	: Machine error history
Output P&P System	Incoming Conveyor	: Belt-type edge conveyor
	Width Adjustment	: Automatic (conveyor rail auto-adjust)
Outfeed System	PCB Handling Options	: Vacuum or gripper-type P&P end effectors
	Options	: Hybrid quick-conversion (vacuum ↔ gripper), PCB air cleaning
Safety Features	Outgoing Conveyor	: Flat belt with exposed length of 580 mm (default; options available)
	Options	: Bridge axis and other options are available upon customer request
	Communication Interface	: SMTA
Industry Compliance	E-stops, Spindle stop, Spindle motor overheat & Servo overload detection, Enclosed work area with safety doors	
	SEMI Standards	: SECS/GEM compliant
	ESD	: SEMI S2/S8 compliant
Dimensions & Utilities	Machine Size	: 1650 W × 1700 D × 1625 H mm
	Vacuum Tank Size	: 2 × 400 Ø × 800 H mm
	Weight	: Approx. 1420 kg (Main) + 50 kg (2 Tanks) + 35 kg (Conveyor)
	Power Supply	: 3+N+E, 380–415V 50Hz, 14 kW (S2/S8, Non-CE) or 3+E, 208–240V 60Hz, 14 kW (S2/S8)
	Air Supply	: 6 bars