GETECH

"Performance, Value, Integrity"

Call us on +65 6756 0777

OVER 25 YEARS IN THE INDUSTRY

GAR1200 GETECH AUTOMATIC ROUTER

TOTAL SOLUTION FOR ROUTER BUSINESS

As a world leader in PCB Depaneling systems, **GETECH** presents **GAR1200**. A machine designed for high-speed routing and high volume production of PCB panels.
350mm x 310mm

FEATURES

- DUAL TABLES
- SMALL MACHINE FOOTPRINT
- HIGH ACCURACY & QUALITY CUT
- HIGH-SPEED ROUTING & THROUGHPUT
- READY FOR IN-LINE AUTOMATION
- HIGH-RESOLUTION CAMERA
- AUTOMATIC TOOL CHANGE
- SAFETY PROTECTION
- POWERFUL DUAL VACUUM SYSTEM
- USER FRIENDLY SOFTWARE
- CE CERTIFICATION (OPTION)

GUARDIAN INDEPENDENT CERTIFICATION GiC

UKAS MANAGEMENT SYSTEMS 045

ISO 9001 : 2015 Cert. No.: 622220

GAR1200 Getech Automatic Router

Local Agent:

The GAR1200 is an in-line router machine specially designed to route (depanelize) large panels with PCB size up to 350mm x 310mm into individual units. It is a fast, space-saving, and accurate machine designed for high volume production with minimal operator participation. It has two worktables. While one of the worktables is in high-speed routing operation, the other worktable works with the robotic P&P module to unload boards and load the new PCB panel. This gives us 100% operational uptime without the issue of load/unload time.

Using a high-resolution CCD camera and GAR user-friendly Windows-based software allows users to program the routing paths in minutes. There are also no limitations in the number of programs stored. GAR1200 uses high-quality components and a welded steel structure to ensure rigidity and high performance. All the axes and linear guides used are protected from dust and dirt to increase lifespan and performance.

SPECIFICATIONS

Routing Capability	*Non-Routing* Speed	: 1000 mm/sec
	Routing Speed	: 100 mm/sec max (depending on material, cutting quality & tool diameter)
	Repeatability	: ±0.05 mm straight lines, curves, and interpolated profiles
Manipulator	Configuration	: X, Y, W, Z & E axis
	Manipulator Motors	: AC brushless servo motors
	Manipulator Repeatability	: ±0.02 mm
	Resolution	: ±0.01 mm
Workstation	Design	: Dual workstation with dedicated pin fixtures
	Panel Positioning	: Located by tooling holes or edges of PCB
	Panel Loading	: Automatic (In-line Automation ready)
	Panel Size	: 350mm x 310mm
	Panel Thickness	: 0.5 mm – 8.0 mm
	Component Height	: Top max. 10 mm, Total (Top + Bottom) max. 35mm
Spindle System	Spindle Motor	: 0.5 kW (60,000 rpm) spindle with ESD / Ceramic bearings
	Options	: 0.42 kW (100,000 rpm), 0.25 kW (60,000 rpm)
	Tool Change	: Auto-Tool Change (Available for 0.5 kW/0.42 kW Spindles)
	Cooling	: Ambient cooled
	Router bit	: Shank size 3.175 mm (1/8")
Dust Filtration System	Power	: 2 x 3.0 kW rotary vane vacuum blower
	Filtration	: 3 stage filtrations with disposable filter bag (10 microns)
	Vacuum Location	: Top vacuum on spindle
	Extraction Hose (x2)	: ID 51 mm (2”), L= 4M
	Noise Level	: <78 dB
Vision System	Video camera	: High resolution CCD video camera
Programming	System Platform	: Windows ® based Industrial PC (Win 10)
	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 last product, Tool bit diameter compensation, and Fiducial alignment. Other options are available.
Operation Monitor	Router Bit	: Tool life tracking, Tool breakage detection, Routed board count
	Vacuum	: Vacuum filter change alarm
	Machine	: Machine error history
Maintenance	Router Bit	: 100 to 300 M cutting distance before next tool change (depending on PCB)
	Filter Bag	: 1000 to 1500 M before next filter bag change
	Cleaning hose	: Extra hose for periodic internal cleaning included
Conveyor System	Incoming Conveyor	: Belt type edge conveyor
	Conveyor Width Adjustment	: Manual (Front rail – Fixed, Back rail – Manual adjust)
	Conveyor Direction	: Left to Right or Right to Left
	Communication	: SMEMA
	Offload module	: Customer specifications
Safety Features	E-stops, Spindle stop, Spindle motor overheat & Servo overload detection, Enclosed work area with safety doors	
Dimensions & Utilities	Machine Size (W x D x H)	: 1,750 mm x 1,450 mm x 1,700 mm
	Vacuum Tank Size (Ø x H)	: 2 x 400 mm x 800 mm
	Weight (Main + 2 Tanks)	: Approx. 1000kg + 50Kg
	Power Supply	: 3+N+E, 380~415V, 50 Hz or 3+E, 208~240V, 60 Hz; 10.5kW
	Air Supply	: 6 bars

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 | Email: sales@getecha.com