

GAR1200 Auto Router Machine

GAR is an inline router machine specially designed to route (de-panelize) printed circuit board assemblies (PCBA) into individual assemblies.

The GAR has two worktables accommodating a maximum PCB size of 350mm x 310mm per and with a dual PnP head for loading and unloading of PCBs.

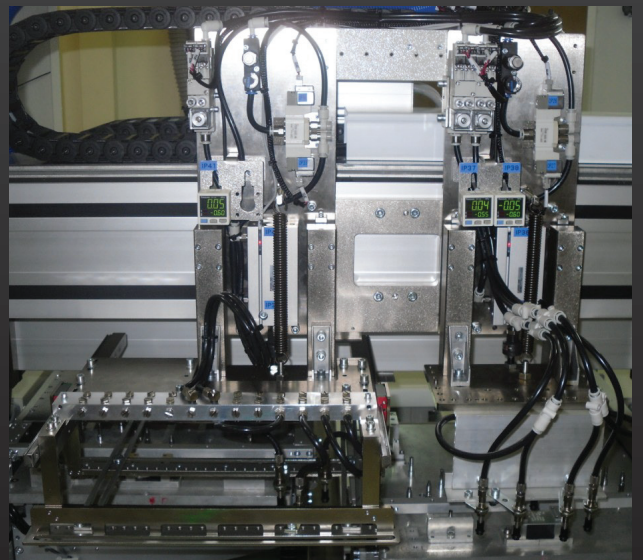
A new Graphical User Interface (GUI) with Getech's "Move, Teach & Cut" advanced control software provides user friendly "visual" programming for rapid and accurate online programming.

Available as a single table machine for larger PCBs.



FEATURES

- Large range of panel size up to 350 mm x 310 mm
- Powerful servo motors powered axis
- Dual Vacuum Blowers
- CE Certification (option)
- Small machine footprint



SPECIFICATIONS :

Routing capability

Non routing speed	: 1000 mm/sec
Repeatability	: +/- 0.1 mm
Cutting Speed	: 100 mm/sec max

Manipulator

Configuration	: X, Y, W, Z & E axis
Manipulator Motors	: AC brush less servo motors
Manipulator Repeatability	: ±0.02mm
Resolution	: ±0.01mm

Pick and Place Effector

Type : Vacuum

Workstation

Board Positioning	: Dual workstation with nest fixture or pin fixture
Panel Location	: Located by tooling holes or edges of PCB
Loading	: Automatic Loading
Unloading	: Automatic Unloading
Panel Size	: 350 mm x 310 mm
Panel Thickness	: 0.5 mm – 8.0 mm
Component Height	: Top max.10 mm, Bottom max. 20 mm

Spindle System

Spindle motor	: 0.15 kW spindle with ESD Ceramic bearings 0.5kW spindle (option)
Tool Change	: Automatic tool change (option)
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 filtration with disposable filter bag (10 microns)

Vision System

Video camera	: High resolution CCD video camera, : PCB Fiducial capturing (Optional)
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Programming

On line	: Vision assisted point to point manual teaching
Editing Function	: Dry run vision assisted / test run mode
Variable Functions	: Tool bit diameter compensation, Filter change interval (distance) setting. Other options available.

Safety Feature

"E" Stops, Spindle stop, Spindle motor overheat & Servo overload detection, Tool broken / dropped detection, Enclosed work area and doors with sensors.

Conveyor System

Incoming Conveyor	: Front Rail - Fixed, Back Rail - Manual width adjustment
PCB Conveyor Height	: 940 mm to 965 mm (37" ~ 38")
PCB Flow Direction	: Left to Right or Right to Left
Communication	: SMEMA
Outgoing Conveyor	: Customer specifications

MACHINE DIMENSIONS & UTILITIES :

Machine size	: 1.75 M x 1.45M x 1.70M
Weight	: 1200kg
Power Supply	: (options available)