



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 worktable accommodating a maximum PCB size of 350mm x 310mm and with a dual PnP head for loading and unloading of PCB.

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.

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

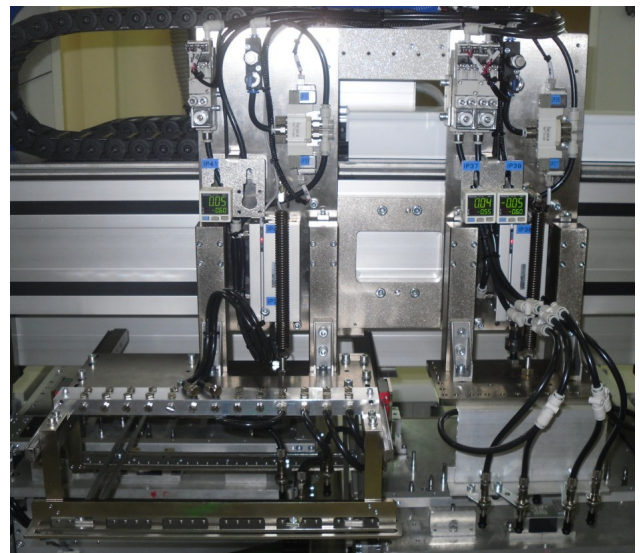
Non routing speed : 1000 mm/sec
 Repeatability : +/- 0.1 mm
 Cutting Speed : 100 mm/sec max

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)

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)

Local Agent: