

## GBR Bottom Router Machine

GBR is an in-line bottom router machine specially designed to route (depanelize) printed circuit board assemblies (PCBA) into individual assemblies.

PCB is received in the incoming conveyor and is located and clamped. The Gripper Finger Station securely handles the PCB. The bottom spindle router precisely routes the PCB.

After routing, the PCB is accurately placed in the outgoing conveyor while the frame is dropped onto the waste conveyor.

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 500 mm x 400 mm
- □ Powerful servo motors powered axis
- □ Auto conveyor width adjustment
- □ Auto Gripper finger change (option)
- ☐ Automatic program changeover (option)
- □ Good / Bad board segregation (option)
- ☐ Flat Belt or Bridge Axis outgoing conveyor



The information herein is subject to change without notice and should not be construed as a commitment by Getech Automation Pte Ltd.

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Local Agent:

## SPECIFICATIONS:

Routing capability

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

**Manipulator** 

Configuration : 9 axis

Manipulator Motors : AC brushless servo motors

Manipulator Repeatability : ±0.02mm Resolution : ±0.01mm

Spindle System

Spindle motor : 0.5 kW spindle with ESD Ceramic bearings

Cooling : Ambient cooled

Router bit : Shank size 3.175 mm (1/8")

**Dust Filtration System (External)** 

Power : 2 x 2.5 kW rotary vane vacuum blower

Filtration : 3 stage filtration with disposable filter bag (10 microns)

**Vision System** 

Video camera : CCD video camera

: Fiducial Mark Verification / Confirmation

**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 : Auto width adjustment

PCB Conveyor Height : 940 mm to 965 mm (37" ~ 38")

PCB Flow Direction : Left to Right Communication : SMEMA

Outgoing Conveyor : Flat Belt or Bridge Axis module

## SPECIFICATIONS:

Machine size : 1250mm x 1940mm x 1910mm

Weight : 1200kg

Power Supply : (options available)

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