

# GBR Automatic Bottom Router

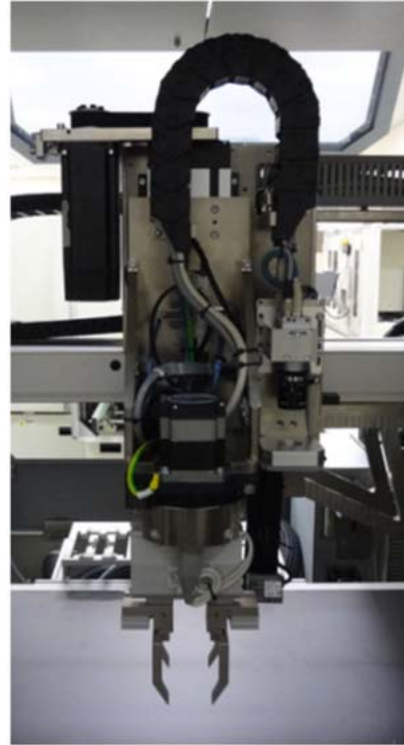


## Ideal for separation of PCBs out of a panel

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

The PCBs are received in the incoming conveyor and 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 sizes 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

## Spezifikationen

<b>Routing Capability</b>	
Non routing capability	1.000 mm/sec.
Repeatability	+/- 0.1 mm
Cutting speed	100 mm/Sec. max
<b>Manipulator</b>	
Configuration	9 axis
Manipulator motors	AC brushless servo motors
Manipulator repeatability	± 0,02 mm
Resolution	± 0,01 mm
<b>Spindel System</b>	
Spindel motor	0,5 kW spindel with ESD ceramic bearings
Cooling	Ambient cooled
Router bit	Shank size 3.175 mm (1/8")
<b>Dust filtration system (external)</b>	
Power	2 x 2,5 KW rotary vane vacuum blower
Filtration	3 stage filtration with disposable filter bag (10 microns)
<b>Vision system</b>	
Video camera	CCD video camera
	Fiducial mark verification/confirmation
<b>Programming</b>	
Inline	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.
<b>Safety Features</b>	
	"E" Stops, spindle stop, spindle motor overheat & servo overload detection, tool broken/dropped detection, enclosed work area and doors with sensors.
<b>Conveyor System</b>	
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
<b>Machine dimensions, weight and power requirement</b>	
Machine size W/D/H	1,25 m x 1,94 m x 1,91 m
Weight	1.200 kg
Power Supply	options available

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