

GSR Semi Automatic Router



Ideal for separation of PCBs out of a panel

The GSR1200 dual table router is a standalone router machine specially designed to route (de-panelize) printed circuit board assemblies (PCBA) into individual assemblies.

It is capable of speeds of up to 100mm/s and positioning speeds of 1000mm/s. It allows continuous routing with no stops during panel loading and unloading.

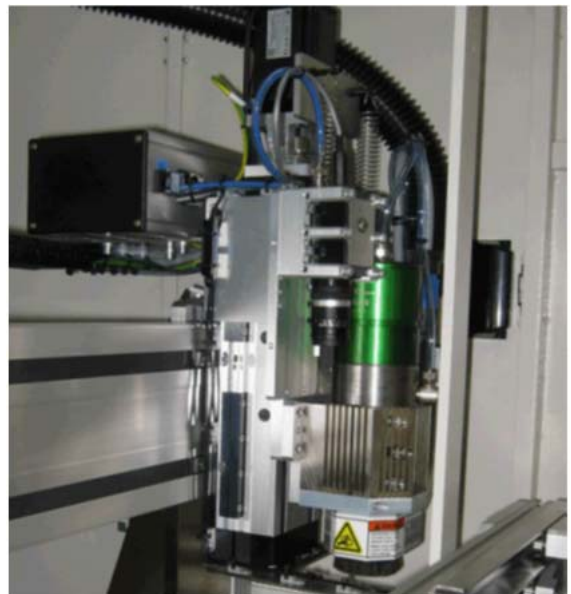
The superior quality axis system allows the system to have high acceleration/deceleration, reducing cycle time (increase in production output) and at the same time maintaining high accuracy.

Using a high resolution CCD camera, GSR user-friendly Windows-based software allows the user to program the routing paths in minutes. There are also no limitations in the number of programs stored.

GSR uses high quality components to ensure rigidity and high performance. The ball screw axis are protected to keep out any dust or dirt. This will increase the life and performance of the axis.

Features:

- Large range of panel size up to 350 mm x 350 mm
- Powerful servo motors powered axis
- Dual Vacuum Blowers
- Rigid fixturing and easy replacement
- Universal and dedicated fixtures available



Specifications

Manipulator	
Configuration	X, Y, W & Z axis
Manipulator motors	4 axis AC brushless servo motors
Manipulator repeatability	± 0,02 mm
Resolution	± 0,01 mm
Workstation	
Board Positioning	Dual workstation with next fixture or pin fixture
Panel Location	Located by tooling holes or edges of PCB
Loading/Unloading	Manual Loading / Unloading
Panel Size	350 mm x 350 mm
Panel Thickness	0,4 mm – 8,00 mm
Spindel System	
Spindel motor	0,15 kW or 0,5 kW spindle with ESD ceramic bearings
Max. Speed	60.000 rpm
Tool Change	Manual tool change
Cooling	Ambient cooled
Router bit	Shank size 3.175 mm (1/8")
Dust filtration system (external)	
Power	2 x 3,0 KW rotary vane vacuum blower
Filtration	3 stage filtration with disposable filter bag (10 microns)
Operating System	
Spindle Speed	5.000 to 60.000 rpm adjustable via frequency converter
Non-Routing Speed	1.000 mm/sec.
Routing Speed	100 mm/sec. max. (depending on material, cutting quality & tool diameter)
Repeatability	<0,1 mm straight lines, curves and interpolated profiles
Maintenance	
Spindle Bearing	ESD Ceramic bearings
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
Safety Features	"E" Stops, spindle stop, spindle motor overheat & servo overload detection
Noise Level	<78 dB
Programming	
System Platform	Windows® based Industrial PC
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. Tool bit wear compensation. Other options available.
Options	Bar code support (1D or 2D), Fiducial alignment
Vision System	
Video camera	High resolution CCD video camera
Operation Monitor	
Router Bit	Tool life tracking, PCB board count, tool broken sensor
Vacuum	Vacuum filter change alarm
Machine	Machine error history
Machine dimensions & utilities	
Machine size W/D/H	1,30 m x 1,30 m x 1,70 m
Weight	650 kg
Power Supply	208 V, 60 Hz, 415 V, 50 Hz

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We are looking forward to your challenge!

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