

SPR SMALL PANEL ROUTER

THE SOLUTION FOR HIGH VOLUME SMARTPHONE PCBs

As the world leader in PCB Depaneling Systems, GETECH presents SPR. A machine designed for high-speed routing and high volume production of Small PCB panels (190mm x 190mm)



FEATURES

HIGH-SPEED ROUTING & THROUGHPUT

DUAL TABLES

READY FOR IN-LINE AUTOMATION

SPACE SAVING LENGTH 890MM

HIGH-RESOLUTION CAMERA

AUTOMATIC TOOL CHANGE

SAFETY PROTECTION

HIGH ACCURACY QUALITY CUT

POWERFUL VACUUM SYSTEM

USER FRIENDLY SW



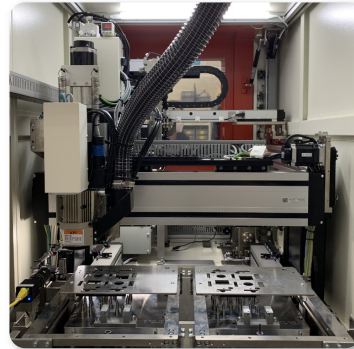
ISO 9001 : 2015 Cert. No.: 622220

SMALL PANEL ROUTER

SPR is an in-Line machine specially designed to separate small panels with PCB size of 190mm x 190mm into the individual PCBs. It is a fast, space-saving, and accurate machine designed for high volume production with minimal operator participation.

SPR has two worktables. While one of the worktables is in high-speed routing operation, the other worktable works with the robotic P&P module to unload boards and to load the new PCB panel. This gives us 100% operational uptime without the issue of load/unload time.

Local Agent:



Vacuum Assembly

SPECIFICATIONS

Routing Capability	Non-routing speed	: 1200 mm/s
	Repeatability	: ±0.1 mm
	Routing speed	: 100 mm/s max
Manipulator	Configuration	: X, Y, W, Z, E, F & G axis
	Manipulator Motors	: AC brushless servo motors
	Manipulator Repeatability	: ±0.02mm
	Resolution	: ±0.01mm
Workstation	Design	: Dual workstation with nest fixture or pin fixture
	Panel Positioning	: Located by tooling holes or edges of PCB
	Loading / Unloading	: Automatic
	Panel Size	: 190 mm x 190 mm
	Panel Thickness	: 0.5 mm – 3.0 mm
	Component Height	: Top max. 11 mm, Bottom max. 23 mm
Spindle System	Spindle motor	: 500W spindle with ESD Ceramic bearings
	Tool Change	: Automatic tool change (Option)
	Cooling	: Ambient cooled
	Router bit	: Shank size 3.175 mm (1/8")
Dust Filtration System	Power	: 3.0 kW rotary vane vacuum blower
	Filtration	: 3 stage filtrations with disposable filter bag (10 microns)
	Vacuum Location	: Top vacuum on spindle
	Vacuum Brush Solution	: Spring Loaded Holder (NEW!)
Vision System	Video camera	: High resolution CCD video camera
	Options available	: PCB Fiducial capturing, Barcode Reading, Debris Detection, and Toolbit Diameter Measurement
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.
Operation Monitor	Router Bit	: Tool life tracking, PCB board count, tool broken sensor
	Vacuum	: Vacuum filter change alarm
	Misload Detection	: Height check by Laser Sensor (Option)
	Machine	: Machine error history
Conveyor System	Incoming Conveyor	: Automatic Width adjustment (NEW!)
	PCB Flow Direction	: Left to Right or Right to Left
	Communication	: SMEMA
	Outgoing Conveyor	: Customer specification
Safety Feature	"E" Stops, Spindle stop, Spindle motor overheat & Servo overload detection, Enclosed work area	
Machine Dimensions & Utilities		
	Machine Size (WxDxH)	: 890mm x 1600mm x 1750mm
	Conveyor Exposed Length	: Default 200mm (Options available)
	Vacuum Assembly Size (WxDxH)	: 650mm x 700mm x 890mm
	Weight (Main + Vacuum)	: Approx. 870kg + 123kg
	Power Supply	: Options available