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SPR SMALL PANEL ROUTER

GETECH

THE SOLUTION FOR HIGH VOLUME SMARTPHONE PCBs

As a world leader in PCB Depaneling systems, **GETECH** presents **SPR**. An in-line machine designed for highspeed 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 SOFTWARE

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ISO 9001 : 2015 Cert. No.: 622220

SPR-BV03-02.22

SMALL PANEL ROUTER

The SPR is an in-line router machine specially designed to route (depanelize) small panels with PCB size up to 190mm x 190mm into individual units. It is a fast, space-saving, and accurate machine designed for high volume production with minimal operator participation. It 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 load the new PCB panel. This gives us 100% operational uptime without the issue of load/unload time.

Using a high-resolution CCD camera and SPR user-friendly Windowsbased software allows users to program the routing paths in minutes. There are also no limitations in the number of programs stored. SPR uses high-quality components and a welded steel structure to ensure rigidity and high performance. All the axes and linear guides used are protected from dust and dirt to increase lifespan and performance.

Local Agent:





SPECIFICATIONS

Routing Capability	Non-Routing Speed Routing Speed Repeatability	: 1200 mm/sec : 100 mm/sec max (depending on material, cutting quality & tool diameter) : Typical ±0.1 mm for straight lines, curves, et al. Under controlled condition ±0.05 mm
Manipulator	Configuration Manipulator Motors Manipulator Repeatability Resolution	: X, Y, W, Z, E, F, & G axis : AC brushless servo motors : ±0.02 mm : ±0.01 mm
Workstation	Design Panel Positioning Panel Loading Panel Size (L x W) Panel Thickness Component Height	 : Dual workstation with dedicated pin fixtures : Located by tooling holes or edges of PCB : Automatic (In-line Automation ready) : 190mm x 190mm : 0.5 mm - 3.0 mm : Top max. 11 mm, Bottom max. 23 mm
Spindle System	Spindle Motor Tool Change Cooling Router bit	: 0.5 kW (60,000 rpm) spindle with ESD / Ceramic bearings : Auto-Tool Change (Option) : Ambient cooled : Shank size 3.175 mm (1/8")
Dust Filtration System	Power Filtration Vacuum Location Vacuum Brush Solution	: 3.0 kW rotary vane vacuum blower : 3 stage filtrations with disposable filter bag (10 microns) : Top vacuum on spindle : Spring Loaded Holder (NEW!)
Vision System	Video camera Options available	: High resolution CCD video camera : PCB Fiducial capturing, Barcode Reading, Debris Detection, and Toolbit Diameter Measurement
Programming	System Platform Product Setup Variable Functions	 Windows [®] based Industrial PC (Win 10) Vision assisted point to point manual teaching; Vision assisted editing function; Test-run mode Tool bit diameter compensation, Filter change interval (distance) setting.
Operation Monitor	Router Bit Vacuum Misload Detection Machine	: Tool life tracking, Tool breakage detection, Routed board count : Vacuum filter change alarm : Height check by Laser Sensor (Option) : Machine error history
Maintenance	Router Bit Filter Bag Cleaning hose	: 100 to 300 M cutting distance before next tool change (depending on PCB) : 1000 to 1500 M before next filter bag change : Extra hose for periodic internal cleaning included
Conveyor System	Incoming Conveyor Conveyor Width Adjustment Outgoing Conveyor Communication Offload module	: Belt type edge conveyor (Left to Right or Right to Left) : Automatic width adjustment (NEW!) : Flat Belt - exposed length of 200 mm (default, options available) : SMEMA : Customer specifications
Safety Features	E-stops, Spindle stop, Spindle motor overheat & Servo overload detection, Enclosed work area with safety doors	
Dimensions & Utilities	Machine Size (W x D x H) Vacuum Assy Size (W x D x H) Weight (Main + Vacuum) Power Supply Air Supply	: 890 mm x 1600 mm x 1750 mm : 650 mm x 700 mm x 890 mm : Approx. 870kg + 123kg : 3+N+E, 380~415V, 50 Hz or 3+E, 208~240V, 60 Hz : 6 bars

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