The GSR1200 dual table router is a stand alone 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 stoppages 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 (13.5” x 13.5”)
- Powerful servo motors powered axis
- CE Certification (Option)
- 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: ±0.02mm
- Resolution: ±0.01mm

**Workstation**
- Board Positioning: Dual workstation with nest 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 (13.5" x 13.5")
- Panel Thickness: 0.4 mm – 8.0 mm

**Spindle System**
- Spindle motor: 0.15 kW or 0.5kW 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**
- 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: 1000 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
- 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. 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: 1.30 M x 1.30M x 1.70M
- Weight: 650kg
- Power Supply: 208 V, 60Hz, 415 V, 50 Hz