

GSR1200 SEMI-AUTO ROUTER MACHINE

TOTAL SOLUTION FOR ROUTER BUSINESS

As a world leader in PCB
Depaneling systems, GETECH
presents **GSR1200**. A stand-
alone machine designed for
high-speed routing and high
volume production PCB panels.
350mm x 350mm (13.7" x 13.7")



FEATURES

DUAL TABLES

HIGH-SPEED ROUTING

MANUAL LOADING/UNLOADING

HIGH-RESOLUTION CAMERA

RIGID FIXTURING AND EASY REPLACEMENT

UNIVERSAL/DEDICATED FIXTURES & TOP CLAMP LIFTER AVAILABLE

SAFETY PROTECTION ENCLOSURE CABINET W/ INTERNAL PARTITION

HIGH ACCURACY & QUALITY CUT

POWERFUL DUAL VACUUM SYSTEM

USER FRIENDLY SOFTWARE

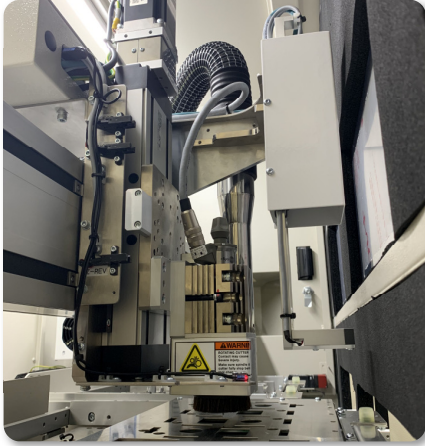
CE CERTIFICATION (OPTION)



ISO 9001 : 2015 Cert. No.: 622220

GSR 1200 Semi-auto Router Machine

Local Agent:



The GSR1200 is a standalone router machine specially designed to route (de-panelize) large panels with PCB size of 350mm x 350mm into individual units. It is capable of speeds of up to 100mm/s and positioning speeds of 1000mm/s. It has two worktables that allows continuous routing with no stoppages during panel loading and unloading. The superior servo axis system provides high acceleration/deceleration, reducing cycle time (increase in production output) and at the same time maintaining high accuracy cutting.

Using a high-resolution CCD camera, and 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. GSR1200 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.

SPECIFICATIONS

| | | |
|-----------------------------------|--|---|
| Routing Capability | 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 |
| Manipulator | Configuration | : X, Y, W & Z axis |
| | Manipulator Motors | : AC brushless servo motors |
| | Manipulator Repeatability | : ±0.02 mm |
| | Resolution | : ±0.01 mm |
| Workstation | Design | : Dual workstation with dedicated pin fixtures, Manual panel Loading/unloading |
| | Panel Positioning | : Located by tooling holes or edges of PCB |
| | Panel Size | : 350 mm x 350 mm |
| | Panel Clamping | : Hinged Top clamp with gas spring assist (Option: Auto Top Clamp) |
| | Panel Thickness | : 0.4 mm – 3.0 mm (Option: 0.4 mm – 8.0 mm with 0.5 kW Spindle) |
| | Component Height | : Top max. 12 mm, Bottom max. 25 mm (Standard) / 50 mm (Option) |
| Spindle System | Spindle Motor | : 0.25 kW (60,000 rpm) spindle with ESD / Ceramic bearings |
| | Options | : 0.5 kW (60,000 rpm) / 0.42 kW (100,000 rpm) |
| | Tool Change | : Manual tool change (Option: Auto-Tool Change with 0.5 kW/0.42 kW Spindle) |
| | 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 filtrations with disposable filter bag (10 microns) |
| | Vacuum Location | : Top vacuum on spindle |
| | Extraction Hose (x2) | : ID 51 mm (2"), L= 4M |
| | Noise Level | : <78 dB |
| Vision System | Video camera | : High resolution CCD video camera |
| Programming | System Platform | : Windows [®] based Industrial PC |
| | Product Setup | : Vision assisted point to point manual teaching, vision assisted editing function / 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 |
| Operation Monitor | Router Bit | : Tool life tracking, PCB board count, tool broken sensor |
| | Vacuum Machine | : Vacuum filter change alarm |
| | Machine | : Machine error history |
| Maintenance | 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 |
| | Cleaning hose | : Extra hose for internal periodic cleaning included |
| Safety Features | "E" Stops, Spindle stop, Spindle motor overheat & Servo overload detection, Enclosed work area | |
| Dimensions & Utilities | Machine Size (W x D x H) | : 1,300 mm x 1,300 mm x 1,700 mm |
| | Vacuum Tank Size (Ø x H) | : 2 x 400 mm x 800 mm |
| | Weight (Main + 2 Tanks) | : Approx. 650kg + 50Kg |
| | Power Supply | : 3-phase, 380~415V, 50 Hz, 13.0 kW 3-phase, 208~240V, 60 Hz, 22.6 kW |