GETECH

"Performance, Value, Integrity"

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OVER 30 YEARS IN THE INDUSTRY

# 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 of PCB panels (350 mm x 350 mm).


## 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)

GICG

UKAS MANAGEMENT SYSTEMS 0045

ISO 9001: 2015 Cert.No 622220

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A Member of Kanematsu Corporation

KANEMATS

# GSR1200 Semi-auto Router Machine

Local Agent:

The GSR1200 is a standalone router machine specially designed to route (depanelize) large panels with PCB sizes up to 350 mm x 350 mm into individual units. It is capable of speeds of up to 100 mm/s and positioning speeds of 1250 mm/s. It has two worktables that allow continuous routing with no stoppages during panel loading and unloading. The superior servo axis system provides a 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 users to program the routing paths in minutes. There are also no limitations on 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 are protected from dust and dirt to increase lifespan and performance.

## SPECIFICATIONS

| | | |
|---|---|---|
| **Routing Capability** | Non-routing Speed | : 1250 mm/sec max (X-axis), 1000 mm/sec max (Y&W axes) |
| | Routing Speed | : 100 mm/sec max (depending on the material, cutting quality & tool diameter) |
| | Repeatability | : Typical ±0.1 mm for straight lines, curves, et al. Under controlled conditions, ±0.05 mm |
| **Manipulators** | 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 Sizes | : 350 × 350 mm (subject to fixture configuration)<br>350 × 276 mm (with Auto-Tool Change) |
| | 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. 17 mm<br>Bottom max. 50 mm (option: max. 25 mm) |
| **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 2.55 kW rotary vane vacuum blower |
| | Filtration | : 3-stage filtrations with disposable filter bag (10 microns) |
| | Vacuum Location | : Top vacuum on the 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 (Win 11) |
| | Product Setup | : Vision-assisted point-to-point manual teaching; Vision-assisted editing function;<br>Test-run mode |
| | Variable Functions | : Tool bit diameter compensation, Filter change interval (distance) setting,<br>Tool bit wear compensation. Other options are available. |
| | Options | : Barcode support (1D or 2D), Fiducial alignment |
| **Operation Monitor** | Router Bit | : Tool life tracking, Tool breakage detection, Routed board count |
| | Vacuum | : Vacuum filter change alarm |
| | Machine | : Machine error history |
| **Maintenance** | Router Bit | : 100 to 300 M cutting distance before the next tool change (depending on PCB) |
| | Filter Bag | : 1000 to 1500 M before the next filter bag change |
| | Cleaning Hose | : Extra hose for periodic internal cleaning included |
| **Safety Features** | E-stops, Spindle stop, Spindle motor overheat & Servo overload detection, Enclosed work area with safety doors | |
| **Dimensions & Utilities** | Machine Size | : 1300 W (1475 W with side cover) x 1300 D x 1700 H mm |
| | Vacuum Tank Size | : 2 x 400 Ø x 800 H mm |
| | Weight (Main + 2 Tanks) | : Approx. 720 kg + 50 kg |
| | Power Supply | : 3+N+E, 380–415V 50Hz, 7.5 kW (CE Option) or 3+E, 208–240V 60Hz, 7.5 kW (Non-CE) |
| | Air Supply | : 6 bars |