

GETECH

"Performance, Value, Integrity"

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OVER 30 YEARS IN THE INDUSTRY

GSR1200E SEMI-AUTO ROUTER MACHINE

TOTAL SOLUTION FOR ROUTER BUSINESS

As a world leader in PCB Depaneling systems, GETECH presents GSR1200E. A stand-alone machine designed for high-speed routing and high-volume production of Large PCB panels (520 mm x 380 mm).



FEATURES

SINGLE LARGE TABLE

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 VACUUM SYSTEM

USER-FRIENDLY SOFTWARE

CE CERTIFICATION (OPTION)



ISO 9001: 2015

Cert.No 622220

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A Member of Kanematsu Corporation

KANEMATSU

GSR 1200E Semi-auto Router Machine

Local Agent:



The GSR1200E is a single-table standalone router machine specially designed to route (depanelize) large panels with PCB sizes up to 520 mm x 380 mm into individual units. It is capable of speeds of up to 100 mm/s and positioning speeds of 1250 mm/s. 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. GSR1200E 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-axis)
	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, & Z axis
	Manipulator Motors	: AC brushless servo motors
	Manipulator Repeatability	: ± 0.02 mm
	Resolution	: ± 0.01 mm
Workstation	Design	: Single large workstation with dedicated pin fixtures, Manual panel Loading/unloading
	Panel Positioning	: Located by tooling holes or edges of PCB
	Panel Sizes	: 520 x 380 mm (subject to fixture configuration) 520 x 306 mm (with Auto-Tool Change) 520 x 450 mm (without Top Clamp)
	Panel Clamping	: Hinged top clamp with gas spring assist
	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, Bottom 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
	Cooling	: Ambient cooled
	Router Bit	: Shank size 3.175 mm (1/8")
Dust Filtration System	Power	: Single 2.55 kW rotary vane vacuum blower (Option: Dual)
	Filtration	: 3-stage filtrations with disposable filter bag (10 microns)
	Vacuum Location	: Top vacuum on the spindle
	Extraction Hose	: ID 51 mm (2"), L= 4M
	Noise Level	: <75 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; Test-run mode
	Variable Functions	: Tool bit diameter compensation, Filter change interval (distance) setting, 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	: 400 \varnothing x 800 H mm
	Weight (Main + Tank)	: Approx. 700 kg + 25 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