

GETECH

"Performance, Value, Integrity"

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OVER 30 YEARS IN THE INDUSTRY

GSR1280XL SEMI-AUTO ROUTER MACHINE

TOTAL SOLUTION FOR ROUTER BUSINESS

As a world leader in PCB Depaneling systems, GETECH presents **GSR1280XL**.

A stand-alone machine designed for high-speed routing and high-volume production of Large PCB panels (610 mm x 610 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)



ISO 9001: 2015

Cert.No 622220

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A Member of Kanematsu Corporation

KANEMATSU

GSR1280XL Semi-auto Router Machine

The GSR1280XL is a standalone router machine specially designed to route (depanelize) large panels with PCB sizes up to 610 mm x 610 mm into individual units. It is capable of speeds of up to 100 mm/s and positioning speeds of 1000 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. GSR1280XL 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.

Local Agent:



SPECIFICATIONS

Routing Capability	Non-routing Speed	: 1000 mm/sec max (X-axis), 800 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	: 610 $\times$ 610 mm (subject to fixture configuration) 610 $\times$ 510 mm (with Auto-Tool Change)
	Panel Clamping	: Hinged top clamp with gas spring assist (Option: Auto top clamp)
	Panel Thickness	: 0.4 mm – 8.0 mm
	Component Height	: Top max. 70 mm (max. 17 mm within 30 mm radial distance) Bottom max. 70 mm
Spindle System	Spindle Motor	: 0.5 kW (60,000 rpm) spindle with ESD / Ceramic bearings
	Tool Change	: Manual tool change (Option: Auto-Tool Change, 14 stations for 2 tables)
	Cooling	: Ambient cooled
	Router Bit	: Shank size 3.175 mm (1/8")
Dust Filtration System	Power	: 2 $\times$ 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; 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	: 1900 W (2075 W with side cover) x 1745 D x 1700 H mm
	Vacuum Tank Size	: 2 $\times$ 400 $\varnothing$ x 800 H mm
	Weight (Main + 2 Tanks)	: Approx. 1200 kg + 50 kg
	Power Supply	: 3+N+E, 380–415V 50Hz, 12.5 kW (CE) or 3+E, 208–240V 60Hz, 12.5 kW (Non-CE)
	Air Supply	: 6 bars