

# GETECH

"Performance, Value, Integrity"

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OVER 30 YEARS IN THE INDUSTRY

# GSR1280 SEMI-AUTO ROUTER MACHINE

## TOTAL SOLUTION FOR ROUTER BUSINESS

As a world leader in PCB Depaneling systems, GETECH presents **GSR1280**.

A stand-alone machine designed for high-speed routing and high-volume production of Large PCB panels (520 mm x 520 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**

# GSR 1280 Semi-auto Router Machine

Local Agent:

The GSR1280 is a standalone router machine specially designed to route (depanelize) large panels with PCB sizes up to 520 mm x 520 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. GSR1280 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

<b>Routing Capability</b>	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 $\pm 0.1$ mm for straight lines, curves, et al. Under controlled conditions, $\pm 0.05$ mm
<b>Manipulators</b>	Configuration	: X, Y, W, & Z axis
	Manipulator Motors	: AC brushless servo motors
	Manipulator Repeatability	: $\pm 0.02$ mm
	Resolution	: $\pm 0.01$ mm
<b>Workstation</b>	Design	: Dual workstation with dedicated pin fixtures, Manual panel Loading/unloading
	Panel Positioning	: Located by tooling holes or edges of PCB
	Panel Sizes	: 520 x 520 mm (subject to fixture configuration) 520 x 446 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. 17 mm Bottom max. 50 mm (option: max. 25 mm)
<b>Spindle System</b>	Spindle Motor	: 0.5 kW (60,000 rpm) spindle with ESD / Ceramic bearings
	Tool Change	: Manual tool change (Option: Auto-Tool Change)
	Cooling	: Ambient cooled
	Router Bit	: Shank size 3.175 mm (1/8")
<b>Dust Filtration System</b>	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	
<b>Vision System</b>	Video Camera	: High-resolution CCD video camera
<b>Programming</b>	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
<b>Operation Monitor</b>	Router Bit	: Tool life tracking, Tool breakage detection, Routed board count
	Vacuum	: Vacuum filter change alarm
	Machine	: Machine error history
<b>Maintenance</b>	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
<b>Safety Features</b>	E-stops, Spindle stop, Spindle motor overheat & Servo overload detection, Enclosed work area with safety doors	
<b>Dimensions &amp; Utilities</b>	Machine Size	: 1620 W (1795 W with side cover) x 1570 D x 1700 H mm
	Vacuum Tank Size	: 2 x 400 $\varnothing$ x 800 H mm
	Weight (Main + 2 Tanks)	: Approx. 900 kg + 50 kg
	Power Supply	: 3+N+E, 380–415V 50Hz, 7.5 kW (CE) or 3+E, 208–240V 60Hz, 7.5 kW (Non-CE)
	Air Supply	: 6 bars