

# 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 (500mm x 450mm).



## FEATURES

**HIGH-SPEED ROUTING**

**MANUAL LOADING/UNLOADING**

**HIGH-RESOLUTION CAMERA**

**RIGID FIXTURING AND EASY REPLACEMENT**

**UNIVERSAL/DEDICATED FIXTURES AVAILABLE**

**SAFETY PROTECTION ENCLOSURE CABINET W/ INTERNAL PARTITION**

**HIGH ACCURACY & QUALITY CUT**

**POWERFUL VACUUM SYSTEM**

**USER FRIENDLY SOFTWARE**

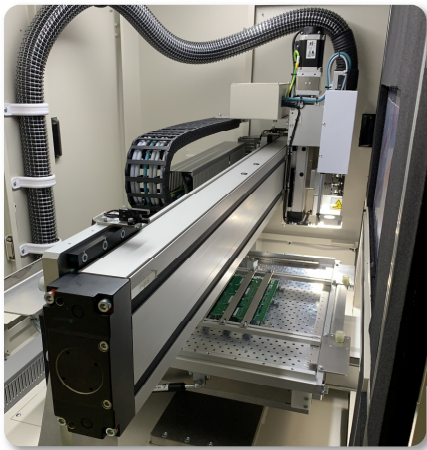
**CE CERTIFICATION (OPTION)**



ISO 9001 : 2015 Cert. No.: 622220

# 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 size up to 500mm x 450mm into individual units. It is capable of speeds of up to 100mm/s and positioning speeds of 1000mm/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 in 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 used are protected from dust and dirt to increase lifespan and performance.

## SPECIFICATIONS

<b>Routing Capability</b>	Non-Routing Speed	: 1000 mm/sec
	Routing Speed	: 100 mm/sec max (depending on material, cutting quality & tool diameter)
	Repeatability	: ±0.05 mm straight lines, curves, and interpolated profiles
<b>Manipulator</b>	Configuration	: X, Y, & Z axis
	Manipulator Motors	: AC brushless servo motors
	Manipulator Repeatability	: ±0.02 mm
	Resolution	: ±0.01 mm
<b>Workstation</b>	Design	: Single workstation with dedicated pin fixtures, Manual panel Loading/unloading
	Panel Positioning	: Located by tooling holes or edges of PCB
	Panel Size (mm)	: Length = 500, Width = 380 / 420 / 450
	Panel Clamping Options	: Hinged top clamp with gas spring assist (PCB width = 380mm) Removable top clamp (PCB width = 420mm / 450mm)
	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)	
<b>Spindle System</b>	Spindle Motor	: 0.25 kW (60,000 rpm) spindle with ESD / Ceramic bearings
	Options	: 0.5 kW (60,000 rpm)
	Tool Change	: Manual tool change
	Cooling	: Ambient cooled
	Router bit	: Shank size 3.175 mm (1/8")
<b>Dust Filtration System</b>	Power	: Single 3.0 kW rotary vane vacuum blower (Option: Dual)
	Filtration	: 3 stage filtrations with disposable filter bag (10 microns)
	Vacuum Location	: Top vacuum on spindle
	Extraction Hose	: ID 51 mm (2"), L= 4M
	Noise Level	: <75 dB
<b>Vision System</b>	Video camera	: High resolution CCD video camera
<b>Programming</b>	System Platform	: Windows <sup>®</sup> based Industrial PC (Win 10)
	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 next tool change (depending on PCB)
	Filter Bag	: 1000 to 1500 M before 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 w/ safety doors	
<b>Dimensions &amp; Utilities</b>	Machine Size (W x D x H)	: 1300 mm x 1300 mm x 1700 mm
	Vacuum Tank Size (Ø x H)	: 400 mm x 800 mm
	Weight (Main + Tank)	: Approx. 615kg + 25Kg
	Power Supply	: 3+N+E, 380~415V, 50 Hz or 3+E, 208~240V, 60 Hz; 6.5kW
	Air Supply	: 6 bars