

GSR2280 SEMI-AUTO ROUTER MACHINE

TOTAL SOLUTION FOR ROUTER BUSINESS

As a world leader in PCB Depaneling systems, **GETECH** presents **GSR2280**. A stand-alone machine designed for high-speed routing and high volume production of Large PCB panels (550mm x 585mm).



FEATURES

DUAL TABLES

HIGH-SPEED ROUTING

HIGH ACCURACY & QUALITY CUT

MANUAL LOADING/UNLOADING

AUTOMATIC SLIDING DOORS

UNIVERSAL/DEDICATED FIXTURES & TOP CLAMP LIFTER AVAILABLE

SAFETY PROTECTION ENCLOSURE CABINET W/ INTERNAL PARTITION

RIGID FIXTURING AND EASY REPLACEMENT

HIGH-RESOLUTION CAMERA

POWERFUL DUAL VACUUM SYSTEM

CE CERTIFICATION



ISO 9001 : 2015 Cert. No.: 622220

GSR2280 Semi-auto Router Machine

Local Agent:



The GSR2280 is a standalone router machine specially designed to route (depanelize) large panels with PCB sizes of 550mm x 585mm into individual units. It is capable of speeds of up to 100mm/s and positioning speeds of 1000mm/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 in the number of programs stored. GSR2280 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

Routing Capability	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
Manipulator	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 Size	: L550 mm x W585 mm
	Panel Clamping	: Hinged Top clamp with gas spring assist
	Panel Thickness	: 0.4 mm – 8.0 mm
	Component Height	: Top max. 12 mm, Bottom max. 25 mm (Standard) / 50 mm (Option)
	Panel Access	: Automatic Sliding door
Spindle System	Spindle Motor	: 0.5 kW (60,000 rpm) spindle with ESD / Ceramic bearings
	Options	: 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	: 2 x 3.0 kW rotary vane vacuum blower
	Filtration	: 3 stage filtrations with disposable filter bag (10 microns)
	Vacuum Location	: Top vacuum on 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 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
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 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
Safety Features	E-stops, Spindle stop, Spindle motor overheat & Servo overload detection, Enclosed work area w/ safety doors	
Dimensions & Utilities	Machine Size (W x D x H)	: 1620 mm x 1670 mm x 1700 mm
	Vacuum Tank Size (Ø x H)	: 2 x 400 mm x 800 mm
	Weight (Main + 2 Tanks)	: Approx. 1170kg + 50Kg
	Power Supply	: 3+N+E, 380~415V, 50 Hz or 3+E, 208~240V, 60 Hz; 10kW
	Air Supply	: 6 bars