

# PCB ROUTING SYSTEM

■ PRS-6000 Series ■



## FEATURES ■

- Specially dedicated design for mass production of In-line type
- Semi-automatic jig exchange system & top side routing method
- Extremely fast cutting speed by high-speed brushless DC motor spindle
- Fast, accurate movement and routing by AC servo motor
- Highly effective dust-removal by ionizer as well as by dust collector
- Machine operation and control based on robot controller
- Simple & easy cutting point teaching by vision system (option)
- Broken bit detection & bit change cycle check system (option)
- Automatic bit exchange & fool-proof system (option)

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## Robot Specification

Routing table travel	X : 500 mm, Y : 400 mm, Z : 100 mm
Transfer table travel	T : 1200mm, TZ : 100mm
Working area	Max 450mm × 350mm
Maximum speed	X, Y, Z axis : 1000 mm/sec T, TZ, axis : 1000mm/sec
Cutting speed	1 ~ 100mm/sec
Repeatability	±0.01mm for each axis
Cutting accuracy	±0.1mm
Program language	MDI, Jog
Drive method	AC servo motor driving
Control method	PTP, LINE, ARC, CIRCLE, SPLINE
Programmable axis	6 axis Simultaneous control (X,Y, Z and T, TZ axis)
Program environment	Manual Teaching
Controller	Robot control system
Display	TFT LCD monitor
Jig type	Specified clamping type
Transfer type	Air clamping and vacuum pad type
Data acquisition (Option)	Color CCD camera vision teaching system or Direct teaching using JOG function
Input height	950mm ± 30 mm
Ambient temperature	0°C ~ 40°C
Pneumatic requirement	5~7 Kg/cm <sup>2</sup>
Electrical requirement	AC 220V 50/60Hz, 1/3-phase 5KVA
Dimensions	Width : 1700 mm, Length : 1250 mm, Height : 1800mm
Weight	2200 Kg

## Spindle Tooling Specifications

Spindle motor	High-speed Brushless DC motor : Max 270W power Rotation speed : min 1000 ~ max 50000 rpm ( adjustable) Chuck diameter : $\phi$ 3.175mm Router bit : $\phi$ 0.8mm ~ $\phi$ 3.0mm
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## Dust Collecting Specifications

Vacuum motor type	Ring blower motor
Motor power	3.0Kw
Dust collector capacity	6.0m <sup>3</sup> /min
Constant pressure	2750mmAg
Bag filter	Polyester teflon , 8 pockets
Filter area	1.6m <sup>2</sup>
Noise filter	Include
Valve	Automatic valve control
Shaking control	Automatic shaking control
Dust hopper	Window hopper type
Electrical requirement	AC 220V 50/60Hz ± 10% 1.9KVA
Dimensions	Width : 550 mm, Length : 550 mm, Height : 1700mm
Weight	120 Kg

※ Specifications in this catalog are subject to change for better performance without prior notice.



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