SAYAKA **B**ROUTER

0

A



X-AX





I

SAYAKA SAM-CT23Q and **SAM-CT22S** are table-top, automatic precision PCB routers. The compact size and weight of these models are ideal for limited work spaces and versatility in production line set-up.

SAYAKA SAM-CT23Q



- n **Compact Table-Top Design** Sayaka's compact size and weight eases line arrangement and reduces time in setting up production.
- n **Automatic Operation with Safety Features** Easy push button control starts operation and safety door protects the operator during the routing process.

n Low-Cost Router

Precision table-top router with powerful dust collector offered at a competitive price.

SAYAKA SAM-CT22S

n Sophisticated Software (Windows-Based) for Easy Programming

Same features as SAM-CT23/56NJ series;

- Point-and-click computer programming
- Auto-alignment with CCD camera
- Program for extending router bit life
- n Automatic Operation and Safety Features Push button control and automatic safety door
- n No Compressed Air Required



SAM-CT230					
		SAM-	CT23Q	SAM-CT22S	
(Spindle Motor*)	Туре	Table Top			
BM13 (Standard) Type 4025 (Upgrade)	Program	Direct Teaching Method		Image Processing Software	
	Routing Area	250 x 350 mm (9.8" x 13.8")		250 x 250 mm (9.8" x 9.8")	
	Max PCB Thickness (Standard)	1.6 mm (0.063")	2.0 mm (0.079")	1.6 mm (0.063")	
	Max PCB Thickness (Option)	n/a	6.0 mm (0.236")	n/a	
	PCB Material	Glass Epoxy, CEM1, CEM3, FR4 etc.			
	Router Bit Diameter	0.8-3.0 mm (0.031"-0.079")			
	Repeatability	± 0.02 mm (± 0.0008")			
	Spindle Motor*	BM13 (40,000rpm)	4025 (max 60,000rpm)	4025 (max 60,000rpm)	
	Door**	Manual	Auto	Auto	
Door**	Electrical Power	AC200V 50Hz			
	Pneumatic	0.5MPa (72psi)		Not required	
n Manual (Standard)	Router Size & Weight	720W x 640D x 500H mm (28"W x 25"D x 20"H)		700W x 905D x 448H mm (28"W x 36"D x 18"H)	
n Automatic (Upgrade)		60kg (132 lbs)		67kg (148 lbs)	
	Dust Collector Model	VN	A-15	VF-5N	

SAYAKA SAM-CT23NJ / 56NJ Series are fast and accurate stand-alone PCB routers with a CCD camera and sophisticated image-processing software.

SAYAKA SAM-CT23NJ/56NJ

- n **Solution for Low-Stress Depanelization** High-speed router bit precisely cuts densely populated PCBs without stressing the board. Cutting paths can be set as close as 0.5mm to a component.
- n Advanced Image-Processing Software Offers Pointand-Click Operation for Programming Router Paths. CCD camera captures an image of the PCB and easy programming of cutting paths is achieved by simple Point-and-Click Windows-based operation on the computer screen. Time is reduced and programming is simplified by this software.
- n Automatic Alignment Compensation by CCD Camera CCD camera reads fiducial marks on a PCB and compensates for variance on relative position of cutting paths.
- n **Extended Router Bit Life** Automatic 5-stage depth adjustment extends bit life and reduces time and cost of replacement.
- n High-Speed X-Y Robot and Z-axis Servo Motor Reduces tact time and improves productivity
- n Small Footprint



SAM-CT23NJ	SAM-CT56NJ
Stand	Alone
Image Proces	ssing Software
250 x 350 mm (9.8" x 13.8")	500 x 600 mm (19.7" x 23.6")
2.0 mm	(0.079")
6.0 mm	(0.236")
Glass Epoxy, CEN	11, CEM3, FR4 etc.
0.8–3.0 mm (0	0.031" – 0.079")
± 0.01 mm	(± 0.0004")
4025 (max	60,000rpm)
Au	uto
3 phase AC	2 400V 50Hz
0.5MPa	a (72psi)
800W x 850D x 1422H mm (31"W x 33"D x 56"H)	1140W x 1125D x 1410H mm (45"W x 44"D x 56"H)
270kg (600 lbs)	500kg (1,100 lbs)
VNA	A-30

Router Programming Goes High-Tech

 ${\rm n}\,\,A$ quick and easy method to learn and use

0

- ${\rm n}$ Accurate software programming to 10 microns
- ${\rm n}\,$ Ideal for programming arcs and circles
- ${\tt n}\,$ Save thousands of programs as Windows files
- n Transfer programs to other routers with a jump drive
- n Real time display of cutting pattern, sequence and X/Y coordinates



Programming View

SAYAKA

- **Routing Order**
- X/Y Coordinates

SAYAKA offers two fully automated PCB in-line routers: SAM-CT23BP is equipped with a turn-table system for shortened tact time. SAM-CT23BPW is capable of handling a larger PCB up to 300 x 400 mm.

SAYAKA SAM-CT23BP

- n By utilizing a turn-table system, PCBs are moved quickly through the loading, cutting and unloading process.
 Operation time is reduced with a loading/unloading tact time of 4 seconds.
- n Fully automated in-line PCB router with a variety of optional loader and unloader systems available.



SAYAKA SAM-CT23BPW

- n Versatile in-line PCB router capable of handling up to 300 x 400 mm (11,8" x 15,7") PCB.
- n Fully automated in-line PCB router with a variety of optional loader and unloader systems available.
- n Easy and quick changeover of program and jigs.
- n Conveyor equipped with auto-width adjustment function.

	SAM-CT23BP	SAM-CT23BPW	
Туре	In-line		
Program	Direct Teaching Method		
Routing Area	250 x 350 mm (9.8" x 13.8")		
Max PCB Thickness (Standard)	2.0 mm (0.079")		
Max PCB Thickness (Option)	6 mm (0.236")		
PCB Material	Glass Epoxy, CEM1, CEM3, FR4 etc.		
Router Bit Diameter	0.8-3.0 mm (0.031"-0.079")		
Repeatability	± 0.01 mm (± 0.0004")		
Spindle Motor	4025 (max 60,000rpm)		
Door	Manual door for maintenance		
Electrical Power	3 phase AC400V 50Hz		
Pneumatic	0.5MPa (72psi)		
Router Size & Weight	2162W x 1000D x 1388H mm (85"W x 39"D x 55"H) 480kg (1,060 lbs)	2000W x 900D x 1520H mm (79"W x 35"D x 58"H) 650kg (1,430 lbs)	
Dust Collector Model	VNA-30		



A CAUTION

SAYAKA

-

Pick & Place for Loading/Unloading PC Board.

All specifications are subject to change without prior notice.

SEIKA SANGYO GMBH

Heltorferstr. 16 40472 Düsseldorf · Germany Telefon: +49 (0)211-41580 Telefax: +49 (0)211-4791428 Manufactured by SAYAKA Co., LTD., Japan