

PCB Separator

The Best Solution for PCB Depaneling

Series
Start Your Journey Today



**TAIWAN
EXCELLENCE**

Symbol of Excellence, Taiwan
Your Best Solution for PCB Depaneling

English Version

www.aurotek.com.tw

PCB Separation

The Best Solution



HIGH PRECISION INSIDE

www.aurotek.com.tw

artor *Series*

for PCB Depaneling



AUTOMATIC PROCESSING

HIGH

SPEED
RELIABILITY
STABILITY





In 1980, Aurotek Took Its First Step in Taiwan

For three decades, Aurotek upholds its reputation and work spirit for sharing high-tech industry experiences, delivering high value-added services and solutions, and helping customers achieve greater value through its introduction of advanced and quality components, acquirement of new technology concepts, and constant pursuit of excellence in industrial design.

Your One-Stop Solution Provider

From self-lubricated parts, transmissions, power transmissions, drive systems, to controllers and robotics for PCB, SMT, LCD, optical, solar and semiconductor equipment to architectural applications/designs for window operators, seismic isolation systems, and anti-earthquake devices, Aurotek offers not only the products but also a potent concept that can improve design efficiency, which in turn benefits both designers and users.

Recognition and Responsibility

Aurotek has established a strong brand name and reputation under the "Aurotek" brand. Aurotek is a recipient of numerous awards -- 10th Annual National Award of Small & Medium Enterprise, 4th Annual Rising Star Award, 8th Annual Small & Medium Enterprise Innovation Research Award, 2008 National Quality Award", and four-time winner (1 Gold and 3 Silver) of Symbol of Taiwan Excellence Award. These awards serve as the tangible recognition of Aurotek's operation achievement and R&D competence, and the motivational foundation moving forward.

Global View

Aurotek is a public listing company in Taiwan Stock Exchange. Founded in Taiwan, Aurotek has expanded its reach to the global marketplace through years of dedicated work. Aurotek strives at playing the vital role in the supply chain of its suppliers and customers. Aurotek has setup overseas offices, plants and subsidiaries in Japan, China and Thailand to serve international customers in a real-time and near-site basis. In addition, Aurotek is actively seeking to expand into new overseas locations in response to market demand.

***Y-S330** Series*

Depaneling Specialist Your Best Solution Creator

Y-S330DT _____ P1.
Desktop PCB Separator

Y-S330W _____ P3.
Twin Table PCB Separator

Y-S330L _____ P5.
Twin Large Table PCB Separator

Y-S330IN-LINE-SL/SR _____ P7.
In-Line PCB Separator

Y-S330IN-LINE-HL/HR _____ P9.
In-Line Twin Table PCB Separator

Y-S330IN-LINE-SL(L)/SR(L) _____ P11.
In-Line Single Table PCB Separator

Y-S168CE _____ P13.
Twin Table PCB Separator

Journey to Visionary Solution



Your Qualified & Reliable Teammate

Make "A Complete Solution from One Source" Come True

"A Complete Solution from One Source" is not a slogan, but an attitude of implementation. Customers usually don't choose the "best" but an "optimized" solution, and the costperformance ration is highly considered for what we called "optimized". Automation & Robotics BU is with a strong sales team for business triggering, product managers are responsible for technical consultation, FAEs for onsite teaching, and a service team for on-calls. The various product lines in different segments provide different ideas of designs. The chart shown as follows reflects some key components adopted on PCB separator.



MOTION CONTROL SYSTEM

PC-Based Control Board (Up to 32 Axes Servo Motor)

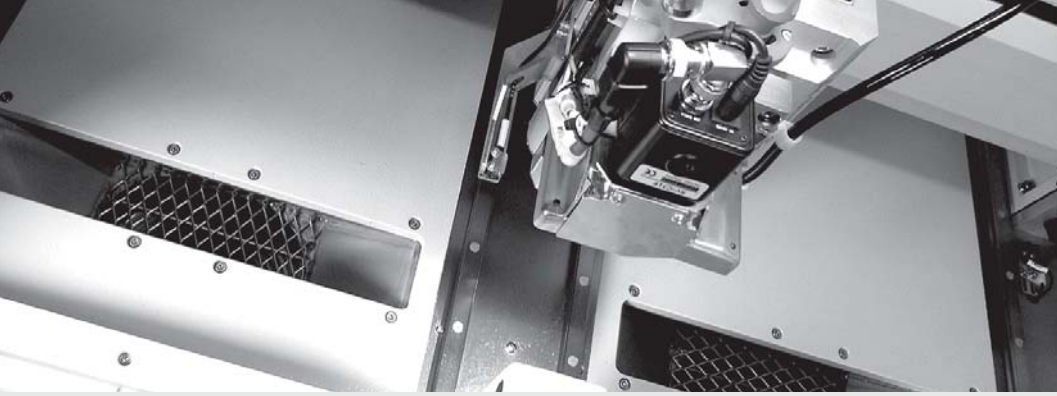
After years of effort, Aurotek's own developed motion control systems launched. Our R&D team has successfully integrated both software and hardware to bring our PCB Separator a highly speedy and accurate routing function.

AXIS MODULE SERIES

All these perfect functionality depends on our multi-functional motion control board. And axis Module is fully integrated with control board. Inside this lightweight aluminum frame, equipped with quality ball screw and customized design.

Our Proudest Innovation from Aurotek





γ -S330 Series Standard Features

Aurotek's PCB separators are all in a strong basis of excellent functions and with all these integration, we create the finest quality to our global customers. And we won't stop our progress to growth and innovation.



Safety Area Sensor

Aurotek always pay our best attention to prevent any accident during operation with immediate stop function and abide by CE standard.



Routing Bit Sectioning

The user may set a designated distance, and have the routing bit shift down in order to make a new section of routing bit to cut boards for multiplying the life of the routing bit.



Bit Break Detection

During every routing task, this system will detect any variable change of bit, and notice the user with alarm system.

Hardware

- Routing Bit Sectioning
- Speedy Spindle
- Tool Break Detection
- ESD-Proof Device
- Safety Sensor

Software

- Graphical User Interface
- CCD Image Pathway Simulation
- Fiducial Mark / Positioning Function

110% Production Efficiency

Our separators succeed to increase customers production efficiency 10% more than other

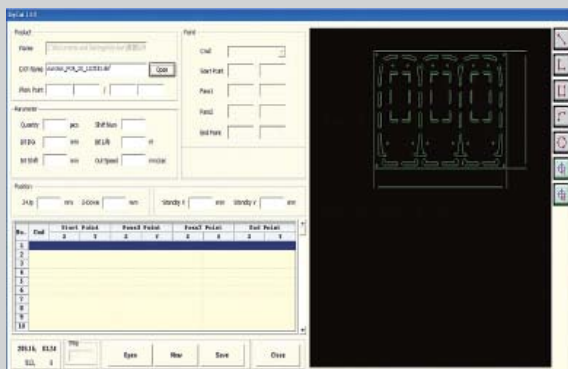
± 0.08 mm Cutting Precision

Aurotek has kept improving our routing quality to precisely meet customers need.

$Cpk \geq 1.33$

Quality and stability are one of our main attentions. We urge ourselves to grow with better

$\pm 0.08\text{mm}$ Cutting Precision Function PLUS+



Automatic Bit Change System

When the cutting bit reaches its limit, the system replaces a new bit and resumes production automatically. It dramatically reduces time for production changeover.

Bit Broken / Sliding Detection Sensor

The condition of routing bit directly influences the cutting performance. We equip bit broken / sliding sensor to detect whether the bit is clipped properly and the using condition of bit.

Barcode Module & CIM / MES Data Integration

In response to Industry 4.0 era, the new complete data integration function can be easily setup and collects massive real-time production information and uploads it to the central terminal server instantly. Furthermore, to accompany to the needs of various manufacturers, this function is designed based on open source code for faster user customization. The new complete data-integration function allows the system manager to effortlessly monitoring the complete production status through a centralized monitoring center, and make any production schedule adjustment accurately and efficiently.

Off-Line Editing Program

In response to Industry 4.0 era, the new complete data integration The users only need to upload AUTO CAD DXF to Off-Line Editing Program, use mouse to simply create cutting program. Then use USB storage device to save the edited program and upload to machine USB port. Simple and efficient.



R-S330DT

Desktop PCB Separator

Teaching Pad & USB Port



Automatic Bit Broken Detection



It helps to detect any variable change of routing bit, which may influence the operation process. With double confirmation, Aurotek's separator provides clients with great functionality and excellent user experience.



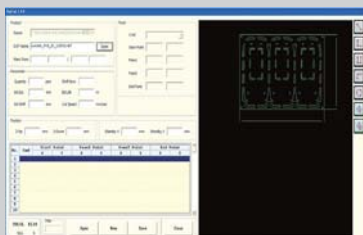
Routing Bit Sectioning



The routing device equipped high speed precision spindle motor to reduce the reaction pressure from work piece. Aurotek own designed PC-Based motion control board provides linear, circular motions to meet different kind of shape of PCB.



Off-Line Editing Program



The users only need to upload AUTO CAD DXF Off-Line Editing Program, use mouse to simply create cutting program. Then use USB storage device to save the edited program and upload to machine USB port. Simple and efficient.



Teaching Pad



Teaching Pad helps user to operate the separator easily. It provides convenient method to execute the routing path edit and programming.

***r*-S330DT**

Desktop PCB Separator

With *r*-S330DT desktop design, we offer you a small size and light weight quality separator. Make it a maneuverable configuration on the production line.

r-S330DT equipped with teaching pad function, which help the starter to operate and edit the program easily.

Specification	Fixture Table	1 Station
	Fixture Working Area	X:330mm, Y:330mm, Z:60mm
	Cutting Area (Max.)	X:330mm, Y:330mm
	PCB Height (Max.)	Upside:15mm Downside:Universal Jig - 35 mm, Specific Jig - 45 mm
	PCB Thickness	0.5 ~ 2.0 mm (Please advise Aurotek when the thickness is more than 2 mm)
	Standard Router Bit Diameter	Ø 1.0, Ø 1.2, Ø 1.6, Ø 2.0 mm
	Cutting Accuracy	± 0.1 mm
	Positioning Repeatability	± 0.01 mm
	Axes	3 Axes (X, Y, Z)
	Moving Speed (Max.)	X, Y : 500 mm/sec, Z: 100 mm/sec
	Cutting Speed (Max.)	X, Y, Z: 100 mm/sec
	Spindle Rotation	265W / 58,000 rpm (Air Chuck System)
	Router Bits Change	Manual
	Cutting Mode	Linear, Circular, U-curve, Arc, L-curve
	X,Y,Z Axes Control	AC Servo Motors
	Cutting Feed	0 ~ 9 times (Depending on the PCB thickness on the PCB Thickness)
	Route Planning	Teach Pad guided by CCD camera
	Safety Area Sensor	N/A
	Broken Router Bit Detection	Standard
	Program Storage	EEPROM
	Method to back up the program	USB
	Operating System	N/A
	Man-Machine Interface	Teach Pad
	Conveyor Width Adjustment	N/A
	Conveyor Load Capacity	N/A
	PCB Loading/Unloading	Manual
	Power Supply	Single Phase, AC220V±3% 50Hz/60Hz, 1.1 kw
	Pneumatic Pressure	0.5 Mpa
	Dimensions (W x D x H)	670 × 842 × 588 mm * Signal Light - 179.50 mm
	Net Weight for the machine	Approx. 118 KGS
	Height for Working Area (Max.)	1200 mm
	Vacuum Cleaner	YSF-V553 ZETA 3HP 2.2kw



R-S330W

Twin Table PCB Separator



High Driving Speed 1000mm/sec



Twin Sliding Tables



This work exchanger provides a simultaneously in-and-out working space to limit the idle time, which in turn reaches the utmost output value.



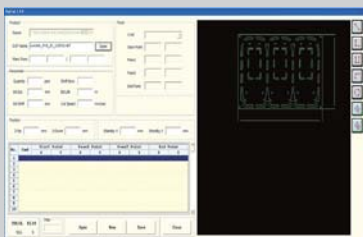
Router Bit Sectioning



The user may set a designated distance, and have the routing bit shift down in order to make a new section of routing bit to cut boards for multiplying the life of the routing bit.



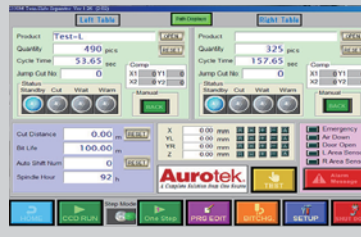
Off-Line Editing Program



The users only need to upload AUTO CAD DXF to Off-Line Edited Program, use mouse to simply create cutting program. Then use USB storage device to save the edited program and upload to machine USB port. Simple and efficient.



CCD Camera System



CCD image could check & simulate the path of routing to reduce unnecessary mistake before actual cutting.

r-S330W

Twin Table PCB Separator

r-S330W Separator's user-friendly function to assist in your production process. PC-based 4-axis motion controller is designed by Aurotek and 2-way Sliding Exchanger provides a simultaneously in-and-out working space to limit the idle time. Our depaneling system has been improving both accuracy and stability, for the purpose to provide customers higher C/P value products and service.

Specification	Fixture Table	2 Stations
	Fixture Working Area	X:330mm, Y:330mm, Z:60mm
	Cutting Area (Max.)	Max:X:330mm, Y:330mm
	PCB Height (Max.)	Upside:15mm Downside:Universal Jig - 35 mm, Specific Jig - 45 mm
	PCB Thickness	0.5 ~ 2.0 mm (Please advise Aurotek when the thickness is more than 2 mm)
	Standard Router Bit Diameter	Ø 1.0, Ø 1.2, Ø 1.6, Ø 2.0 mm
	Cutting Accuracy	± 0.08 mm
	Positioning Repeatability	± 0.01 mm
	Axes	4 Axes (X, YL, YR, Z).
	Moving Speed (Max.)	X, YL, YR : 1000 mm/sec, Z: 750 mm/sec
	Cutting Speed (Max.)	X, Y, Z: 100 mm/sec.
	Spindle Rotation	265W / 58,000 rpm (Air Chuck System) Options: 4025DC-T: 470W (Max:30,000rpm) ; 4033:500W (Max:100,000rpm)
	Router Bits Change	Manual
	Cutting Mode	Linear, Circular, U-curve, Arc, L-curve
	X,Y,Z Axes Control	AC Servo Motors
	Cutting Feed	0 ~ 9 times (Depending on the PCB thickness on the PCB Thickness)
	Route Planning	Set up paths guided by CCD camera manually.
	Safety Area Sensor	Standard
	Broken Router Bit Detection	Standard
	Program Storage	HDD
	Method to back up the program	USB
	Operating System	Windows 7
	Man-Machine Interface	LCD Monitor, Keyboard, Mouse
	Conveyor Width Adjustment	N/A
	Conveyor Load Capacity	N/A
	PCB Loading/Unloading	Manual
	Power Supply	3 Phase, AC220V±3% 50Hz/60Hz, 2.5 kw
	Pneumatic Pressure	0.5 Mpa
	Dimensions (W x D x H)	1190 × 1039 × 1401 mm * Signal Light - 525 mm
	Net Weight for the machine	Approx. 390 KGS
	Height for Working Area (Max.)	930 mm
	Vacuum Cleaner	YSF-V553 3HP 2.2 kw



R-S330L

Large Twin Table PCB Separator



Automatic Bit Changer System



When the cutting blade reaches its limit, the system will be replaced with a new blade and resume production automatically, it dramatically reduces configuration time, maintenance related personnel cost.



Safety Sensor



Aurotek always pays our best attention to prevent any accident during operation with immediate stop function. Therefore, we use block-out infrared sensors to reduce.



Router Bit Exchange



This work exchanger provides a simultaneously in-and-out working space to limit the idle time, which in turn reaches the utmost output value.



CCD Camera System



CCD image could check & simulate the path of routing to reduce unnecessary mistake before actual cutting.

R-S330L

Large Twin Table PCB Separator

R-S330L is the upgrade version of R-S330W but with larger working area and identical quality. For continuing the past successful experience, we keep improving our R&D progress and providing complete solution for global customers.

Specification	Fixture Table	2 Stations
	Fixture Working Area	X: 450 mm, Y: 520 mm, Z: 60 mm
	Cutting Area (Max.)	X: 450 mm, Y: 520 mm
	PCB Height (Max.)	Upside:15 mm Downside:Universal Jig - 35 mm, Specific Jig - 45 mm
	PCB Thickness	0.5 ~ 2.0 mm (Please advise Aurotek when the tickness is more than 2 mm)
	Standard Router Bit Diameter	Ø 1.0, Ø 1.2, Ø 1.6, Ø 2.0 mm
	Cutting Accuracy	± 0.08 mm
	Positioning Repeatability	± 0.01 mm
	Axes	4 Axes (X, YL, YR, Z)
	Moving Speed (Max.)	X, YL, YR : 1000 mm/sec, Z: 750 mm/sec
	Cutting Speed (Max.)	X, Y, Z: 100 mm/sec
	Spindle Rotation	265W / 58,000 rpm (Air Chuck System) Options: 4025DC-T: 470W (Max:30,000rpm) ; 4033:500W (Max:100,000rpm)
	Router Bits Change	Manual
	Cutting Mode	Linear, Circular, U-curve, Arc, L-curve
	X,Y,Z Axes Control	AC Servo Motors
	Cutting Feed	0 ~ 9 times (Depending on the PCB thickness on the PCB Thickness)
	Route Planning	Set up paths guided by CCD camera manually.
	Safety Area Sensor	Standard
	Broken Router Bit Detection	Standard
	Program Storage	HDD
	Method to back up the program	USB
	Operating System	Windows 7
	Man-Machine Interface	LCD Monitor, Keyboard, Mouse
	Conveyor Width Adjustment	N/A
	Conveyor Load Capacity	N/A
	PCB Loading/Unloading	Manual
	Power Supply	3 Phase, AC220V±3% 50Hz/60Hz, 4.0kw
	Pneumatic Pressure	0.5 Mpa
	Dimenssions (W x D x H)	1810 × 1409 × 1350 mm * Signal Light - 280 mm
	Net Weight for the machine	Approx. 720 KGS
	Height for Working Area (Max.)	930 mm
	Vacuum Cleaner	YSF-V605 5HP 3.7kw



r-S330IN-LINE-SL/SR

In-Line PCB Separator



Flexible & Efficient
Up-Loading / Unloading function



Fully Automated Solutions



r-S330IN-LINE-SL/SR not only is able to provide peak standard performance as fully Automated Solutions, but also is able to adjust accordingly to our customer's production line. We always take customer's need as our priority and ensure every motion operated successfully.



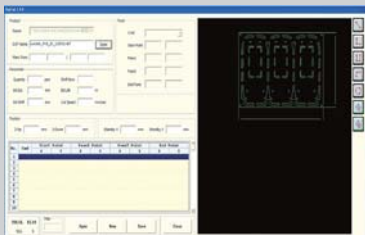
Loading / Unloading System



During the up/unloading action, we provide either nozzles with various vacuum systems or customized nozzles and gripper to ensure every PCB transport in precision and safety.



Off-Line Editing Program



The users only need to upload AUTO CAD DXF to Off-Line Edited Program, use mouse to simply create cutting program. Then use USB storage device to save the edited program and upload to machine USB port. Simple and efficient.



Twin Sliding Tables



This work exchanger provides a simultaneously inand-out working space to limit the idle time, which in turn reaches the utmost output value.

R-S330IN-LINE-SL/SR

In-Line PCB Separator

R-S330IN-LINE-SL/SR is designed for added-value on our customers' operational process. With fully automated function, we provide excellent precision and efficiency. Also, our R-S330IN-LINE-SL/SR was honored from the National Awards of Excellence, Silver Award for the year of 2014. We are always grateful for the support and compliment and will keep upgrade our products and service.

Specification	Fixture Table	2 Stations
	Fixture Working Area	X: 330 mm, Y: 350 mm, Z: 60 mm
	Cutting Area	(Max.) X: 330 mm, Y: 350 mm (Min.) X: 100 mm, Y: 100 mm
	PCB Height (Max.)	Upside:15mm Downside:Universal Jig - 35 mm, Specific Jig - 45 mm
	PCB Thickness	0.5 ~ 2.0 mm (Please advise Aurotek when the thickness is more than 2 mm)
	Standard Router Bit Diameter	Ø 1.0, Ø 1.2, Ø 1.6, Ø 2.0 mm
	Cutting Accuracy	± 0.08 mm
	Positioning Repeatability	± 0.01 mm
	Axes	7 Axes (X, YL, YR, Z, Carry, P/P, Conveyor).
	Moving Speed (Max.)	X, YL, YR : 1000 mm/sec, Z: 750 mm/sec
	Cutting Speed (Max.)	X, Y, Z: 100 mm/sec
	Spindle Rotation	265W / 58,000 rpm (Air Chuck System) Options:4025DC-T: 470W (Max:30,000 rpm) ; 4033:500W (Max:100,000 rpm)
	Router Bits Change	Manual
	Cutting Mode	Linear, Circular, U-curve, Arc, L-curve
	X,Y,Z Axes Control	AC Servo Motors
	Cutting Feed	0 ~ 9 times (Depending on the PCB thickness)
	Route Planning	Set up the paths guided by CCD camera manually.
	Safety Area Sensor	N/A
	Broken Router Bit Detection	Standard
	Program Storage	HDD
	Method to back up the program	USB
	Operating System	Windows 7
	Man-Machine Interface	Touch Screen Monitor, Keyboard, Mouse
	Conveyor Width Adjustment	(Max.) Y: 350 mm (Min.) Y: 100 mm
	Conveyor Load Capacity	3 KGS
	PCB Loading / Unloading	Automatic
	Power Supply	3 Phase AC220V±3% 50Hz/60Hz, 2.5 kw
	Pneumatic Pressure	0.5 Mpa
	Dimenssions (W x D x H)	2002 × 1279 × 1716 mm * Signal Light - 578 mm
	Net Weight for the machine	Approx. 640 KGS
	Height for Working Area (Max.)	930 mm
	Vacuum Cleaner	YSF-V605 5HP 3.7kw



r-S330IN-LINE-HL/HR

In-Line Twin Table PCB Separator



Fully Automated Solutions



r-S330IN-LINE-SL/SR not only is able to provide peak standard performance as fully Automated Solutions, but also is able to adjust accordingly to our customer's production line. We always take customer's need as our priority and ensure every motion operated successfully.



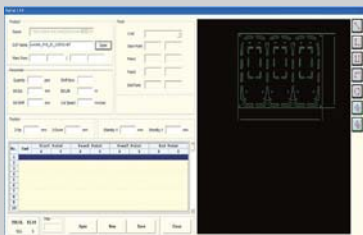
Loading / Unloading System



During the up/unloading action, we provide either nozzles with various vacuum systems or customized nozzles and gripper to ensure every PCB transport in precision and safety.



Off-Line Editing Program



The users only need to upload AUTO CAD DXF to Off-Line Editing Program, use mouse to simply create cutting program. Then use USB storage device to save the edited program and upload to machine USB port. Simple and efficient.



Twin Sliding Tables



This work exchanger provides a simultaneously in-and-out working space to limit the idle time, which in turn reaches the utmost output value.

R-S330IN-LINE-HL/HR

In-Line Twin Table PCB Separator

R-S330IN-LINE-HL/HR is designed for added-value on our customers' operational process. With fully automated function, we provide excellent precision and efficiency.

Specification	Fixture Table	2 Stations
	Fixture Working Area	X: 430 mm, Y: 430 mm, Z: 60 mm
	Cutting Area	(Max.) X: 430 mm, Y: 430 mm (Min.) X: 100 mm, Y: 100 mm
	PCB Height (Max.)	Upside:15mm Downside:Universal Jig - 35 mm, Specific Jig - 45 mm
	PCB Thickness	0.5 ~ 2.0 mm (Please advise Aurotek when the thickness is more than 2 mm)
	Standard Router Bit Diameter	Ø 1.0, Ø 1.2, Ø 1.6, Ø 2.0 mm
	Cutting Accuracy	± 0.08 mm
	Positioning Repeatability	± 0.01 mm
	Axes	7 Axes (X, YL, YR, Z, Carry, P/P, Conveyor).
	Moving Speed (Max.)	X, YL, YR : 1000 mm/sec, Z: 750 mm/sec
	Cutting Speed (Max.)	X, Y, Z: 100 mm/sec
	Spindle Rotation	265W / 58,000 rpm (Air Chuck System) Option: 4025DC-T: 470W (Max:30,000 rpm) ; 4033:500W (Max:100,000 rpm)
	Router Bits Change	Manual
	Cutting Mode	Linear, Circular, U-curve, Arc, L-curve
	X,Y,Z Axes Control	AC Servo Motors
	Cutting Feed	0 ~ 9 times (Depending on the PCB thickness)
	Route Planning	Set up paths guided by CCD camera manually.
	Safety Area Sensor	N/A
	Broken Router Bit Detection	Standard
	Program Storage	HDD
	Method to back up the program	USB
	Operating System	Windows 7
	Man-Machine Interface	Touch Screen Monitor, Keyboard, Mouse
	Conveyor Load Capacity	3 KGS
	Conveyor Width Adjustment	(Max.) Y: 430 mm (Min.) Y: 100 mm
	PCB Loading / Unloading	Automatic
	Power Supply	3 Phase, AC220V±3% 50Hz/60Hz, 2.5 kw
	Pneumatic Pressure	0.5 Mpa
	Dimenssions (W x D x H)	2398 × 1436 × 1770 mm * Signal Light - 568 mm
	Net Weight for the machine	Approx. 640 KGS
	Height for Working Area (Max.)	930 mm
	Vacuum Cleaner	YSF-V605 5HP 3.7kw



r-S330IN-LINE-SL(L)/SR(L)

In-Line Single Table PCB Separator



Flexible & Efficient
Up-Loading / Unloading function



Fully Automated Solutions



r-S330IN-LINE-SL(L)/SR(L) not only is able to provide peak standard performance as fully Automated Solutions, but also is able to adjust accordingly to our customer's production line. We always take customer's need as our priority and ensure every motion operated successfully.



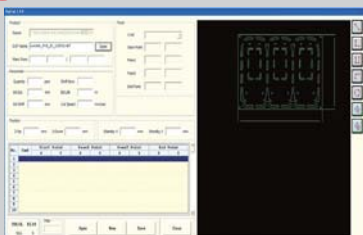
Loading / Unloading System



During the up/unloading action, we provide either nozzles with various vacuum systems or customized nozzles and gripper to ensure every PCB transport in precision and safety.



Off-Line Editing Program



The users only need to upload AUTO CAD DXF to Off-Line Edited Program, use mouse to simply create cutting program. Then use USB storage device to save the edited program and upload to machine USB port. Simple and efficient.



Max. Cutting Range



We provide a total solution of maximum cutting range of X:630mm Y:550mm which fit all kinds of PCB.

R-S330IN-LINE-SL(L)/SR(L)

In-Line Single Table PCB Separator

R-S330IN-LINE-SL(L)/SR(L) is designed for added-value on our customers' operational process. With fully automated function, we provide excellent precision and efficiency.

Specificazione	Fixture Table	1 Station
	Fixture Working Area	X :630 mm, Y: 550 mm, Z: 60 mm
	Cutting Area (Max.)	(Max.) X: 630 mm, Y: 550 mm (Min.) X: 150 mm, Y: 150 mm
	PCB Height (Max.)	Upside:15mm Downside:Universal Jig - 35 mm, Specific Jig - 45 mm
	PCB Thickness	0.5 ~ 2.0 mm (Please advise Aurotek when the thickness is more than 2 mm)
	Standard Router Bit Diameter	Ø 1.0, Ø 1.2, Ø 1.6, Ø 2.0 mm
	Cutting Accuracy	± 0.1 mm
	Positioning Repeatability	± 0.01 mm
	Axes	6 Axes (X, Y, Z, Carry, P/P, Conveyor).
	Moving Speed (Max.)	X, Y: 1000 mm/sec, Z: 750 mm/sec
	Cutting Speed (Max.)	X, Y, Z: 100 mm/sec
	Spindle Rotation	265W / 58,000 rpm (Air Chuck System) Option: 4025DC-T: 470W (Max: 30,000 rpm) ; 4033: 500W (Max: 100,000 rpm)
	Router Bits Change	Manual
	Cutting Mode	Linear, Circular, U-curve, Arc, L-curve
	X,Y,Z Axes Control	AC Servo Motors
	Cutting Feed	0 ~ 9 times (Depending on the PCB thicknes)
	Route Planning	Set up paths guided by CCD camera manually.
	Safety Area Sensor	N/A
	Broken Router Bit Detection	Standard
	Program Storage	HDD
	Method to back up the program	USB
	Operating System	Windows 7
	Man-Machine Interface	Touch Screen Monitor, Keyboard, Mouse
	Conveyor Width Adjustment	(Max.) Y: 550 mm (Min.) Y: 100 mm
	Conveyor Load Capacity	3 KGS
	PCB Loading/Unloading	Automatic
	Power Supply	3 Phase, AC220V±3% 50Hz/60Hz, 2.5 kw
	Pneumatic Pressure	0.5 Mpa
	Dimenssions (W x D x H)	2599 × 1678 × 1693 mm *Signal Light - 576 mm
	Net Weight for the machine	Approx. 880 KGS
	Height for Working Area (Max.)	930 mm
	Vacuum Cleaner	YSF-V605HE 5HP 3.7kW



R-S168CE

Twin Table PCB Separator

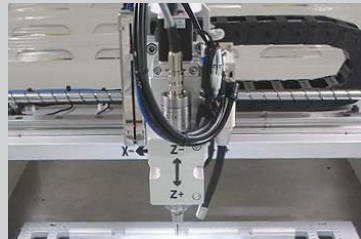


Twin Sliding Tables



This work exchanger provides a simultaneously in-and-out working space to limit the idle time, which in turn reaches the utmost output value.

Router Bit Sectioning



The user may set a designated distance, and have the routing bit shift down in order to make a new section of routing bit to cut boards for multiplying the life of the routing bit.

Operating System



X10 zoom-in image makes programming easier & increase the accuracy of point setting.

CCD Camera System



CCD image could check & simulate the path of routing to reduce unnecessary mistake before actual cutting.

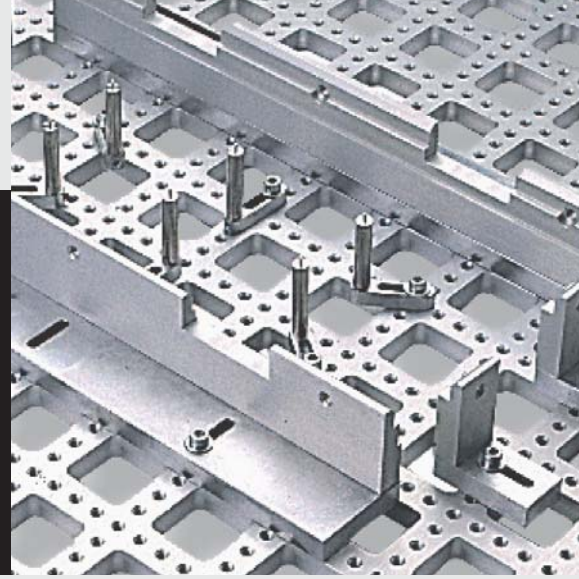
R-S168CE

Twin Table PCB Separator

Specification

Fixture Table	2 Stations
Fixture Working Area	X: 330 mm, Y: 330 mm, Z :60 mm
Cutting Area (Max.)	X: 330 mm, Y: 330 mm
PCB Height (Max.)	Upside:15mm Downside:Universal Jig - 35 mm, Specific Jig - 45 mm
PCB Thickness	0.5 ~ 2.0 mm (Please advise Aurotek when the thickness is more than 2 mm)
Standard Router Bit Diameter	Ø 1.0, Ø 1.2, Ø 1.6, Ø 2.0 mm
Cutting Accuracy	± 0.1 mm
Positioning Repeatability	± 0.01 mm
Axes	3 Axes (X, Y, Z).
Moving Speed (Max.)	X, Y : 700mm/sec, Z: 500mm/sec
Cutting Speed (Max.)	X, Y, Z: 100 mm/sec
Spindle Rotation	265W / 58,000 rpm (Air Chuck System)
Router Bits Change	Manual
Cutting Mode	Linear, Circular, U-curve, Arc, L-curve
X,Y,Z Axes Control	AC Servo Motors
Cutting Feed	0 ~ 9 times (Depending on the PCB thickness)
Route Planning	Set up paths guided by CCD camera manually.
Safety Area Sensor	Optional
Broken Router Bit Detection	Optional
Program Storage	HDD
Method to back up the program	USB
Operating System	Windows 7
Man-Machine Interface	LCD Monitor, Keyboard, Mouse
Conveyor Width Adjustment	N/A
Conveyor Load Capacity	N/A
PCB Loading/Unloading	Manual
Power Supply	3 Phase, AC220V±3% 50Hz/60Hz, 2.5 kw
Pneumatic Pressure	0.5 Mpa
Dimenssions (W x D x H)	1168 × 1498 × 1264 mm * Signal Lighting - 565 mm
Net Weight for the machine	Approx. 390 KGS
Height for Working Area (Max.)	930 mm
Vacuum Cleaner	YSF-V553 3HP 2.2 kw

Premium Service — Our Powerful Customization



Making The Best Better

We are excited to introduce our flexible and professional production design. To fully bring product satisfaction to our customers according to specific client's needs.

Aurotek is well-experienced to cooperate with our global clients and never let down their trust. We sincerely welcome you to join us developing your own customized system.



Customized IN-LINE PCB Separator With Customized Grippers & Nozzle pad.

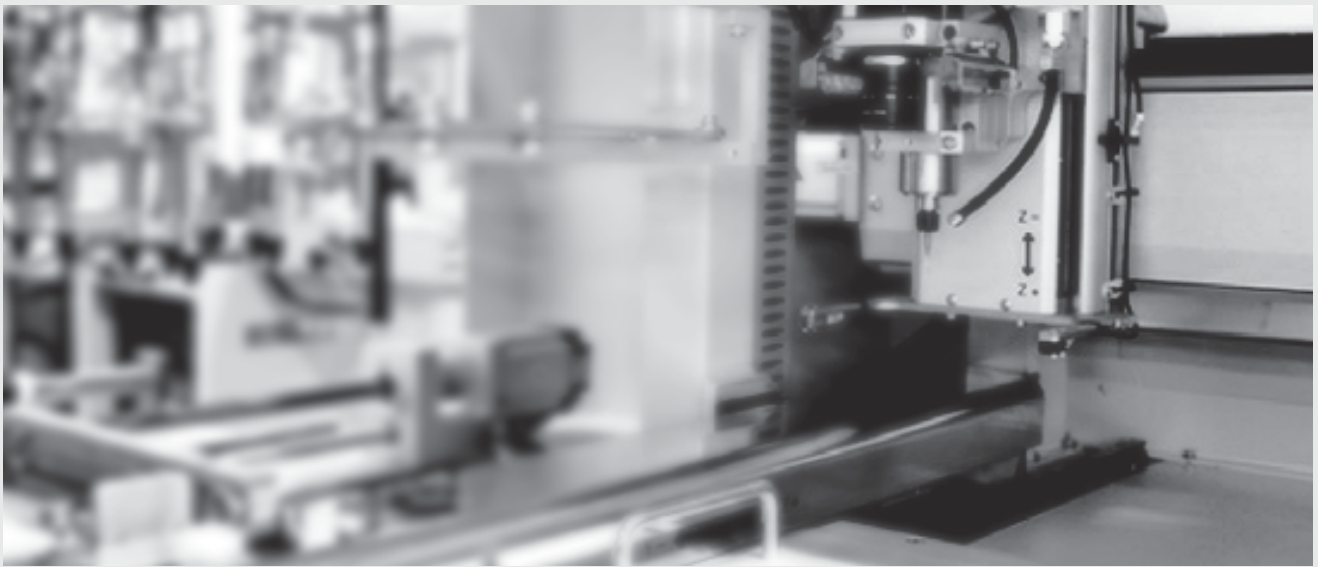


Customized Dual Spindle PCB Separator.



Customized IN-LINE PCB Separator with twin carriers & nozzle module.



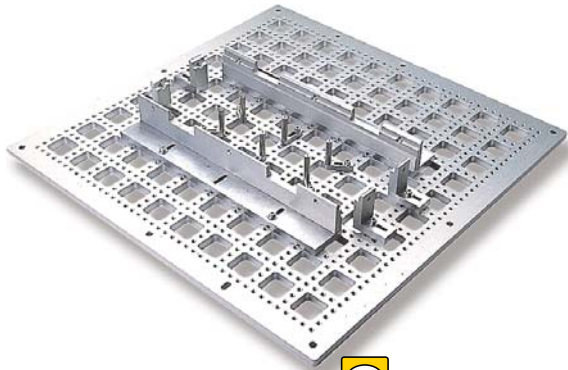


To provide premium production efficiency, Aurotek recommend our machine with dual spindles system. With this design, production process is accelerated considerably

<i>Y-330 Series New Features</i>	
The new generation of Main Screen UI Design	The new UI design is more intuitive and user-friendly. It significantly reduces user's operational learning time.
Correspond to DXF file editing programs	Correspond to DXF file editing programs, the editor can be freely zoom/ move the image files and instantly preview all currently editing path, the function which will substantially increase convenience for engineers.
Real Time Display of Cutting Path List/Optimizing Cutting Path	After editing the cutting program, the system can automation assess the overall best cutting path or just a specific area for optimization, it will dramatically reduce the required time to cut products and ultimately maximize productivity.
Spindle Speed Calibration Screen/ Speed Monitoring	Corresponding to the customer's needs, users may freely adjust the speed of the cutting spindle, which helps prevent any damage to the cutting knife/blade or imperfection of the product due to the lack/insufficient of spindle speed.
Multifunctional Automatic Tool/ Blade Change System	When the cutting blade reaches it reach its limit, the system will replaced with a new blade and resume production automatically, it dramatically reduce configuration time maintenance related personnel cost.
Linking Barcode Module & CIM / MES Function	In response to Industry 4.0 era, the new complete data-integration function can be easily setup and collects massive real-time production information and uploads it to the central terminal server instantly. Furthermore, to accompany to the needs of various manufacturers, thisfunction is designed based on open source code for faster user customization. The new complete data-integration function allows the system manager to effortlessly monitoring the complete production status through a centralized monitoring center, and make any production schedule adjustment accurately and efficiently.



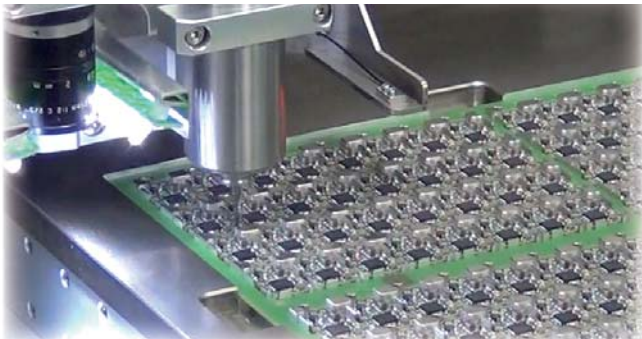
Customized Fixtures



Customized Fixture

According to different features of PCB panels, there is need to provide a stable and accurate routing environment. With a customized fixture, we assure our clients a better efficiency and routing performance.

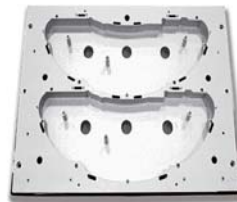
Especially for In-Line separators, customized fixtures fulfill the requirement of fully automated operation.



Customized fixture for a panel of 128 PCBs.



Please kindly offer 1 ~ 2 pieces of sample PCB for designing your specific jigs.



Router Bit



Sizes: Ø 1.0 Ø1.2, Ø1.6, Ø1.8, Ø2.0 mm

Universal Fixture Accessories



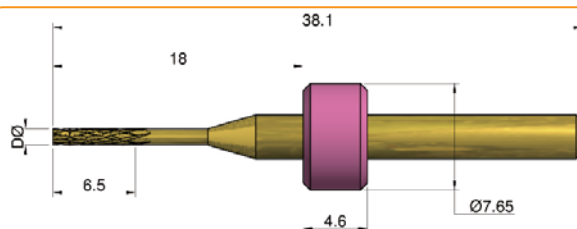
Support Pin

SIZE: Ø1.0 Ø1.2, Ø1.6, Ø1.8, Ø2.0 mm



Pin Holder

LCF: Down Cut; Carbide end mills
Overall Length (A): 38.2 ±0.30 mm
Shank Diameter (B): 3.175 mm
Cutting Length (C): 6.0 ±0.10 mm
Cutting Diameter (D): 1.00 1.20 1.50 1.60 2.00mm



Ø3.175

銼刀規格
刀徑-D
1.0 mm
1.2 mm
1.5 mm
1.6 mm
2.0 mm

Optional Application

MODEL \ FEATURES	Specific Jigs	Aluminum Board Cutting System	Dual Sindle System	Barcode Reader System	USB Back-up System	UPS Support System	Autom Bit Changer System
r-S330DT	●	X	X	●	X	X	X
r-S330L	●	●	●	●	●	●	●
r-S330W	●	●	●	●	●	●	●
r-S330IN-LINE-HL/HR	●	●	●	●	●	●	●
r-S330IN-LINE-SL/SR	●	●	●	●	●	●	●
r-S330IN-LINE-SL(L)/SR(L)	●	●	●	●	●	●	●
r-S168CE	●	X	X	●	●	●	X

※ Some optional functions might not work with one another. please discuss with Aurotek when required.



Customized Fixtures



Aluminum Board Cutting System



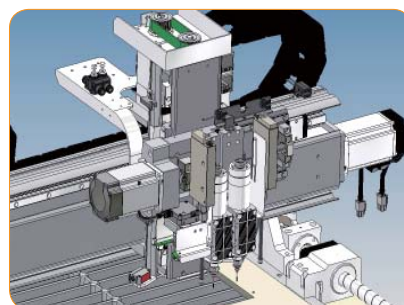
Automatic Bit Change System



Manual Barcode Reading System



Automatic Barcode Reading System



Dual Sindle System

YSF Series Vacuum Cleaner

YSF vacuum cleaner is designed for PCB Separator Series to collect the dust & scrap generated by router. High horse power motor & high efficiency fan to ensure the suction with excellent efficiency.



Tipo	YSF-V553	YSF-V553 ZETA	YSF-V605
Dimensions (WxDxH)	65x635x1610mm	780x780x1000mm	780x665x1900 mm
Weight	195 kg	170 kg	230 kg
Power supply	3 phase 50Hz / 60Hz 220V		
	2.2 kw		3.7 kw
Motor power	3 HP		5HP
Inlet wind speed	26 m/sec	27 m/sec	28 m/sec
Inlet wind capacity	28 m³/min	26m³/min	40 m³/min
Inlet wind pressure	300 mm -Ag	1800 mm-Ag	300 mm -Ag
Inlet Diameter	150 mm	125 mm	150 mm
Outlet Diameter	203 mm	150 mm	203 mm

Aurotek SNG

Exclusive Digital Knowledge

Due to our service presence on the global basis, it is our duty to extend more after service solution. To approach clients in real-time, instantly moment, we count on our online e-learning platform. We have taken attention to your operation with our very earnest. It's always Aurotek's pleasure to share valuable our product information and knowledge on-line.

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Aurotek has developed long-term partnership with major SMT equipment distributors in different continents and regions. With complete engineering training and SNG online support, our partners worldwide are capable of providing fully machine training, in-time technical support and professional after service.



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AUTOMATIC PROCESSING

HIGH PRECISION INSIDE PCB DEPANELING SYSTEM

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