

Innovative Coating Technology from GROUP UP®

群翊塗佈科技的再次昇華

- 1. 適用尺寸範圍最大!!** 310 x 356~610 x 610mm 0.1~1.6mm(U (選配30", 0.075mm)
- 2. 適用製程最多!!** 內層塗佈 / 液態光阻塗佈 / BGA & Flip Chip 防焊綠漆塗佈 / 盲孔、通孔之塞孔 / Build-Up, HDI 絕緣層塗佈。
- 3. 最有經驗!! 最有創意!!** 解決傳統單旋臂之甩板甩墨現象。最適合大尺寸薄板用途。
解決傳統單旋臂之急躁, 抖動及過度磨耗, 壽命提高4倍以上。
加長烘烤前靜置時間, 提昇光阻劑整平效果。
製程中目視檢驗基板兩面之塗佈效果。

- 4. 更快!! 更均勻!!** 最高產速每分鐘可達7片。膜厚10um±10%。
- 5. 高潔淨度!!** 全不鏽鋼+鋁擠型結構。驅動部外製包覆。集中氣壓配管。遠端模組迴路。HEPA down Flow, Class 1000 OK!!
- 6. 最簡易操作性!! 維修最便利!!** 機台二側面完全淨空。全透明外蓋設計。彩色人機介面自我診斷。自動原點搜尋復歸。內鍵油墨添加及循環供墨切換系統。
- 7. 最佳品質** 出廠前連續自動跑板測試。

- 1. GREATER CAPACITY** Board size range: 310 x 356mm ~ 610 x 610mm. Thickness range: 0.1 ~ 1.6mm. (Option 30", 0.075mm)
- 2. MAXIMUM PROCESSING FLEXIBILITY** Inner Layer Roller Coating / Photo-Resistant Coating / Solder Mask Coating for BGA & Flip Chip / Hole Plugging for via hole and through hole / Dielectric Layer Coating for HDI & Build-Up

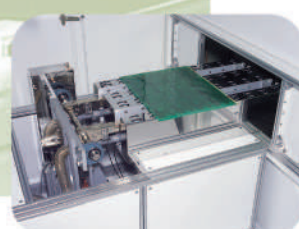
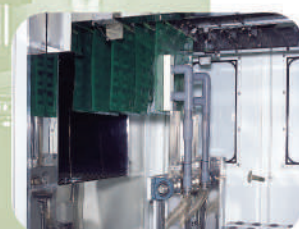
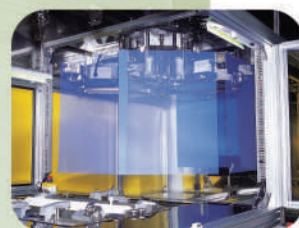
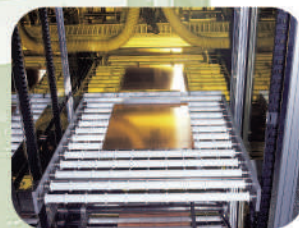
- 3. OUTSTANDING ENGINEERING BACKROUND ~ INNOVATIVE CONCEPTS**
Eliminates the problems of ink tearing and panel flapping common on conventional single swiveling arms. Ideal for big, thin boards.
Eliminates the problems of rash motion, chattering and excessive wear associated with single swiveling arms. Increases service life by 400%.
Extended leveling time before baking greatly upgrades photo resistance smoothening effect.
Permits visual inspection of coating quality on both sides of boards during processing.

- 4. USER FRIENDLY OPERATION ~ EASY MAINTENANCE**
Clear machine configuration on both sides.
Completely transparent machine guards.
Colorful interface screen equipped with self-diagnosis function.
Automatic home point search and reset.
Ink filling or circulation switching system

- 5. HIGH PRODUCTION RATE ~ MAXIMUM COATING UNIFORMITY**
Max 7 pieces per minute / Film thickness tolerance: 10um ± 10%.

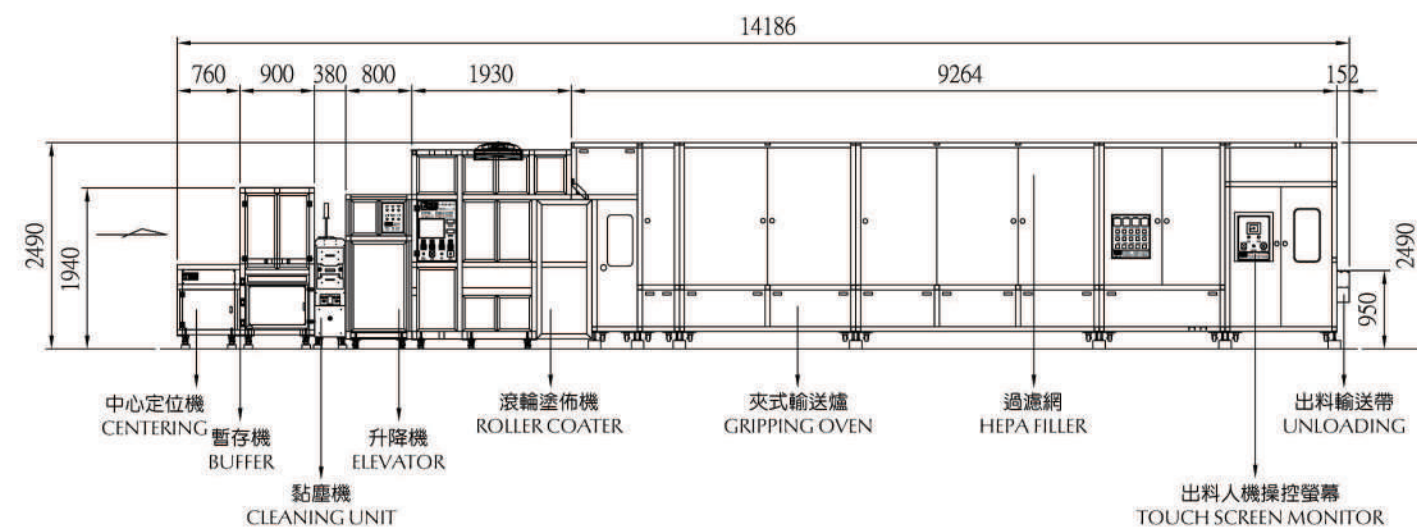
- 6. HIGH CLEANLINESS** Stainless steel and extruded aluminum construction.
Protected transmission system.
Centralized air piping.
Remote modular circuit.
HEPA dow flow. Class 1000 cleanliness.

- 7. PROVEN PERFORMANCE**
Extended period continuous board running tests are conducted prior to shipping.



ROLLER COATER+GRIPPING OVEN AUTO LINE

自動滾輪塗佈烘烤線



規格表 Specifications

機型名稱 Model		GRC-7V	GRC-8V
產能 Productivity		每分鐘1-7片 1-7 Panels/Minute	每分鐘1-8片 1-8 Panels/Minute
適用基板 Applicable PCB	板厚 Thickness	兩面銅對稱: 0.05mm(不含銅)~1.6mm Symmetrical 2 Sides With Cu: 0.05mm(W/O Cu)~1.6mm 選配: 銅One / Half Optional: Cu One / Half	兩面銅對稱: 0.05mm(不含銅)~1.6mm Symmetrical 2 Sides With Cu: 0.05mm(W/O Cu)~1.6mm 選配: 銅One / Half Optional: Cu One / Half
	尺寸 Size	兩面銅對稱: 14"×12"~25"×27" Symmetrical 2 Sides With Cu: 14"×12"~25"×27" 選配: 銅One / Half Optional: Cu One / Half	兩面銅對稱: 14"×12"~25"×24.5" Symmetrical 2 Sides With Cu: 14"×12"~25"×24.5" 選配: 銅One / Half Optional: Cu One / Half
垂直式滾輪 塗佈機 Vertical Roller Coater	塗佈方式 Coating Method	以垂直方式, 雙面同時塗佈 Vertical Type, Double Side Simultaneous Coating	
	塗佈膜厚 Coating Thickness	5μm~35μm(需搭配塗佈輪) 5μm~35μm(Must Match With Suitable Coating Roller)	
	塗佈均勻性 Coating Uniformity	±10%	
	塗佈滾輪 Coating Roller	EPDM材質 EPDM	
	供墨方式 Ink Supply	自動添加與自動管路清潔, 回流與不回流切換使用 Automatic Filling And Automatic Pipe Cleaning, Functions Are Changeable	
	潔淨方式 Air Flow For Cleanness	FFU由上往下層流 FFU Downflow	
上夾式自動 輸送爐 Automatic Gripping Conveyor Oven	機台材質 Machine Structure	鋁擠型機架, 不鏽鋼封板 Aluminum Body Frame, Stainless Steel Plate	
	附屬品 Other Accessories	滾輪清洗機、滾輪放置台車 Roller Washing Machine, Roller Cart	
	機型 Model	GCP	
	輸送方式 Delivery System	以垂直懸吊烘培, 水平方式出板 Hanging Type Panel Deliver, Horizontally Unload	
	送風方式 Air Flow	由上往下垂直送風 Down Flow	
	加熱溫度 Heating Temperature	依製程而定, Max 180°C Varies With Process, Max 180°C	
	加熱時間 Heating Time	依製程而定 Varies With Process	
	溫度均勻性 Temperature Uniformity	±2°C	
	冷卻方式 Cooling Method	冰水輔助氣冷方式 Cold Water Cooling Assists With Air Circulation Cooling	
	潔淨度 Cleanness Level	HEPA過濾, Class 1000 Use HEPA, Class 1000	
	機台材質 Machine Structure	內部為不鏽鋼, 外部為鋼板烤漆 Internal Stainless Steel, External SS41 Steel Plate With Painting Surface	

本數值隨時不斷研究改進, 僅供參考, 若變更恕不另行通知 *All spwifications and designs are subject to change without notice.



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自動滾輪塗佈烘烤線 AUTO ROLLER COATING LINE

ISO 9001



A vertical style double-sided coating Roller Coater designed and engineered for a competitive edge in PCB production.

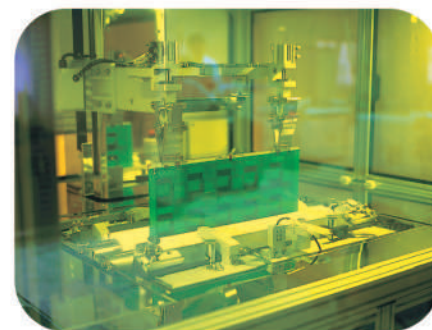
群翊滾輪塗佈機是：

1. 內層塗佈
2. 液態光阻塗佈
3. BGA & Flip Chip 防焊綠漆塗佈
4. 盲孔, 通孔之塞貫孔
5. Build-Up, HDI 絕緣層塗佈

的最佳利器



滾輪清洗機
ROLLER WASHING MACHINE

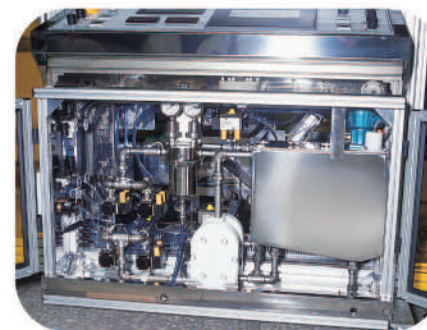


塗佈機

塗佈機外觀採全透明化設計，機構動作，及所有感應器控制情況可由外部觀察，一目了然。機器維護極方便。

ROLLER COATER

A transparent guard encloses the roller coater. Coating motion and sensor controls are easily visible from outside of the machine, providing maximum maintenance convenience.

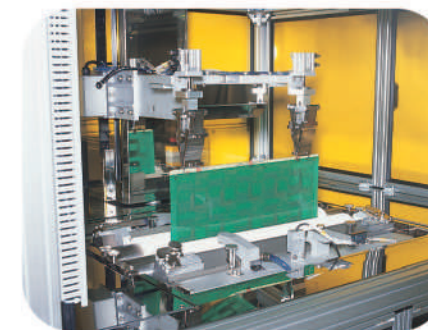


油墨添加系統

自動添加與迴流式，可互相切換使用。適合各種油墨。

INK FILLING SYSTEM

Changing between circulated or non-circulated system is convenient. Suitable for various types of ink.



首創彈性的多功能設計

針對Bga & Flip Chip防焊綠漆，盲孔，通孔之塞貫孔，Build-up, HDI絕緣層塗佈的製程技術，本機種有多項技術大突破。

INNOVATIVE VERSATILITY

The machine integrates many innovative and fine features for versatile applications, such as solder mask coating for BGA & Flipchip, hole plugging, dielectric layer coating for HDI and build-up.



先進4旋臂傳板

旋臂接板後，作90度迴轉，製程中可以目視隨時檢查兩面塗佈品質。

傳板平穩，定位精準

獨特設計的4旋臂傳板機構，最高產速每分鐘可達7片。穩定量產，定位精準。徹底摒除傳統單旋臂之動作急躁，抖動，過度磨耗造成甩板甩墨毛病。

ADVANCED 4 SWIVELING ARMS

Board held by swiveling arm rotates 90° to allow for a visual check of coating quality on both sides during processing.

STABLE BOARD TRANSFER

HIGH POSITIONING ACCURACY
Four swiveling arms specially designed for board transfer, increases production rate to Max 7 panels per minute. Also features stable speed and high positioning accuracy. Eliminates problems such as rash motion, chattering, ink tearing and panel flapping often caused by excessive wear on a conventional single arm.



先進觸控螢幕

本機採用彩色人機介面控制螢幕，功能強勁，操控極簡易。

控制器主要功能包括：

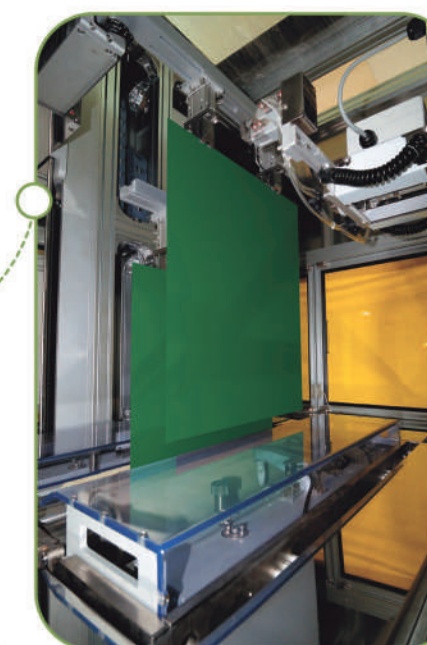
- 操作狀態圖形顯示
- 機器保養提醒
- 異常動作自我檢知
- 產能統計

簡易切換

設備操作人性化，大小板可不停機連續生產。厚板，薄板切換，只需鍵入板厚，即可連續生產。

機內潔淨度1000級以上

本機內部以亮面不鏽鋼板製成，驅動部採外置包覆式，搭配氣流導引設計，內部潔淨度高達1000級以上。



超大量產型
每分鐘生產八片
Mass Production Type,
8 Panels/Minute

夾式爐段 大開門設計
方便清潔維修
All Door Open Type,
Easy to Clean,
Easy to Maintain



自動滾輪塗佈烘烤線 AUTO ROLLER COATING LINE

基板規格

- 最大尺寸24" x 24" (選配 30")
- 板厚最薄0.1mm (選配 0.075mm)

APPLICABLE PCB SIZES

- Maximum PCB sizes: 24" x 24". (Option 30")
- Minimum thickness: 0.1mm. (Option 0.075mm)