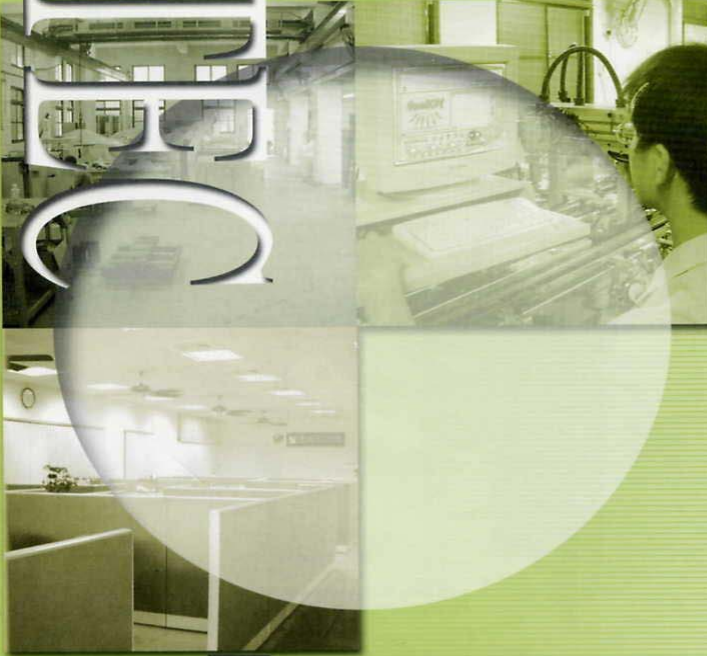


GENTEC TEC

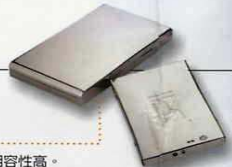
SMT & PCB Equipments



AVI PRECISION ENGINEERING PTE LTD

一次滿足您對SMT & PCB設備的需求

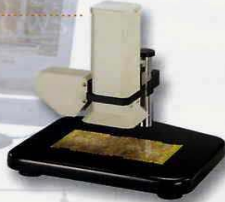
Satisfy your requirements with SMT & PCB equipments



非接觸式錫膏測厚機 GAM 70 LASER VISION MEASUREMENT

- 測量錫膏厚度的最佳工具。
- 可計算面積、體積、截面面積
- 提供各式統計分析圖表，如厚度分佈統計圖、X-R管制圖，製程能力指標Cp、Cpm、Cpk。
- 提供其它材料測厚，測量量測。

- To provide ideal inspection of solder paste thickness.
- Measure the solder area, cross-section and volume.
- Various kind of statistics charts based on needs, like the thickness distribution chart, X-R control chart, and process capability index: Cp, Cpm, Cpk.
- Inspect length and thickness for other kinds of materials.



爐溫測定器 GAM 200A REFLOW CHECKER

- Windows中英文操作介面，軟體支援相容性高。
- 具有4-6個不同感應庫(機型選擇)，持續測量記錄整個迴焊爐內之溫度變化。
- 測定器(ON LINE)操作方式無需加長熱感電偶線。
- PROFILE軟體模擬系統，提供溫度曲線、時間分析等功能，達到最佳爐溫環境。
- 操作簡便/單鍵按鈕即可做IN/OUT溫度量取及資料連線作業。

- Windows interface, high compatibility.
- 4 or 6 channel (as the machine selects) to keep measuring of temperature in the reflow oven.
- Need not to add the length of thermocouple cables.
- Powerful software, provide variety of functions, like the temperature curve, time analysis, help to achieve perfection temperature.
- Operation depends on a single-button, user friendly.

PCB分板機 GAM 30 V-CUT PCB SEPARATOR

- 可快速完成SMT加工後之連板分離。
- 減少分板應力，防止不當外力破壞。
- 特殊圓刀材料設計，確保PCB分割面之平滑度。
- 加強安全裝置，避免人為疏失的傷害。

- Fast accomplish PCB separation after SMT process.
- Effectively reduce stress and prevent solder chrap from PCB separation.
- High quality blade ensures smooth cutting area.
- Strengthen safety device, prevent harm from operator.



鋼板孔壁清洗機 GAM 40 STENCIL HOLE CLEAN MACHINE

- 線上及時鋼板清潔，確保連續印刷製程品質。
- 徹底解決FINE PITCH鋼板孔壁容易塞孔問題。
- 可徹底解決印刷不足/過多之處。
- 外型輕巧，操作簡單。

- Provide On-line function for cleaning stencil hole, ensure quality of solder printing.
- Excellently remove solder paste from stencil by supersonic wave vibration
- Thoroughly solve insufficient or surplus problem of solder printing, Delicately designed, easy to operate.

零件計數器 GAM 12 SMD CHIP COUNTER

- 全自動計算零件數量，方便準確點料、發料作業。
- 獨特設計運轉中料帶防脫裝置，有效解決料帶彈脫問題。
- 內置預備電源設備，不受停電環境影響。
- 繪圖型LCD多功能顯示螢幕，清楚易判讀。
- 適用料帶寬度8-56mm 料帶間隔2-56mm

- Automatically count the quantity of chip, efficiency for stock management.
- Reel derailment protection device from running is provided.
- Effectively achieve unbroken production.
- Equipped with an internal power supply as a backup system during the blackout.
- A drawing LCD screen is fitted, easy to read.
- Suitable for: Reel Width: 8-56mm Reel Pitch: 2-56mm



點膠管脫泡機 GAM 62 / GAM 62A CENTRIFUGE MACHINE

- 快速去除紅膠氣泡，提高生產品質。
- 運轉中啟動保護系統(INTER LOCK)，確保作業人員安全。
- 適用各廠牌點膠機用點膠管。
- GAM 62 轉速1200rpm，一次可同時脫泡4支膠管。
- 膠管規格 ϕ 26mm，長169mm。
- GAM 62A轉速2800rpm，一次可同時脫泡4支膠管。
- 膠管規格 ϕ 26mm，長169mm。

- High performance removing bubble from adhesive, enhance quality of production.
- High safety device with interlock, prevent harm from operator.
- Universal fixture, suitable for all kind of commercial container.



料架檢查機 GAM 20系列(P. F. S. K. J) CALIBRATION JIG MACHINE

- 可模擬料架進料狀況。
- 可減少不良料架所引起的拋料問題。
- 動態運轉模擬調校料架方式(單動/運動選擇)。
- 針對各式不同SMT料架機型開發。

- Feeder simulation is available.
- Effectively prevent the missing chip problem from an imprecision feeder.
- Available adjusting precision of feeder in simulation state. Enhance the simulation effect and easy to observe.
- Develop aims at feeder model.





錫膏/銀膠攪拌機 GAM 60 / GAM 60A CREAM SOLDER MIXER

- 錫膏優良印刷品質的最佳功臣。
- 非接觸式作業，能將錫膏攪拌均勻，快速完成印刷製程。
- 電子式計時器及LED顯示，準確操作時間控制。
- 運轉中掀蓋保護系統(INTER LOCK)，確保作業人員安全。
- 萬用夾具功能，適用性廣。
- 適用罐子尺寸
GAM 60 夾具最大尺寸: ϕ 60mm L: 90mm.
GAM 60A 夾具最大尺寸: ϕ 130mm L: 130mm.
☆另售GAM 60A: 銀膠攪拌機

- The excellent tool for the best solder printing quality.
- High speed mixing with no air exposure. Well mix solder and effective in SMT print process.
- LED display and microprocessor control is fitted for accurate at time control.
- An interlock device is fitted, prevent harm from operator.
- Universal fixture, suitable for all kind of commercial container.
- Fixture size:
GAM 60 : Max ϕ 60mm , L: 90mm.
GAM 60A: Max ϕ 130mm , L: 130mm.

製程專用途座標機 GAM 800W NC DATA PROGRAMMING MACHINE

- 提供SMT設備ONLINE作業座標向量值。
- 簡易的操作介面，上線更容易、快速。
- 精密光學機構，快速完成影像檢查作業。
- 強力介面軟體系統，可支援各式後端控制介面。
- 符合各式SMT、AI機型上線格式。

- The excellent tool to achieve the best efficiency process of SMT.
- Use as a programming tool for NC machine. Easy coordinate data pick up.
- Film, stencil, mask defects can be detected by high accuracy magnify lens.
- Compatible system as a maximum flexibility suitable for variety of control interface.
- Universal data format is provided.



全自動鑽針上環檢查機 GAM 80M AUTOMATIC DRILL BIT RING-SETTING MEASUREMENT INSPECTION MACHINE

- 非接觸式全自動完成鑽針之整備作業。
- 鑽針自動上環、直徑檢查，有效刀長檢查、刀刃鋒面檢查。
- 獨特的影像處理技術，能自動量測並檢測出不良鑽針。
- 進出料機構適用各廠牌鑽針包裝盒，能自動快速取置。
- 視窗操作介面，易學易操作。
- 人性化的操作平台，產能高、可靠度高。
- Automatic operation without contact: Ring setting, diameter inspection. Effective drill bit length inspection & drill bit frontal surface inspection.
- Unique image processing technology: automatically inspect & check the defective drill bit.
- Universal carry box, suitable for all different brands of drill bit.
- Window interface: Easy to learn.
- Human operation environment: High productivity & reliability.



印刷電路板孔位檢查機 GAM 900 HOLE INSPECTOR FOR PRINTED CIRCUIT BOARDS

- 視窗畫面，易學易操作。
- 可依需求調整檢測速度。
- 可任意設定檢測與不檢測區域。
- 可依需求設定不同孔徑之公差。
- 獨特的影像處理技術，檢測穩定性高。
- 容許待測板 ± 30 度擺放角度偏差。
- 可用 PCB 樣本或CAM檔做為比對標準。
- 高達 $2 \mu\text{m}$ 之解析度。

- Windows interface: Easy to learn.
- Adjust the inspection speed based on needs.
- Set up the inspection & non-inspection area.
- Set up the hole diameter based on needs.
- Unique image processing technology: High inspection reliability.
- Can tolerate the ± 30 degrees deviation of the standby plate.
- Compare with PCB or CAM standard.
- High precision at $2 \mu\text{m}$.