

# GAM310A

## 全自動PCB分板機

Vision-Aided Automatic PCB Separator



### 產品特性 (FEATURES)

- 單工作台佔地面積小，運用性高。
- 配備高速CCD視覺自動校正系統，提升辨識效率。
- 採用進口高速主軸，切割應力小，精度高。
- 配備高吸力上集塵機，吸塵效果佳。
- 視窗介面，操作容易。
- Single worktable requiring only small space. High flexibility in use.
- Equipped with high-speed CCD auto vision calibration system to enhance effectiveness and efficiency in recognition capability.
- Adopt imported high-speed spindle with small cutting stress and high precision quality.
- Equipped with upper duct collector. Has powerful capability of absorbing dust from the upper side.
- Easy to operate by window-based interface.

### 機台應用(APPLICATION)

- 適用高精度PCB分板作業。
- 適合手機、車載電子、穿戴設備、板卡等各種形狀之多連板分板。
- 可選擇專用治具或萬用治具做分板切割。
- Perform high-precision PCB separating work.
- Suitable for de-paneling PCB of any shape for the use of mobile device, wearable device, car electronics, board card, etc.
- Can choose either universal or customized fixture for cutting.

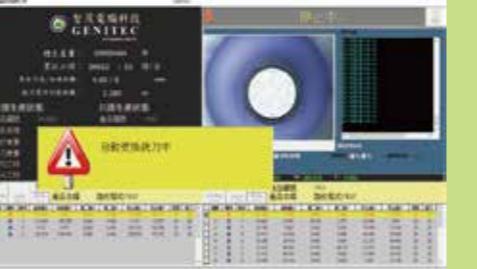
### 產品亮點(HIGHLIGHTS)

#### 操作畫面 Operation Panel



- 操作介面簡單，容易學習、快速上手。
- 功能項目清楚分類，銑刀/治具等參數設定簡單。
- 提供四級權限，依工作職別設定操作權限。
- 「歷史訊息視窗」可顯示及查詢操作記錄。
- Operation interface is clear, friendly, and simple. Easy to learn and start quickly.
- Functional items are clear and well categorized. Very easy to set the parameters for milling tool and fixture.
- Provide four levels of authorization control according to user's job rank.
- The "History Window" can display the historical records of operation.

#### 銑刀檢測 Milling Tool Detection



- 備備斷刀、滑刀、銑刀放反之檢測功能。
- Provide capability of detecting broken/dropped/reversed milling tool for auto tool-change.

#### 吸塵結構 Dust Collection Mechanism



- 搭配高效能「上集塵機」。
- Equipped with high efficient "upper dust collector".

### 產品規格(SPECIFICATIONS)

項目 ITEMS	GAM310A
有效切割尺寸 Valid cutting area	350 x 300 mm
切割功能 Cutting function	直線、L型、U型、圓型、圓弧 Tweening to line,L shape,U shape,Circle,Arc
加工台面 Process table	單工作台Single table
機台重複精度 Repeat precision	±0.01mm
切割精度 Cutting precision	±0.05mm
最高移動速度 Max moving speed	XY : 1000mm/sec , Z : 500mm/sec
最大移動行程 Max moving trip	X : 450mm , Y : 480mm , Z : 90mm
主軸轉速 Spindle's speed	MAX 60000rpm (Adjustable)
主軸銑刀更換方式 Type of tool change	自動換刀 Auto tool change
安全防護 Safety protection	安全光柵防護 Safety light curtain
切割速度 Cutting speed	1 - 100mm/s (Adjustable)
作業系統 Operating system	Windows 10
程式教導方式 Program teaching mode	CCD彩色影像直覺式教導輸入 Intuitive teaching by CCD color image input
程式備份 Program backup	USB data transfer
控制方式 Control method	精密多軸控制系統 Precision multi-axis control system
XYZ軸驅動方式 XYZ axis driving mode	AC伺服馬達 AC Servo motor
適用銑刀尺寸 Size of milling tool	Ø 0.8 - 3.0mm
主機電源需求 Voltage/Power requirement	AC220V 50/60HZ 1.5KW 單相 Single-Phase
主機氣源需求 Pneumatic pressure requirement	0.6MPa 45L/min
主機尺寸 Machine dimensions	1120(W)*1208(D)*1914(H) mm
主機重量 Machine weight	400kg
標配集塵機 Dust collector	TS300

### 外觀尺寸 (DIMENSIONS)

GAM310A

