

IGBT Power Module Pin Insertion/Attachment/Press Fit with Real Time Quality Inspection and Reel Feeder

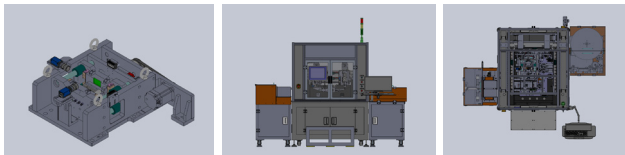
IGBT電源模組 裁Pin/Pin品質檢測/植入Pin(Press Fit)及模塊檢測設備

PRESS FIT TECHNOLOGY

Press fit technology is the technology which enables reliable connections between PCBs and terminal pins without soldering .Press-fit pins are cold-welded to the PCB when they are pressed in , which achieves a reliable electric connection that fulfill the reliable electric connections required by critical automotive requirements.

Press-fit technology 插針壓配技術

插針壓配技術是一種將插針緊配壓入PCB的一種可靠的冷焊技術，用於取代焊錫工藝。插針壓配技術能達成汽車行業需求的高可靠的導電要求。



SSI dedicated smart system meets the pin insertion requirements for power electronic modules of DBC-level and module-level. Supports different types of pins. The system can support the roller pin and feeds it before the pins are separated, which automatically cut and separate the pins, and instantly vision inspect the cutting quality and the angle of grasping and placing force in real time. This ensure that these pins can be entered in the correct vertical direction. At the same time, it is inserted into the plug housing through the force feedback control. The force curve is recorded for each pin and can be used as part of the traceability data. After all power module pin are inserted, system will do final inspection and count if all pins are well and match #. The dispensing process module also can be equipped.

- XY Placement Accuracy: +-20um@3Sigma
- Pin Singulation: Yes, Reel To Singulation
- AOI: Yes, Pin Quality &Module Inspection
- Force Control : Yes.
- Other: Dispensing or Potting or Hybrid Function Can Be Added Based On Requirements.

SSI專用智能系統可滿足DBC級和模塊級功率電子模塊的插針要求。支持不同類型的引腳。該系統可支援各式來料，例如捲帶入料並在銷分離之前將其送入，系統會接續自動切割和分離銷，並即時視覺檢查切割質量以及實時抓握角度判定和修正放置力。這樣可以確保這些銷釘可以沿正確的垂直方向植入。同時，通過力反饋控制將其精準力道控制插入插模組殼內。記錄了每個引腳的力曲線，可以用作可追溯性數據的一部分。插入所有電源模塊插針後，系統將進行最終檢查並計數所有插針是否完好並與#匹配。點膠製程模塊可依據製程添加。

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- Force Control: Yes.
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