自動化物料搬運系統 -- 進料 / 分料 / 出料機

Auto Material Handling System – Infeed / Sorting / Outfeed Units



GPC

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自動化物料搬運系統--進料 / 分料 / 出料機

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適用產品： 適用於多種尺寸規格的 Lead Frame 及 Substrate。	**Applicable Products:** Designed for a wide range of sizes of Lead-frames and Substrates.
設備概述	**Equipment Overview**
標準化調整程序：進料區、分料區及出料區均採用標準化調整機制，以適應不同尺寸的載具(Carrier) 與材料。	**Standard Adjustment Procedures:** Infeed, sorting, and outfeed zones feature standardized adjustment protocols to accommodate various carrier and material dimensions.
材料相容性：支援多種特定尺寸的材料與載具。	**Material Compatibility:** Supports multiple specific sizes of materials and carriers.
快速換線：透過軟體設計與人機介面(HMI)設定，可在5分鐘內自動完成進料、分料及出料模組的換線調整。	**Quick Changeover:** Through Software design and HMI settings, the infeed, sorting, and outfeed change kits can be automatically adjusted within 5 minutes.
材料數量檢查：在進料、分揀及出料作業過程中，整合材料數量檢測功能。	**Material Quantity Check:** Integrated inspection functions during infeed, sorting, and outfeed operations.
升降機式搬運：材料載具透過升降機進行轉運，採用上下雙層通道設計，以提升作業效率。	**Elevator-Based Handling:** Material Carriers are transferred via elevator lift, with upper and lower lanes for efficient operation.
入料機：配備導軌及三向分流機構，可依序將材料輸送至迴焊爐(Reflow Oven)輸送帶上。	**Infeed Unit:** Equipped with guiding rails and a three-way distribution mechanism to sequentially feed materials onto the conveyor of the reflow oven.
分料機：配備導軌及三向分流機構，可依序將材料輸送至清洗機(Cleaning Machine) 輸送帶上；並具備3合1集料機構，可將材料集中收集後放入載具中。	**Sorting Unit:** Features guiding rails and a three-way distribution mechanism to sequentially feed materials onto the conveyor of the cleaning machine. Includes a 3-to-1 collection mechanism to gather materials and place them into carriers.
出料機：提供導引功能及3合1集料機構，可將材料集中收集後放入載具中。	**Outfeed Unit:** Provides guiding functionality and a 3-to-1 collection mechanism to gather materials and place them into carriers.
暫存功能：分料機與出料機，皆配置軌道式暫存功能，當上游或下游設備停機時，可將材料暫存於多層料架中,以維持系統運作彈性。	**Temporary Storage:** Both sorting and outfeed units are equipped with a temporary storage function on the track, allowing materials to be stored in layered racks during upstream or downstream equipment downtime.
性能規格： 機器能力：每60秒完成3片料片之傳送搬運。	**Performance Specifications:** Machine Capacity: 3 pieces transportation per 60 seconds.

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