



因應智慧經濟時代來臨，僑委會策劃10期智慧經濟電子報，內容觸及營運流程、顧客服務及產品技術力升級等所需資訊情報，協助僑臺商面對後疫情時代經濟局勢進行數位轉型，全力發展事業。

第6期

# 智慧倉儲與物流

## Smart Storage and Logistics

# ARTIFICIAL INTELLIGENCE



智慧倉儲是指在倉儲管理業務與流程上，利用資通訊技術、雲端、自動化設備、智慧管理平台導入等，在入庫、出庫、盤庫、移庫時自動與智慧升級，智慧物流時常與智慧倉儲相輔相成，除前述的科技導入外，尤其更重大數據蒐集與分析，以提升貨物與原物料的運輸、包裝、裝卸、搬運、加工、配送、數據管理等。本期介紹的智慧倉儲與物流，可迎合新南向國家電商市場的快速成長，為全球各地僑台商提供倉儲與物流的升級與智慧化。

Smart storage applies ICT technology, cloud, automated process equipment and smart management platforms to conduct storage facility management. Once items arrive at storage facilities, they are to be unloaded, moved, assessed, counted and be put in inventory. All the processes can be automated and smart. Smart logistics and storage go hand in hand and support each other. On top of the technology application mentioned above, smart logistics is especially about data collection, processing, and analysis because it involves packing, loading, processing, shipping, and delivering. The following article introduces smart storage and logistics which are particularly important for the growing e-commerce markets in Southeast Asia. The solutions can upgrade Taiwanese businesses all over the world and make them operate smarter.

菁英電腦ICLP倉儲解決方案，是您倉儲與物流管理的策略性伙伴

ECS's ICLP smart storage and logistics solution is your best strategic partner.

ICLP解決方案由ECS與Intel共同開發，在物流的場域裡布滿光纖、物聯網、雲端服務等設備，不僅可簡化工作人員處理訂單及運送商品的負擔，減少送錯單的狀況，也可透過系統整合的物流系統，收集管理訂單的明細資料。在智慧倉儲的環境中，每個貨物訂單上都有一個條碼，並透過掃描精準地把商品以傳輸帶運送的方式至裝運箱或貨車上。

ICLP (Intel® Connected Logistics Platform) is jointly developed by ECS (Elitegroup Computer Systems) and Intel. Through installing optical fibers, applying information and communications technology, and deploying cloud services in warehouses for logistics, ICLP simplifies the work tasks for logistics staff in terms of order-to-delivery process. ICLP is a platform of system integration that manages your orders, delivers faster, helps order fulfillment and decreases throughput time. ICLP also tracks every single package and order through barcodes for the purpose of precisely achieving smart pick and put process.



倉庫如需定期補貨，在倉庫的地面及貨架上都貼有一系列字母標籤，透過系統協助員工將貨物透AGV(Automated Guided Vehicle)送到指定的貨架上。另外，該解決方案同樣也有“無紙化運貨”的功能。由於舊式的運貨方式需要倉庫工作人員拿著實體清單核對倉庫上的貨物，如今透過這項功能，利用系統減少上述工作流程，節省員工的工作時間，提升效率。

When regular stock replenishment is needed, ICLP conducts stocking corresponding to the assigned shelves and the alphabet tags on the warehouse floor and shelves by applying AGV (Automated Guided Vehicle). Furthermore, the paperless pick and put process replaces the old way of check and confirm on paper conducted by staff. ICLP thus optimizes logistics, reduces staff work hours, and increases efficiency of the warehouse operation.



### ICLP倉儲解決方案提升物流與貨運效率，讓企業跟上商業速度

ICLP enhances efficiency of logistics and delivery and gets corporations to keep up with business speed

以智慧倉儲解決方案而言，可針對規模不一的倉庫提供客製化的設計，規模較小的倉庫可透過工作人員操控裝有顯示螢幕的貨運車，提取或上架貨物，不過這樣的解決方案卻無法應用於大型倉庫。由於大型倉庫無論在管理面積及貨物量都是小型倉庫無法比擬的，因此在引進智慧倉儲系統至大型倉庫時，需劃分“工作區”及“部門”。工作人員管理著自己的責任區，透過系統所傳送的訂單及資料，領取貨物，工作流程類似於工廠的流水線。其實這樣的系統整合的解決方案能夠帶給業主許多優勢，包括：增加貨物運輸的處理效率，簡化運送流程，減少運送時所造成的錯誤，降低因錯誤而衍生出不必要的成本。

There are a variety of smart warehouse solutions for different sizes of warehouse and scales of logistics. Staff may control warehouses of smaller sizes on monitors in shipping trucks to load and unload. However, ordinary solutions may not be well applied due to the area and volume of larger

warehouses. Sections and departments are thus needed in order to apply smart storage and logistics solutions in larger warehouses. Each staff member belongs to a specific section of warehouse and conduct their respective tasks which is similar to a specific section of a library. ICLP solution brings many benefits for warehouse owners and logistics supervisors, such as enhancing efficiency of logistics and delivery, simplifying pick and delivery process, reduces errors in warehouse operation, and lower the costs that would incur otherwise.



鈞曜科技的智慧倉儲解決方案，是商品物料管理需求者智慧化的第一選擇

STE Co. – your first choice to smart storage solution of raw materials, components, and products

若尚無大量物流需求、廠房的規模上有所限制、需要原物料的存放、或商品會有持續進項出項的需求，鈞曜科技的智慧倉儲解決方案，是商品與物料管理者智慧化的第一選擇。鈞曜科技依據客戶的產品、原物料樣態、廠房、場域環境、規格與乘載重量等需求，提供具一條龍服務、加乘效益的智慧倉儲，客製化的彈性、標準化的品質，再加上清楚的目視化產品，鈞曜科技一年至少接到200通以上海內外電話詢問其智慧倉儲解決方案。

If your business is not in high demand of logistics but in need of storage planning and efficient traffic flow of stored items, STE's smart storage solution is your first choice for storing raw materials, components, and products. STE provides end-to-end services according to clients' products, material types, factory sizes and surrounding environment, specifications, bearing weight, and other needs. Synergistic benefits, customization feature, high quality along with standardization, and visualized products provided by STE through its smart storage solution can get itself over 200 inquiry calls every year.

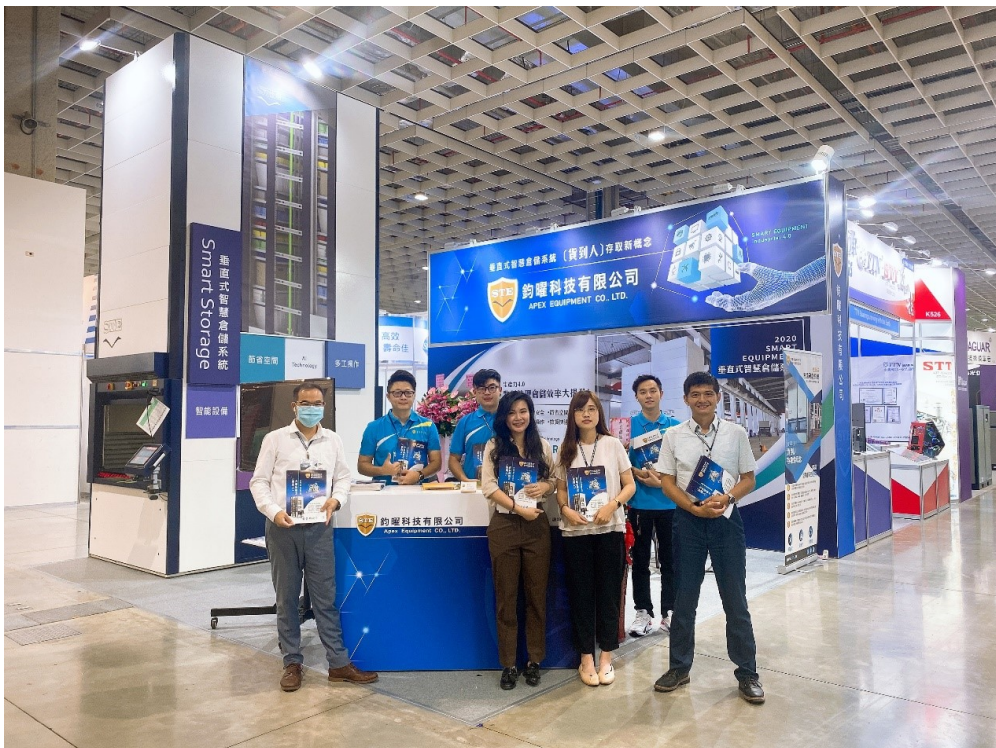




鈞曜科技開發出自行製造的垂直式和旋轉式倉儲解決方案，以拖盤為單位、多種規格的標準化尺寸，依客戶需求與規格，設計與拼接出像積木一樣客製化與彈性的智慧倉儲，在設備面向：鈞曜的智慧倉儲設備水平、垂直、旋轉式升降都不是問題，密閉空間可避免塵照，具備單一操作口提升安全性；在操作面向：鈞曜科技提倡「貨到人」的概念，操作員以帳密管理存貨、拿貨，每次的操作、規格與品項，會自動被系統儲存，系統並在下次操作時會自動調整規格，再者，鈞曜科技的智慧倉儲管理系統，透過智慧裝置與設備上的面板，讓客戶即時掌握整個倉儲場域與各個設備的物料狀況、產品進出記錄、並可追蹤與分析歷史數據。



STE has successfully developed its vertical and carousel smart storage solutions. Both solutions apply the tray as the unit in order to meet every client's needs and can be designed and puzzled into customized storage facilities. On the equipment side, both vertical and carousel smart storage provide all kinds of movement and enclosed space for dust-free purpose. Single operation desk for each smart storage unit also increases safety and efficiency for staff. On the operation side, STE provides smart storage management system along with its storage facilities in pursuit of "product-to-you" instead of "you-to-product." Staff operate the storage with individual account number and password which automatically records every movement, process, and item you take out and put in. STE's total solutions with smart storage facilities and management system allow you to monitor your entire storage space and operation.



鈞曜科技 : <http://www.jyste.tw/en> (<http://www.jyste.tw/en>)



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