

勵德自動化有限公司 Leader Automation Co., Ltd.



彰化縣大村鄉平和村中山路3段2巷430號
No.430, Ln. 2, Sec. 3, Zhongshan Rd., Dacun Township, Changhua County 515, Taiwan (R.O.C.)
Tel: +886-4-8524640 Fax: +886-4-8526341 E-mail: ldauto@ld-auto.com
統編: 22797902 Web: www.ld-auto.com



機械手臂 / 咖啡機器人 / 飲料機器人 / 機械手臂系統整合 / 自動化產線設計 / 機器視覺系統
ROBOT / ROBOTIC COFFEE SHOP / ROBOTIC BUBBLE TEA SHOP /
ROBOT SYSTEM INTEGRATION / ASSEMBLY LINE AUTOMATION / MACHINE VISION SYSTEM



追求卓越 · 不斷創新
PURSUIT OF EXCELLENCE
INCESSANT INNOVATION

勵德自動化有限公司
Leader Automation Co., Ltd.

■ 公司簡介 Company Profile

創立於民國 77年，多年來以不斷研發創新的技術及客製化協助台灣產業升級。專研於自動機械、電控系統設計規劃、圖面設計、現場組裝試車、PLC控制系統、PC控制系統、網路架構系統、專業殺菌系統設計、線上量測系統(CCD、雷射、BARCODE)設計開發、自動化系統整合等已有30年以上的實務經驗。

近年致力於工業 4.0 專用機械手臂之應用研發，可依客戶需求設計規劃產線，我們有完整的機電整合技術，且專項於AI自動化設備研發、設計、製造使生產製造的設備具實用性、低耗損率及快速優質的售後服務，是產業界最好的選擇。

Founded in 1988, it has assisted Taiwan's industrial upgrading through continuous research and development of innovative technologies and customization over the years. Specialized in automatic machinery, electronic control system design and planning, drawing design, field assembly and commissioning, PLC control systems, PC control systems, integrated network systems, professional sterilization system, and online measurement systems (CCD, laser, barcode), automation system integration. Has more than 30 years of practical experience.

We have complete electromechanical integration technology and specialize in the research and development, design, and manufacturing of AI automation equipment, making the production and manufacturing equipment practical, is the best choice in the industry.



■ 獲獎&認證 Award and Certificate

勵德不斷的精進專業和技術，為了讓產品與服務品質更好，除了技術研發外，也取得國內外各項專利，並獲得歐盟CE、美國UL、加拿大CSA、ISO 9001:2015國際品質管理系統認證，並榮獲台灣精品獎、國家品牌玉山獎-全國首獎、中小企業創新研究獎。

Leader Automation continues improvement of expertise and technology. In order to improve the quality of products and services, in addition to technology research and development, Leader Automation also obtained patents, CE, UL, CSA, and ISO 9001:2015 quality management systems certification, and won the Taiwan Excellence Award, the National Brand Yushan Award - National First Prize and Taiwan SMEs Innovation Award.



台灣精品獎
Taiwan Excellence Award



經濟部中小企業創新研究獎
Taiwan SMEs Innovation Award



CE認證-咖啡機器人
CE certification-
Robotic Coffee Shop



CE認證-飲料機器人
CE certification-
Robotic Bubble Tea Shop



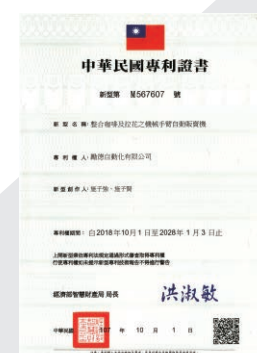
ISO9001:2015認證
ISO9001:2015 certification



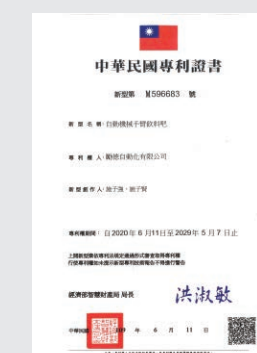
ETL認證(UL和CSA)
ETL certification (UL and CSA)



果凍雕花機器人發明專利
Invention patent-Jelly Robot



咖啡機器人專利
Patent-Robotic Coffee Shop



飲料機器人專利
Patent-Robotic Bubble Tea Shop



國家品牌玉山獎(全國首獎)
National Brand Yushan Award
(National First Prize)

■ 機械手臂 Robots

針對客戶的機械手臂需求，提供各式類型機械手臂：六軸機械手臂、碼垛型機械手臂、協作型機械手臂、SCARA機械手臂、DELTA機械手臂，可搭配HMI、PLC、PC Based等上位控制與智慧視覺，實現設備智慧化，生產客製化的願景。

Provides various types of robot : 6-axis robot, palletizing robot, collaborative robot, SCARA 4-axis robot, DELTA parallel robot, which can be used with HMI, PLC, PC Based and other upper-level control and intelligence vision, realizing the vision of intelligent equipment and customized production.



■ 機械手臂系統整合/自動化產線設計 Robot System Integration/Assembly Line Automation

• 機械手臂上下料自動化 Robotic Loading and Unloading System

提供機械手臂上下料解決方案，整合長軸類、圓盤類、不規則形狀、金屬板件、桶裝、罐裝等不同工件之自動上下料、翻轉、入盒、入箱、入籃工法；可進行24小時生產，精準定位、提高生產效率、節省人力成本、降低工安風險等。

Provide integrating automatic loading and unloading, flipping, boxing, carton-ing, and basket loading of different workpiece such as long shafts, disks, irregular shapes, metal plates, barrels, cans. It can carry out 24-hour production, precise positioning, improve production efficiency, save labor costs, reduce industrial safety risks.

• 案例分享 Case Studies



CNC加工機上下料(1對1車床)
1 to 1 CNC loading and unloading



CNC加工機上下料(1對2車床)
1 to 2 CNC loading and unloading



CNC加工機上下料(1對3車床)
1 to 3 CNC loading and unloading



糖漿罐裝入紙箱
Syrup jars packed into cartons



自動供籃機
Automatic basket feeding machine



三角飯糰裝籃機台
Customized basket loading equipment for rice ball

• 機械手臂堆疊自動化 Robotic Palletizing System

提供機械手臂棧板堆疊解決方案，前端整合自動折蓋機、角邊封箱機、輸送機、捆包機，末端整合全自動疊棧機，對紙箱、沙包、麻袋、瓶罐等不同包裝之自動堆疊、棧板輸送等工法，可提升堆疊速度、提高生產效率、節省人力成本、降低工安風險。

Provides palletizing solutions. The front end integrates automatic folding machines, corner sealing machines, conveyors, and strapping machines. The end integrates palletizer to automatically process different packaging such as cartons, sandbags, sacks, bottles, etc. Palletizing, pallet conveying and other construction methods can increase stacking speed, improve production efficiency, save labor costs and reduce industrial safety risks.

• 案例分享 Case Studies



沙包棧板堆疊
Pallet stacking of sandbags



粉料包棧板堆疊
Pallet stacking of powder packages



桶裝棧板堆疊
Pallet stacking of bucket



紙箱棧板堆疊
Pallet stacking of cartons



全自動疊棧機
Fully automatic pallet supply machine



全自動疊棧機
Fully automatic pallet supply machine

• 機械手臂噴膠/噴漆自動化 Robotic Spray Painting System

提供機械手臂噴膠及噴漆解決方案，透過研發的噴塗控制系統，搭配自動噴頭清潔裝置，確保噴塗品質並減低閒置時間，另可搭配3D或2D影像辨識，將噴塗角度、高度、黏稠度、速度等最佳化控制，進行鞋底、塑件、手套、襪子等不同產品自動噴膠。可提升噴料均勻、節省噴料量、提高生產效率、節省人力成本。

In response to customers' glue spraying/painting needs, we provide robotic spray painting solutions.

Through the developed spraying control system and the automatic nozzle cleaning device, we ensure the spraying quality and reduce idle time. It can also be equipped with 3D or 2D Image recognition and optimal control of the angle, height, glue consistency, speed, etc. It can satisfy customers even distribution of glue/paint, saving glue/paint usage, improving production efficiency, saving labor costs and other requirements can realize automatic glue spraying, spray painting and other processing methods for different products such as soles, plastic parts, gloves, socks, etc.

• 案例分享 Case Studies



防水手套噴膠
Spray glue for waterproof gloves



智慧機器人鞋底(面)噴膠機
Robot Outsole Glue Spraying System



壓克力板噴漆
Spray glue for acrylic panels



防水手套噴膠
Spray glue for waterproof gloves

■ 機器視覺系統 Machine Vision System

提供機器視覺解決方案，針對視覺檢測與缺陷偵測、定位與測量零件，及識別、分類與追蹤產品需求，可將生產線導入機器視覺取代人類視覺，利用視覺辨識判斷瑕疵或追蹤、夾取物件位置，結合機械手臂取代人力，能提高品質、追蹤零件和產品、提高產能效率、改善製造流程、節省人力成本。

In response to customer's needs for visual inspection and defect detection, positioning and measuring parts, as well as identifying, classifying and tracking products, we provide machine vision solutions. We introduce machine vision into the client's production line to replace human vision, and use visual recognition to determine defects or track clips. Taking the location of objects, combined with robot to replace human labor, can meet customer requirements such as improving product quality and reducing waste, tracking parts and products, improving production efficiency, improving manufacturing processes, saving labor costs, etc. Realize visual inspection, measurement and classification of different products.

• 案例分享 Case Studies



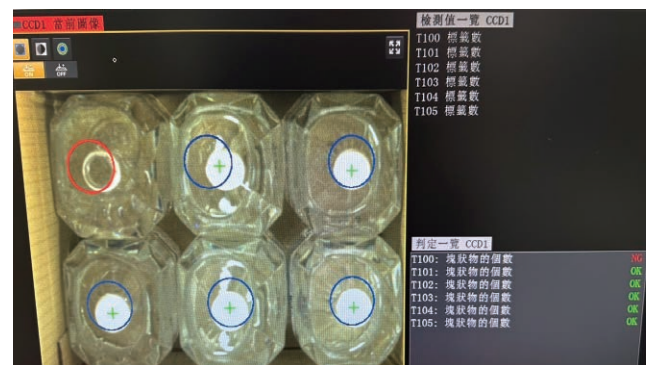
包裝袋 OCR 檢測
OCR identification of bag



手套尺寸辨識
Glove size identification

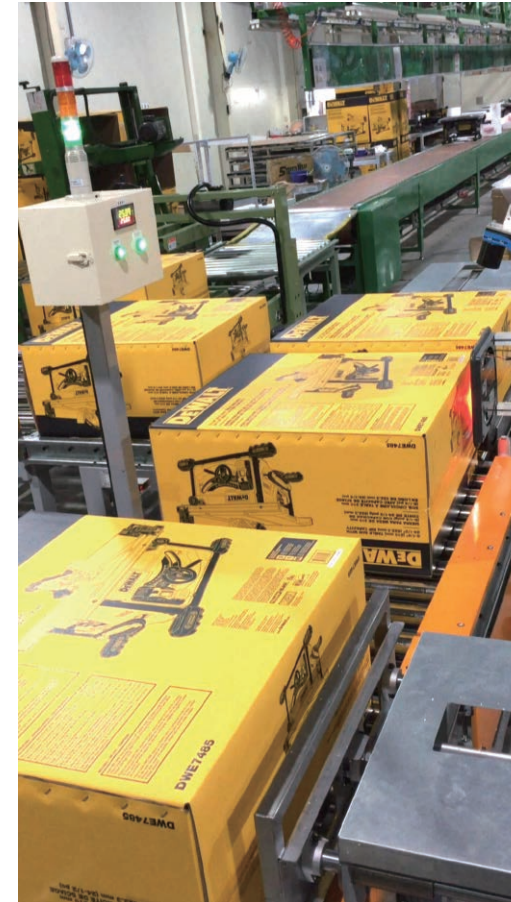


橡膠編號 OCR 辨識
OCR identification of rubber numbers



瓶蓋有無辨識
Identification of bottle caps

• 案例分享 Case Studies



紙箱序號 OCR 辨識
OCR identification of carton serial numbers



冷凍飯糰定位辨識
Positioning identification of frozen rice balls



輪胎內胎尺寸量測
Size measurement of tire inner tube

■ 服務項目 Service

- 機械手臂 Robots
- 咖啡機器人 Robotic Coffee Shop
- 飲料機器人 Robotic Bubble Tea Shop
- 機械手臂系統整合 Robot System Integration
- 自動化產線設計 Assembly Line Automation
- 機器視覺系統 Machine Vision System
- 食品、藥品殺菌系統 Food and Drug Sterilization system
- 客製化自動化設備 Customized Automation Equipment



咖啡機器人
Robotic Coffee Shop



飲料機器人
Robotic Bubble Tea Shop

■ 其他案例 Case Studies



多輸送帶自動匯流系統
Multi-conveyor belt automatic
converging system



高速精密沖床上下料
Loading and unloading of high-speed
precision punch machines



射出機下料
Unloading of injection machine



輪胎分流系統
Automatic tire distribution system



水淋式全自動高溫殺菌設備
Sprinkle water auto autoclave



Robot橫移平台(1對4棧板堆疊系統)
The 7th axis of the robot-traverse platform



全自動影像辨識機械手臂動態抓取入Tray盒
Automatic visual inspections and
SCARA dynamic grabbing into the tray



自動霜淇淋機
Automatic ice cream
machine



工業4.0聯網自動充填系統
Industry 4.0 auto filling system



果凍雕花機器人
Robotic jelly carving
machine



客製化設備-線上量測系統
On-line measurement system



客製化設備-全自動金屬加工品視覺檢測
Automatic visual inspections of metal products



各式試驗機控制系統
All kinds of tester control system