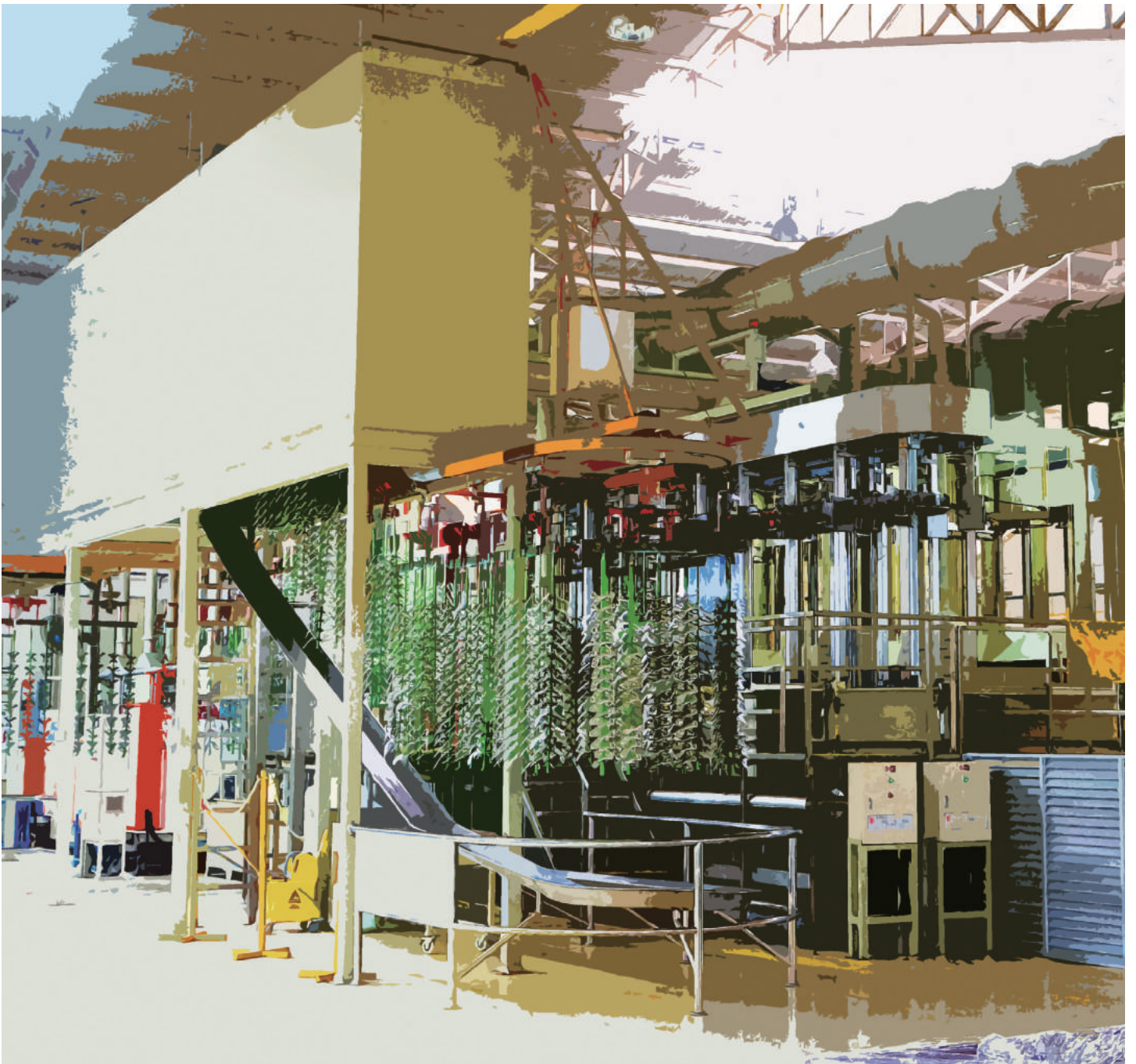




**HUNG LI MACHINERY**

鴻利機械工業股份有限公司

Best Plating Equipment







## Brief Introduction

Established since 1985, Hung Li (Hurmng Yieh) Machinery Industrial Co., Ltd. is a Taiwan based company focused on the manufacturing of automated surface treatment equipment and turnkey plants. With strong capabilities in designing and innovating, we have also obtained many patents for the design of electroplating equipment and polypropylene barrels.

Our clients are all over the world. In every continent across the globe, you will find Hung Li's equipment in operation. Especially on our domestic market presence, more than half of the electroplating lines currently running in the whole fasteners industry in Taiwan are built and serviced by Hung Li. We provide services for many industries such as fasteners, metal hardware, automobile, aerospace, electronics...etc., thus accumulated tremendous amount of experiences across different industries.

Not only pursuing for excellent product quality, we but also emphasize in process quality and efficiency. From client demand collaboration, design, manufacturing, installation, to trial run, all our processes have qualified for ISO9001 Quality System certification and CE product certification, which enable us to provide our clients better equipment and service. We have always been strong in after services as well. Our sophisticated product identity and build record system enables us to provide fast and precise repair and maintenance services, ultimately enables our clients to achieve the goal of consistent production.

*Your global partner for Plating Equipment*

**積極負責 創造價值**

**滿足客戶 追求卓越**







## 公司簡介

鴻利（鴻毅）機械工業股份有限公司於1985年創立於台灣台南，主要經營自動化表面處理機械及其相關設備的設計製造及整廠輸出。我們具備強大的設計開發能力，並且在電鍍設備及PP滾桶的設計上已取得多項專利。

本公司的銷售實績遍布世界各地，全球五大洲都有鴻利的機械在運作。在台灣本地更是非凡，台灣扣件業半數以上的電鍍機械設備均由本公司設計製造及維護。我們的客戶產業種類多樣，從扣件、五金加工、汽機車、航太、電子等不勝枚舉，跨產業的經驗非常豐富。

我們除了追求卓越的產品品質外，對於整個運作過程更是重視。由客戶需求、設計、製造、安裝、到試車的所有流程，均通過ISO9001國際品質系統認證及CE產品認證，來為客戶提供更完善的設備與服務。售後服務也一直是我們的強項，受益於精確的產品履歷系統，我們可以提供客戶更快更確實的維修服務，進而實現客戶穩定生產的終極目標。





## Brief History

- 1985:** HUNG LI MACHINERY INDUSTRIAL CO., LTD. was established in Tainan, Taiwan, specialized in design and building automated surface treatment equipment and waste treatment equipment.
- 1989:** Developed and patented designs of polypropylene plating barrels for various industries such as electronic, computer, automobile, fasteners, and metal hardware. Both performance and durability are highly appraised by domestic and international customers.
- 1991:** The second company/factory, Hurmg Yieh Machinery Industrial Co., Ltd. was established to meet fast growing demand.
- 1994:** Qualified and accredited by the Bureau of Industrial Development under the Ministry of Economic Affairs for production automation technology and service provider, to assist customers for the planning and design of production automation.
- 1995:** Patented the design improvement of the lifting arms and bus bars for rotary type plating equipment.
- 1996:** The third factory was established to meet international demands.
- 1998:** ISO 9001 Accredited.
- 2002:** CE Accredited.
- 2011:** The fourth factory was established, to exploit market in aerospace industry.
- 2012:** The fifth factory was established, to provide sufficient space for trial runs of highly complicated production lines before shipping.
- 2017:** Overseas sales office, Hung Li Corporation Japan, was established in Osaka, Japan.

## Patent

- Construction improvement of Beveling Type Plating Barrel
- Construction improvement of Hexagonal Plating Barrel
- Construction improvement of Conduction Bus on Plating Barrels
- The Chucking Device for plating
- The Filter Cartridge Cleaning Machine for plating
- The Self-fastening Conduction Bus device for plating
- The Tilting and Spinning Basket Chucking Crane
- The Injecting Nozzle for Chemical Agitation Tank
- One-piece Copper Conduction Bus for Plating Barrels
- Reclaiming Device of Trivalent Chromate Solution and its Process Control Device
- Processing Device for Barrel Body Perforation
- Simple Rotating Device on Hangers
- Efficiency Improvements of Oil Separating Device
- Mixing Device for Zinc Dissolution Tank
- Mechanisms of Drip Collecting Tray on Cranes



## 沿革

- 1985：**創立鴻利機械工業股份有限公司  
主要以生產表面處理整廠設備及防治環境污染設備等一貫作業之工業機械為主。  
本著精益求精，突破研究開發的精神，以提高表面處理技術，確保產品品質上的需求。
- 1989：**自行開發電鍍設備PP滾桶之設計並已得到多項專利尤其對半導體電子、電腦、汽機車及螺絲五金業等周邊設備有更大貢獻，其耐用性深受國內外客戶一致讚賞。
- 1991：**由於業務擴充廠房不足，增建二廠--鴻毅機械工業股份有限公司。
- 1994：**為經濟部工業局審查登錄合格之生產自動化技術輔導服務機構，協助客戶整廠自動化系統之規劃。
- 1995：**迴轉式電鍍之懸臂固定與導電進行改良，並已取得專利。
- 1996：**增建三廠，銷售延伸至全世界，積極拓展國外市場。
- 1998：**取得ISO9001國際品質保證系統認證。
- 2002：**取得CE產品認證。
- 2011：**增建四廠，積極拓展航太工業市場。
- 2012：**增建五廠，實現高複雜度產線出廠前試運轉。
- 2017：**成立日本辦事處於大阪 — 日本鴻利株式會社。
- 未來：**立足台灣，持續研發、製造更符合客戶需求之表面處理設備。

## 研發成果-專利

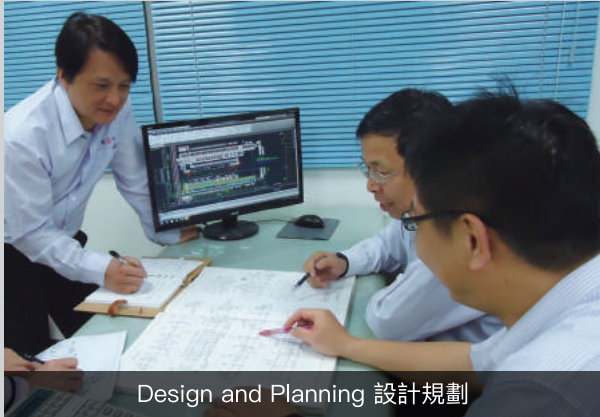
- 斜臂式電鍍桶改良結構
- 電鍍滾桶之結構改良
- 電鍍滾桶之導電結構改良
- 電鍍用簡易夾緊裝置
- 電鍍用濾心清洗機
- 電鍍用導電彈片夾緊裝置
- 傾斜旋轉式夾桶天車
- 槽內攪拌專用噴嘴
- 具一體成型導電銅板的電鍍滾桶
- 三價鉻鈍化液回收裝置及其控制流程
- 電鍍滾桶之透水孔加工裝置
- 簡易式迴轉升降裝置
- 可增加油水分離效率之裝置
- 具調和功能之電鍍溶解槽裝置
- 表面處理設備之滴水盤傳動結構

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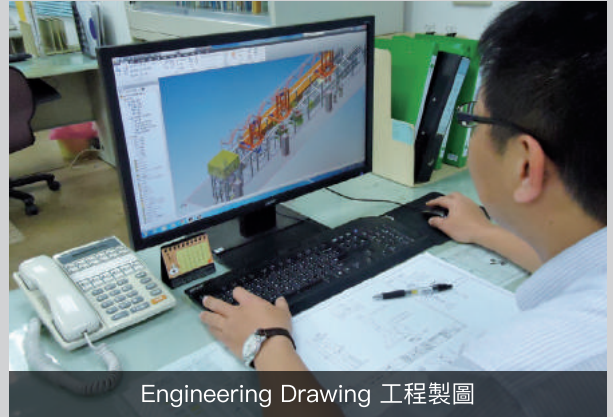


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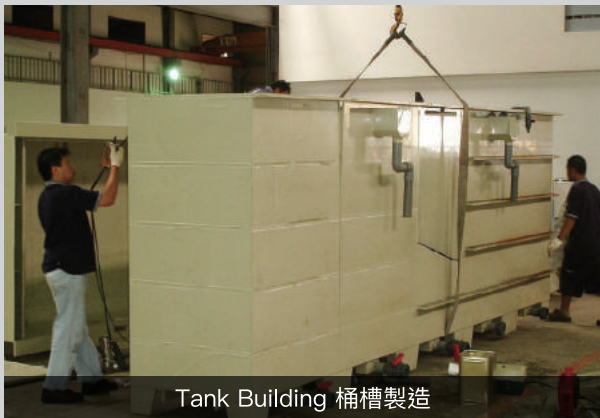
**務實經營 堅持品質**  
**信譽先行 無遠弗界**



Design and Planning 設計規劃



Engineering Drawing 工程製圖



Tank Building 桶槽製造



Machine Assembly 機台組立



We use CAD to design equipment layout and factory floor planning according to client's needs. In addition, CAID system is employed to develop prototype models, in both 2D and 3D models.

Every business collaboration, quotation, order, design, manufacturing, quality control, to delivery is handled with our professional team with sophisticated information management. We believe well-connected cooperation is the key to deliver highly efficient and quality products and services. We are always highly motivated and responsible for creating value, satisfying customers, and perusing for perfection.

運用先進CAD繪圖軟體設計客戶所需之電鍍廠房規劃及設備流程圖。並使用CAID電腦系統，從2D到3D實體模型(3D SOLID MODEL)的仿真彩現處理研發新型設備。

從業務報價、接單、研發設計、生產製造、品質管制到出貨均有一貫作業之人員及電腦管制，我們深信在層層分工合作之下，必能帶給客戶高效率、高品質的服務。

用積極與負責任的態度，創造價值、滿足客戶和追求完美。



Material Management 物料管理



Plastic Fabrication 板材加工



Quality Inspection 品質檢驗



Trial Run 整廠試車



- Applicable for plating different film thickness or for cleaning treatment, suitable for various size and shape of products.
- Computer program can be customized according to need and multiple programs can be stored. Additional functions such as HMI, graphical control, SCADA, or database, can be added to the computer program to enhance quality consistency and efficiency.
- 依需求可製作上軌及下軌或單階式等機型
- 適用於各種大小及形狀特殊物品，並可用於各種膜厚之電鍍，清洗處理。
- 電鍍流程可依作業需求隨時變化電腦程式，亦可同時設定多種程式並搭配人機介面，圖控，SCADA，資料庫等多種精密電控系統，以達到品質穩定及經濟效益。





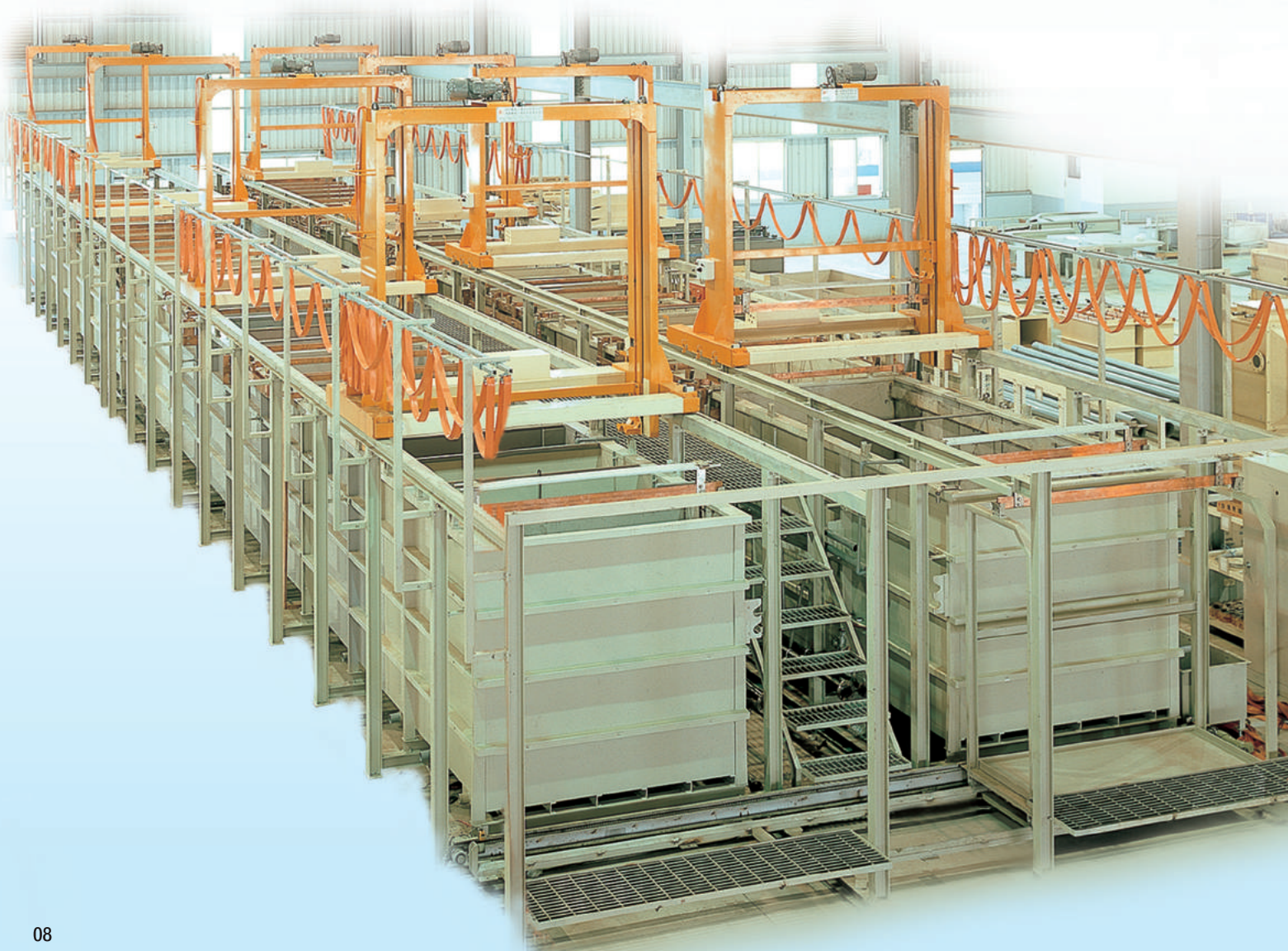




# Gantry Type Rack Plating Equipment

# 龍門式掛鍍設備

- Various types of crane and rails can be designed to fit for products and processes.
  - Suitable for large size or special shaped products, or diversity of products that requires frequent change in processes.
  - Suitable for anodizing aluminum alloy, plating on plastic or on various types of alloys.
  - Computer program can be customized according to need and multiple programs can be stored. Additional functions such as HMI, graphical control, SCADA, or database, can be added to the computer program to enhance quality consistency and efficiency.
- 
- 依需求可製作上軌及下軌或單階式等機型
  - 適用於各種大型、形狀特殊物件，產品種類繁多，需隨時變化電鍍流程者。
  - 可適用於鋁陽極處理、塑膠電鍍及各式合金電鍍。
  - 電鍍流程可依作業需求隨時變化電腦程式，亦可同時設定多種程式並搭配圖控，人機介面或PC監控等多種精密電控系統，以達到經濟效益。









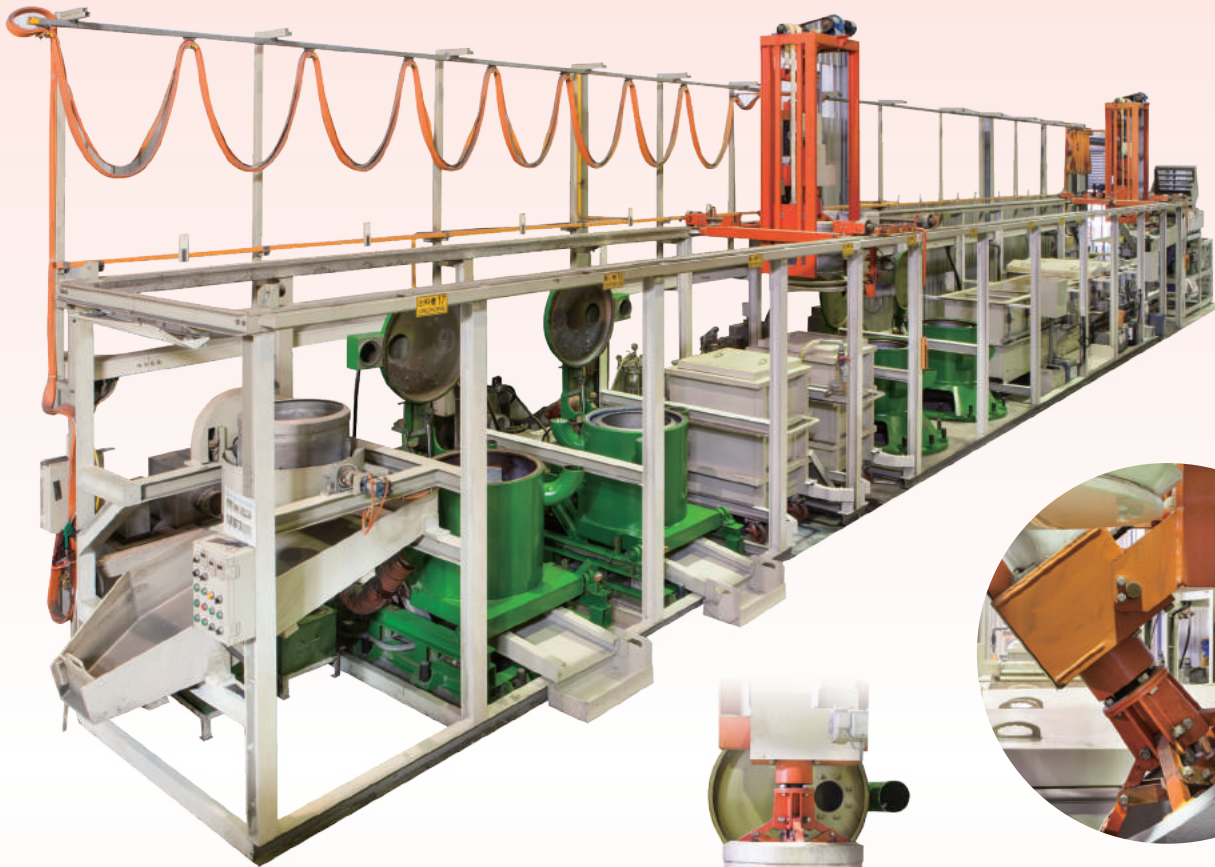


- Suitable for high volume, few varieties of products, that require minimal or no change in program.
- Electric current distributed evenly to achieve even film thickness. Mechanical movement is powered and controlled by hydraulic, operation is stable and quiet.
- 適合生產電鍍產品種類單純，無需變化流程者。
- 特色：導電分佈平均，膜厚均勻，以油壓泵浦控制橫移及昇降，運轉無聲、平穩。









- Chucking basket system can be designed tilted or straight spinning, suitable for post-plating passivation coloring or sealing processes.
- Tilted spinning mechanism can effectively tumble products to achieve consistent color and to reduce scratch and damage on products.
- Can be designed with automatic centrifugal dehydrator and drying devices.
- 夾桶設備可設計傾斜或直立旋轉，適用於電鍍後鈍化上色或封孔製程。
- 傾斜旋轉機構可有效翻攪鍍物，達到均勻上色，並且減少鍍物碰傷及刮痕。
- 可搭配全自動離心式脫水機及乾燥設備。



# Automatic Control System

# 自動控制系統



Main control by PLC with options of integrated systems such as HMI, graphical control, SCADA, and database storage. PLC can be designed to run independently that operation continues even when other integrated service such as SCADA is down. Features include overlap prevention, production report, process parameter setup, error alarm, event record, rotation speed control, and still many to list.

採用PLC主控及人機圖形監控整合系統，IPC遠端監控及資料收集，IPC當機PLC仍能獨立作業。具補鍍回鍍、中途單桶停鍍吊起檢驗自動放下續鍍、槽位料號管理雙重鍍架槽位偵測、報表系統、密碼權限設定、製程參數設定、輸出、回受管控、歷史事件記錄、多項警報、各組傳動可分別控制轉速等人性化操作功能。



HMI with graphical control system may include most of usual functions such as bar code system, error alarm, range setup, bath level control, spraying control, temperature control, pH value monitor, auto dosing control, and so on.

流程圖形控制人機介面含料號系統、異常警報、上下限異常警報設定、畫面警報，液位開關控制、噴水控制、省水裝置、板式熱交換器溫控系統、PH值偵測、自動加藥含定量泵浦及PVC藥水槽等。



Rectifier control system can work as fixed ampere or fixed voltage setting. The signal translator enables the rectifiers to communicate with the PLC and perform as instructed. With the integrated graphical control interface, centralized operation control and data management is made simple.

定電流或定電壓電晶體整流器系統，內含信號轉換器，將整流器電壓電流轉換給PLC連線，完善的圖形監控系統與集中管理的整流器組，整合於同一操作點，以利資料之彙總及便於維護。



# Single Arm Type Barrel Plating Equipment

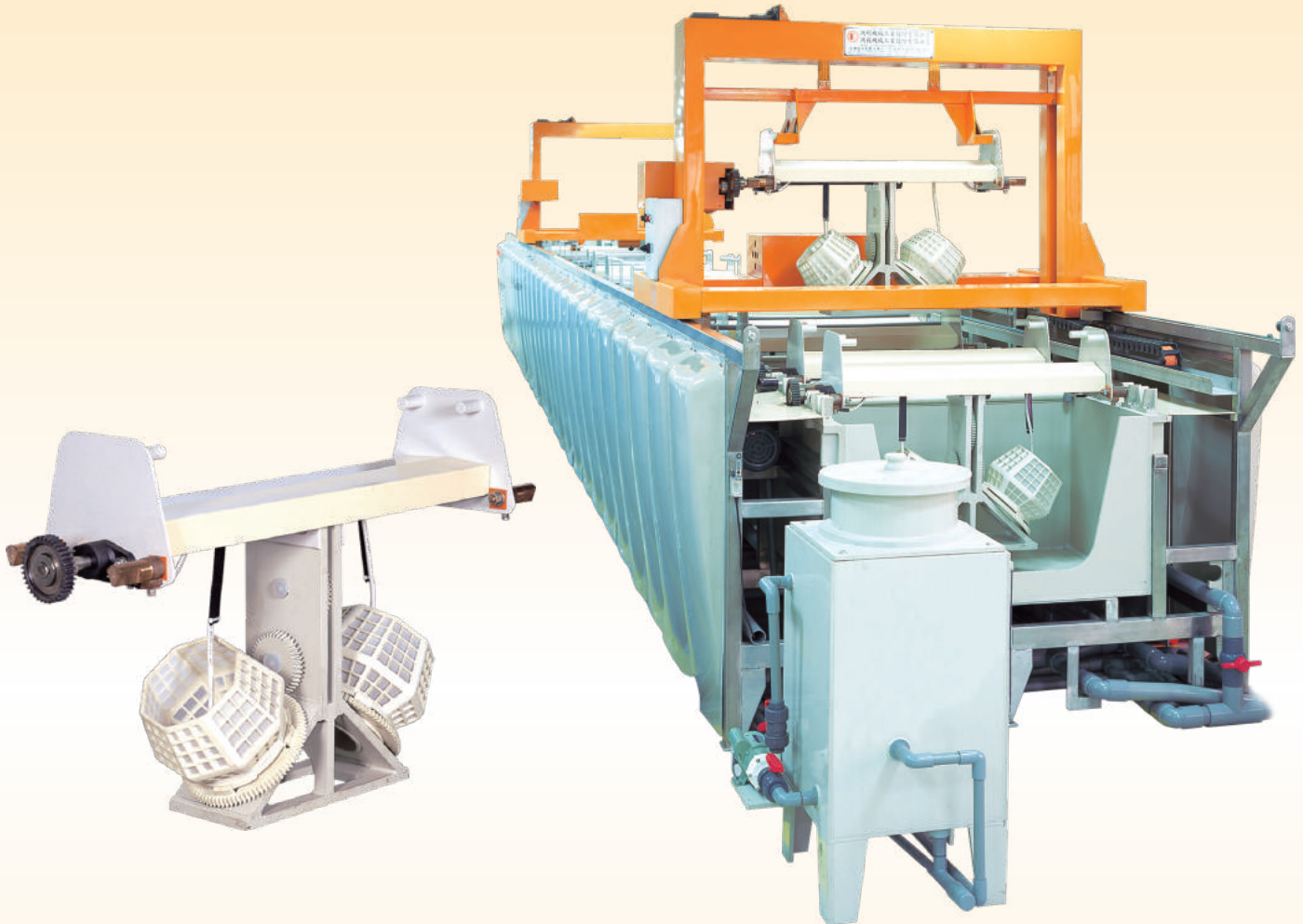
# 單臂式滾鍍設備





## Tilted Bowl Type Plating Equipment

## 斜碗式滾鍍設備

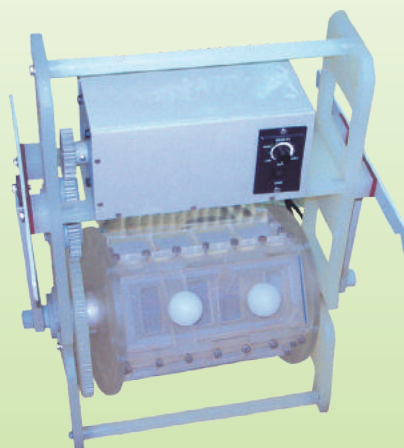
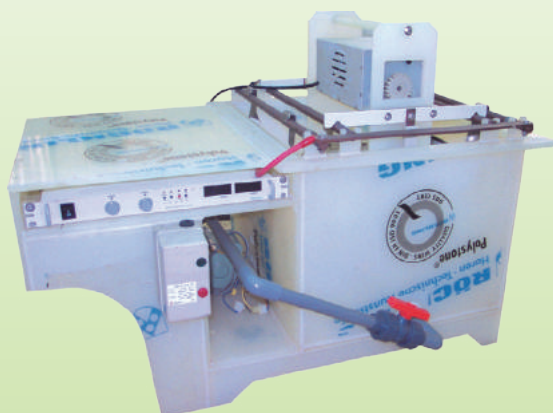
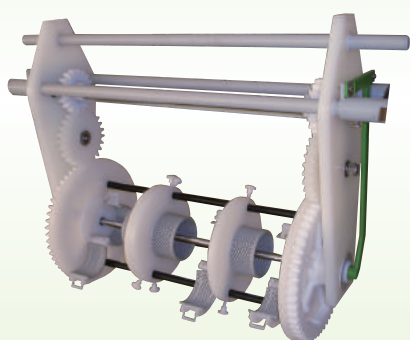
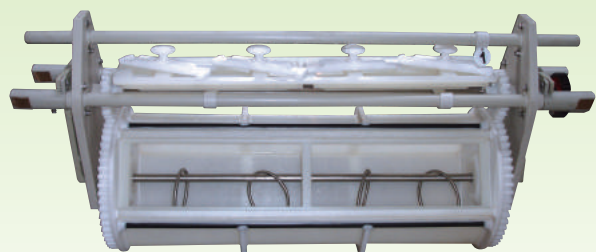
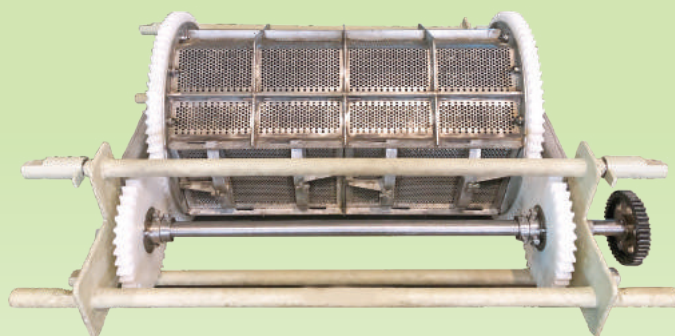
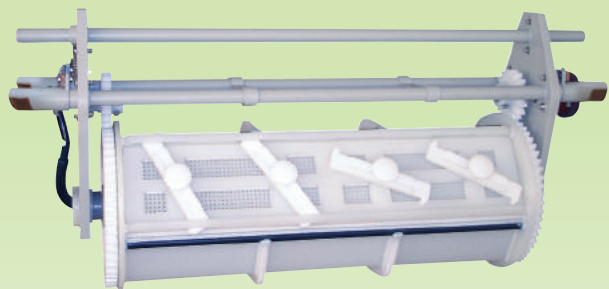


- Both the Single Arm Type Barrel Plating Equipment and the Tilted Bowl Type Plating Equipment are suitable for very small size, delicate, and light weight products that require plating film with high levels of precision and uniformity, such as MLCC, capacitors, resistors, or connectors.
- Single Arm Type Barrel Plating Equipment requires only small area of work space and provides ease for work along bath tanks.
- The Bowls on the Tilted Bowl Type Plating Equipment can be detached from the frame to provide ease for loading/unloading and to avoid product stuck in the bowl.
- 單臂式滾鍍設備及斜碗式滾鍍設備均適用於產品細小輕量、精密、均一性要求高的電鍍製程，如被動元件、電容、電阻、端子等細小產品。
- 單臂式滾鍍設備強調利於操作員於槽邊作業及管理，設備精簡不佔空間。
- 斜碗式滾鍍設備的鍍籃可取下，利於鍍物的出入料作業及杜絕卡料問題。



# Types of Plating Barrels

# 各式滾桶



小型電鍍實驗設備 Small Plating Lab



## Management Philosophy

### 負責 · 積極 · 突破 · 創新

Serving customers has always been the business principle of Hung Li (Hurmng Yieh) Machinery. Not only provide planning and design of plating plants, operator training, and maintenance for customers, but also emphasize in building strong and tight links with vendors and customers in order to provide efficient after services.

Everyone in Hung Li follows the management philosophy of being “Responsible, Motivated, Break-through, and Innovative”, strives to grow with our customers and to strengthen company image with quality policies of “Being responsible and motivated, Creating Value, Satisfying customers, and Perusing for perfection”. We are also committed to make best effort to transform plating industry to environmental friendly industry as our give back to the society, ultimately retain a cleaner, healthier, and better living space for many generations to come.

鴻利（毅）機械工業股份有限公司秉持著服務客戶的信念，除了為客戶規劃整廠電鍍機械設備、專業技術操作人員培訓、輔導廠商經營生產及解決機械設備發生之問題，並與協力商及客戶間建立良好的互動關係，以建立最有效率之售後服務。

公司全體員工始終秉持著『負責、積極、突破、創新』的經營理念，並以「積極負責、創造價值、滿足客戶、追求卓越」的品質政策來強化企業形象，與客戶共同成長。在公司永續經營的理念下提升客戶的滿意度為目標，並進而回饋社會。從現在起電鍍業將不再被視為是高污染的行業，我們將貫徹這個觀念為全球的環境保育工作貢獻心力，以期留給下一代更“純淨、健康、美好”的生活空間。







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