



競銘機械股份有限公司
COMMEND MACHINERY CO., LTD.



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競銘公司成立於1997年3月

Commend Machinery Co., Ltd. Was founded in March 1997

主要營業項目: (Main business items)

電路板、五金類、汽機車零件之電鍍暨表面處理機械
設備規劃、設計、製造、服務

Planning, design, manufacturing and technical service of
electroplating and surface treatment for PCB, hardware
and auto parts.



A : PCB軟硬板類: (Flexible and Rigid PCB)

1. 黑氧化處理設備 Black oxide treatment equipment
2. 除膠渣&化學銅處理設備 Desmear and PTH treatment equipment
3. 一次銅電鍍設備 Panel plating equipment
4. 二次銅電鍍設備 Pattern plating equipment
5. 化學鍍金電鍍設備 Nickel & gold plating equipment
6. 鍍金電鍍設備 ENIG (Electroless Nickel and Immersion Gold) equipment
7. VCP垂直連續電鍍銅設備 Vertical Continuous Plating equipment



B : 汽、機車、五金類 (Automobile, motorcycle and hardware)

- I . ABS電鍍設備 ABS electroplating equipment
- II . 五金電鍍設備 Hardware electroplating equipment
- III . 汽、機車零件電鍍設備 Automobile and motorcycle parts electroplating equipment





服務地理位置 GEOGRAPHICAL LOCATION



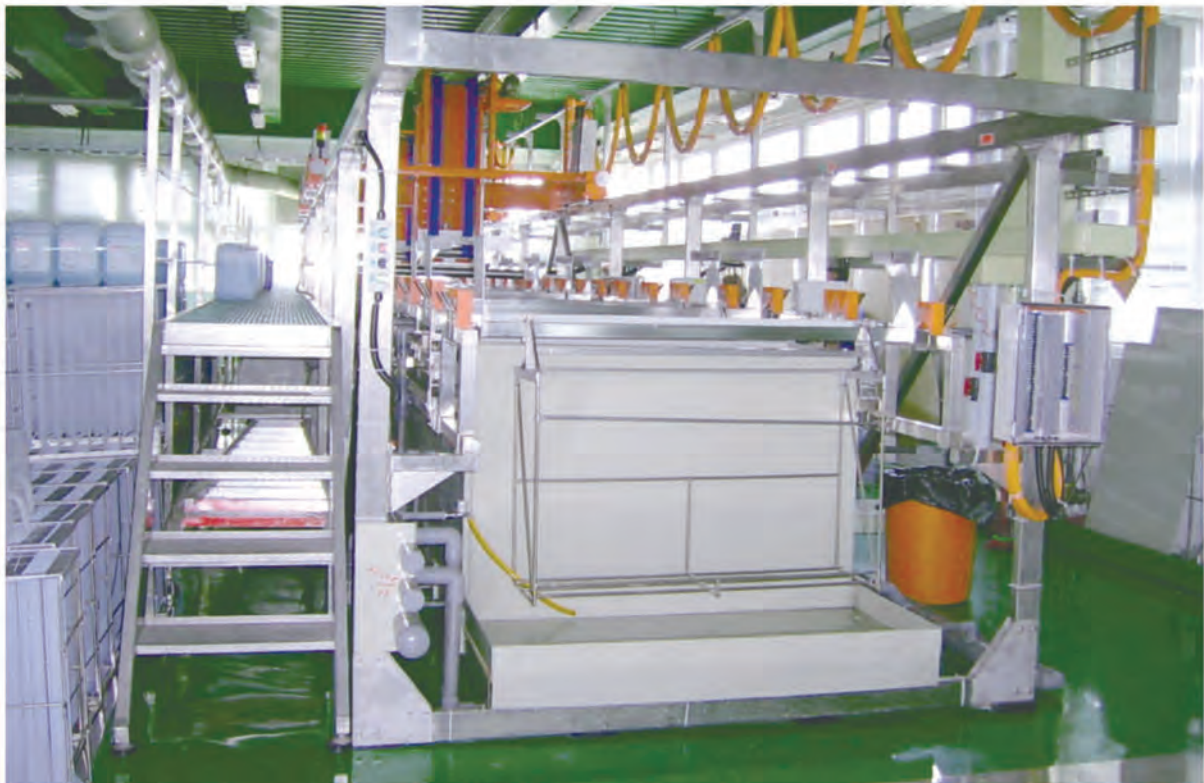


黑氧化處理設備 **BLACK OXIDE TREATMENT EQUIPMENT**

- 特點:
1. 標準型. 規格化. (零組件獲有多項專利)
 2. 操作容易. 保養簡便.
 3. 升降滑軌在槽上方. 安全性高.
 4. 規格. 材質以合約為據

Special features:

1. Standardized model and specification (Patented parts and components)
2. Easy operation, simple maintenance
3. The vertical moving guide rail is installed on the upper side of the tank to ensure higher safety.
4. Specification and material depend on contract





軟/硬板.除膠渣與化學銅線設備

FLEXIBLE/ RIGID PCB, DESMEAR AND PTH EQUIPMENT

1. 標準型.規格化(零組件獲有多項專利)
2. 操作容易.保養簡便.
3. 升降滑軌在槽上方.安全性高.
4. 規格.材質以合約為據

1. Standard model and specification (Patented parts and components)
2. Easy operation and simple maintenance.
3. The vertical moving guide rail is installed on the upper side of the tank to ensure higher safety.
4. Specification and material depend on contract





全罩式鍍銅線設備 (吊車新型專利第083060號)

1. 標準型. 規格化. (零組件獲有多項專利)
2. 可防止化學液產生的有害廢氣擴散, 增強廢氣抽排效果。
3. 規格. 材質以合約為據

COPPER ELECTROPLATING EQUIPMENT(WITH ENCLOSURE)

The hoist machine was granted the patent of New Utility (Patent Licence No.083060)

1. Standardized model and specification (Patented parts and components)
2. Can prevent the hazardous gas generated by chemical liquid from diffusion, and intensify the waste gas extracting effect.
3. Specification and material depend on contract





軟/硬板鍍銅線設備 (吊車新型專利第083060號)

1. 吊勾升降雙軸設計. 取代開合機構.
2. 操作容易. 保養簡便.
3. 升降滑軌在槽上方. 安全性高.
4. 設有維護與添加銅. 錫球作業用平台
5. 規格. 材質以合約為據

FLEXIBLE / RIGID PANEL / PATTERN PLATING EQUIPMENT

The hoisting machine was granted the patent of New utility (Patent Lincence No.083060)

1. Double shaft hoisting design instead of adjustable/extended mechanism
2. Easy operation, simple maintenance
3. The vertical moving guide rail is installed on the upper side of the tank to ensure higher safety.
4. Provide working platform for maintenance and making up cooper and solder ball.
5. Specification and material depend on contract.





全罩式化鎳、金處理設備

1. 標準型. 規格化. (零組件獲有多項專利)
2. 可防止化學液產生的有害廢氣擴散. 增強廢氣抽排效果.
3. 規格. 材質以合約為據.

ELECTROLESS NICKEL AND IMMERSION GOLD PLATING EQUIPMENT (WITH ENCLOSURE)

1. Standardized model and specification (Patented parts and components)
2. Can prevent the hazardous gas generated by chemical liquid from diffusion , and intensity the waste gas extracting effect.
3. Specification and material depend on contract



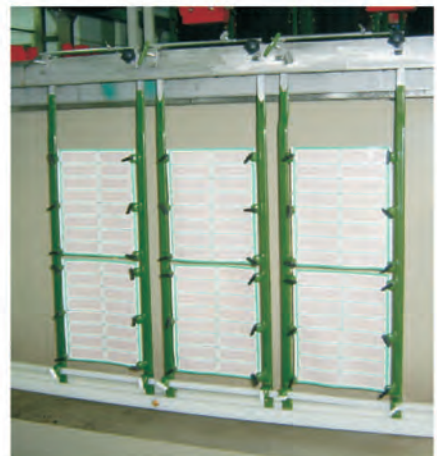


全罩式鍍鎳、金處理設備

1. 標準型. 規格化. (零組件獲有多項專利)
2. 可防止化學液產生的有害廢氣擴散, 增強廢氣抽排效果.
3. 規格. 材質以合約為據

NICKEL, GOLD ELECTROPLATING EQUIPMENT(WITH ENCLOSURE)

1. Standardized model and specification (Patented parts and components)
2. Can prevent the hazardous gas generated by chemical liquid from diffusion, and intensity the waste gas extracting effect.
3. Specification and material depend on contract





雙層VCP連續垂直電鍍銅設備

軟/薄板電鍍25秒/片~55秒/片(線速0.3~0.8M/Min.)

上層--電鍍段 下層--上.下板與剝掛段

新型專利:M325707號

DOUBLE-LAYER VCP (VERTICAL CONTINUOUS PLATING) EQUIPMENT

Flexible/thin board electroplating 25sec./sheet~55sec./sheet (line-speed 0.3~0.8M/Min.)

Upper deck—Plating section Lower deck—Loading/Unloading, Rack-strip section

New Utility Model Patent No: M325707



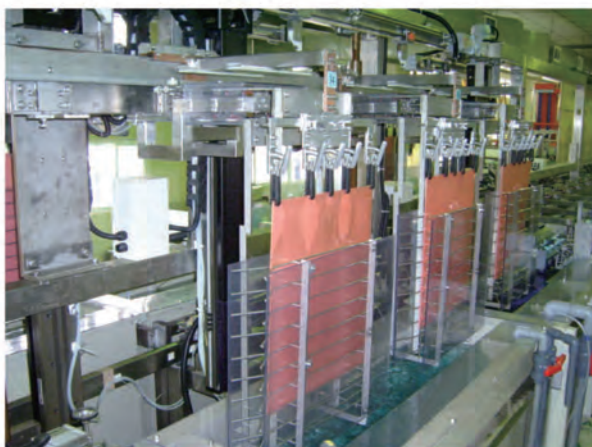


VCP連續垂直電鍍銅設備

軟. 薄板電鍍35秒/片~55秒/片

VCP (VERTICAL CONTINUOUS PLATING) EQUIPMENT

Flexible & thin board electroplating 35sec./sheet~55sec./sheet



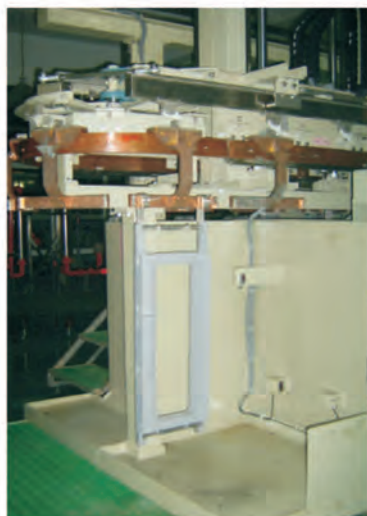


新型推進式電鍍銅設備

NEW DESIGN PUSHER TYPE COPPER ELECTROPLATING EQUIPMENT

適合軟/硬板一次銅電鍍作業、設備佔用空間. 節省30%以上
操作簡便. 保養容易. 電腦輔助監控生產

Suitable for flexible/rigid board panel electroplating
More than 30% of the space for the equipment is saved.
Simple operation, easy maintenance computer-aid monitored production.





單軌型.懸臂式電鍍設備

SINGLE RAIL CANTILEVER TYPE ELECTROPLATING EQUIPMENT





雙軌型.T式電鍍設備

DOUBLE RAIL. T-TYPE ELECTROPLATING EQUIPMENT





ABS電鍍設備

汽機車業塑膠電鍍機

ABS ELECTROPLATING EQUIPMENT

Plastic electroplating equipment for automobile industry





汽機車電鍍機

避震器. 軸心. 排氣管等電鍍

ELECTROPLATING EQUIPMENT FOR AUTOMOBILE AND MOTORCYCLE PARTS

Electroplating of cushion device, shaft and exhaust pipe etc.



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