

台鵬電子表面處理(中山)有限公司

公司簡介 Company Profile

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公司簡介 **Company Profile**

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公司沿革 Company History



台灣桃園 Taoyuan, Taiwan

- ☀ 台鵬化學有限公司，于1987年成立
Tai Perng Chemical Co., Ltd., established in 1987
- ☀ 廠房面積 Floor space: 5000 m²
- ☀ 產品 Products: 電子、機電、汽車相關電鍍產業
relevant industries of electronic
- ☀ 員工人數 Employees: 80



廣東中山 Zhongshan of Guangzhou, China

- ☀ 台鵬電子表面處理(中山)有限公司，
于2000年成立
Tai Perng Electronic Plating (ZhongShan) Co., Ltd.,
established in 2000
- ☀ 廠房面積 Floor space: 9600 m²
- ☀ 產品 Products: 汽車、機電、電子相關電鍍產業
relevant industries of electronic
- ☀ 員工人數 Employees: 80

經營理念 Vision and Values

技術創新 Technical Innovation

積極致力于新設備新藥水的開發，制具和新工藝的創新，來滿足顧客對電鍍規格的需求。Actively engaged in advanced equipment, new technology and innovative medicine development, to meet customers' need in specific electron plating.

持續改善 Continuous Improvement

通過“PDCA”循環持續不斷的改進，來提高我們的技術深度，同時提高競爭優勢。By "PDCA" procedures, continue to improve technology, and to increase competitive advantage.

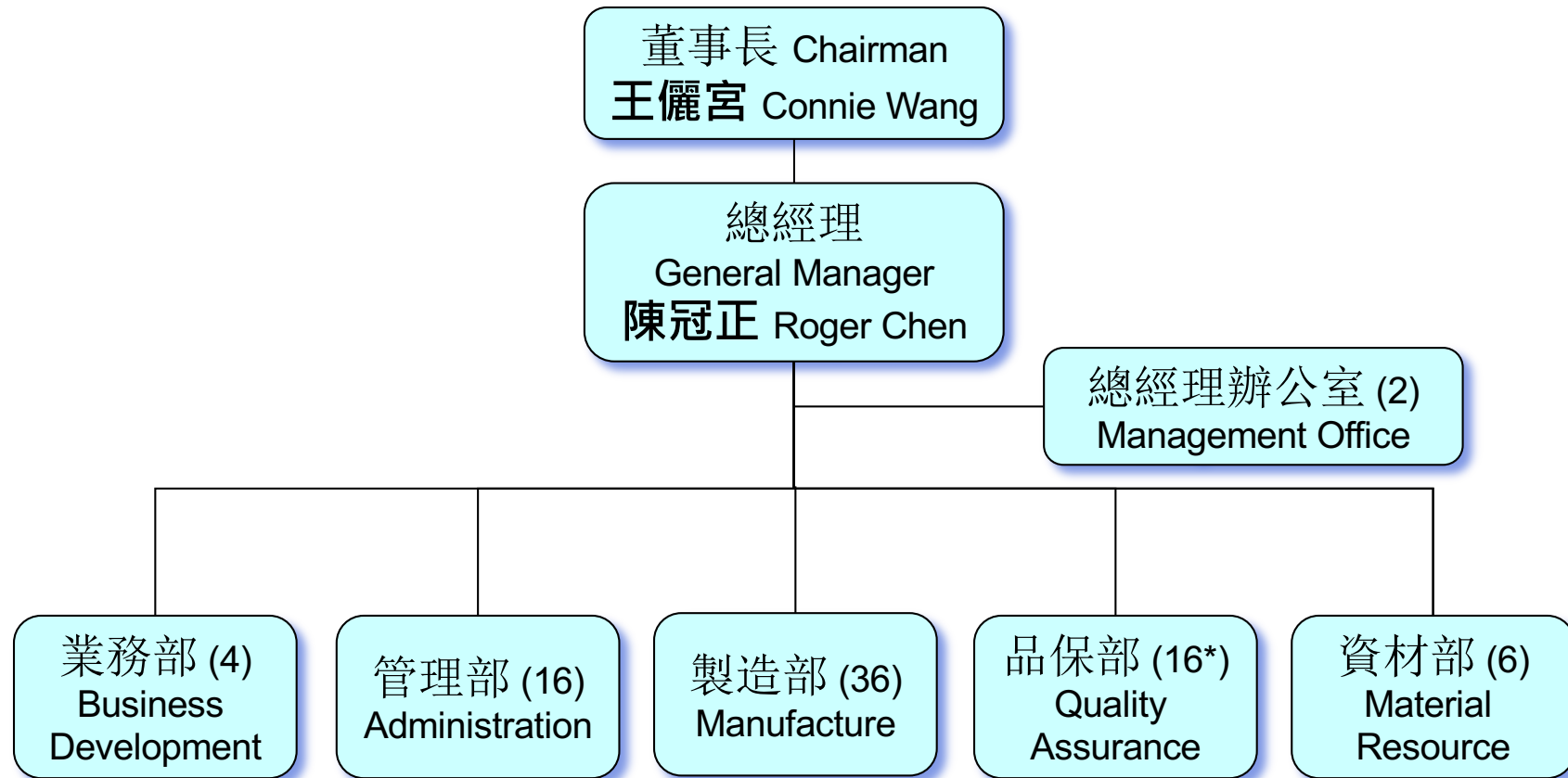
品質優異 Quality First

以“品質是企業的命脈”為宗旨，高精度的檢測與測量及生產工藝設備，確保品質的穩定。“Quality First”, we ensure quality stability by high-precision equipment and inspection.

服務滿意 Customer Satisfaction

以準確的交期，合理的價格，優異的品質，令客戶滿意。On time delivery, reliable price offer, superior quality, to satisfy customers' need.

組織架構圖 Organization



* Quality Assurance: Supervisor + QC (11) + QE (4)

營業內容 Business Fields

可提供的電鍍方式及電鍍種類 Variety of Plating Processes & Types

☆ 電鍍方式 Plating Processes

- ☼ 刷鍍 Brush plating、浸鍍 Dip plating、選鍍 Select plating、點鍍 Spot plating、貼鍍 Tape plating、錫重熔 Reflow Tin

☆ 電鍍種類 Plating Types

- ☼ 金 Gold、銀 Silver、鎳 Nickel、亮錫 Brighten Tin、霧錫 Mat Tin、銅 (打底 Copper underlay)

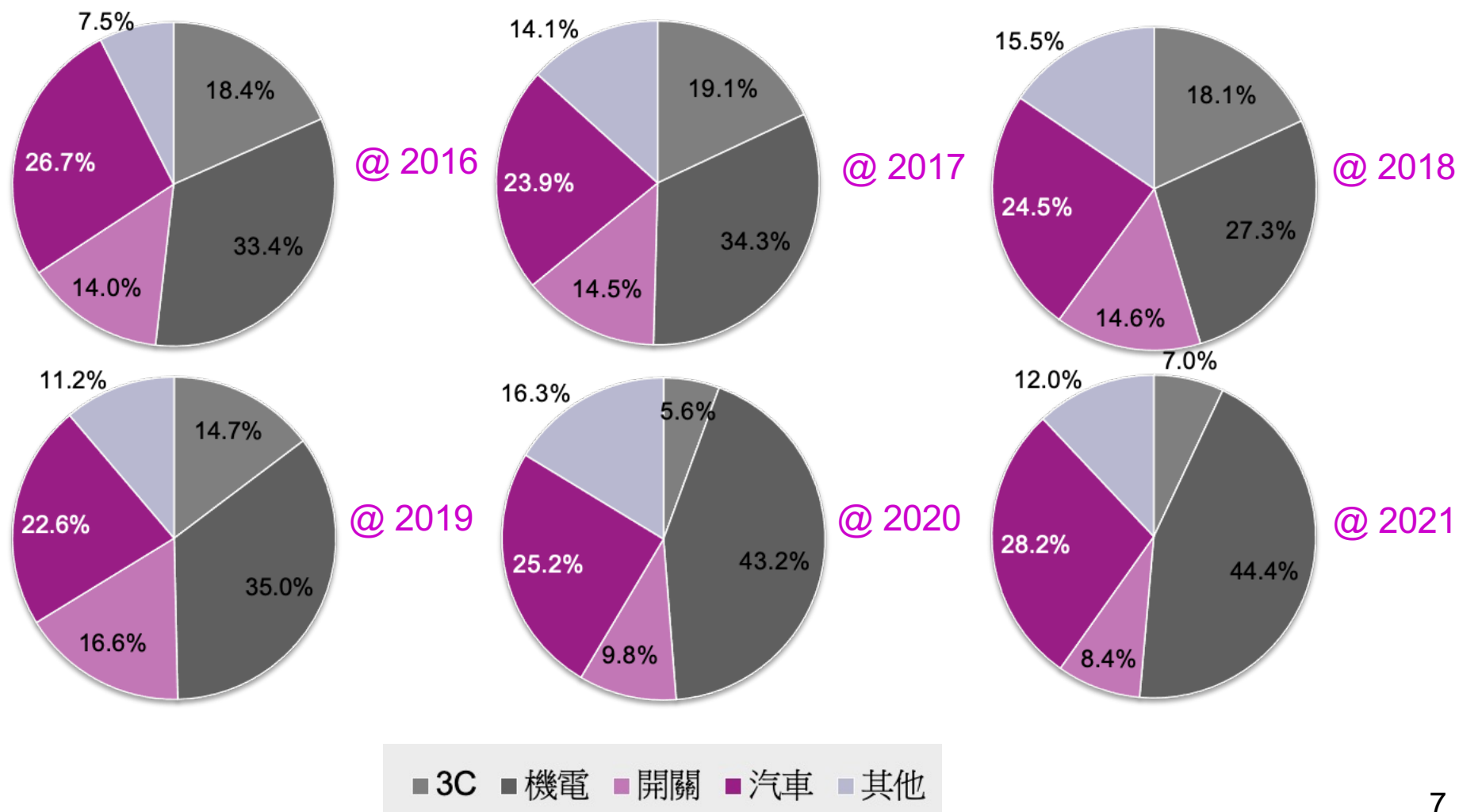
☆ 素材種類 Material Substrates

- ☼ 磷銅 Phosphorus copper、黃銅 Brass、不鏽鋼 Stainless、鐵材 Iron Material、洋白銅 Copper-nickel alloy、鈹銅 Beryllium copper、鈦銅 Titanium copper、鎳板 Nickel material

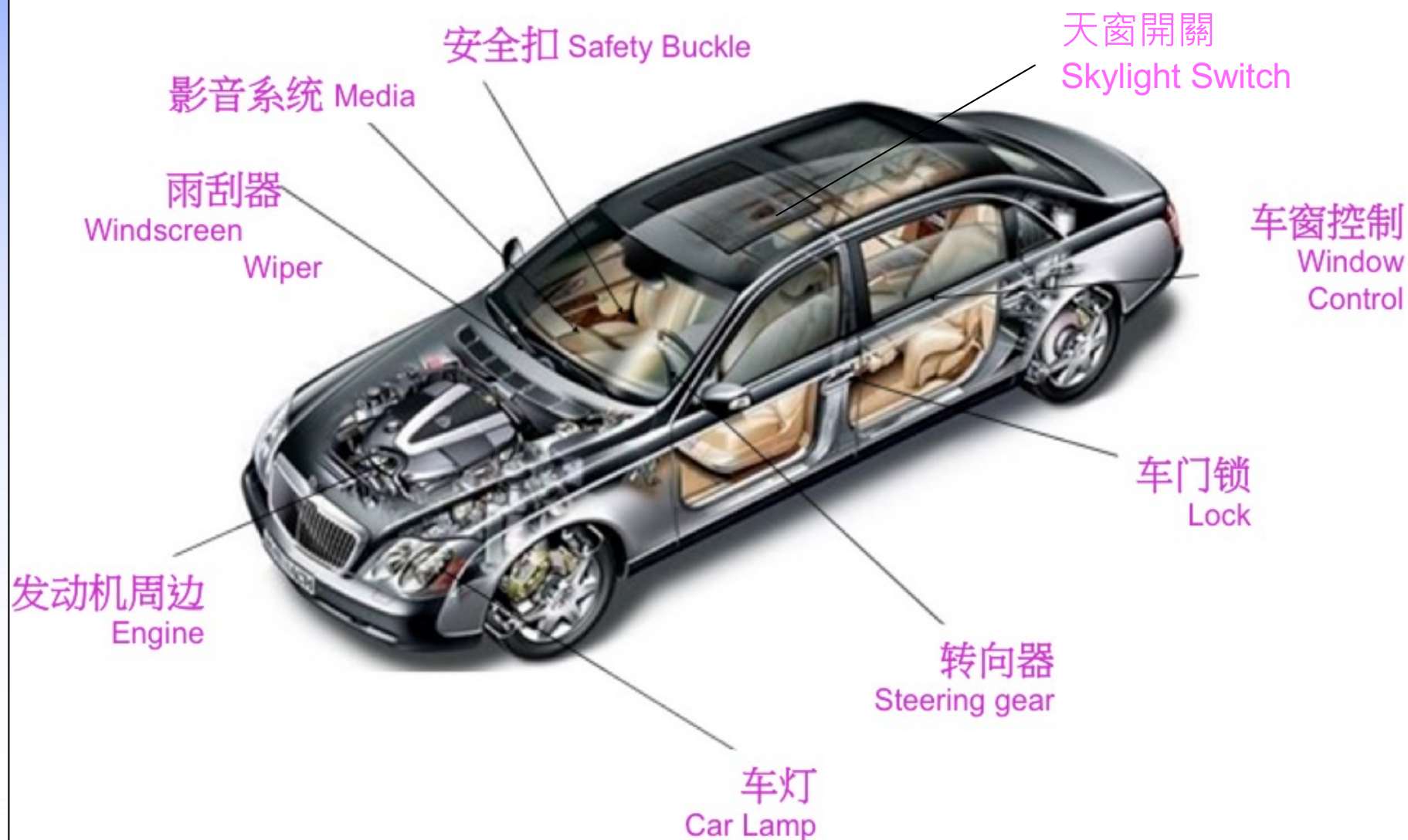
☆ 素材規格 Material specifications

- ☼ 厚度 Thickness : $0.05\text{mm} \leq T \leq 1.2\text{mm}$
- ☼ 寬度 Width : $5\text{mm} \leq W \leq 180\text{mm}$

營業內容 Business Fields

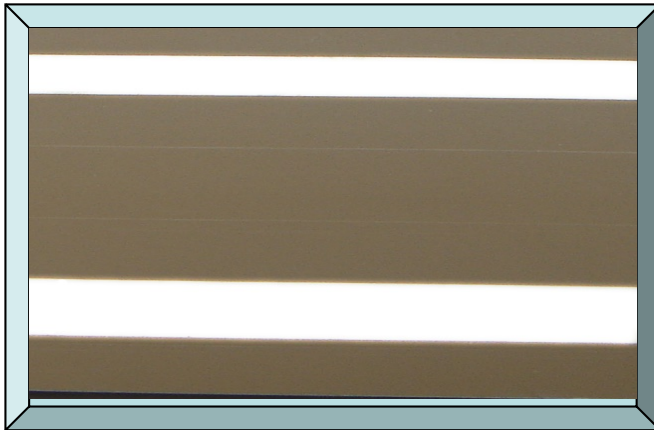


營業內容 Business Fields

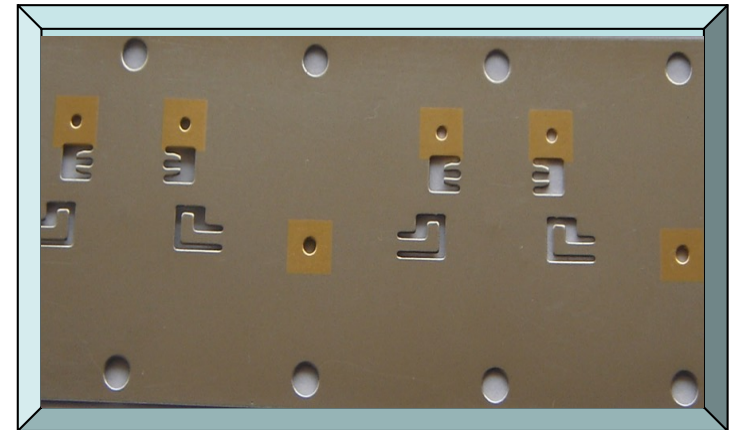


產品介紹 Product Samples

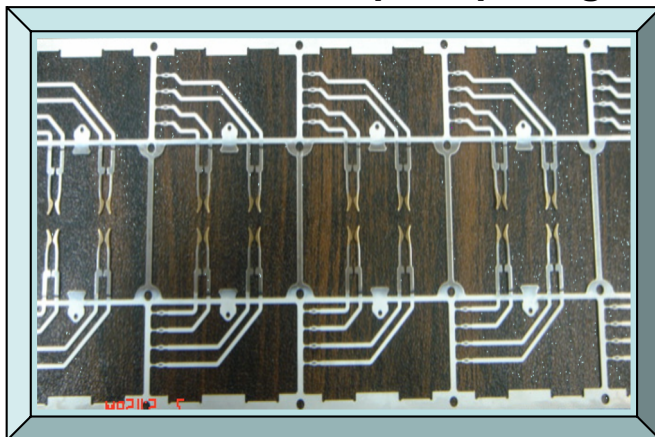
貼鍍錫 Tape plating with Tin



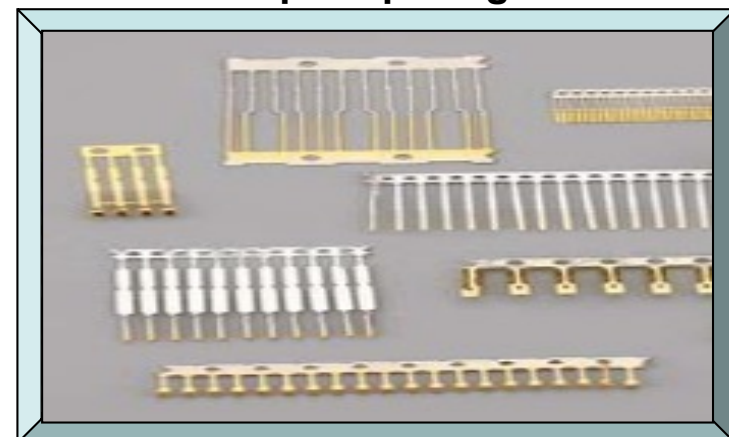
點鍍金 Spot plating with Gold



點鍍金，浸鍍錫 Spot plating with Gold and Dip Tin plating

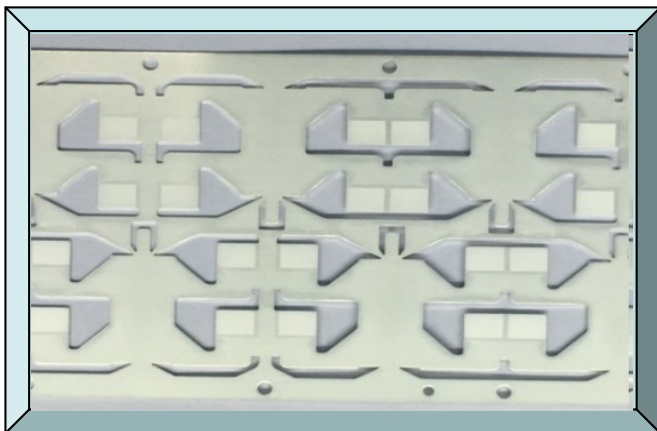


金錫端子 Plating with Gold and Dip Tin plating

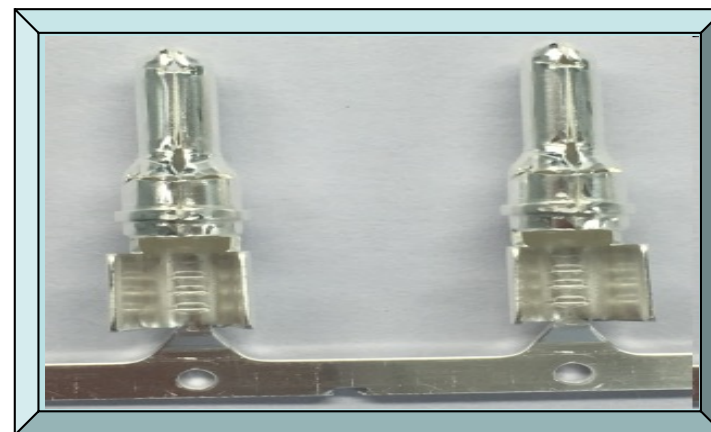


產品介紹 Product Samples

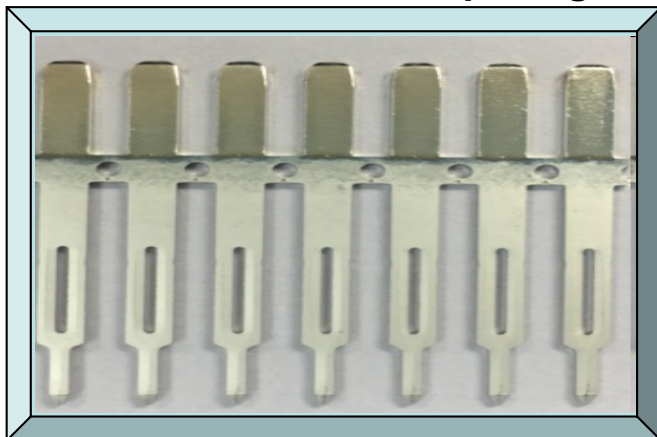
點鍍銀 Spot plating with Silver



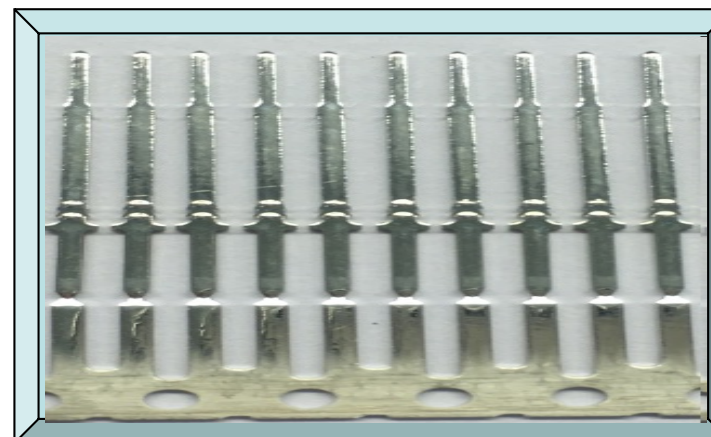
浸鍍銀 Dip Silver plating



局部選鍍銀、錫
Selected Silver、Tin plating



回流錫
Reflow Tin



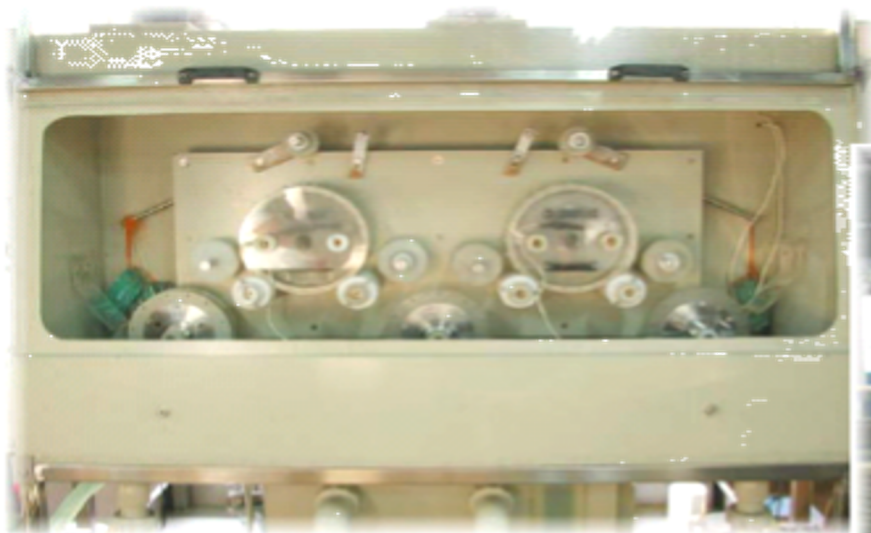
生產設備 Production Equipment



產能 Monthly Capacity (24 hours / 2 teams)

- 板材類 Strip material plating: Est. 150 tons
- 連續端子類 Connectors (terminal): Est. 1500 KK

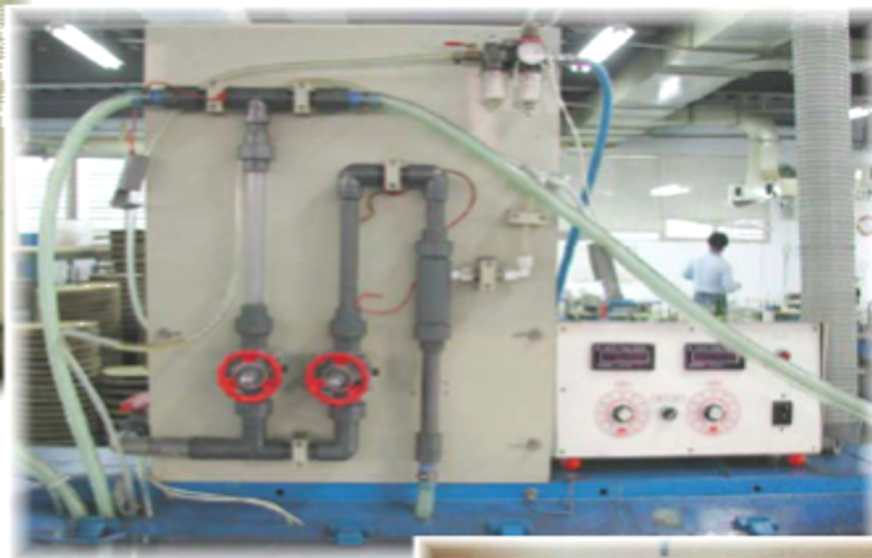
生產設備 Production Equipment



點鍍 Spot Plating



貼鍍 Tape Plating



刷鍍 Gold Brush



- ☀ 自動連續電鍍線
Reel to Reel continuous plating line: 18 Lines
- ☀ 貼膜機
Mask taping machine

生產設備 Production Equipment

錫重熔 Reflow Tin

- 減緩介面合金層(IMC)生成
Slower intermetallic formation
- 減少錫須結晶形成，符合RoHS
Prevents whisker formation (RoHS)
- 致密、無孔隙，均勻分布 Uniform distribution
- 減少表面氧化 Reduced surface oxidation
- 改善可焊性 Improved solderability
- 提升電子元件插拔力
Improved insertion force
- 衝壓成型性優異
Improved formability during stamping
- 延長保質期
Extended shelf life
- 可選擇區間 Selectable



規格 Spec.

端子
Terminal

底材厚度
Substrate
thickness

0.1~0.8
mm

底材寬度
Substrate
width

2~45
mm

錫層膜厚
Tin film
thickness

0.01~2
μm

技術創新與突破 Technology Development



2016-17年開發Reflow Tin工藝
Reflow Tin plating technology

2011-12年開發點鍍銀工藝
Spot Silver plating technology

2006-07年開發全自動控制系統
Automatic control system implantation

2005年開發貼鍍新工藝
Spot plating technology

2002年開發連續鍍銀製程
Reel to Reel Silver Plating

綠色節能 Green Earth Policy

廢水排放最高標準管控 Waste water control base on ISO 14001:2015



檢測設備 Lab Tests & Inspection Equipment

檢測 Test methods

- ☼ 鹽霧實驗 Salt spray test
- ☼ 蒸汽老化實驗 Steam aging test
- ☼ 高溫烘烤實驗 Baking test
- ☼ 硫化實驗 Vulcanization test
- ☼ 硝酸實驗 Nitric acid test

設備 Inspection Equipment

- ☼ 鍍液分析 Plating bath analysis equipment
- ☼ **荧光X- RAY** 射線測膜厚儀 **X-Ray coating thickness measurement: 3台**
- ☼ 蒸汽老化實驗機 Steam aging test machine
- ☼ **AA**原子吸收光譜儀 **AA Atomic absorption spectrometer: 2台**
- ☼ 烘烤實驗機 Baking test machine
- ☼ 鹽水噴霧實驗機 Salt spray test machine
- ☼ **40X**顯微鏡 40X Microscope (Nikon & Olympus DZ-160)
- ☼ **UV** 分光光度計 **UV-visible spectrophotometer**
- ☼ 焊錫 Soldering test
- ☼ 二次元測量儀 **Two dimensional measuring instrument**

檢測設備 Lab Tests & Inspection Equipment

1. 原子吸收光譜儀

AA Atomic absorption spectrometer



2. 有機添加劑分析

UV-visible spectrophotometer



3. 鍍液分析設備

Plating bath analysis equipment



檢測設備 Lab Tests & Inspection Equipment

4. 40X 顯微鏡 40X Microscope (Nikon & Olympus DZ-160)



5. 鹽水噴霧機 Salt spray test machine



6. 蒸汽老化機 Steam aging test machine



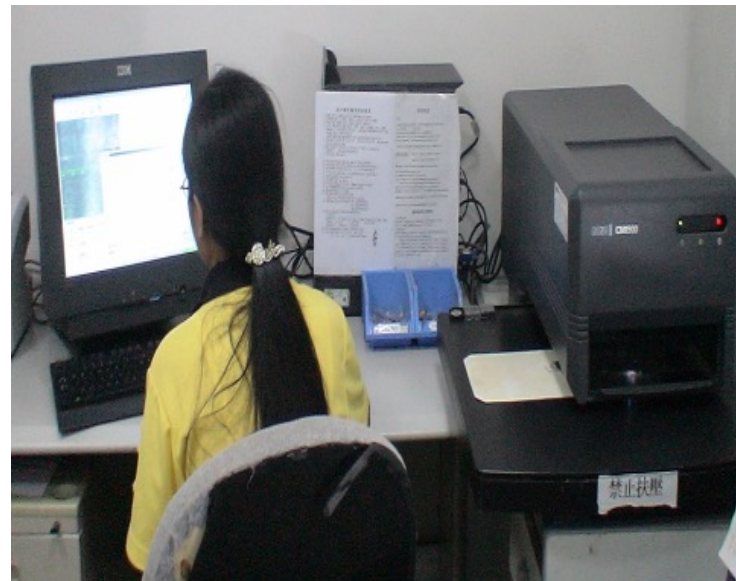
檢測設備 Lab Tests & Inspection Equipment



7. 光澤度檢測儀
Glossiness tester



8. 二次元測量儀
Two dimensional measuring instrument



9. 膜厚測試儀
X-Ray coating thickness measurement

品質管理及目標 Quality Control & Target

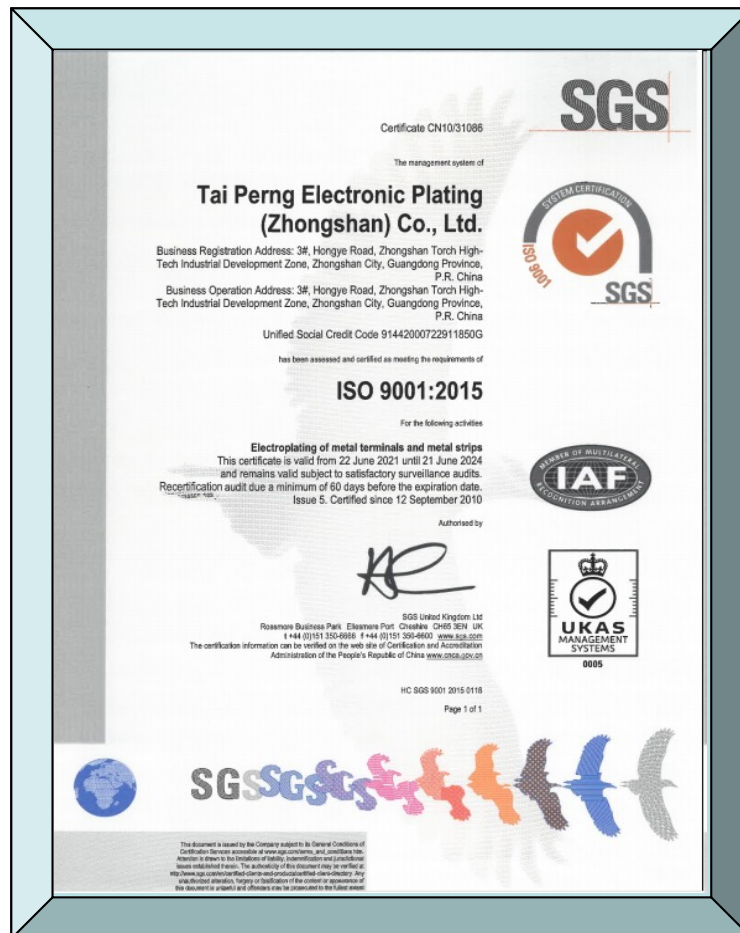
ISO 管理系統導入實踐 ISO Management Implement



認證文件 Quality Certification

☆ ISO 9001 in 2018

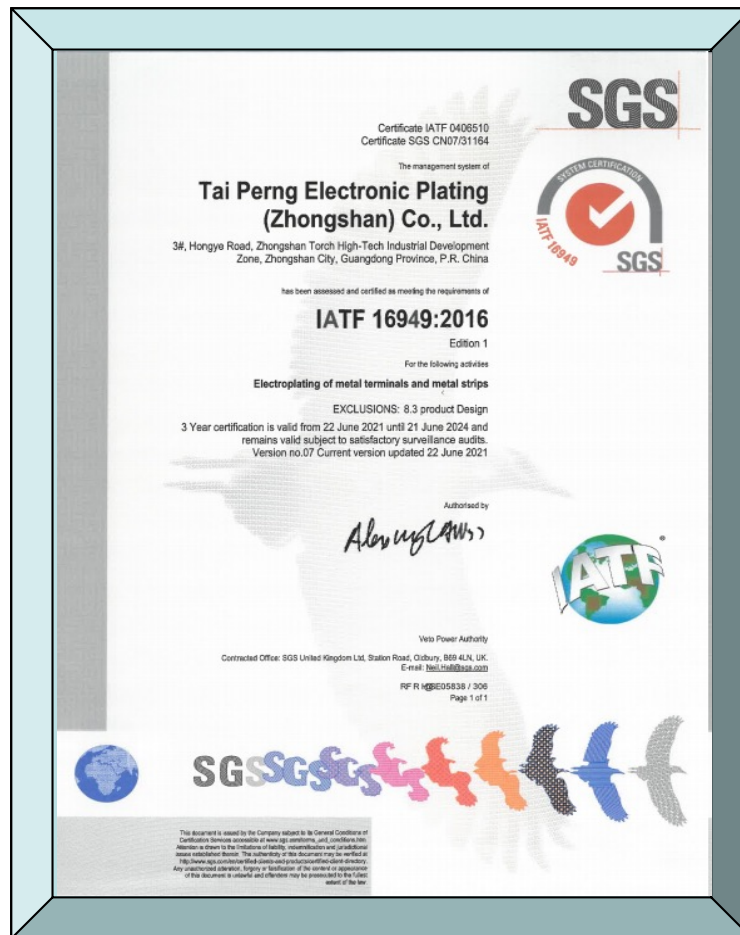
☆ ISO 14001 in 2017



認證文件 Quality Certification

☆ IATF 16949 in 2018

☆ Omron Certificated in 2018



認證文件 Quality Certification

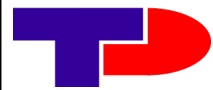
☆ 政府認證領先環保指標 Leading certificated by Government for Environment



合作夥伴 Our Customers



● 汽車端子的客戶 Automobile terminal application customers



Tai Perng

the value creator for customers