頂吉興科技股份有限公司

頂吉興成立於2005年，主要提供各類螺絲、螺帽表面處理服務，如銅錫合金電鍍、銅錳合金電鍍、鍍銅合金電鍍，鹼性無氰電鍍、機械鍍錫、高耐蝕不銹鋼電解磨光處理...等等。其位於岡山本洲環保科技園區內的合金電鍍廠於2008年11月正式營運，佔地2,500坪。

頂吉興擁有相當於德國標準的優質設備，大部分廠內的設備也進口自歐洲。除了自歐洲引進全國第一台鈍化液循環再生系統之外，與一般傳統工廠不同的是，頂吉興團隊以具有專業技術背景的人才掌控品質。這台鈍化液循環再生系統不只避免外來物質污染鈍化液，也精準的控制鈍化液混合的品質。除此之外，頂吉興在每個滾筒下方都配有一台整流器，與一般電鍍廠兩三個滾輪配置一合整流器相比之下，成本提高許多。

投注大筆資金成立合金電鍍廠，頂吉興對服務深具信心，全自動化採用電腦控制的電鍍線、鈍化處理線、封孔線、去氰化烤爐、鈍化液循環再生系統；以及實驗室的鹽霧試驗機、UV光譜儀、AA原子吸收光譜分析儀、X-rays膜厚分析儀、酸雨測試、小型溼法實驗機、哈氏槽試驗、自動滴定檢測分析儀及化學藥品分析，除此之外透過我司最先進的光學篩選機可精確檢測篩選，所有精密儀器皆由專業人才掌控整個作業流程。

頂吉興目前已是台灣唯一產能最大且設備自動化的合金電鍍廠，主要的服務對象為專事生產航太、汽車扣件與小五金等客戶。

未來頂吉興的產線與實驗室將會穩定，持續地擴大；主要針對舊有的產品做改善以及研發新產品。表面處理不只是材料與科技的結合更是使產品有高附加價值非常重要的技術；在頂吉興的帶領下，台灣的表面處理工業將有不同的價值與嶄新的面貌。
MODERN ALLOY PLATING CO., LTD.

Established in 2005, Modern Alloy Plating Co., Ltd. mainly provides surface treatment such as Electrocoating, Zinc-Nickel Alloy Plating, Zinc-Iron Alloy Plating, Tin-Zinc Alloy Plating, Non-Cyanide Zinc Alkaline Plating, Mechanical Zinc Galvanizing, and Electrolysis Polishing for High-Corrosion Resistance Stainless Steel and other applications.

Based on the Environmental Science & Technology Park, Benzhou, Gangshan Township, this alloy plating factory was constructed in November 2006, having the area of 8,625 square meters.

The entire design of the factory is in line with the German standard, and most of the equipments are imported from Europe. It not only introduced the first ion exchanger (an automatic recycling and quality control system for passivation solutions) in Taiwan, but it also differs from traditional factories in that it controls the quality with its professional staff members. The ion exchanger not only avoids contaminations with foreign substances, but also controls the quality (passivation solution compound) precisely. In addition, each treatment bath is equipped with own rectifier; therefore it costs much more than ordinary facilities provided with only one rectifier for every three bathes.

With so much investment made in this alloy plating factory, Modern Alloy Plating has sufficient confidence in services for the fastener industry in Taiwan. Our processing facility comprise plating lines, passivation lines, sealing lines, temper ovens for hydrogen relief, and passivation solution recycling systems (all full automatic and computer-controlled). Our laboratory is equipped and control quality with Salt Spray Testers, UV Spectrophotometer, Atom Absorption Spectrometer, X-Ray Plating Thickness Tester, Mini barrel plating machines, Hull Cell Tester, Potentiometric Titrations, Kesternich Test, and a internal chemical analysis. Additional we can precisely check all dimensions of your parts with our newest Automatic Optic Sorting Machine. All these accurate equipments are controlled by specialized talents.

Modern Alloy Plating has currently become one of the biggest automatic alloy-plating factories in Taiwan, and all of its major customers are the ones producing automobile fasteners, construction fasteners and hardware.

Furthermore our factory and laboratory will steadily extended, our processes improved and new products and technologies developed and introduced. Surface treatment is, besides material and technology, very important for highly valued products. So Taiwan's surface treatment industry has and will further increase in added value under guide role of Modern Alloy Plating.
Electrocoating
- Free of recess fill
- No thread build up
- Uniformity thickness
- RoHS compliant
- ACQ wood compatible
- Top optic colors & appearance

※ 2009年4～5月間產量，月產能1500噸（亞洲最大產能）
※ 250～4000小時鹽霧測試
※ 90～120 CYCLE酸雨測試，無紅銹（最高品質）

Cr3 Tin Zinc Alloy Plating
- 75% ± 10% Tin & 25% ± 10% Zinc
- Provides excellent solderability, ductility and conductivity.
- First & exclusive manufacture with Cr3 Tin Zinc Alloy Plating
三價銅銻鋅合金
《透明銅化/黑色銅化/五彩銅化》
- 高銅含量12-15%，具極優越腐蝕性
  (500-1200小時)
- 膜層具優秀硬度及耐磨性
- 耐溫性佳，適合高溫環境之應用
- 烤漆或塗裝等表面處裡的最佳底層
- 特別適合汽車、航太工業使用
- 不含氰化物的鹼性電鍍液，理想取代鍍銅層

Cr3 Zinc Nickel
Alloy Plating
- Excellent corrosion protection, 500-1200 hours
  in a salt spray test
- 12-15% Ni content in the coating
- Excellent adhesion and corrosion protection at
  elevated temperature
- Increased deposit hardness and extended wear
  resistance
- Developed replacement for the toxic metal,
  Cadmium

機械鍍鋅
- C2 C3 C4 + 高耐蝕烤漆
- 膜層膜厚8 μm~80 μm
- 膜厚均勻良好、高密度、高品質及高耐蝕
- 滿足高防鎖要求標準
- 擁有全亞洲最高品質的技術
- 採用進口高純度高級鋅粉、錫粉及高級化學藥品
- 製造品質優良

Mechanical Zinc Plating
- C2 C3 C4 Classification
- Plating thickness 8 μm~80 μm
- Uniform thickness, high density
- Meet the standards of high anti-corrosion.
- Having the highest quality technique.
- We use imported high purity Zinc and Tin.
- Manufacturing quality is excellent.
三價鉻鋅鐵合金
《黑色鈍化/五彩鈍化/藍白鈍化》
- 含鉻量0.3%~0.8%，具非常優秀的耐蝕性（500小時無白銹，1000~1500小時無紅銹）
- 鍍層平滑均勻且光澤度佳
- 具裝飾及防蝕效果
- 特別適合汽車工業使用
- 鋅鐵黑色鈍化，品質與技術領先全台，為業界第一!!

Cr3 Zinc Iron Alloy Plating
W / Black Passivation
W / Yellow Passivation
W / Blue Passivation

- Economic applications
- The 0.3~0.8% Fe content in the coating
- Excellent coating thickness distribution, outstanding ductility and weldability.

廠房設備 Production Facility

*全自动化合金電鍍線
Automatic Plating Line

*全自动鈍化線
Automatic Passivation Line

*全自动化封孔機
Automatic Sealing Line

*去氣體烘烤爐
Hydrogen DeEmbrittlement

*自動光學分檢機
Automatic Optical Sorting Machine

*Passivation Recycling System
三級鉻酸性無氰鍍鋅
（五彩銅化/黑色銅化/藍白銅化）

五彩銅化
- 72～120 小時無白銹
- 150～500小時無白銹（加封孔）

黑色銅化
- 48～72小時無白銹
- 96～168小時無白銹（加封孔）

藍白銅化
- 96～500小時無白銹（加封孔）

Cr3 Alkaline Non-Cyanide Zinc Plating

W / Yellow Passivation
- 72～120 hours no white rust
- 150～500 hours no white rust (with sealer)

W / Black Passivation
- 48～72 hours no white rust
- 96～168 hours no white rust (with sealer)

W / Blue Passivation
- 96～500 hours no white rust (with sealer)

品質與實驗室 Quality Control & Laboratory

自動滴定檢測分析儀
Potentiometric Titration

X-ray膜厚分析儀
X-Ray Plating Thickness Tester

AA原子吸收光譜分析儀
Atomic Absorption Spectrometer

UV光譜儀
UV Spectrophotometer

小型滾鍍實驗機
Mine Barrel Plating Machine

鹽水噴霧機
Salt Spray Tester
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<th>Standard 2</th>
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These represents only a selection of all standards we fulfill.