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***Excellent Alloy  
Solutions & Innovation***

**TOP** Precision Screw Experts  
**SCREW** 

## 公司簡介

### Company Profile

我們的團隊負責螺桿與套筒的研究、開發和製造，並提供諮詢服務。

We started with a team of professional managers and a group of experienced engineers with 25 years of experience.

鼎烽精密工業股份有限公司為橡、塑膠機械料管、螺桿品牌製造商，創立於2014年，由一群高階專業經理人和經驗豐富的工程師所組成的專業團隊，擁有25年的專業經驗，能客製化協助客戶研發設計螺桿、料管及提供客戶即時性的生產服務。

鼎烽專業團隊生產品項為：塑膠射出成型機、橡膠射出機、押出成型機、吹袋、吹瓶機專用之螺桿、料管及其他相關配件。

能協助客戶因應市面上日新月異的橡、塑膠機，給予不同原料及素材特性最專業的解決方案，並針對客製化機台，設計專屬螺桿、料管，確保機械運作發揮最佳效能，具體提升生產製程及產品穩定度，達到良率極大化。

公司經營理念：誠信、專業、品質、服務

Top Screw Precision Industry Co. Ltd. was established in 2014. We started with a team of professional managers and a group of experienced engineers with 25 years of experience. Our team does the research, development and manufacture of screws and barrels, also provide consultation service. The professional products of Top Screw team are: injection molding machine, rubber injection machine, extruders and extrusion lines, screw for blow molding machines, material pipe and other related accessories. To help customers respond to the ever-changing market and help them customize design for its best performance of the screws and barrels. So the customers can have the most efficiency product and the best product quality.

Top Screw Precision Industry Co. Ltd. is a fast moving company with slow thought ideals built of strong metal-just like our products. Our employees know this is a place to build a career. Our clients know Top Screw Precision Industry is a company to put faith and stock in.

Business Concept : **Integrity-Professional-Sustainable development**





## 公司經營理念與服務優勢

## Company Business Philosophy and Service Advantage



### 誠信 / Integration

信守承諾，準確交期  
Commitment to Promises,  
Accurate and on Time Delivery.



### 專業 / Professionalism

專業設計，解決問題  
Professional Design, Problem Solving.



### 服務 / Service

客戶至上，服務及時  
Customer First, on Time Service.



### 品質 / Quality Assurance

鋼材製程，品質第一  
Quality Comes First on Steel Processing.

## 檢驗及加工設備

## Inspection and Processing Equipment

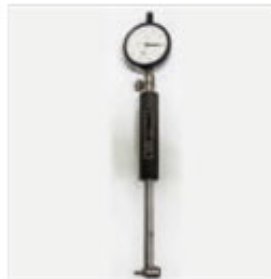
產品經由相關檢測設備的使用來追蹤並管控，對客戶所需之產品品質做最嚴格的把關。

The products are tracked and controlled through the use of related testing equipment, and the most stringent requirements are placed on the quality of products required by customers.

### 檢驗設備 / Quality Control & Inspection Equipment

1. 表面粗度測定儀
2. 洛氏硬度計
3. 三點式量表
4. 缸徑規
5. 外徑分厘卡
6. 游標卡尺
7. 膜厚計

1. Surface indicator
2. Rockwell hardness
3. Three point holtest
4. Bore gages
5. Micrometer
6. Caliper
7. Thickness gauge



### 加工設備 / Processing Equipment

1. CNC車床
2. CNC銑床
3. 懸臂鑽床
4. 深孔機
5. 高速車床
6. 搪磨機
7. 精密傳統銑床
8. 螺桿銑牙機
9. 螺桿拋光機
10. CNC螺桿銑牙機

1. CNC turning lathe
2. CNC milling machine
3. Radial drilling machine
4. B.T.A
5. Turning high speed lathe
6. Honing machine
7. Precision milling machine
8. Screw milling machine
9. Screw polishing machines
10. CNC screw milling machine





## 特殊產品挑戰極限

### Special Products Challenge The Limits

#### 雙合金押出料管組 / Bi-Metallic Barrel and Screw Series

- 挑戰極限  
最小的鎳基雙合金押出料管組
- 螺桿材質：高鎳合金鋼
- 孔徑：Ø12mm
- 長度：300mm
- 使用塑料：鐵佛龍
- Challenge the Limits, Smallest Ni Base Bi-Metallic Extrusion Barrel and Screw Series
- Screw Processing Material : Ni Base
- Aperture : Ø12mm
- Length : 300mm
- Plastic Raw Materials Adaptive : Teflon



#### 特殊加工押出障壁螺桿 / Special Process Extrusion Barrier Screw

- 最多的壁障壁牙
- 外徑：Ø16mm
- 障壁：12牙
- The Most Barrel Teeth
- Pore Size : Ø16mm
- Barrier : 12 teeth



## 射出成型系列

### Injection Molding Series

料管、螺桿為射出成型機之核心組件，為因應不同原料的使用，鼎烽精密提供各級鋼材之料管。  
The feed tube screw is the core component of the injection molding machine. In response to the use of different raw materials, Top Screw Precision provides material tubes for all levels of steel.

#### 料管加工範圍 / Barrel Processing Dimension

一般氮化料管 Nitrided Barrel	內徑 $\varnothing$ 12~ $\varnothing$ 200mm，長度: 6000mm
雙合金料管 Bi-Metallic Barrel	內徑 $\varnothing$ 12~ $\varnothing$ 150mm，長度: 4000mm

#### 料管加工鋼材 / Barrel Processing Material

等級 / Grade	材質 / Materials	應用 / Application
氮化料管 Nitrided Barrel	SACM645 ACM2	樹脂混合玻璃纖維<5% Resin with Glass-fiber<5%
C級雙合金 Bi-Metallic Barrel	碳化鎢>15% HRC 50-55	樹脂混合玻璃纖維10-20% Resin with Glass-fiber 10-20%
B級雙合金 Bi-Metallic Barrel	碳化鎢>25% HRC 55-60	樹脂混合玻璃纖維20-30% Resin with Glass-fiber 20-30%
A級雙合金 Bi-Metallic Barrel	碳化鎢>40% HRC 60-65	樹脂混合玻璃纖維30-50% Resin with Glass-fiber 30-50%



## 螺桿加工範圍 / Screw Processing Dimension

內徑 $\varnothing 12 \sim \varnothing 200\text{mm}$ ，長度: 6000mm

## 螺桿加工鋼材 / Screw Processing Material

SCM440(1.7225 / 4140)	SACM645(1.8509 / 7140)	SKD-61(1.2344 / H13)
SKD-11(1.2379 / D2)	ACM2(1.8550 / 38CrAlNi7)	粉末合金鋼、粉末高速鋼

## 螺桿加工方法 / Screw Processing Methods

電鍍 Electroplating	真空 Vacuum Hardening	氮化 Nitrided
氮化鋁鈦 TiAlN PVD Coating	噴焊 / 溶射 PTA Welding Screw / HVOF Spray Coating Screw	

因客戶不同的原料使用，鼎煒螺桿的設計有更快的螺桿回料時間，以及更好的溫度控制。

Due to the different raw materials used by customers, the design of our screw has faster screw feed back time and better temperature control.



離心鑄造合金料管  
Centrifugal Casting Furnace



高速高壓熔射合金螺桿  
HVOF Spray Coating Screw



合金噴焊螺桿  
PTA Welding Screw



## 橡膠機系列

### Rubber Molding Series

針對橡膠原料具有彈性特色，鼎烽精密在螺桿、料管的材質選用、設計、加工，都針對橡膠原料不同之特性來做調整、調校，有效提升改善客戶橡膠射出成品之品質。

To the elastic properties of rubber raw materials, we have selected, designed, and processed the material for the screw feed pipe, and has adjusted and regulated the efficiency according to the relevant characteristics, effectively improving the quality of the customer's rubber injection product.

#### 料管加工範圍 / Barrel Processing Dimension

一般氮化料管  
Nitrided Barrel

內徑 $\varnothing$ 25~ $\varnothing$ 200mm，長度: 4000mm





## 螺桿加工範圍 / Screw Processing Dimension

外徑Ø25mm~Ø200mm，長度: 4000mm

## 螺桿加工鋼材 / Screw Processing Material

SCM440(1.7225 / 4140)	SACM645(1.8509 / 7140)	SKD-61(1.2344 / H13)
SKD-11(1.2379 / D2)	ACM2(1.8550 / 38CrAlNi7)	粉末合金鋼、粉末高速鋼

## 螺桿加工方法 / Screw Processing Methods

氮化鋁鈦 TiAlN	氮化 Nitrided
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## 最大橡膠擠出機螺桿料管系列

## The Largest Rubber Extruder Screw and Barrel Series

專業生產橡膠熱喂料、冷喂料及銷釘冷喂料擠出機螺桿和料管，生產最大直徑的橡膠機螺桿。公司可設計製造變距、變深，以及各種類型的非標螺桿、料管。此外還可以依據客戶需求對螺桿工作表面進行噴塗硬質合金和鍍鉻等修復技術，以延長螺桿使用壽命。

Is the largest diameter of the rubber screw, spocialed in producing rubber hot and cold feed and pin cold feed extruder screw. The company can design and manufacture of pitch, variable depth, and non-standard screw, various types of machine barrel with our experience.

In addition, in order to extend the service life of the screw, we can repair the screw working surface coating hard alloy and chrome according to the customer demand.



雙錐擠出壓延螺桿系列 Double Cone Extruding Roll Screw Series



成型機主軸系列 Tire Shaper Spindle Series





銷釘冷喂料螺桿系列  
Pin-Barred Cold Feed Screw Series



排氣冷喂料擠出料管系列  
Degassing Cold Feed Extruder Series



Ø250入料座  
Ø250 Feeding



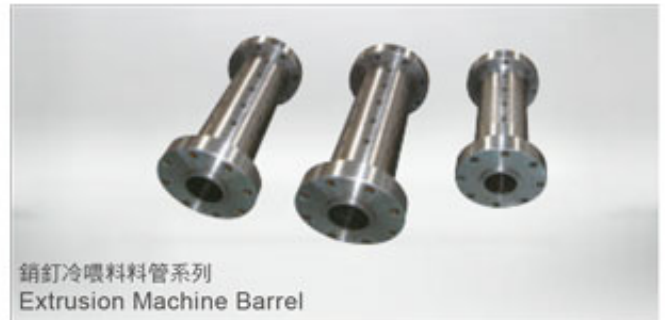
平雙螺桿系列  
Flat Twin Screw Series



銷釘冷喂料襯套  
Pin-Barred Cold Feed Buching



雙錐擠橡機螺桿系列  
Double Cone Extruding Machine Screw Series



銷釘冷喂料料管系列  
Extrusion Machine Barrel



錐型單螺桿系列  
Conical Single Screw Series



旁壓輥  
Side Drag Roll



冷喂料螺桿系列  
Cold Feed Screw Series



銷釘  
Pin-Barred

## 押出機系列

### Extrusion Molding Series

押出機使用之料管、螺桿，為因應不同原料的使用，以及提升熔化效果並改善客戶製程的穩定性，鼎烽精密提供客製化之料管、螺桿設計，如杜爾麥基式螺桿頭、障壁型螺桿等。

The extruder screw used in the extruder is designed to meet the needs of different raw materials, as well as to enhance the melting effect and improve the stability of the customer's production. We provides customized design, such as the Dulmage Mixer type screw head, barrier type screw and so on.

#### 料管加工範圍 / Barrel Processing Dimension

一般氮化料管 Nitrided Barrel	內徑 $\varnothing$ 12~ $\varnothing$ 200mm，長度: 6000mm
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#### 螺桿 / Screw

一般氮化螺桿 Nitrided Screw	外徑 $\varnothing$ 12~ $\varnothing$ 200mm，長度: 6000mm
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鼎烽精密設計之障壁型螺桿設計，在主螺牙間加一副牙，將固體與融膠分開，可避免未熔顆粒懸浮，有較好的熔化效果，製程穩定性及抗壓性高，有利於塑化。

The advantage of our design, as follows

- Increases melting efficiency due to elimination of premature solids bed break-up.
- Increases melting rates and throughput.
- Improves melt temperature control due to lower, post melt shear stresses.







押出機料管  
Extrusion Machine Barrel



押出機料管  
Extrusion Machine Barrel



薩克斯頓式螺桿混練頭  
Saxton Mixer



馬多克螺旋式螺桿混練頭  
Spiral Maddock Mixer



發泡混練頭  
Foaming Mixer Section

## 零配件

### Front - End Components

設計客製化的螺桿、料管零配件有助於提升客戶製程的效率及成品的質量、良率。鼎烽精密能協助客戶設計專屬螺桿、料管零配件。

Designing customized spiral tube parts helps to increase the efficiency of finished products and the quality of finished products. Top Screw Precision designs individual screw material parts for customers to meet the various needs of various materials and customers.

#### 客製化零組件 / Customization Parts

- 客製化設計
- 前端組件：
  1. 射嘴(長、短、平)
  2. 射座
  3. 尖頭組(尖頭、過膠圈、過膠介子)
- Customize Design
- ETC. Front End Components :
  1. Nozzle (Long, Short, Flat)
  2. Barrel Head / End Cap
  3. Screw Head Set (Screw Head, Check Ring, Seat Ring)







鍍膜圈式尖頭組 Normal Screw Head Set



鍍膜叉式尖頭組 Clutch Screw Head Set

品名 / Product	材質 / Materials	加工 / Processing
過膠頭 Screw Head / Distributer	不鏽鋼系 SACM645(1.8509 / 7140) SKD-61(1.2344 / H13)	電鍍 Electroplating 真空 Vacuum Hardening 氮化 Nitrided 鋁鈦 TiAlN Coating
過膠圈 Check Ring / Coller	粉末合金鋼類 SKD-61(1.2344 / H13) SKD-11	電鍍 Electroplating 真空 Vacuum Hardening 氮化 Nitrided 鋁鈦 TiAlN Coating
過膠介子 Seat Ring / Washer	粉末合金鋼類 SKD-61(1.2344 / H13) SKD-11	電鍍 Electroplating 真空 Vacuum Hardening 氮化 Nitrided 鋁鈦 TiAlN Coating
射嘴 Nozzle	SACM645(1.8509 / 7140) SKD-61(1.2344 / H13)	電鍍 Electroplating 真空 Vacuum Hardening 氮化 Nitrided
射座 Barrel Head / End Cap	SACM645(1.8509 / 7140) SKD-61(1.2344 / H13)	電鍍 Electroplating 真空 Vacuum Hardening 氮化 Nitrided



鼎烽精密工業股份有限公司  
Top Screw Precision  
Industry Co., Ltd.

709 台南市安南區安和路三段190巷59號  
No. 59, Ln. 190, Sec. 3, Anhe Rd., Annan Dist.,  
Tainan City 709, Taiwan

T +886-6-3560662 F +886-6-3560612

E [service@topscrew.tw](mailto:service@topscrew.tw)

[www.topscrew.tw](http://www.topscrew.tw)

印尼服務處

Service Center In Indonesia

PT.

Jih Sheng International

JL. Kenari Raya Ruko Delta Cikarang Square  
Blok A No. 27 Jaya Mukti Cikarang Pusat,  
Bekasi - Indonesia

T +6221-89914544 F +6221-89914543

E [service@topscrew.tw](mailto:service@topscrew.tw)

