

MANUFACTURER OF
HIGH PRECISION
SCREW AND BARREL

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精恒实业(香港)有限公司
JINGHENG INDUSTRY (H.K.) CO., LTD.

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DONGGUAN JINGHENG MACHINE CO., LTD.

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打造持久永恆的信譽



MANUFACTURER OF HIGH
PRECISION SCREW AND BARREL
高精端螺杆、料管供應商

東莞市精恒機械有限公司隸屬於香港精恒實業有限公司，是全球高精端螺杆、料筒制造商。自公司成立20多年來，一直致力于高品質螺杆的生產，產品以超耐用性及精致的加工工藝，穩固贏得國內市場，并遠銷印度尼西亞、馬來西亞、新加坡、日本、德國、比利時、香港、臺灣等20多個國家和地區。

精恒擁有專業的設計研發團隊，國際先進的加工設備，一流的技術隊伍，同國際知名鋼材廠商、大型熱處理廠商精密合作，嚴苛選材，嚴控熱處理加工工藝。

另外，我們根據客戶的不同需求，針對不同原料的物理特性、產品需求及加工工藝對產品進行分類設計，以便為客戶定制最專業、最大利潤化的方案。對公司內部而言，產品的分類設計，不僅有效的提高了公司ERP系統的運行效率，還優化了工廠的生產管理。

精恒本着“誠信為本、創新為魂、精益求精、持之以恒”的企業精神，以客戶的利益為出發點，為客戶提供優質的品質，更滿意的服務。

About Jingheng

企業簡介



Dongguan Jingheng Machine Co., Ltd. is subordinated to Jingheng Industry (H.K.) Co., Ltd., which is a global manufacturer of high precision screw and barrel. Since its establishment over more than two decades, has been committed to producing high-quality screw, product durability and ultra-fine processing technology, a solid win in the domestic market and exported to Indonesia, Malaysia, Singapore, Japan, Germany, Belgium, Hong Kong, Taiwan more than 20 countries and regions.

Jingheng owns a professional design and R&D team, advanced processing equipments, and first-class technical team. The company closely cooperates with the international famous steel manufacturers and large-scale thermal treatment manufacturers, to rigorously select the materials and control the thermal treatment and processing technology.

In addition, our company also classifies and designs the products based on different demands of customers, physical characteristics of different raw materials, product demand and processing technology, so as to customize the most professional solution with the maximum profit for customers. As to the internal company, the classification and design of products not only effectively improve the operation efficiency of the company ERP system, but also optimize the factory production and management.

With the corporate spirit of integrity—essential, innovation—soul, continual improvement and persistence, Jingheng provides the products with superior quality and satisfactory service to benefit the customers.



Enterprise Spirit

企業精神

FOR YOU TO ADD COLOR

為您增添色彩

Integrity-essential,
Innovation-soul,
Continual improvement,
Persistence
誠信為本 創新為魂
精益求精 持之以恒

Strive for constant improving quality
Establish the permanent prestige
力求精益求精的品質
打造持久永恆的信譽



Core Values

核心價值觀

“精恒”的含義不祇是局限于公司的名稱，更意味着我們以優質的品質和服務去贏得客戶的信任，打造良好的信譽才是企業持續發展的動力。自公司成立20多年來，我們一直嚴格管理產品質量標準，最大化滿足客人的要求，并聽取客人的建議不斷完善自身的產品和服務。正因如此，精恒才能以其卓越的品牌效應成為全球螺杆的供應商。

Jingheng is not only the company name, but also means our company gains the trust from customers with the superior quality and service, thus the good prestige can motivate the sustainable development of the company. Since its establishment over more than two decades, our company has strictly managed the product quality standard, satisfied the customer requirement to the maximum extent, and listened to the customer suggestion to continuously complete our product and service. Therefore, Jingheng can become the global screw supplier with the outstanding brand effect.

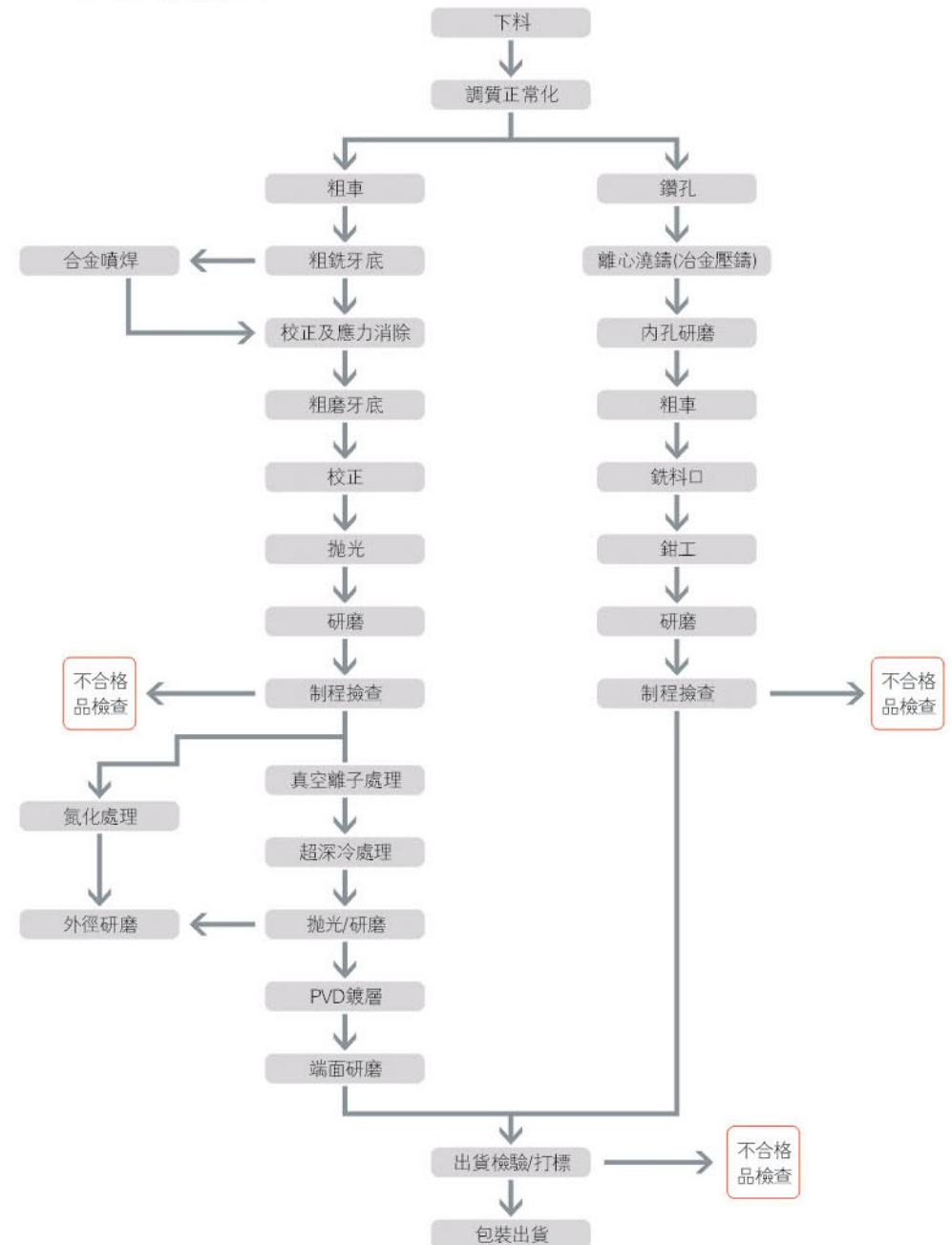
We keep improving in every each step from material selection to delivery of goods, and strive to provide the high-quality products for customers.

從選料到出貨的每一個環節，
我們都精益求精，
力求為客戶提供高品質的產品。



Production Process

生產流程





Quality Management

品質管理



品質是客戶的信任來源，更是公司持續發展的保證。為此，我們構築了質量系統工程，引進先進的檢測設備，成立專業的質檢部門，建立完善的質量保證體系。公司于2000年率先通過了ISO9000國際質量管理體系認證。

精恒極其注重對品質的管理，對品質的控制不僅僅針對自身的產品，從選料到出貨的每一個環節，我們都力求精工細作，品質標準更是在業界廣受好評。

Quality is not only the source of customer trust, but also the guarantee for the sustainable development of the company. For this purpose, we have constructed the quality system engineering, introduced the advanced test equipments, and established the professional quality inspection department and complete quality assurance system. In year 2000, the company took the lead in being certified by ISO 9000 international quality management system.

Jingheng extremely focuses on the quality management. We not only control the quality of product, but also strive for exquisite craft. Our quality standard is widely praised by the industry.

Production Equipment

生產設備



EPS4000

PTA Welding Series

牙頂熔射合金系列

Introduction 介紹

EPS4000系列是一種以高強度調質進口鋼作爲基材于螺杆牙頂表面露蓋一層厚爲1mm–2mm粉末調配合金，它擁有耐磨損和耐腐蝕性能。

EPS4000 series is made on the basis of high-strength import steel, and covered the bimetallic alloy with the thickness of 1–2mm on the surface of screw flight, with abrasion and corrosion resistance.

Application 應用

- PPA、PPS硬度
- ABS、PMMA防火
- LCP高溫
- PA、PC等加纖
- PP、PE等回收料
- 電木粉
- PPA, PPS hardness
- ABS, PMMA fire prevention
- LCP high temperature
- PA, PC and fiber materials
- PP, PE and other reclaimed materials
- Bakelite powder



Performance parameters 性能參數

系列 Series	類型 Type	硬度 Hardness	耐磨性 Wearable	耐腐性 Corrosion	韌性 Toughness	被切削性 Machinability	應用 Application
EPS4000	EPS4100	HRC56°–58°	6	5	7	8	適用加纖、一般通用塑料
	EPS4200	HRC56°–58°	7	5	7	8	
	EPS4300	HRC60°–62°	8	6	7	8	

我們保留隨着研發改變數據的權利，恕不另行通知。We reserve the right to change specifications without prior notice.

EPS5000

Full-hardened Steel Series

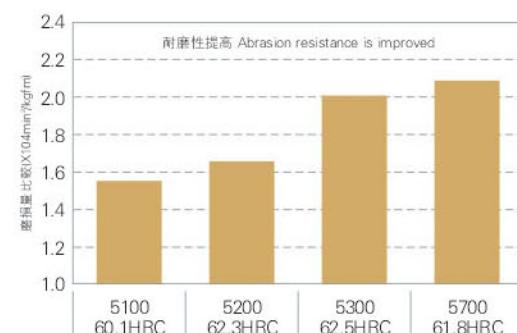
全硬鋼系列

Introduction 介紹

EPS5000系列材質選用德國、瑞典、日本大型知名鋼廠進口全硬鋼，全程經調質真空高溫淬火、回火、超深冷等工藝制作，耐磨損性優良，優越的熱穩定性適合PVD塗層，結合PVD塗層使耐腐性更優良。

EPS5000 series material is made of full-hardened steel imported from the large-scale famous steel factories in Germany, Sweden and Japan upon mixing, vacuum and high-temperature quenching, tempering and ultra cryogenic technologies, which has good abrasion resistance. With the excellent thermal stability, it is applied to PVD coating to better the corrosion resistance.

Abrasion test results 磨損試驗結果



Performance parameters 性能參數

系列 Series	類型 Type	硬度 Hardness	耐磨性 Wearable	耐腐性 Corrosion	韌性 Toughness	被切削性 Machinability	應用 Application
EPS5000	EPS5100	HRC58°–60°	7	6	7	6	配合PVD塗層適合PC、PMMA透明、白色、導光板，耐磨、耐腐性能優良。
	EPS5200	HRC58°–60°	7	6	7	6	
	EPS5300	HRC62°–65°	8	7	7	6	
	EPS5700	HRC62°–68°	9	7	6	6	

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EPS6000

Powder Alloy Steel Series
粉末合金鋼系列

Introduction 介紹

EPS6000 系列材質選用德國、瑞典、日本大型知名鋼廠進口粉末合金鋼，全程經調質、真空高溫淬火、回火、超深冷等工藝制作超耐磨損。

EPS6000 series material is made of powder alloy steel imported from the large-scale famous steel factories in Germany, Sweden and Japan upon mixing, vacuum and high-temperature quenching, tempering and ultra cryogenic technologies, which is durable and anti-abrasion.

Tempering process 回火流程



Performance parameters 性能參數

系列 Series	類型 Type	硬度 Hardness	耐磨性 Wearable	耐腐性 Corrosion	韌性 Toughness	被切削性 Machinability	應用 Application
EPS6000	EPS6100	HRC56°–60°	9	4	6	5	玻纖添加40%以上 鐵粉、高速、高壓
	EPS6200	HRC62°–66°	10	5	5	5	
	EPS6300	HRC58°–60°	10	5	7	4	

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EPS7000

Full Spray Alloy Series
合金全披覆系列

Introduction 介紹

EPS7000 系列是一種以高強度的進口預硬鋼作為基材，于螺杆表面整優，超音速融射一層厚為0.2mm–1mm的粉末調配合金，它擁有超高耐磨和超耐腐蝕性能。

EPS7000 series is made on the basis of a kind of import pre-hardening steel, optimized the screw surface, and ultrasonic melting sprayed a layer of powder mixing alloy with the thickness of 0.2–1mm, with superior abrasion and corrosion resistance.



Performance parameters 性能參數

系列 Series	類型 Type	硬度 Hardness	耐磨性 Wearable	耐腐性 Corrosion	韌性 Toughness	被切削性 Machinability	應用 Application
EPS7000	EPS7100	HRC53°–57°	9	9	6	3	玻纖添加40%以上 PA、PC等無滷料 +40%GF
	EPS7200	HRC58°–62°	10	10	6	3	

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EPS8000

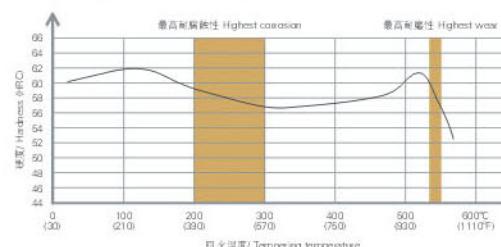
Compressed And Refined
Anti-corrosive Powder Steel Series
壓煉耐腐粉末鋼系列

Introduction 介紹

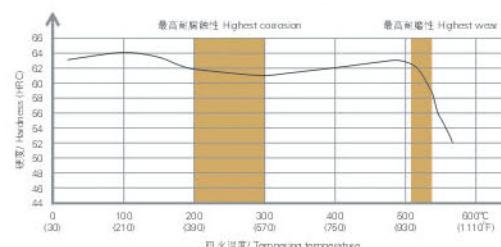
EPS8000系列材質選用德國、美國知名鋼廠粉末自行調配，壓煉而成粉末鋼，具有更高純淨度的更加細化的粉末顆粒，全程經調質、真空淬火、回火、超深冷等工藝制作，超耐腐蝕、耐磨損。

EPS8000 series material is mixed, compressed and refined the powder of famous steel plants in Germany and US as the powder steel upon mixing, vacuum and high-temperature quenching, tempering and ultra cryogenic technologies, to produce more refined particles with higher purification, and superior corrosion and abrasion resistance.

Tempering chart 回火曲線圖



Tempering chart (subzero) 回火曲線圖 (深冷處理)



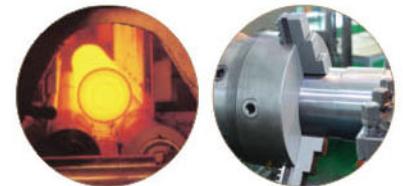
Performance parameters 性能參數

系列 Series	類型 Type	硬度 Hardness	耐磨性 Wearable	耐腐性 Corrosion	韌性 Toughness	被切削性 Machinability	應用 Application
EPS8000	EPS8100	HRC56°–60°	9	9	8	6	超强耐磨耐腐 PA9T無滷+40%玻纖 PA46無滷+50%玻纖 LCP無滷+40%玻纖
	EPS8200	HRC56°–62°	9	10	7	4	

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EPB

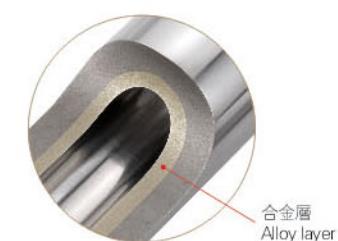
Barrels Series
料管系列



Introduction 介紹

EPB料管是在機筒內壁澆鑄一層2–3mm的粉末調配合金，有效提高其使用壽命及防腐性能。

EPB barrel is casted a layer of bimetallic alloy with the thickness of 2–3mm in the internal hole of the barrel, to effectively improve the service life and anti-corrosive property.



Performance parameters 性能參數

系列 Series	類型 Type	硬度 Hardness	主要成分 Main ingredient	特性 Feature	熱膨脹系數 400°C Thermal expansion	應用 Application
EPB	EPB200	HRC55°–58°	Ni+Cr+B+Cu	耐磨	12.0×10^{-6}	加纖原料、鐵粉、無滷原料等
	EPB300	HRC54°–58°	Ni+Cr+W+B	耐腐蝕	12.0×10^{-6}	
	EPB400	HRC55°–60°	Ni+Co+Cr+W+B	耐磨耐腐	12.0×10^{-6}	
	EPB500	HRC58°–64°	Ni+Cr+Wc+Co+B	高耐磨耐腐	12.0×10^{-6}	

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TOSHIBA

東芝系列

**NISSEI**

日精系列

**SUMITOMO**

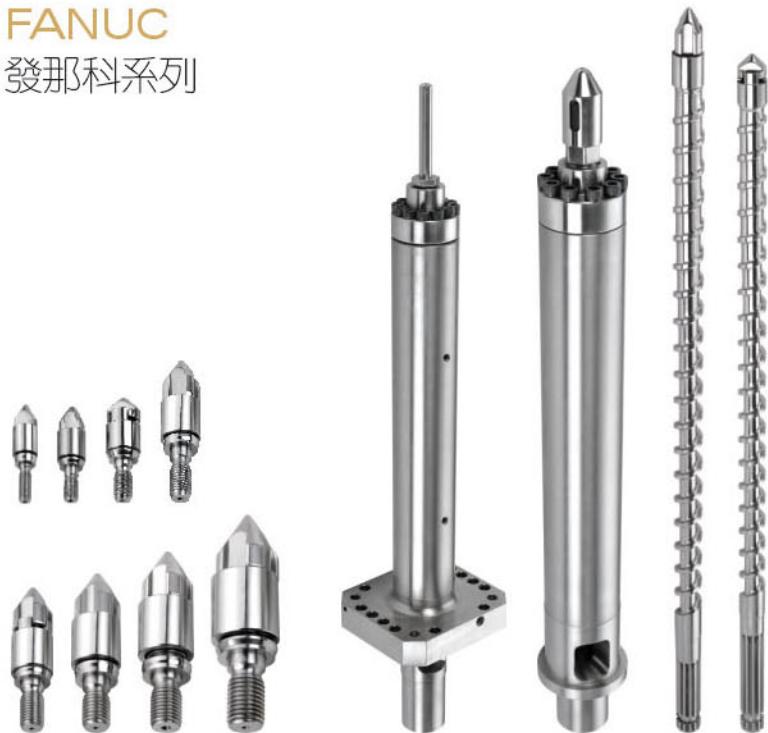
住友系列

**DEMAG**

德馬格系列



FANUC 發那科系列



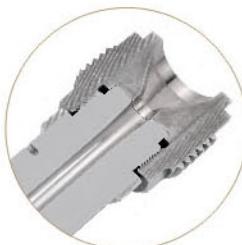
BATTENFELD 巴頓菲爾系列



Accessories 附件系列

精恒存備了高端機型的各種常用附件備件，多種材質各種工藝，盡量滿足各廠家的不同工藝需求，在出現意外時，我們將在第一時間讓您恢復生產。我們的合作，將讓貴司減少庫存成本，讓您的品質效率最大化。

Jingheng has equipped various common spare parts for accessories of domestic and foreign famous high-end machine models (JSW, Mitsubishi, Krauss maffei, Meiki, Sumitomo, Fanuc, Toshiba and Nissei, so that the end users can save the measured time and customization steps in case of any accidentally urgent need of accessories, and then the customer's production efficiency can be improved sequentially.



Extrusion Screw / Barrel Series

擠出螺杆/料管系列



錐形、平行雙孔螺杆/ 料管
Tapered and parallel twin
screw / barrel



單螺杆
Single Screw

Application 應用範圍

- 橡膠類
 - 食品類
 - 吹膜類
 - 硅膠類
 - 排氣抽粒類
 - 計量類
 - 碳棒類
 - 熱固機類
 - 管材料
 - 電線類
 - 异型材類
 - Rubber
 - Food
 - Film blowing
 - Silica-gel
 - Exhaust pumping tablets and grit making
 - Measurement
 - Carbon rod
 - Thermosetting machine
 - Pipe material
 - Cable
 - Profiled bar

各國模具鋼材比較表 Steel Mold Comparison

分類 Type	名稱 Name	鋼廠編號 No. Of steel factory	比較標準 Comparison standard						淬火硬度 Quenching hardness	主要用途 Main purpose
			日本 '大同'	日本 '日立'	美國 AISI	德國 DIN	日本 JIS	中國 GB		
塑膠 模具鋼	瑞典 "勝百"	德國 "撒斯特"	奧地利 "百傑"	PX4 PX5	HPM7	P20	1.2311	3Cr ₂ Mo	預硬 HB270~300	一般要求的大小塑膠 模具，可電弧操作
	塑膠模具鋼	GS-638 GS-2311	M201 M202	PX88	P20+Ni	1.2738		4Cr ₂ MoNi	預鍛HB290~330 HB330~370	高要求的大小塑膠 模具，尤其電弧操作
	塑膠模具鋼	GS-2711 GS-2738	M238	NAK55 NAK80	HPM60	P21		15Ni ₃ Mn	預硬 HB270~400	HRC52 高鏡面，高精度塑膠 模具
	預硬高硬度鏡面 塑膠模具鋼	S136H	GS-2316	M300	PAK90 (S-STAR)	HPM38	420	1.2316	SUS420J2	防腐蝕及鏡面拋光 之塑膠模具
	預硬抗腐蝕鏡面 塑膠模具鋼	S136	GS-2083	M310	DAC FDAC	H13	420	1.2083	SUS420J2	防腐蝕及鏡面拋光 之塑膠模具
	熱作壓縮模具鋼	8407	GS-2344	W302	DHA1	DAC37	O1	1.2344	SKD61	退火 HB<215
	不變形油鋼	DF-2 DF-3	GS-2510	K460	GOA	SGT ACD37	01	1.2510	SKS3	退火 HB<230
	韌性高鎳鋼 耐壓鎳鋼	XV-41 XV-42	GS-2379	K110	DC11 DC63	SLD SLD8	D2	1.2379	SKD11	退火 HB<230
	耐壓高鎳鋼	XV-5	GS-2436	K100		D3	1.2080	SKD1	Cr ₁₂ V	退火 HB<210
	韌性高速鋼	KM-2	S600	Mh51	YXM1	M2	1.3343	SKH51 (SKH9)	Cr ₁₂ V W ₆ Mo ₆ C ₂ V ₂	HRC58~62 各種不鏽鋼片、鋁片的衝壓模 片、鈦片、銅片的衝壓模
高 速 模 具 鋼	優質碳素結構鋼							SKH55	W ₆ Mo ₆ C ₂ V ₂ Co ₅	模架板、普通機械零 件
	高韌性高速鋼							SKH59	W ₆ Mo ₆ C ₂ V ₂ Co ₅	精密耐磨五金冷衝模 或切割工具及刀具
	高鉻韌性高速鋼							退火 HB240~300	HRC65~68	精密耐磨五金冷衝模 或切割工具及刀具
	粉末冶金鋼	ASP23	1.3395					退火 HB<220	HRC40~58	模架板、普通機械零 件
碳 素 結 構 鋼	普通碳素結構鋼							退火 HB<150		普通機械零件
	粉末冶金鋼	ASP30	1.3294					退火 HB240~300	HRC65~68	精密耐磨五金冷衝模 或切割工具及刀具
粉末鋼	粉末冶金鋼	ASP60	1.3292							

Enterprise Vision

企業願景



Create the
brand of screw
Made in China
with the international
outlook

精恒投入巨資引進高科技技術及設備，自主研發高耐磨、防腐蝕的新產品。以高技術作為企業的核心競爭力，及時了解和掌握行業的國際動態，以優質的產品和服務提升全球競爭力。

Jingheng has invested heavily to introduce the high technology and equipment, and independently research and develop the new products with high abrasion and corrosion resistance. With the core competition of high technology, the company timely realizes and grasps the international trend of the industry, and improves the global competition with the superior product and services.