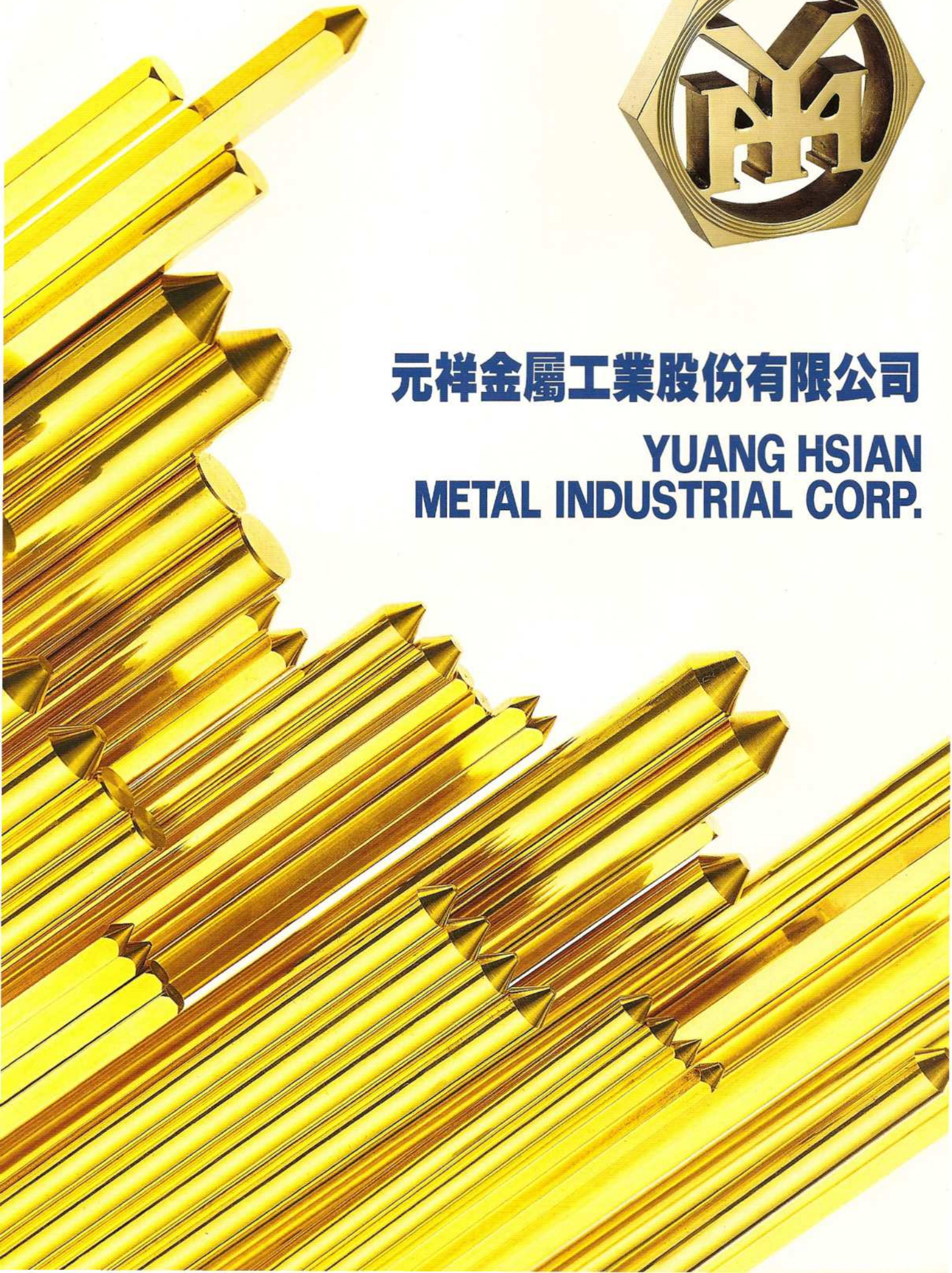




**元祥金屬工業股份有限公司**

**YUANG HSIAN  
METAL INDUSTRIAL CORP.**



# 在金色曙光中再接再厲

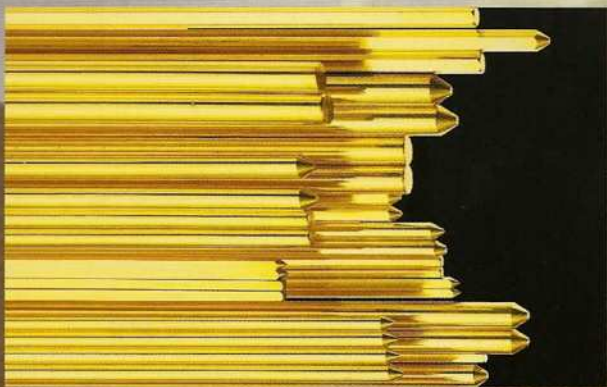
To make a determined effort  
undismayed in the golden dawn.

元祥金屬工業股份有限公司成立於民國 68 年與吉勝企業有限公司同隸屬於吉祥金屬鑄造廠為一專業銅合金製造廠。

國內工業急遽發展，對於材料工業技術的提昇，優良品質的黃銅棒、黃銅線扮演著相當重要的角色。

自公司創業以來，即以高度的製作技術生產黃銅棒、黃銅線為主，並積極地投資新設備、開發新技術，以達到質與量的要求。

今後，將繼續秉持著兢兢業業的精神，在永無止境的研究發展上，不斷地再創造革新，以追求更高度的成長。



Yuang-Hsian Metal Industrial Corp. one of the brother companies of Jyi-Shyang Metal Factory Co., was established in 1979.

The industry is rapidly developing in Taiwan. High manufacturing technology and excellent quality are required. Brass rod and brass wire have played a very important role in enhancing industrial development.

Since the company establishment has produced mainly brass rod and brass wire with high manufacturing technology and excellent quality. In order to enhance the productivity and to be contented with demands of quality and quantity, the company is positively investing on new equipments, reserching and developing on new technology.

Hence, we will keep creating and renovating on boundless reserch and development with a caution and fear of spirit to pursue more extensive business growth.

# 值得您信賴的產品

The products is worthy of confidence.



C3601 C3602  
切削屑 Cutting Turning  
結晶體 Grain Size



C3603 C3604  
切削屑 Cutting Turning  
結晶體 Grain Size



C3605  
切削屑 Cutting Turning  
結晶體 Grain Size

## 化學成份 Chemical Requirements

合金編號 Copper Alloy No. JIS	化學成份 Composition(%)									
	銅 Cu	鉛 Pb	鐵 Fe	錫 Sn	鋅 Zn	鋁 Al	錳 Mn	鎳 Ni	磷 P	銅+鋁+鐵+錳+鎳 Cu+Al+Fe+Mn+Ni
C3501	60.0~64.0	0.7~1.7	0.2 以下 0.2max	Fe+Sn 0.4以下0.4max	殘部 Rem.					
C3601	59.0~63.0	1.8~3.7	0.3 以下 0.3max	Fe+Sn 0.5以下0.5max	殘部 Rem.					
C3602	59.0~63.0	1.8~3.7	0.5 以下 0.5max	Fe+Sn 1.2以下1.2max	殘部 Rem.					
C3603	57.0~61.0	1.8~3.7	0.35 以下 0.35max	Fe+Sn 0.6以下0.6max	殘部 Rem.					
C3604	57.0~61.0	1.8~3.7	0.5 以下 0.5max	Fe+Sn 1.2以下1.2max	殘部 Rem.					
C3605	57.0~60.0	3.5~4.5	0.5 以下 0.5max	Fe+Sn 1.2以下1.2max	殘部 Rem.					
C3712	58.0~62.0	0.25~1.2	Fe+Sn 0.8 以下 0.8max		殘部 Rem.					
C3771	57.0~61.0	1.0~2.5	Fe+Sn 1.0 以下 1.0max.		殘部 Rem.					

合金編號 Copper Alloy No.	化學成份 Composition(%)										
	銅 Cu	鉍 Bi	錫 Sn	鋁 Al	鉛 Pb	鋅 Zn	鐵 Fe	鎘 Cd	鉻 Cr	汞 Hg	硒+銻+碲+鋁 Se+Sb+Te+Al
C6801	57.0~64.0	0.5~4.0	0.2~2.5	< 0.1	< 0.01	殘部 Rem.	< 0.5	< 0.001	< 0.001	< 0.001	
C6802	57.0~64.0	0.5~4.0	0.2~2.5	< 0.1	< 0.1	殘部 Rem.	< 0.7	< 0.001	< 0.001	< 0.001	
C6803	57.0~64.0	0.5~4.0	0.2~2.5	< 0.1	< 0.01	殘部 Rem.	< 0.5	< 0.001	< 0.001	< 0.001	0.02~0.6
C6804	57.0~64.0	0.5~4.0	0.2~2.5	< 0.1	< 0.1	殘部 Rem.	< 0.7	< 0.001	< 0.001	< 0.001	0.02~0.6

## 特性及用途 Specialities and Utilities

合金種類 Alloy No.	符號 Symbol	別稱 Name	特性及用途 Specialities and Utilities
C3501	線(B)	Nipple 用黃銅 Nipple Using Brass	切削性、冷間鍛造性良好、機車、腳踏車、腳踏車用接頭螺帽 Excellent Cold Forging And Good Machinability Use: Motorcycie And Bicycle Joint Nut.
C3601	(B)	快削黃銅 Free Cutting Brass	切削性良好，C3601、C3602 延展性也良好，電腦、電子、鐘錶、釣具、筆、燈飾、螺絲、小螺帽、齒輪、凡而、照相機各種五金零件。 Excellent Machinability And C3601,C3602 Good Extensibility Too. Uses: Computer, Electronic, Clock, Pen, Light And Fishing Rivet: Nut, Gear, Valve, Camera Parts, Hardware Parts. C3604, C3605
C3602	(A)		
	(B)		
C3603	(B)		
C3604	(A)		
	(B)		
C3605	(A)		
	(B)		
C3712	(A)	鍛造用黃銅 Forging Brass	熱間鍛造性良好，精密鍛造亦適合機械零組件。 熱間鍛造性和切削性均佳，凡而、錶殼、機械零件等。 Excellent Hot Forging. Uses: Precision Forging, Mechine Parts. Excellent Hot Forging And Good Machinability. Uses: Valve, Watch, Mechine Parts.
	(B)		
C3771	(A)		
	(B)		
C6801	(A)	低鉛快削黃銅 Leadless Free Cutting Brass	低鉛快削黃銅：符合環保低鉛、低鎘、低鉻、低汞等要求，俗稱環保用快削黃銅，切削性良好，適用於電腦、電子、鐘錶、釣具、筆、燈飾、螺絲、螺帽、光學、醫療、凡而、照相機各種五金零件。 Leadless Free Cutting Brass: low Lead, low Cadmium, low Chromium, low Mercury suitable for Enviornment Purpose of Brass with Excellent Machinability. Uses: Computer, Electronic, Clock, Pen, Light, Fishing, Rivet, Nut, Gear, Optical, Medical, Valve, Camera Parts and Hardware Parts.
	(B)		
C6802	(A)		
	(B)		
C6803	(A)		
	(B)		
C6804	(A)		
	(B)		

(A) 擠壓 Extrusion (B) 擠壓+抽伸 Extrusion & Drawing

## 機械性質 Mechanical Properties

合金編號 Alloy No.	質別 Temper Grade	記號 Designation	直徑及對邊距離 Diameter(mm)	抗拉試驗 TENSIL		硬度試驗 HARDNESS		備註 Remark
				抗拉試驗 Strength Kg/mm <sup>2</sup>	伸長率 Elongation(%)	維氏 HV (0.5min)	洛氏 HB (10/3000)	
C3501	O	C3501W-O	0.5 以上 0.5min	30 以上 30min	20 以上 20min			
	1/2H	C3501W-1/2H	0.5 以上 12 以下 0.5 ~ 12	35 ~ 45	10 以上 10min			
	H	C3501W-H	0.5 以上 10 以下 0.5 ~ 10	43 以上 43min				
C3601	O	C3601BD-O	6以上 75 以下 6 ~ 75	30 以上 30min	25 以上 25min			
	1/2H	C3601BD-1/2H	6以上 50 以下 6 ~ 50	35 以上 35min		95 以上 95min		
	H	C3601BD-H	6以上 20 以下 6 ~ 20	46 以上 46min		130 以上 130min		
C3602	F	C3602BD-F C3602BD-F	6以上 75 以下 6 ~ 75	32 以上 32min		75 以上 75min		
C3603	O	C3603BD-O	6以上 75 以下 6 ~ 75	32 以上 32min	20 以上 20min			
	1/2H	C3603BD-1/2H	6以上 50 以下 6 ~ 50	37 以上 37min		100 以上 100min		
	H	C3603BD-H	6以上 20 以下 6 ~ 20	46 以上 46min		130 以上 130min		
C3604 C3605	F	C3604BD-F C3605BD-F	6以上 75 以下 6 ~ 75	34 以上 34min		80 以上 80min		
C3712 C3771	F	C3712BD-F C3771BD-F	6以上 6min	32 以上 32min	15 以上 5min			



# 一貫成型的高製造技術

## High manufacturing technology for continuous forming

採用高效率連續式鑄造機，從研發、生產到品管一貫製成，不僅產品結晶體均勻，且材質穩定性佳，品質優良。

With high performance continuous Casting Machine, therefore, the research & development, production and quality control can do in integrated operation, to make products in uniformity of crystal, stable and with excellent quality.



銅棒及銅線各式加工製品一覽  
Brief of Various Processing Brass Bar & Wire.