

# SPINTECH<sup>®</sup>

旭泰精密機械股份有限公司

## SPINDLE MAKER 工具機主軸



完美的運轉 · 取決於旭泰 Let Your Industry Revolve Around Us.





## 公司簡介 >>

旭泰為工具機主軸專業製造廠商，成立於1995年，致力於技術革新，人員培訓，產品研發，量產化技術提升，設計開發生產近百種規格化主軸，提供國內外各大工具機廠，月產加工中心主軸1,000餘套，年產主軸10,000餘套，並朝向年產12,000套目標持續邁進。

主要專業生產之產品包括高速內藏式主軸、銑削主軸、高速直結主軸、削中心機主軸以及CNC車床主軸，優越的加工技術及生產製程，供應標準型式主軸以及降低客戶開發成本，縮短開發時程，並且接受客製化訂製，增加客戶獨特性。

旭泰已通過ISO9001驗證，秉持品質管理系統的基礎，信用與服務的精神建立品質保證的優良信譽，旭泰將觸角延但至3C產業的領域，並朝向國際化經營合作。

旭泰一直以來秉持「以誠信負責為態度，以研發創新為方向，以品質交期為堅持，以客戶滿意為目標，以制度管理為方針，以利益共享為目的。」之經營理念，追求雙贏成果，與客戶共創工具機市場里程。

## Company Introduction >>

SPINTECH was founded in 1995, has become the NO.1 of Taiwan's leading manufacturers of a variety of spindles. We have already developed over 100 kinds of spindles. At present, we are capable for rolling out 1,000 strong sets of spindles per month. Yearly production capacity reaches more than 10,000 sets. Now we are expanding production capacity to target 12,000 sets per year.

SPINTECH currently specializes in the development and production of high speed motor spindle, milling spindle, high speed direct drive spindle, CNC machining center spindle, CNC turning center spindle as well as offering high quality repair and maintenance services, and which also can meet the requirements of machine-tool manufactures at home and abroad .

The ISO9001-certified company says SPINTECH has established a strict quality-control system to ensure high quality of its products. In the foreseeable future, we will extend services to the 3C industry and seek international cooperation.

SPINTECH quality policy is satisfied for customer, supplying a suitable product and serving, and keep on of improvement.

## 部門組織 >> Organization

### ■ 設計 R&D Department

我們擁有傑出的研發團隊，目前我們已經創造出一百多種以上的精密主軸，並接受客製化訂製，增加客戶獨特性。現在我們仍然堅持這份毅力，不斷持續地開發與創新新產品。

We own the outstanding R&D team, we have already developed over 100 kinds of precision spindles, and engineered to customer specifications which can meet the requirements of machine-tool manufacturers at home and abroad. now we still keep this perseverance, continuing development and creating new products.



### 開發與創新 Development and Innovation

創新推出KI80 (ER16)、KI100 (HSK-32E)內藏式高速主軸，具有「低噪音、高轉速、平衡佳及閉迴路剛性攻牙」特性，於高轉數的振動及溫升(25~28C未扣室溫下的實際值)有極佳表現。

Recently we developed new products : KI80 (ER16) and KI100 (HSK-32E) high-speed motor spindles featuring low noise, high speed, and heavy-duty tapping in close circuit.



### ■ 品保部 Quality Assurance

我們制定了一個嚴苛品質控制的制度來監督、確定我們高品質的產品。因此我們的品質目標為「讓客戶滿意」，每位員工都是以自己是消費者的立場來評鑑品質，以及每批物料進廠均會比照圖面檢驗尺寸。

We established a strict quality-control system to ensure high quality of our products. Our quality target is 「Make customers satisfied」, every employee is the position of consumer to review quality with oneself, and each time components enter factory will examine all size and contrast diagram to face confirmation one by one.



### ■ 倉管部 Warehouse

「準時交貨」是我們滿足客戶的基本條件，為了滿足客戶的需求，我們定期備有半成品零件於倉庫。

「Deliver goods on time」 is the basic condition that we satisfy customers, for satisfying the customers' requirements, we periodically have semi-finished products in stock in our warehouse.

## 部門組織 >> Organization

### ■ 廠務部/組立與檢驗技術 Assembly and Test Stand Technology

「提昇品質，縮短交期」是我們對自己的要求與給客戶的承諾。

「To promote quality and shorten the delivery date」are we request by ourselves and promise to our customers.



### ■ 清洗零件 Clear Components

採用溫水噴射式自動零件洗淨機

- 高效率：只需15~30分鐘，用人工需要花上4小時的時間。
- 不汙染環境：不使用氟氯碳化物及三氯乙烷等破壞臭氧層的溶劑。

Spray Type Automatic Parts Washer

- High Efficiency :  
Take only 15~30 minutes by Jet Washer, if using the man power need 4 hours.
- Zero Pollution :  
No use of dissolvent such as chlorofluorocarbon and chlorine-ethane which destroy the ozonosphere.



### ■ 平衡測試 Balance Testing

平衡等級每支皆要達到ISO1940規範G1.0等級

Every spindle must reach the ISO1940 standard G1



### ■ 組立 Assembly

從零件到成品的每個階段，注意每個小細節，嚴格地把關每個步驟，依照「主軸裝配標準書」的規範執行，以降低不良率，達成零維修的目的。

To strictly inspect each step from components to finished product and contrast with the assembly specification of spindles to face confirmation one by one, therefore reducing the bad rate and also reaching zero maintain of purpose .



### ■ 跑合測試 Run-In Testing

- 採電腦控制全自動跑合程式。
- 提供溫昇過熱保護以及完整的溫昇紀錄。  
每一支出廠主軸均經過完整跑合程序，縮短工具機廠於線上跑合時間，提升裝配效率。

- A computer control full-automatic run to match program.
- To provide the protector with the hot temperature rise and keep a record for temperature.
- Every spindle need do the run-in testing, it can shorten the running on-line time in tool machine factory, and promote an assemble efficiency.

## 產品規格 >> Specifications

### ■ 產品特色

- 採用日本鎳鉻鉬鋼材質製成。
- 使用世界知名廠牌P4級軸承：FAG、SNFA、NTN、NSK、GMN、SKF。
- 採用瑞士E+A馬達。
- 潤滑方式：採用LUBCON-L252。
- 平衡等級：G1(ISO1940規範)。

### ■ Product Features

- Motor spindle is made of JIS / Nickel-chromium-molybdenum steel (SNCM220).
- Bearings in precision class P4 : FAG, SNFA, NTN, NSK, GMN and SKF.
- E+A motor of Switzerland.
- Lubrication : UBCON-L252.
- The balance achieved G1.

## 皮帶式主軸 Belt-Driven Milling Spindle



刀把型式 TAPER	套管外徑Ø HOUSING DIA.			最高轉速(RPM) MAX SPEED	軸徑Ø BORE DIA.	預壓 PRELOAD	中心出水 CTS
HSK63A	150			15000	70	剛性預壓 RIGID PRELOAD	○
BT.CAT.SK30	100	120		18000	40   45		X
	115			18000	55		○
BT.CAT.SK40	120	130		15000	60		○
	140   150	155		15000	70		○
BT.CAT.SK50	155			10000	80		○
	190			8000	100	○	

## 高速內藏式主軸 High Speed Motor Spindle



刀把型式 TAPER	套管外徑Ø HOUSING DIA.	最高轉速(RPM) MAX SPEED	軸徑Ø BORE DIA.	預壓 PRELOAD	功率(KW) POWER
SK20	100	36000	30	剛性 RIGID	6
HSK-E32	100	35000	35		1.5
SK25	120	24000	45	彈簧預壓 SPRING PRELOAD	10
SK30	120	30000	45		4.6
SK40	150	20000	55		18
SK40	170	20000	70		18
HSK63A	170	20000	70		18

產品規格 >> Specifications

高速直結式主軸 High Speed Direct Drive Spindle



刀把型式 TAPER	套管外徑Ø HOUSING DIA.		最高轉速(RPM) MAX SPEED	軸徑Ø BORE DIA.		預壓 PRELOAD	中心出水 CTS
BT	110		18000	45		剛性預壓 RIGID PRELOAD	X
BT.CAT.SK30	120		<b>24000</b>	<b>45</b>			○
BT.CAT.SK40	120		18000	60			○
	<b>150</b>		<b>10000</b>	<b>70</b>			○
BT.CAT.SK50	155	190	<b>10000</b>	80	<b>90</b>		○

齒輪式主軸 Gear-Driven Milling Spindle



刀把型式 TAPER	套管外徑Ø HOUSING DIA.		最高轉速(RPM) MAX SPEED	軸徑Ø BORE DIA.		預壓 PRELOAD	中心出水 CTS
BT.CAT.SK50	190		6000	100		剛性預壓 RIGID PRELOAD	○
	200		6000	100			○

超音波主軸 Ultrasonic Spindle



刀把型式 TAPER	套管外徑Ø HOUSING DIA.		最高轉速(RPM) MAX SPEED	頻率 KHZ	自動對頻 FREQUENCY	自動換刀 TOOL CHANGE
BT.CAT.SK30	100		8000	20~40	○	○
BT.CAT.SK40	120		8000			

伸縮主軸 Telescopic Spindle



刀把型式 TAPER	套管外徑Ø HOUSING DIA.		伸出量 OVERHANG	伸出軸軸徑Ø BORE DIA.	伸縮軸總長 LENGTH
BT.CAT.SK50	330 (MAX)		700 MM	110,130	2773 MM (MAX)
BT.CAT.SK60					

## 車床主軸 Turning Center Spindle



主軸鼻端 TOOL INTERFACE	套管外徑Ø HOUSING DIA.		最高轉速(RPM) MAX SPEED	軸徑Ø BORE DIA.		預壓 PRELOAD	夾頭規格 CHUCK	馬力(KW) POWER
A2-4	140		10000	65		剛性預壓 RIGID PRELOAD	4"	3.5~5.5
A2-5	170	180	6000	80	90		4" or 5"	5.5~7.5
A2-6	200		8000	100			5" or 6"	7.5~11
	270		4500	100				11
A2-8	230		6000	120			6" or 8"	11~15
	270		3500	130				18.5

## 雕刻主軸 Frequency Spindle



刀把型式 TAPER	套管外徑Ø HOUSING DIA.	最高轉速(RPM) MAX SPEED	軸徑Ø BORE DIA.	預壓 PRELOAD	功率(KW) POWER	備註 REMARKS
ER16	55	4800	20	剛性預壓 RIGID PRELOAD	1.5	直結式 DDS
	80	40000	30			內藏式 MOTOR
	120	10000	50			皮帶式 BELT
ER20	60	30000	25	彈簧預壓	0.75	內藏式 MOTOR
ER25	80	24000	35	SPRING PRELOAD	2	內藏式 MOTOR
ER20	60	18000	40	剛性預壓		皮帶式 BELT
ER32	100	18000	40	RIGID PRELOAD		皮帶式 BELT

本公司提供數百種標準及客製化產品。若欲知詳細資訊，歡迎來電或來信洽詢。

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