

General Catalog

綜合型錄

HIGH PRECISION GRINDING MACHINE



www.topking-tech.com



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TOP KING TECHNOLOGY CO., LTD.

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TOPKING



Our Service



- Research and Development
- Manufacturing
- Technical Counseling
- Customized Grinding Solutions
- Trial Grinding
- Education & Training
- Mechanical Maintenance
- After Sales Service

我們的服務

- 研究開發
- 生產製造
- 技術諮詢
- 專屬加工方案提供
- 測試研磨
- 教育及訓練
- 機器保養
- 售後服務



About TOPKING

TOPKING Technology Co., Ltd (TOPKING) was founded in Taichung, Taiwan since 2007. In 2008, TOPKING moved to Dali Industrial Park with production base. TOPKING is a specialist machinery manufacturer, striving for producing, researching and developing various precision grinding machines. We produce different types and features precision grinding machines such as Centerless grinder, Cylindrical grinder, Surface grinder, Center holes grinder, CNC CAM grinding machine. We will keep focusing on enhancing grinding technology, offering the best quality grinding machines, competitive prices and professional grinding technical solution to our customers.

關於金格科技

金格科技股份有限公司成立於2007年，於2008年金格科技遷移至台中市大里工業區建立專屬的生產基地。我們致力於研發、生產一系列高精度、高品質的磨床，金格科技從兩軸NC外圓磨床開始，迄今已有不同類別及客製化的磨床產品，核心產品包含外圓磨床、液靜壓無心磨床、平面磨床、中心孔磨床以及異形研磨專用機。金格科技將會持續的專注於提升研磨磨削相關技術，為我們的客戶提供最優質的磨床、最具有競爭力的價格以及最專業研磨加工技術方案。

Be A Grinding Solution Center, Be Your Reliable Technical Partner!

TOPKING not only offer precision grinding machine but also grinding technical consulting solutions as your exclusive consultant. Since technical consultation to after service, our experienced technical team will offer customization plan and completely training for each process to our client. We make all-out effort to meet customer satisfaction.

成為您的加工方案解決中心，做您最信賴的技術夥伴！

金格科技不僅提供高精度、高品質的磨床，同時也提供最適合您的研磨加工方案。我們將會是您最信賴的研磨加工顧問。從最開始的業務技術諮詢直至售後服務，我們富有多年技術經驗的團隊將會為您量身打造專屬於您的研磨加工、教育訓練...等方案，我們會竭盡所能地滿足客戶的需求，以達到最高的客戶滿意為目標。

外圓磨床 CYLINDRICAL GRINDING MACHINE

經濟型CNC控制 - T系列
Economic NC Control System - T series



萬用型CNC控制 - OGC系列
Universal CNC Control System - OGC serie



十字滑台結構式樣 - X-SE系列 / X系列
The cross-slider type - X-SE series / X series



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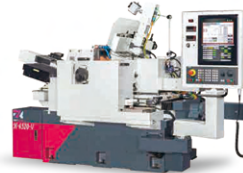
外圓磨床
CYLINDRICAL GRINDING MACHINE

異型研磨專用機 - X-CAM 系列
CNC CAM SERIES - X-CAM



無心磨床
CENTERLESS GRINDING MACHINE

高速高精度液靜壓 - H 系列
High Precision Hydrostatic - H Series



立式中心孔研磨機
VERTICAL CENTER HOLE GRINDING MACHINE

VCG 系列
VCG Series



外圓磨床 CYLINDRICAL GRINDING MACHINE

十字滑台結構式樣-X-SE系列 / X系列 The cross-slider type - X-SE series / X series

X軸與Z軸採用十字形滑台設計，有效的縮小佔地面積與軸向行程，高剛性床身搭配重型主軸以及尾座，大幅提高工件承載荷重力。

X series with exclusive cross-slider design for X axis and Z axis. Machine covers small mounting area. Get the utmost out of your working space. Equip with heavy duty type work-spindle and tailstock, increase workpiece loading capability.



型號 MODEL	X-25SE X-3550SE / X-35100SE	X-25 X-3550 / X-35100
控制系統 Control System	NC 控制 NC Control	CNC 控制 CNC Control
標配控制系統 Standard Control System	三菱PLC Mitsubishi PLC	三菱CNC Mitsubishi CNC
選配控制系統 Optional Control System	-	發那科 / 西門子 Fanuc / Siemens
工作台旋轉 Swivel Over Table	Φ270mm/ Φ370mm	
兩頂心間距 Distance Between Centers	X-25: 200mm X-35: 500mm ~3000mm	
最長研磨長度 The Max. Grinding Length	X-25: 150mm X-35: 500mm ~3000mm	
最大研磨外徑 Max. Grinding External Dia.	X-25: Φ250mm X-35: Φ350mm	
砂輪尺寸 (外徑x寬度x內徑) Grinding Wheel Dia. (O.D. x Width x I.D.)	X-25: Φ510 x 50 xΦ127 mm X-35: Φ610x 50~150(max.)xΦ254 mm	
工作主軸&尾座頂針直度 Work Spindle & Tailstock Center Taper	X-25: MT#3 X-35: MT#4 / MT#5	

異型研磨專用機-X-CAM系列 CNC CAM SERIES - X-CAM

金格科技X-CAM系列 是一台針對偏心圓及異形研磨所設計的專用機種。

應用於研磨偏心軸、凸輪軸、曲柄軸、多邊形沖頭、等異形工件，特別適用於製造汽機車零件、自動化設備零件等產業。

The X-CAM series is the specialized design for eccentric and not circular components grinding. It's applied to eccentric, cam shaft, crank shaft, polygon punch grinding. It's especially suitable for use in the automotive, automation equipment, mold industries.



操作系統:

搭載西門子840Dsl操作系統，內建針對異形與偏心圓研磨的圖形對話式操作介面，搭配觸控式螢幕使操作更簡易，另可搭配CAD/CAM軟體(選配)，針對客製圖型轉出研磨路徑，提供最富彈性、最人性化的操作環境。

Control System

Equipped with SIEMENS 840Dsl control system. Built-in TOP KING's latest version graph conversational operate interface include crankshaft and camshaft grinding application. Makes work easier! Moreover, operate with CAD/CAM software (optional accessories) easy to transfer custom-made grinding program. Provide a flexible and humanized operating environment.

標配控制系統 Standard Control System	西門子840Dsl + 圖形對話式操作介面 Siemens 840Dsl with GUI
型號 MODEL	X-6 CAM / X-3550CAM / X-35100 CAM
工作台旋轉 Swivel Over Table	Φ270mm / Φ370mm
兩頂心間距 Distance Between Centers	X-6: 200mm X-35: 500mm ~1000mm
最長研磨長度 The Max. Grinding Length	X-25: 150mm X-35: 500mm ~1000mm
最大研磨外徑 Max. Grinding External Dia.	X-25: Φ250mm X-35: Φ350mm
砂輪尺寸 (外徑x寬度x內徑) Grinding Wheel Dia. (O.D. x Width x I.D.)	X-25: Φ510 x 50 xΦ127 mm X-35: Φ610x 50 xΦ254 mm
工作主軸&尾座頂針直度 Work Spindle & Tailstock Center Taper	X-25: MT#3 X-35: MT#4 / MT#5

外圓磨床 CYLINDRICAL GRINDING MACHINE

經濟型NC控制-T系列

Economic NC Control System – T series

X(進刀)軸及Z(橫移)軸兩軸NC控制，設定後可自動循環進行多段差研磨、自動修整與補正。
內建多樣化的研磨方式選擇，配合簡易式的圖形對話式操作介面，操作簡單、易學習，提供使用者最便捷的操作環境。

X axis and Z axis control by NC servo motor. After setting parameter the machine could do steps grinding, dressing and compensation automatically.
The control system with GUI built-in various grinding modes with simply parameter setting, provide the most convenient operating environment for operator.



型號 MODEL	T-1012 / T-1020 / T-12(16)24 / T-12(16)40 / T-12(16)60 / T-12(16)80
工作台旋轉 Swivel Over Table	Φ250mm/ Φ320mm/ Φ420 mm
兩頂心間距 Distance Between Centers	300mm / 500mm / 600mm / 1000mm / 1500mm / 2000mm
最大研磨外徑 Max. Grinding External Dia.	Φ250mm/ Φ300mm/ Φ400 mm
兩頂心最大荷重 Max. Load of Centers	60 kgs / 150 kgs
砂輪尺寸 (外徑x寬度) Grinding Wheel Dia. (O.D. x Width)	Φ305-405mm x 38-75mm
工作主軸及尾座預針錐度 Work Spindle & Tailstock Center Taper	MT#3 / MT#4

萬用型CNC控制-OGC系列

Universal CNC Control System – OGC series

X(進刀)軸及Z(橫移)軸皆採用精密級滾珠螺桿搭配伺服馬達驅動，搭載高性能的CNC控制系統配合內建圖形對話式操作畫面(GUI)，具備不同類型的研磨及修整方式，應用廣泛，有效對應不同類型的工件需求。

The X axis and Z axis are driven by CNC servo motor with precision ball screw. The CNC controller equipped with high performance control system and graphical user operation interface (GUI). The GUI built-in various grinding and dressing mode apply for varied grinding jobs.



型號 MODEL	OGC-1012 / OGC-1020 / OGC-12(16)24 / OGC-12(16)40 / OGC-12(16)60 / OGC-12(16)80
工作台旋轉 Swivel Over Table	Φ250mm/ Φ320mm/ Φ420 mm
兩頂心間距 Distance Between Centers	300mm / 500mm / 600mm / 1000mm / 1500mm / 2000mm
最大研磨外徑 Max. Grinding External Dia.	Φ250mm/ Φ300mm/ Φ400 mm
兩頂心最大荷重 Max. Load of Centers	60 kgs / 150 kgs
砂輪尺寸 (外徑x寬度) Grinding Wheel Dia. (O.D. x Width)	Φ305-405mm x 38-75mm
工作主軸及尾座預針錐度 Work Spindle & Tailstock Center Taper	MT#3 / MT#4
標配控制系統 Standard Control System	Mitsubishi (選配 Optional: Fanuc, Siemens, ...)

無心磨床 CENTERLESS GRINDING MACHINE

高速高精度液靜壓-H系列

High Precision Hydrostatic Type – H Series

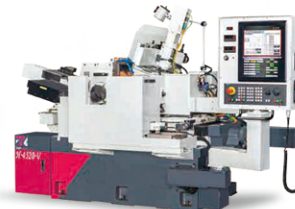
金格科技靜壓無心磨床(H系列)傳達了金格的最新的設計理念，其砂輪主軸、調整輪主軸以及下滑軌(進刀軸)皆採用精密的液靜壓結構，最小進給量可設定0.0005mm，滿足客戶對於工件圓度、表粗、加工尺寸等精度要求。

The H series is shown TOPKING design idea for centerless grinder. It equipped with precision hydrostatic bearing for both wheel spindles and the R.W. lower slider (infeed axis) is hydrostatic guideway construction. The minimal feeding setting value is 0.0005mm. Its high precision and high speed performance could satisfy the customer's requirement.



型號 MODEL	H-4515-NCI / H-4515-NCII	H-4520-NCI / H-4520-NCII
標準研磨外徑 Standard Grinding Range (dia.)		Ø1-Ø50 mm
砂輪尺寸 (外徑x寬度) Grinding Wheel Dia. (O.D. x Width)	Ø455 x 150 x Ø228.6mm	Ø455 x 205 x Ø228.6mm
調整輪尺寸 (外徑x寬度) Regulating Wheel Dia. (O.D. x Width)	Ø255 x 150 x Ø127mm	Ø255 x 205 x Ø127mm
砂輪轉速 Grinding Wheel Speed		45 m/sec
調整輪轉速 Regulating Wheel Speed		10-300 r.p.m.
NC伺服控制 NC Servo Motor Control		X軸(標配) / Z軸 X axis (standard) / Z axis

CNC系列 CNC Series



型號 MODEL	H-4515-CNC	H-4520-CNC
標配控制系統 Standard Control System		三菱 Mitsubishi CNC
選配控制系統 Optional Control System		發那科 / 西門子 Fanuc / Siemens
標準研磨外徑 Standard Grinding Range (dia.)		Ø1-Ø50 mm
砂輪尺寸 (外徑x寬度) Grinding Wheel Dia. (O.D. x Width)	Ø455 x 150 x Ø228.6mm	Ø455 x 205 x Ø228.6mm
調整輪尺寸 (外徑x寬度) Regulating Wheel Dia. (O.D. x Width)	Ø255 x 150 x Ø127mm	Ø255 x 205 x Ø127mm
砂輪轉速 Grinding Wheel Speed		45 m/sec
調整輪轉速 Regulating Wheel Speed		10-300 r.p.m.
CNC控制 CNC Control		1-6軸 1-6 axis