

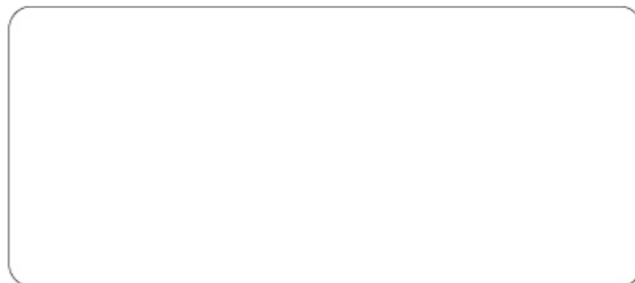


機台規格 Specifications	KL-645/M	KL-852/M
<b>主軸 Spindle</b>		
主軸鼻端型式 Spindle Nose	A2-5	A2-6
主軸通孔直徑 Spindle Bore Thru Dia.	Ø56 mm	Ø62 mm
三爪夾頭直徑 Chuck Size of 3-Jaw Dia.	6" / Ø169 mm	8" / Ø210 mm
主軸中心高度 Spindle Center Height to Floor	1000 mm	
主軸中心至前門距離 Spindle Center Dist. to Front Door	280 mm	
拉桿作動型式 Draw Bar Clamping	油壓 Hydraulic	
<b>加工範圍 Machining Capacity</b>		
最大旋徑 Swing Over Way Covers (Dia.)	Ø457 mm	
最大加工工件長度 Max. Turning Length	406 mm	
最大加工工件直徑 Max. Machining Dia.	Ø284 mm	
最大拉桿通孔直徑 Through Draw Tube Capacity	Ø45 mm	Ø52 mm
<b>X/Z軸移動 X,Z Axis Travel</b>		
X軸行程 X Axis Travel	163 mm	
Z軸行程 Z Axis Travel	406 mm	
X/Z軸快速移動率 X/Z Axis Rapid Traverse	24 m/min	
<b>機械精度 Mechanical Accuracy</b>		
X/Z軸定位精度 (全行程) X/Z Axis Positioning (Full Travel)	±0.005 mm	
X/Z軸重覆精度 X/Z Axis Repeatability	±0.003 mm	
<b>FANUC伺服馬達 FANUC Motors</b>		
主軸馬達功率 Spindle Motor Rate	7.5 / 9 / 11 kW	
主軸基底轉速 Base Speed	750 rpm	625 rpm
主軸最高轉速 Max. Speed	4000 (5500) rpm	3500 (4500) rpm
主軸輸出扭力 Torque Rate	114.6 Nm	136.9 Nm
X軸伺服馬達 X Axis Servo Motor	1.8 kW	
Z軸伺服馬達 Z Axis Servo Motor	1.8 kW	
<b>動力刀塔 Power Turret</b>		
刀塔驅動 Turret Drive	伺服馬達 Servo Motor	
刀塔數目 Turret No.	12 T	
刀具形式 Tool Type	VDI 30	
主軸馬達功率 (動力驅動) Spindle Motor Rate (Power Drive)	2.2 kW	
四方刀座規格 Square Shank Size	20 mm	
鏜刀座規格 Milling Tool Base Size	32 mm	
相鄰刀具換刀 (T-T) Index Time Next Station (T-T)	0.25 sec.	
<b>機器尺寸 Machine Dimension</b>		
長×寬×高 Length × Width × Height	2000 x 1770 x 1780 mm	
重量 Weight	3750 kg	3800 kg
佔地面積 Floor Area	3.3 m <sup>2</sup>	

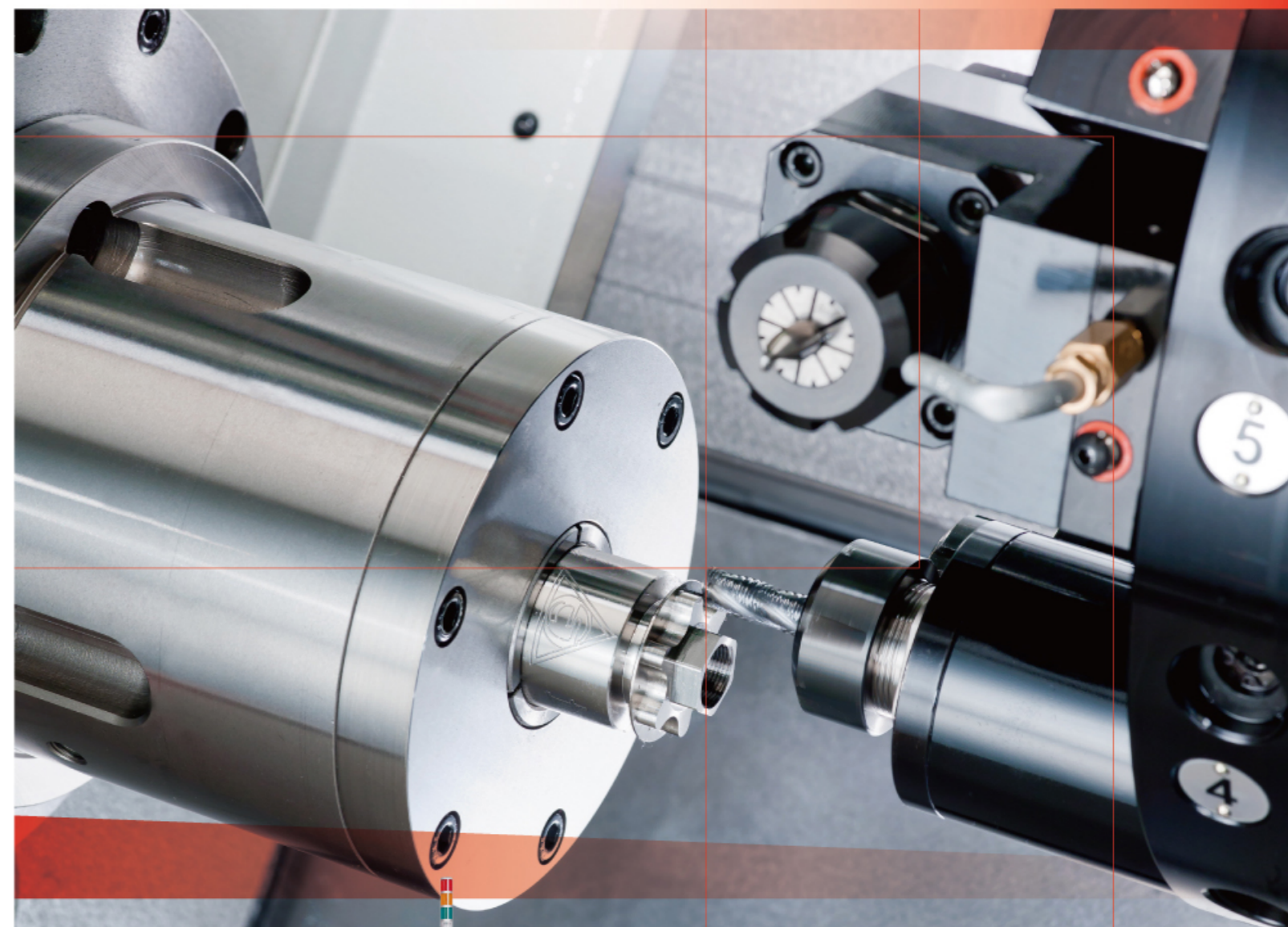
標準附件 Standard	KL-645/M	KL-852/M
FANUC Oi - TF 控制器 FANUC Oi - TF Control	8.4" 彩色液晶螢幕 8.4" Color LCD	
三爪夾頭及軟爪 3 Jaw Chuck with Soft Jaw	6 inch	8 inch
鏜刀座 Milling Tool Base Ø32	3 pcs	
鏜刀柄套 Milling Tool Holder Cover	8, 10, 12, 16, 20, 25 mm	
防水鹵素工作燈 Waterproof Halogen Working Lamp		
工作完了指示燈 Worklight	3色 3 Color	
腳踏開關 Chuck-Operation Pedal		
工具箱 Tool Box		
機台手冊 Manual		
特殊附件 Optional	KL-645/M	KL-852/M
FANUC Oi - TF 控制器 FANUC Oi - TF Control	8.4" 彩色液晶螢幕 8.4" Color LCD	
可程式尾座 Morse Taper Center	MT NO.4	
尾座行程 Tailstock Travel	341 mm	
最大挾持工件長度 Max. Part Length	341 mm	
快速移動率 Rapid Traverse	5.5 m/min	
作動方式 Operation Type	擺臂式 Pendulum	
最大工件長度 Max. Workpieces Length	160 mm	
最大工件直徑 Max. Workpieces Dia.	Ø45 mm	Ø52 mm
鏈板式 Hinge Type	適合長屑、捲屑 For longer and curled chips	
刮板式 Scraper Type	適合細屑、碎屑 For fine and grain type chips	
刀具量測 Tool Measurement	自動 Automatic	
油霧收集機 Oil Mist Collecting Device	1 HP	
筒型夾頭 Drum Type Clamp	CL42-A5	CL60-A6
棒材送料機 Bar Feeder	棒材長度 Bar Material Length 1250 ~ 3200 mm	
活動頂心 Morse Taper Center	MT NO.4	
自動門 Automatic Sliding Door	氣壓 Pneumatic	
四方刀架 Square Tool Rack	20 x 20mm	

- 註：1.本公司秉持求新求好之精神不斷改善及研發新功能，並保有型錄規格與動權利，若有異動不另行通知，歡迎洽詢。  
2.型錄所記載加工尺寸及數據，依加工、環境、刀具條件等不同，實際產生數據可能有所誤差。
- Notice: 1.To keep improving and developing new functions, KUEN JENG reserves the rights to change specifications without prior notice.  
2.Due to varying cutting conditions, actual results may be greater or less than those listed.

經銷商 Agent



# High Accuracy, Versatile, An Extra Value Series!



## KL-645/M / 852/M

45° 斜床式車銑複合CNC車床  
45° SLANT BED TURNING & MILLING COMPOUND CNC LATHE



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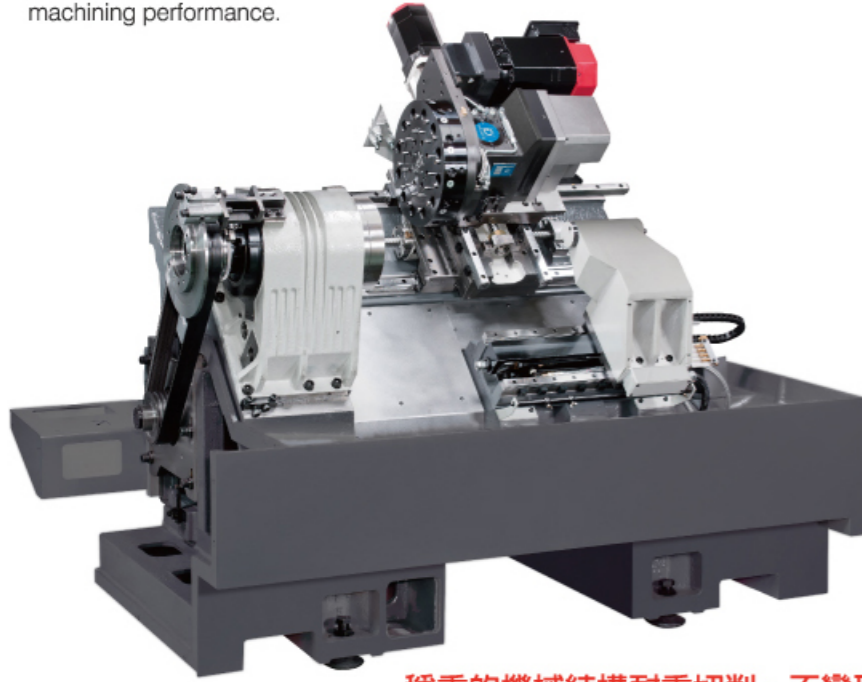
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# KL-645/M / 852/M

## 45° 斜床式車銑複合CNC車床 45° SLANT BED TURNING & MILLING COMPOUND CNC LATHE

坤鉦 KL-645/M / 852/M 斜床式 CNC 車床，是一部具有高精度的車銑複合 CNC 車床。本機配備 12 位動力刀塔，配合 C 軸功能，可一次完成車削、銑削、搪孔、鑽孔、攻牙作業。全機結構穩重，無論是精加工或重切削，KL-645/M / 852/M 都將徹底表露令人刮目相看的性能風範。

The KL-645/M / 852/M Slant Bed CNC Lathe from KUEN JENG are high accuracy turning and milling complex CNC lathes. The series of machine is equipped with a 12-position power turret in combination with the C-axis function, allowing turning, milling, boring, drilling and tapping to be accomplished in one setup. The machine is ruggedly constructed, and excellent for both fine finishing and heavy cutting operations. The KL-645/M / 852/M will fully present its amazing machining performance.



### 穩重的機械結構耐重切削，不變形

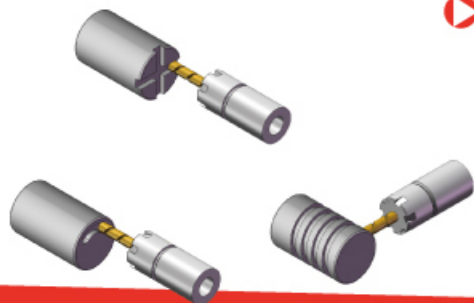
#### Stable Machine Structure Heavy Cutting Resistance, Deformation-free

- 45° 斜床式構造，穩重，高剛性。
- 床身結構採用高級米漢納鑄鐵 (GB300) 一體鑄造成型，經應力消除處理，床身無變形之慮。
- 床身重量及結構厚度經特殊設計，重切削時，更凸顯其獨特的穩定性。
- 床身依水流方向結構設計，將漏水問題降到最小程度，且排屑順暢。
- The 45° slant bed construction features maximum stability and rigidity.
- The bed is one-piece manufactured from high quality Meehanite cast iron (GB300), stress relieved to remain deformation-free year after year.
- The bed weight and wall thickness are specially designed to exhibit extraordinary stability under heavy cutting conditions.
- The bed structure is designed to suit coolant flow direction, which minimizes the possibility of coolant leakage while allowing smooth chip exhaust.

#### C軸輪廓加工功能 C-axis Contouring Function

主軸之 C 軸功能，適合工件之輪廓加工，且分割精度可達 0.001°。

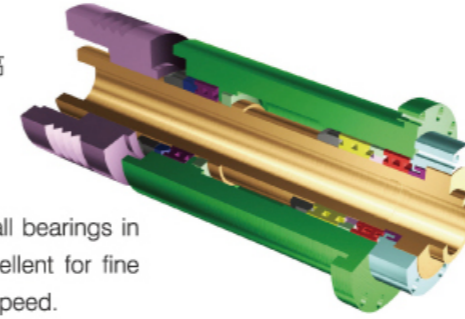
With the C-axis function of the spindle, the machine can perform contour machining with high indexing accuracy of 0.001°.



### 精密，高剛性主軸

#### Precise, Rigid Spindle

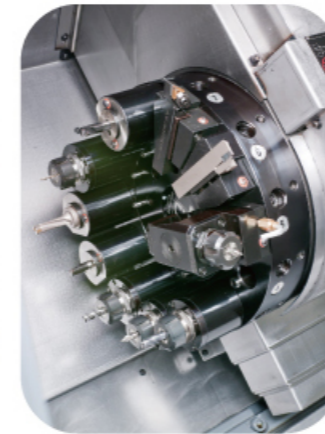
- 主軸採用精密斜角滾珠軸承與滾柱軸承，適合高轉速之精加工，且低速時耐重切削能力優異。
- 軸向與徑向加工穩定性高。
- 主軸採用高扭力馬達驅動，適合各種加工需求。
- The spindle runs in precision angular contact ball bearings in combination with roller bearings, which are excellent for fine finishing at high speed and heavy cutting at low speed.
- Maximum stability in axial and radial machining.
- The spindle is driven by a high torque motor, making the machine suitable for various machining requirements.



#### 12位動力刀塔 12-Position Power Turret

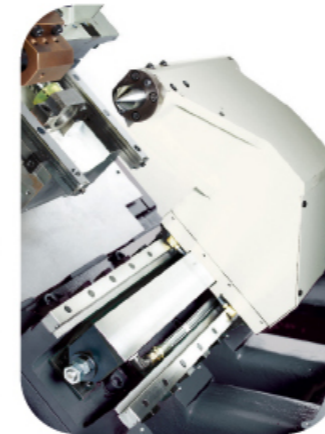
動力刀塔配合主軸之 C 軸功能，以及使用軸向與徑向刀座，可執行銑削、搪孔、鑽孔、攻牙等加工作業。展現高效率車、銑複合功能。

The power turret is used together with the C-axis function of the spindle in combination with the use of axial and radial tool holders, allowing the machine to perform milling, boring, drilling and tapping operations. It exhibits high efficiency turning and milling complex functions in one setup.



#### 可程式尾座 Programmable Tailstock

- 採用無心軸尾座設計，以避免心軸配合之誤差。
- 尾座移動以程式控制，配合加工操作，使操作更簡易。
- 使用 MT4 頂心，也可使用其他型式頂心。
- The tailstock is a non-quill design, which may avoid fitting tolerance of the quill.
- The tailstock movement is controlled by programs, making operation easier.
- The tailstock accepts an MT4 center. Other types of center are available.



#### 工件蒐集器 Parts Catcher

作動方式：擺臂式  
最大工件長度：110 mm  
最大工件直徑：Ø52 mm

Operating method: Swing arm type  
Max. part length: 110 mm.  
Max. part diameter: Ø52 mm.



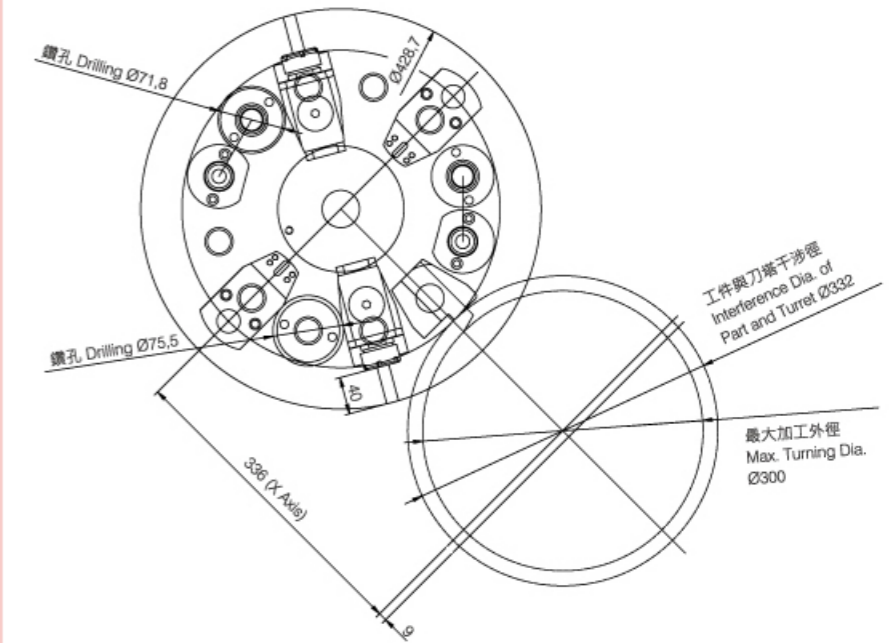
#### X, Z軸線性滑軌 X, Z-axis Ball Screws

- 採用高剛性三排滾珠滑軌增加接觸面積，使整體剛性提升 30%。
- 軸向移動精度誤差減少，提升加工品質。
- X, Z-axis move on 3-row ball type linear ways. Its greater contact area provides increased rigidity by 30%.
- Minimized error of axial movement leads to an increase of machining quality.



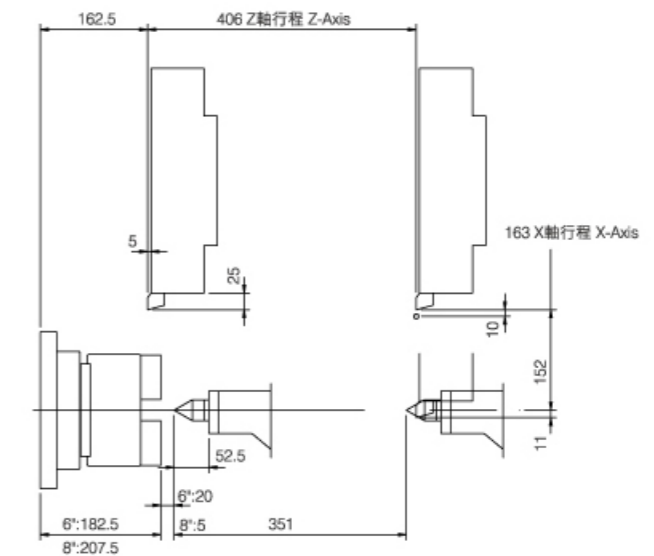
### 刀具干涉圖

#### Tool Interference Diagram



### 行程範圍圖

#### Axes Travel Range



單位:公釐  
Unit:mm

### 佔地面積圖

#### Dimensions Of Machine

