

機台規格 Specifications		KL-645	KL-852
主軸 Spindle	主軸鼻端型式 Spindle Nose	A2-5	A2-6
	主軸通孔直徑 Spindle Bore Thru Dia.	Ø 56 mm	Ø 62 mm
	三爪夾頭直徑 Chuck Size of 3-Jaw Dia.	6" / Ø 169 mm	8" / Ø 210 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	
加工範圍 Machining Capacity	最大旋徑 Swing Over Way Covers (Dia.)	Ø 457 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.	Ø 284 mm	
	最大拉桿通孔直徑 Through Draw Tube Capacity	Ø 45 mm	Ø 52 mm
X/Z軸移動 X, Z Axis Travel	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	
機械精度 Mechanical Accuracy	X/Z軸定位精度(全行程) X/Z Axis Positioning (Full Travel)	±0.005 mm	
	X/Z軸重複精度 X/Z Axis Repeatability	±0.003 mm	
FANUC 伺服馬達 FANUC Motors	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
刀塔 Turret	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	
	刀塔驅動 Turret Drive	油壓馬達 Hydraulic Motor	
	刀塔數目 Number of Stations (Standard)	10 / 12	
可程式尾座 Fully Programmable Tailstock	四方刀座規格 Square Shank Size	25 / 20 mm	
	鐮刀座規格 Milling Tool Base Size	32 mm	
	相鄰刀具換刀(T-T) Index Time Next Station (T-T)	0.25 sec.	
	頂心規格 Morse Taper Center	MT NO.4	
機器尺寸 Machine Dimension	尾座行程 Tailstock Travel	341 mm	
	最大挾持工件長度 Max. Part Length	341 mm	
機台規格 Specifications	長×寬×高 Length x Width x 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 Accessories	KL-645	KL-852
FANUC Oi mate-TD 控制器 FANUC Oi mate-TD 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
四方刀架 Square Tool Rack	2 pcs	
鐮刀座 Milling Tool Base Ø32	4 pcs	
鐮刀柄套 Milling Tool Holder Cover	8,10,12,16,20,25 mm	
鑽頭套 Drilling Pin Cover	MT NO.2	
刀塔噴嘴 Turret Nozzle	6	
防水鹵素工作燈 Waterproof Halogen Working Lamp	3 色 3 Color	
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	KL-852
FANUC Oi TD 控制器 FANUC Oi TD Control	8.4" 彩色液晶螢幕 8.4" Color LCD	
動力刀塔 Power Turret	刀塔驅動 Turret Drive	伺服馬達 Servo Motor
	刀塔數目 Turret No.	12T
伺服刀塔 Vertical Servo Turret	刀塔驅動 Turret Drive	伺服馬達 Servo Motor
	刀塔數目 Turret No.	8 / 12T
工件蒐集器 Workpieces Collector	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.	Ø 45 mm    Ø 52 mm
鐵屑輸送機 Chip Conveyor	鑷板式 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	

※註：1.本公司秉持求新求好之精神不斷改善及研發新功能，並保有型錄規格異動權利，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 improvement and developing new functions, Kuen Jeng reserves the rights to change specifications without further notice.  
2.Due to varying cutting conditions, actual results may be greater or less than those listed.



# CNC 臥式車床 CNC LATHE

## KL-645 / 852



**坤鈺機械股份有限公司**  
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# KUEN JENG **Strict Quality Control · Customers First**

嚴格品質控管、使用者優先，不斷推出高精度、高效能、高品質、高剛性 CNC 車床 KL-645/852 更以卓越、精巧、亮麗的外型，穩定的加工品質，超高的工作效率，風靡業界。

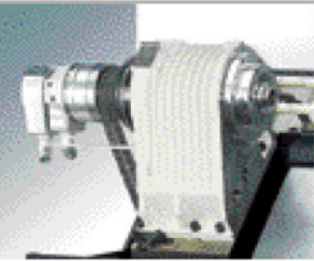
CNC Lathe Made for High Accuracy, High Efficiency, High Quality, and High Rigidity. The KL-645/852 series with its outstanding compactness, smart look, stable processing quality and extra high production efficiency is very popular with industrialists.

## 整體結構 Main Structure

米漢納鑄鐵 (GB300) 一體成型，45°斜式床身結構，增加機台剛性、穩定性。床身重量及結構厚度足以承受重切削負荷。床身水流方向結構設計，漏水降到最低，排屑流暢。

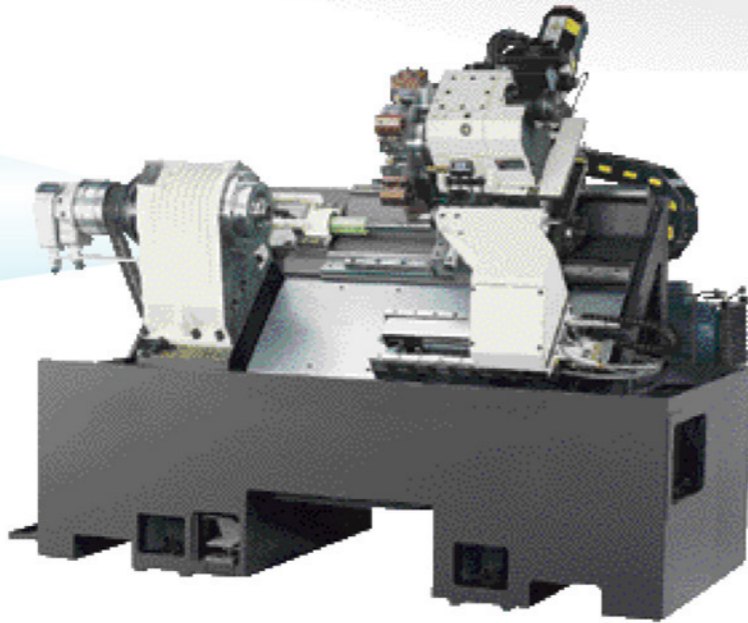
The Meehanite cast iron, one piece structure with its 45 degree slant bed design offers overall stability, rigidity and durability. The special headstock design eliminates thermal displacement and assures continuous processing accuracy.

## 主軸 Spindle



主軸採用高精度斜角滾珠軸承及滾柱軸承，適合於高轉速精密切削及低速重切削。軸徑向加工穩定性高，主軸馬達匹配α15高扭力馬達，足以應付各種條件加工。

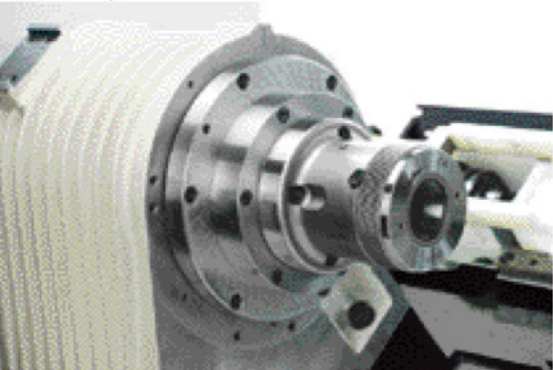
The high performance spindle with sturdy, tapered roller bearings and special angular bearings ensures high axial and radial rigidity.



## 筒形夾頭 Drum Type Clamp (特殊附件) (Sp. Optional)

針對連續大量加工棒材，選擇匹配CL-42型筒型夾頭，或CL-60型筒型夾頭外加棒材送料機，提供自動快速定位換料，減少人工換料時間，提昇自動化生產效率。

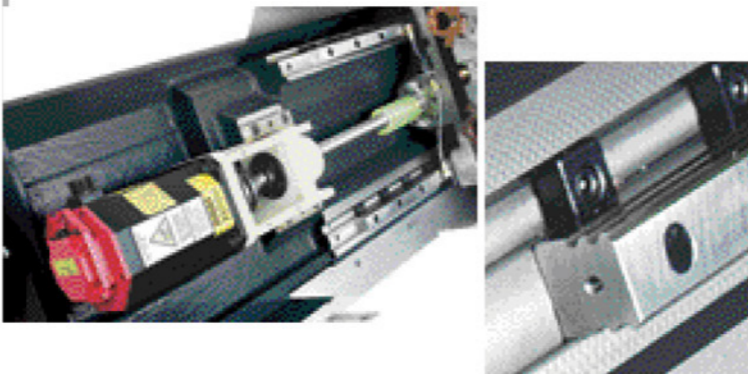
In combination with a bar feeder the drum type clamping system enables continuous mass production of bar work pieces. The CL-42 and CL-60 drum type clamping systems provide secure clamping, while the bar feeder offers swift positioning. No unnecessary down time due to manual work piece setup means higher production efficiency.



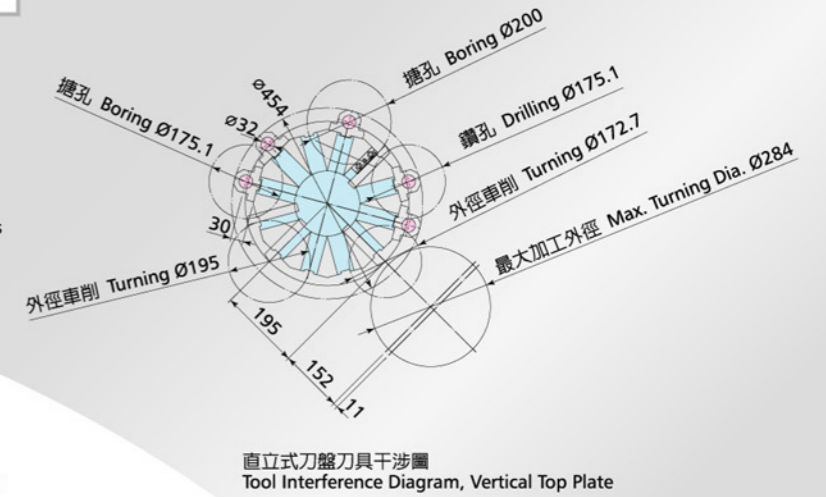
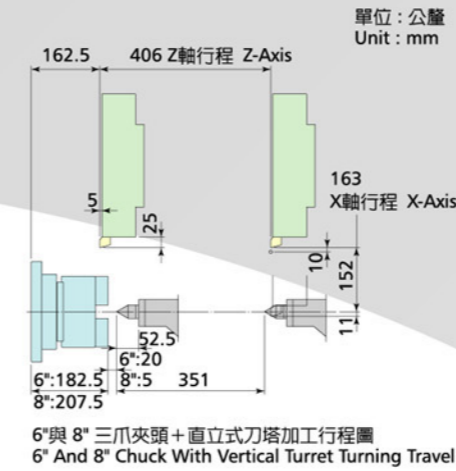
## X、Z 軸 X, Z Axis

精密研磨級滾珠螺桿，C2級X軸、C3級Z軸以達24m/min快速位移，高耐重負荷、熱變形低，提昇加工效率及加工工件品質。線性滑軌採用高剛性三排滾珠滑軌，增加與機構接觸面積，整體剛性提昇30%，軸向移動精度誤差量減低，提昇加工品質。

The C2 class for the X-Axis and C3 class for the Z-Axis double nut ball screws are pretensioned for reduced thermal displacement. Direct drive and special coupling ensure high accuracy while reducing vibrations and noise. Full stroke compensation on X and Z axes.



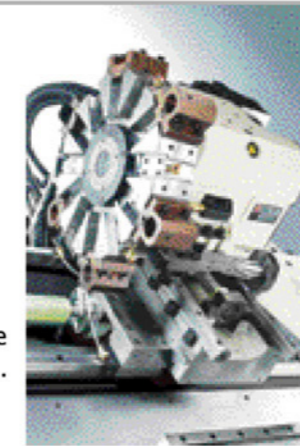
## 最大加工範圍 Max. Processing Range



## 精密油壓刀塔 Hydraulic Turret

12支刀凸輪式油壓刀塔，精確快速換刀定位時間0.3秒，換刀精度高。

12-tool cam type hydraulic turret with accurate speedy tool change within 0.3 seconds.



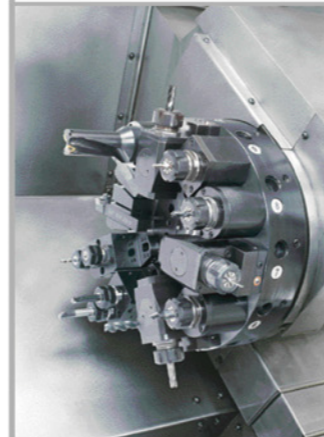
## 可程式尾座 Tailstock

以無心軸尾座設計，避免心軸配合誤差，並以程式控制尾座移動配合加工操作，簡化操作，使用MT-4頂心，亦可搭配其他不同形式頂心。

Completely programmable tailstock with MT-4 Morse Taper. The front-mounted, easy-view pressure gauge is easily adjusted through a hinged access door. Large variety of centers available.



## 動力刀塔 Power Turret (Sp. Optional)



使用12支刀動力刀塔配合C軸運作，並搭配軸、徑向動力刀具座可於程式控制下，同時完成削銑、鑄孔、鉗孔、攻牙等功能，提升車、銑複合機能。

12-station turret mounted on the programmable C axis and servo driven, powered tools for milling, boring, drilling and tapping.

## 外型尺寸圖 Machine Dimensions

