



## Powerful Flat Bed CNC Lathes

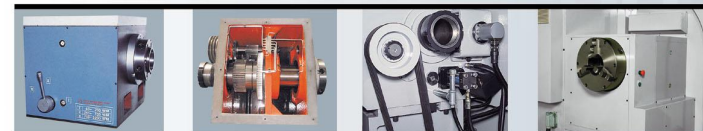
## 強力平床式 CNC 車床

- The bed is adopted hi-rigidity rib structure design & coupled with hi-tensile meehanite castiron which is annealed treatment to eliminate internal residual stress, the bed way is high frequency heat treated, precision ground etc.,
- Three-point support on the spindle and inspected by dynamic balancing, the spindle gear is module 3 & wide, this is very suitable to do heavy duty cutting and being with 3-step speed shifting. Especially, that can output by full power even as the spindle speed at low gear, large cutting force.
- The carriage is coated with Turcite-B which provides low friction & vibration and ensure smooth movement & accuracy.
- Adopted central lubricating system which can be lubricated slide way & ball screw. The headstock is adopted forced lubricating & oil bathed combined.
- Manual tailstock coupled with 1:1 & 1/4:1 feed shifting.
- The visual window of sliding safety door is adopted the reinforced glass at inner layer and the out layer is polycarbonate, this device can be protected the failed workpieces and be hi-safety.

- 本機為強力型精密CNC車床，床身採高剛性之肋骨結構，配合米漢納鑄鐵鑄造，經退火處理，以消除殘留內應力，並經高週波熱處理及精密研磨等。
- 主軸箱為三點支撐設計，並經力學平衡校正。齒輪為模數3，齒寬大，適合重切削並有三段變速，主軸轉速於低檔時，仍可以全馬力輸出，切削力強大。
- 床鞍則選用Turcite-B 具低摩擦及減震，進行平穩、滑順，以確保機台精度。
- 採中央給油潤滑系統方式，能自動潤滑滑動面及滾珠螺桿，主軸箱潤滑系統則採用泵浦強制給油方式。
- 手動式尾座，配有1:1及1/4:1進給變換。
- 活動門之視窗採內層為強化玻璃，外層為PC，以防止工作物飛出，安全性高。



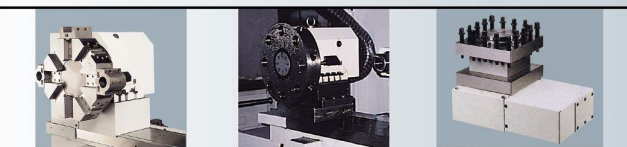
- Providing two electronic manual control handwheels for X,Z axis where it's mounted on the moveable control pendent. (Opt.)



■ Headstock manual speed shifting / 主軸箱手動變速  
 ■ Headstock / 主軸箱  
 ■ Headstock hyd. auto. speed shifting / 主軸箱油壓自動變速  
 ■ Rear spindle support chuck / 主軸後端支撐夾頭



■ Manual tailstock / 手動式尾座  
 ■ Follow rest / 跟刀架  
 ■ Steady rest / 中心架



■ V8 turret / V8刀塔  
 ■ VDI turret / VDI 刀塔  
 ■ Four-way tool post / 四方刀座



■ Driven tool system / 動力刀塔  
 ■ V8 turret with drill tool holder / V8刀塔+鉗孔刀座  
 ■ Twin turret / 雙刀塔

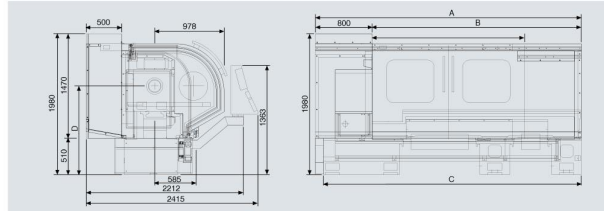
**SPECIFICATIONS 規格**

Item 項目	Model 型式	Unit 單位	DL-600	DL-720	DLB-800
<b>Working Capacity 作業能力</b>					
Swing over bed 床台旋徑	mm		610	720	800
Swing over cross slide 橫滑台旋徑	mm		360	460	540
Swing over gap 切口旋徑	mm		790	900	980
Dist. between centers 兩心間距離	mm		1100 / 1600 / 2100 / 3100 / 4100	1100 / 1600 / 2100 / 3100 / 4100	1100 / 1600 / 2100 / 3100 / 4100
Width of bed 床面寬度	mm		410		
<b>Headstock 主軸箱</b>					
Spindle bore 主軸孔徑	mm		φ83 / φ105 / φ130 / φ160	φ160	φ255
Spindle nose 主軸鼻端			A2-8 or D1-8 / A2-11 or D1-11	A2-11	A2-15
Range of spindle speed 主軸轉速	rpm		40~2000 / 40~1500	40~1000	30~850
No. of spindle speed 主軸段數			3		
<b>Carriage 床鞍</b>					
Cross travel (X axis) X軸行程	mm		450		
Longitudinal travel (Z axis) Z軸行程	mm		975 / 1475 / 1975 / 2975 / 3775 / 4775 / 5775	975 / 1475 / 1975 / 2975 / 3775	975 / 1475 / 1975 / 2975 / 3775
AC servo motor 伺服馬達	kW		X: 1 Z: 2	X: 2 Z: 4	
Rapid feed 快速進給	m/min		X: 7 Z: 10	X: 7 Z: 8	X: 7 Z: 10 / X: 7 Z: 8
Range of feed 進給範圍	mm / rev.		X / Z : 0.001~500		
<b>Turret 刀塔</b>					
No. of tools 刀具數			H4 / V8		
Tool size 刀具尺寸	mm		□25		
<b>Tailstock 尾座</b>					
Quill dia. 心軸直徑	mm		φ80 / φ105 (Opt.)		φ105
Quill stroke 心軸行程	mm		180		
Tailstock taper 頂心角度			MT#5		
<b>Motor 馬達</b>					
Main spindle motor 主軸馬達	HP		20 / 25 (Opt.)		30 / 40 (Opt.)
Coolant pump motor 冷卻泵馬達	HP		1 / 4		
Lubricating pump 潤滑泵馬達	HP		1 / 16		
<b>Ball Screw 滾珠螺桿</b>					
X axis X軸			φ25 x 5 x C5		
Z axis Z軸			φ50 x 10 x C5		
<b>Controller 控制系統</b>					
Compatible model 匹配機種			FANUC / MITSUBISHI / FAGOR / SIEMENS / SYNTEC		
Controllable axis 控制軸數			2		

\* All specification and designs are subjected to change without notice.  
\* 本公司保有變更設計之權利，如有更改或改進規格時不另行通知，但不影響所售之機械品質。

Standard Accessories 標準附件	Optional Accessories 特別附件
1. FANUC Oi-T 8.4" LCD 彩色螢幕	1. 10"、12"、16" 3-jaw scroll chuck 三爪普通型
2. V8 turret 彩色螢幕	2. 10"、12"、15"、18" Hyd. chuck 油壓夾頭
3. Cooling device 2. V8刀塔	3. 16"、20"、26" Manual 4-jaw independent chuck 手動四爪夾頭
4. Coolant device 3. 冷卻裝置	4. 油壓主軸頭自動變速
5. Manual triple vari-speed headstock 4. 潤滑系統	5. 油壓式尾座心軸
6. Manual two-step tailstock headstock 5. 主軸頭手動三段變速	6. 四方水平自動刀塔
7. Full splash guard 6. 手動式兩段尾座	7. 擴孔刀座
8. Work lighting 8. 工作燈	8. 龍承式中心架
9. Center sleeve & centers 9. 頂心套筒及頂針	9. (40~270mm) · (150~380 mm)
10. Tools & tool box 10. 工具箱及工具	9. Brass follow rest (30~140mm)
	10. Chip conveyor
	11. V8 driven tool system (not include tool holder)
	12. Cs axis function
	13. Rear spindle support chuck
	14. CE/CSA approval specification
	15. Transformer
	16. The independent manual control handwheel for X, Z axis.

**DIMENSIONS 尺寸圖**



Size 尺寸	Model 型式	DL x 1100	DL x 1600	DL x 2100	DL x 3100	DL x 4100
A	mm	2840	3340	3840	4840	5840
B	mm	2040	2540	3040	4040	5040
C	mm	2630	3130	3630	4630	5630
D	600 mm	1190				
	720 mm	1245				
Occupied floor 佔地面積	mm	4690 x 3600	5190 x 3600	5690 x 3600	6690 x 3600	7690 x 3600
Net weight 機械淨重	600 kgs	4700	4900	5500	6100	6900
	720 kgs	4900	5100	5700	6300	7100

**系列產品 PRODUCT SERIES**



■ HEAVY DUTY PRECISION LATHE 重切削精密強力車床  
EL-5100 x1100 / 1600 / 2100 / 3100 / 4100 / 5100  
Bore (孔徑): φ83mm, φ105 mm

■ CNC Screw Cutting Machine 電腦螺桿切削專用機  
LM-1500 / 2000 / 3000 / 4000 / 5000

■ BTA DEEP HOLE DRILLING MACHINE 深孔鑽孔加工機  
ELA-2000 / 3000 / 4000 / 5000 / 6000, Boring Capacity: φ30~200 mm

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CE ISO 9001



Powerful & Precision CNC Lathes

CNC LATHE MACHINE

DL Series



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