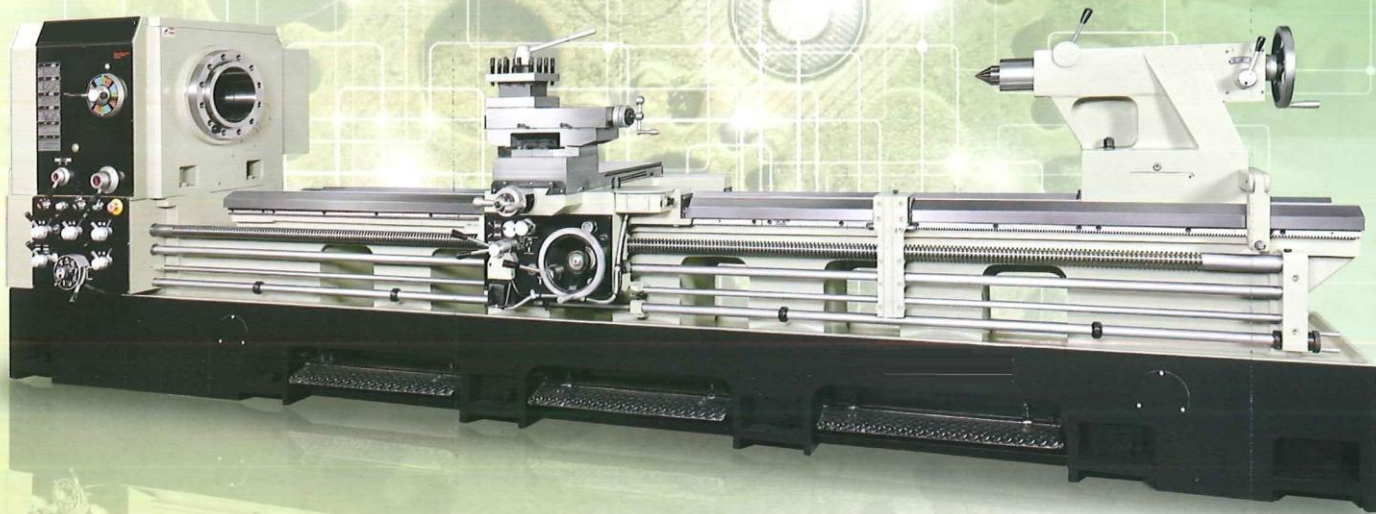


**MORTON.**



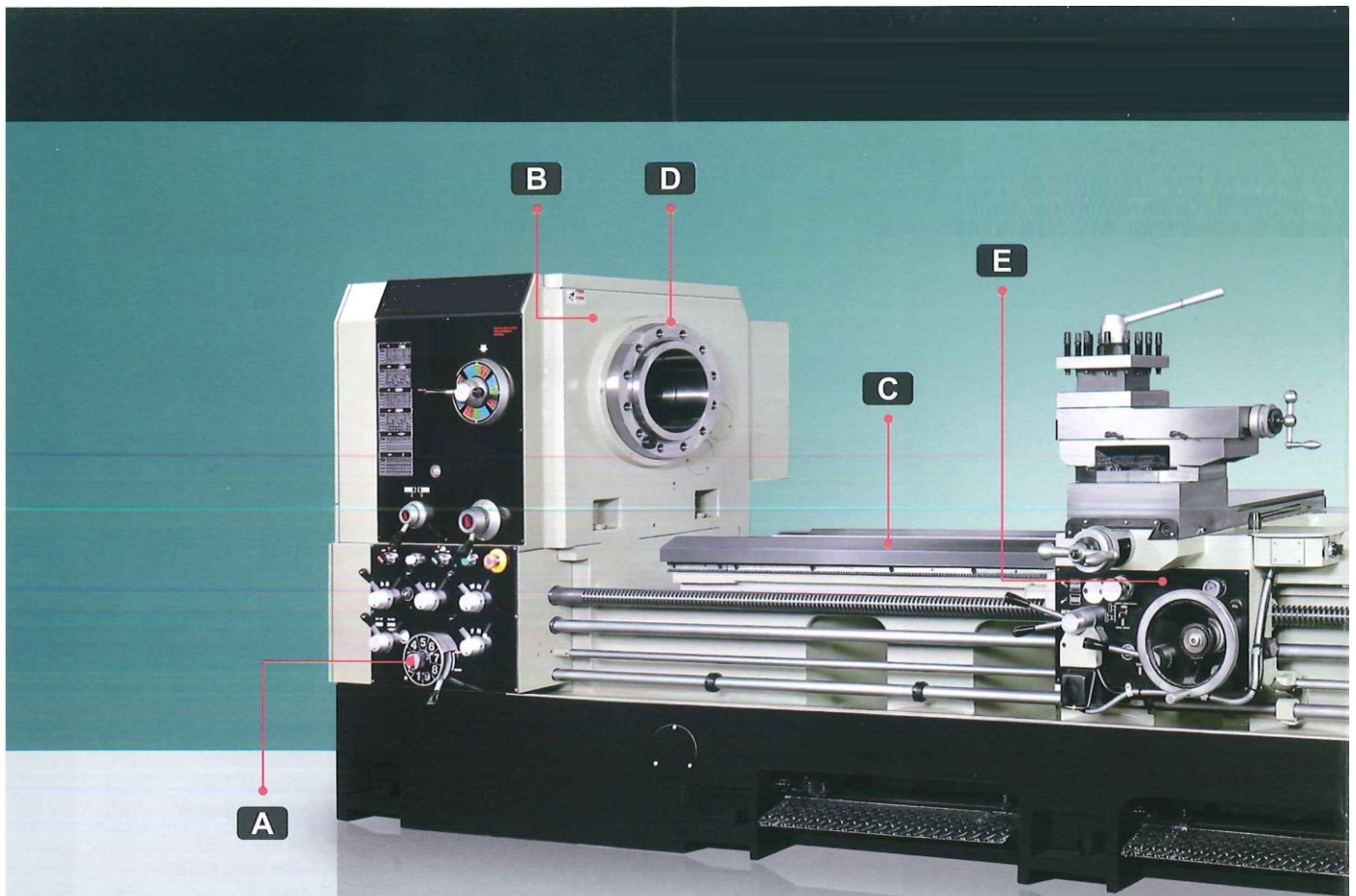
**CNC**  
MACHINERY SALES AUSTRALIA



**重切削強力精密車床**

**HEAVY DUTY PRECISION LATHE**

**SERIES** FEL-3200P/FEL-3600P/FEL-4000P



## FEATURES

### GEAR BOX **A**

- All standard thread pitches can be obtained without changing the gears including.
- Metric threads.
- inch threads.
- Module pitches.
- Diametral pitches.

### MAIN SPINDLE **D**

- Large diameter spindle for heavy cutting. Big bore through spindle 105mm, 153mm(OPT), 230mm(OPT.)
- The main spindle is forging as whole-body and sustained by precision bearings.
- Double spindle nose to choose.

### EMERGENCY BRAKE **H**

- Emergency brake pedal with electromagnetic brake can be used for cutting the power and stopping the machine immediately and safe fast precise operation.

### HEADSTOCK **B**

- All gears and splines are made by steel alloys with hardened and precision ground.
- Dial rotary system for quick and easy speed changes.

### APRON AND CARRIAGE **E**

- Full range, Four-way rapid traverse drive for longitudinal-cross feeding and forward & reverse feed are operating very light and convenience.
- Longer, wider slide and carriage for stronger heavy cutting.
- Readily adjustable overload safety device.
- Manual and automatic dual lubrication for slide surface.

### CENTER DISTANCE **I**

- Distance between center 300mm longer. could cut exact longer workpiece.

### BED **C**

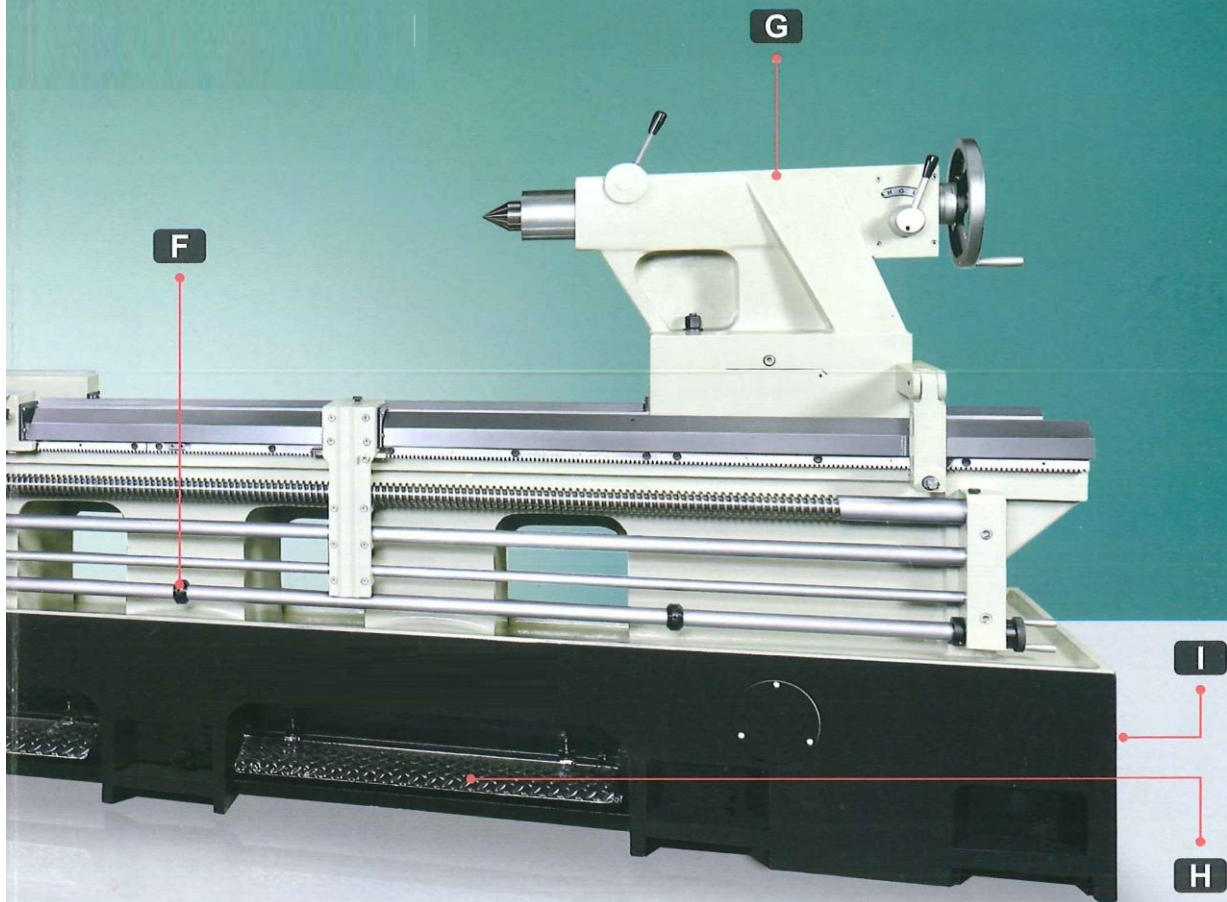
- Heavily ribbed wide bed with induction hardened and precision ground ways.
- Design of the bed can quickly clean up iron filings.
- One piece structure lathe bed enhances the machine life and working performance.

### AUTOMATIC STOPPER **F**

- Automatic stopper for longitudinal feeds.

### TAILSTOCK **G**

- High tensile structure, suitable for heavy workpieces.
- Reduction gearing for convenience in drilling (1/4). Quill with metric and inch graduation.



## 主要功能

### 齒輪箱

**A**

- 全能車製螺紋機構，任意車製。
- 公制螺紋、英制螺紋、模數螺紋、徑節螺紋、不須變換齒輪。

### 主軸箱

**B**

- 全部齒輪及槽軸都用合金鋼製成經滲碳熱處理及精密研磨。
- 旋轉式變速機構操作簡單。

### 床身

**C**

- 高剛性之筋骨結構。
- 高精度寬大床面，精淬火並研磨。
- 床體設計、鐵屑容易清理。
- 一體成形、落地底座、適合重型工件加工、並延長使用年限。

### 主軸

**D**

- 超大直徑主軸主軸孔徑105mm、153mm (OPT.)、230mm (OPT.)
- 主軸為整體鍛造加工而成，並由精密軸承支持。
- 有雙鼻端主軸可供選擇。

### 床護與鞍座

**E**

- 全系列四向快速移動裝置及正逆向自動進刀，操作輕鬆又方便。
- 滑座與床鞍加長加寬，更適合重切削。
- 調整容易的超負荷安全裝置。
- 配有潤滑油手動和自動雙重潤滑給油系統。

### 自動停止裝置

**F**

- 自動縱進刀的進刀距離自動停止控制可調整任意進刀距離。

### 尾座

**G**

- 高剛性結構適合重型工件加工。
- 為強壓力鑽孔作業操作之減速裝置(1/4)，公制、英制刻度心軸。

### 緊急剎車

**H**

- 腳剎車裝置，搭配電磁式剎車器能直接切斷電源，操作更迅速確實。

### 兩頂心距離

**I**

- 全系列兩頂心多300mm、可實際車削更長工件。

# 重切削強力精密車床 規格表

## HEAVY DUTY PRECISION LATHE SPECIFICATION

### 項目 ITEM

FEL-3200P

FEL-3600P

FEL-4000P

機種 MODEL	3250	32170	3650	36170	4050	40170				
	3270	32210	3670	36210	4070	40210				
	3290	32250	3690	36250	4090	40250				
	32110	32290	36110	36290	40110	40290				
	32130	32330	36130	36330	40130	40330				
<b>工作範圍 CAPACITY</b>										
床面上最大旋徑 Swing Over Bed	830mm (32")		930mm (36")		1030mm (40")					
橫送台上最大旋徑 Swing Over Cross Slide	600mm (23.5")		700mm (27.5")		800mm (31.5")					
凹口上最大旋徑 Swing in Gap	1120mm (44")		1220mm (48")		1320mm (52")					
凹口工作物長度 Width of Gap	304mm (12")									
兩心間距離 Distance Between Centers	1230mm(47")	1730mm(67")	2230mm(87")	2730mm(107")	3230mm(127")	4230mm(167")				
	5230mm(207")	6230mm(247")	7230mm(287")	8230mm(327")						
<b>主軸箱 HEADSTOCK</b>										
主軸孔端 Spindle Bore	105mm (4"), 153mm (6") (OPT)			230mm (9") (OPT)						
主軸鼻端 Spindle Nose	A2-8, A2-11, D1-11 (OPT)			A2-15 (OPT)						
主軸變速範圍 Range of Spindle Speeds	15-1000RPM, 10-700RPM			12-600RPM, 8-400RPM						
中心針斜度(莫氏) Taper of Center	M. T. NO. 5, M. T. NO. 6 (OPT)									
主軸變換段數 Number of Spindle Speeds	12Changes									
<b>進給與車牙 FEEDS &amp; THREADS CUTTING</b>										
縱向進刀量範圍 Longitudinal Feeds	0.05-0.7mm/rev									
橫向進刀量範圍 Cross Feeds	0.025-0.35mm/rev									
快速移動 Rapid Traver Z/X Axis	Z Axis=3.7M/min, Y Axis=1.8M/min									
英制螺紋(徑節螺紋) Inch Threads	2-28Thread/in, (D.P. 4-56)									
公制螺紋(模數螺紋) Metric Threads	0.8-14mm/Thread, (M.P. 0.5-7)									
導螺桿直徑及螺距 Leadscrew	45mm (1 3/4") × 2T.P.I., P12mm (OPT)									
<b>滑座 CARRIAGE</b>										
橫送台移動範圍 Cross Slide Travel	475mm (18.5")			525mm (20.5")						
複式刀座移動範圍 Compound Rest Travel	230mm (9")									
<b>尾座 TAILSTOCK</b>										
心軸直徑 Quill Diameter	φ 105									
心軸行程 Quill Travel	260mm (10")									
頂心斜度 Taper of Quill Center	M. T. NO. 6									
<b>床體 BED</b>										
床面寬度 Width of Bed	510mm (20")									
主馬達 Main Motor	15HP, 20HP, 25HP (OPT)									
床身長度的單位 Length of Bed CM	50	70	90	110	130	170	210	250	290	330
	293	343	393	443	493	593	693	793	893	993
裝箱尺寸(約)的單位 Packing Size CM (L×W×H)	320	370	420	470	520	620	720	820	920	1020
	寬 W 170 高 H 200									
重量(約)的單位 Weight (Approx) KG (淨重/NW)	5200	5600	6000	6400	6800	7600	8400	9200	10000	10800

### 標準附件

#### STANDARD

- 連結板 1個
- 心軸套筒 1個
- 中心針 2支
- 刀架螺絲把手 1個
- 工具箱 1個
- 四爪夾頭 20" 1個
- 中心架 1個
- 四向快速移動裝置 1組
- 電磁煞車 1個
- Back Plate 1PC
- Center Sleeve 1PC
- Center (M.T.5#) 2PCS
- Tool Post Wrench 1PC
- Tool Box & Tool 1PC
- 4-Jaw Independent Chuck 20" 1PC
- Steady Rest 1PC
- 4-Way Rapid Traverse Device 1SET
- Electromagnetic brake 1PC

### 特別附件

#### OPTION ACCESSORIES

- 三爪夾頭 16" 1個
- 面盤 32" 1個
- 冷卻泵浦 1組
- 斜度裝置 1組
- 跟刀架 1個
- 3-Jaw Scroll Chuck 16" 1PC
- Face Plate 32" 1PC
- Coolant Pump 1SET
- Taper Attachment 1SET
- Follow Rest 1PC