

# WinHO

WIN HO Technology Industrial Co.,LTD.

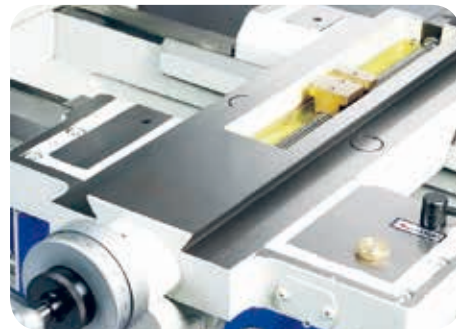
High Speed Precision Lathe  
Inverter Transmission Lathe



# H igh Speed Precision Lathe

## Characteristics

1. Selective bed width:  
S series: 300mm.  
M series: 350mm.  
L series: 400mm.
2. Varied spindle bore diameters:  
S series: Ø58mm / Ø80mm (Option).  
M series: Ø85mm / Ø105mm (Option).  
L series: Ø85mm / Ø120mm (Option).
3. With FAG or SKF precision bearings installed on spindle, maximum cutting depth can be 8mm on 50mm diameter and best roundness 0.003mm (200mm long).
4. Equipped with plastic rear gears, shafts and gears inside headstock are well protected if crash should occur (S430 & S480 Series).
5. Thermal treated and precision ground alloy gears.
6. Universal gearbox for both imperial and metric thread-conversion table also attached.
7. Tracks of cross slide and bed are well lubricated with lubrication pump (manual).
8. Overload device to ensure safety when operating.
9. Wear-resistant phosphor bronze lead screw nuts.
10. Durable reservoir oil bath type cross slide (for S series).
11. Thermal treated Meehanite bed casting.
12. One-piece base for high rigidity and low vibration.
13. High-capacity coolant tank offers sufficient coolant output.
14. All series certified for CE. **CE**



Reservoir Oil Bath Type Cross Slide  
(S series)



# S series (Bed width: 300mm)

## SPECIFICATIONS

Specifications	Model	S430 Series	S480 Series	S530 Series	M560 Series	M660 Series
		S1722,S1730,S1740, S1760,S1790	S1922,S1930,S1940, S1960,S1990	S2122,S2130,S2140, S2160,S2190	M2240,M2260 M2290	M2640,M2660 M2690
Swing Over Bed		430 mm (17")	470 mm (18-1/2")	520 mm (20-1/2")	560 mm (22")	660 mm (26")
Swing Over Cross Slide		240 mm (9-1/2")	280 mm (11")	330 mm (13")	340 mm (13-1/3")	440 mm (17-1/3")
Center Height		215mm(8-1/2")	235mm(9-1/4")	260mm(10-1/4")	280mm(11")	330mm(13")
Center Distance (mm)		560,760,1000,1500,2200 (22°,30°,40°,60°,90°)	560,760,1000,1500,2200 (22°,30°,40°,60°,90°)	560,760,1000,1500,2200 (22°,30°,40°,60°,90°)	1000,1500,2200 (40°, 60°,90°)	1000,1500,2200 (40°, 60°,90°)
Swing Over Gap		650 mm (25-1/2")	690 mm (27-1/8")	740 mm (29-1/8")	788 mm (31")	890 mm (35")
Bed Width		300 mm (11-4/5")			350 mm (13-3/4")	
Spindle Nose		ASA D1 - 6 / D1 - 8 (Opt.)			ASA D1 - 8	
Spindle Bore		58 mm (2-1/4") / 80 mm (3") (Opt.)		80 mm (3")	85 mm (3-1/3")/105mm (4") (Opt.)	
Taper of Spindle Bore		MT 6 / MT 7 (Opt.)			MT 7	
Spindle Speed		20~2000 rpm (12 steps)-spindle bore:58mm/ 40~2000 rpm (12 steps)-spindle bore:80mm			15~1500 rpm /14~1380rpm (12 steps)	
Inch Threads Range		4~56 TPI			2~56 TPI	
Metric Threads Range		P0.5~P7			P0.5~P14	
Longitudinal Feeds Range		0.05~0.82 mm (0.002~0.032")			0.05~0.82 mm (0.002~0.032")	
Cross Feeds Range		0.02~0.4 mm (0.001~0.0094")			0.02~0.4 mm (0.001~0.0094")	
Leadscrew Diameter		35 mm (1-1/3")			38 mm (1-1/2")	
Leadscrew Pitch		4 TPI or 6 mm			4 TPI or 6 mm	
Taper of Tail Center		MT 4			MT 5	
Tail Spindle Travel		150 mm (5-7/8")			190 mm (7-1/2")	
Tail Spindle Diameter		58 mm (2-1/4")	68 mm (2-2/3")		75 mm (2-7/8")	
Main Drive Motor		5HP (3.75KW) / 7.5HP (5.625KW. Opt.)	7.5HP (5.625KW) / 10HP (7.5KW. Opt.)		7.5HP (5.625KW) / 10HP (7.5KW. Opt.)	
Coolant Pump		1/8HP (0.1 KW)			1/8HP (0.1 KW)	
Compound Rest Travel		125 mm (4-7/8")			200 mm (7-7/8")	
Cross Slide Travel		250 mm (9-2/3")		275 mm (10-4/5")	350 mm (13")	
Machine Dimensions (cm)		L : 165,189,215,265,342 W : 81 H : 119	L : 165,189,215,265,342 W : 81 H : 122	L : 165,189,215,265,342 W : 81 H : 125	L : 229,278,353 W : 99 H : 125	L : 229,278,353 W : 99 H : 130
Packing Dimensions (cm)		L : 182,200,228,279,355 W : 95 H : 168	L : 182,200,228,279,355 W : 95 H : 168	L : 182,200,228,279,355 W : 95 H : 168	L : 243,294,367 W : 115 H : 193	L : 243,294,367 W : 115 H : 193
Net Weight (Kgs)		1300, 1380,1450, 1600,2000	1350,1430,1500, 1650,2050	1400,1480,1550, 1700,2100	2000,2200,2600	2050,2250,2650
Gross Weight (Kgs)		1400,1480,1570, 1730,2170	1450,1530,1620, 1780,2220	1500,1580,1670, 1830,2270	2150,2370,2800	2200,2420,2850

\*All specifications above are subject to change without notice.

### STANDARD ACCESSORIES

- Tool Box 1 pc
- Centers 2 pcs
- Safety pin 1 pc
- Screw wrench for cutter setting 1 pc
- Back plate 1 pc
- Coolant system 1 set
- 4-way tool post 1 set
- Auto-feed stopper ring 1 set
- Center sleeve 1 pc
- Levelling pads 1 set

### OPTIONAL ACCESSORIES

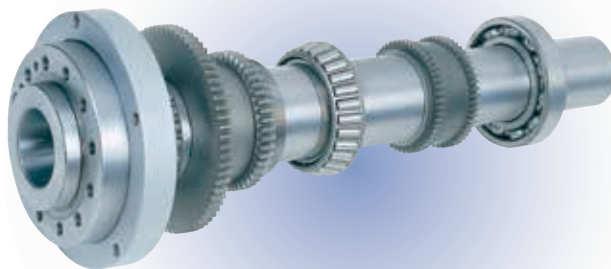
- 3-jaw scroll chuck
- 4-jaw independent chuck
- Face plate
- Steady rest
- Follow rest
- Work light
- 4-position carriage stop
- Micro carriage stop
- Live centers
- Rear cutter rest
- Taper turning attachment
- Rear splash guard
- Chuck guard
- American tool post
- Change gears for D.P and module thread
- 5C lever collet closer
- Driving plate
- Quick change tool post
- Digital readout
- Hydraulic copying machine
- Chip guard
- ID/OD Grinder
- Rapid Traverse(L series)

# L series (Bed width: 400mm)

## SPECIFICATIONS

Specifications	Model	L560 Series	L660 Series	L760 Series	L830 Series
		L2240,L2260,L2280 L22100,L22120,L22160	L2640,L2660,L2680 L26100,L26120,L26160	L3040,L3060,L3080 L30100,L30120,L30160	L3340,L3360,L3380 L33100,L33120,L33160
Swing Over Bed		560 mm (22")	660 mm (26")	760 mm (30")	830 mm (33")
Swing Over Cross Slide		340 mm (13-1/3")	440 mm (17-1/3")	540 mm (21-1/4")	610 mm (24")
Center Height		280mm (11")	330mm (13")	380 mm (15")	415 mm (16")
Center Distance (mm)		1000,1500,2000,2500,3300,4300 (40",60",80",100",132",172")			
Swing Over Gap		788 mm (31")	890 mm (35")	990 mm (39")	1060 mm (42")
Bed Width		400 mm (15-3/4")			
Spindle Nose		ASA D1 - 8 / D1 - 11 (Opt.)		ASA D1 - 11	
Spindle Bore		85 mm (3-1/3") / 120 mm (4-1/2") (Opt.)		120 mm (4-1/2")	
Taper of Spindle Bore		MT 7			
Spindle Speed		15~1500 rpm (12 steps) - spindle bore:85mm / 10~1000 rpm (12 steps) - spindle bore:120mm			
Inch Threads Range		2~56TPI			
Metric Threads Range		P0.5~14			
Longitudinal Feeds Range		0.05~0.82 mm (0.002"~0.032")			
Cross Feeds Range		0.02~0.4 mm (0.001"~0.0094")			
Leadscrew Diameter		38 mm (1-1/2")			
Leadscrew Pitch		4 TPI or 6mm			
Taper of Tail Center		MT 5			
Tail Spindle Travel		190 mm (7-1/2")			
Tail Spindle Diameter		85 mm (3-1/3")			
Main Drive Motor		10HP (7.5 KW) / 15HP/6P (11 KW,Opt.)		15HP/6P (11 KW)	
Coolant Pump		1/8HP (0.1 KW)			
Compound Rest Travel		200 mm (8")			
Cross Slide Travel		375 mm (14-3/4")		450 mm (17-3/4")	
Machine Dimensions (cm)		L: 238,290,347, 398,473,555 W: 103 H: 126	L: 238,290,347, 398,473,555 W: 103 H: 131	L: 238,290,347, 398,473,555 W: 103 H: 137	L: 238,290,347, 398,473,555 W: 103 H: 141
Packing Dimensions (cm)		L: 270,315,361, 410,485,588 W: 115 H: 196	L: 270,315,361, 410,485,588 W: 115 H: 196	L: 270,315,361, 410,485,588 W: 115 H: 196	L: 270,315,361, 410,485,588 W: 115 H: 196
Net Weight		2120,2420,2770, 3120,3520,4420	2200,2500,2850, 3200,3600,4500	2300,2600,2950 3300,3700,4600	2400,2700,3050, 3400,3800,4700
Gross Weight		2260,2590,2970, 3350,3820,4820	2340,2670,3050, 3430,3900,4900	2440,2770,3150, 3530,4000,5000	2540,2870,3250, 3630,4100,5100

\*All specifications above are subject to change without notice.



Bearings on the spindle are imported from Germany.  
Varied spindle bore diameters :

- S series : Ø58mm & Ø80mm(Opt.)
- M series : Ø85mm & Ø105mm(Opt.)
- L series : Ø85mm & Ø120mm(Opt.)

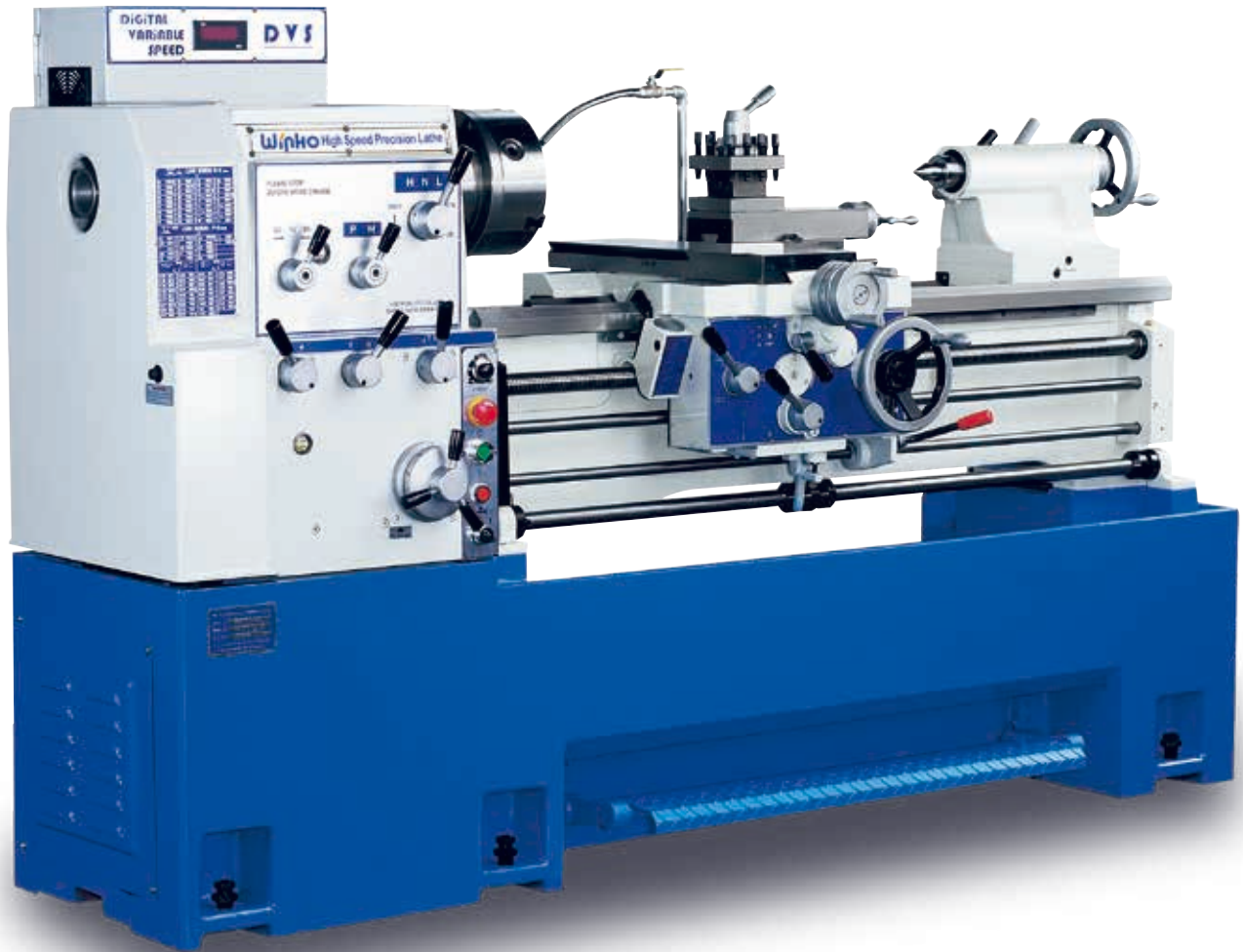
Plastic gear on the rear side of headstock.  
(For S430 & S480 Series)(Optional Accessories)





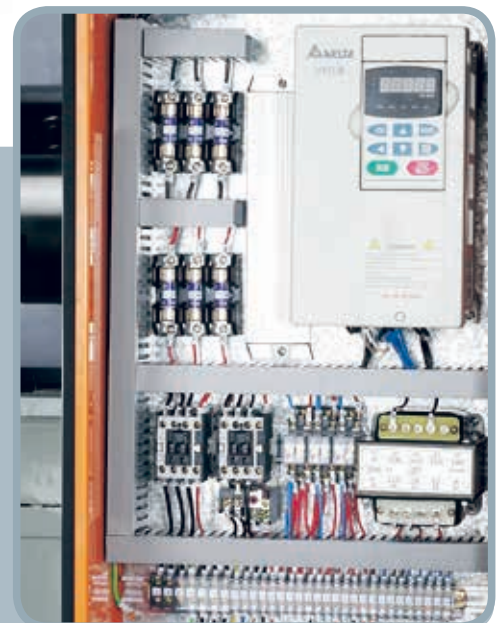
V series

## Inverter Transmission Lathe



### Characteristics

1. Power-saving, stable electric current, and fine cutting trace.
2. Being controlled by a rotary switch, gear shifting is simplified.
3. Stepless speed shifting, any speed in the range is available.
4. Cutting depth reaches 8mm(at 1000rpm).



# V series (Inverter Transmission Lathe)

(Bed width: 300mm)

## SPECIFICATIONS

Specifications	Model	V430 Series	V480 Series	V530 Series
		V1722,V1730,V1740,V1760,V1790	V1922,V1930,V1940,V1960,V1990	V2122,V2130,V2140,V2160,V2190
Swing Over Bed		430 mm (17")	470 mm (18-1/2")	520 mm (20-1/2")
Swing Over Cross Slide		240 mm (9-1/2")	280 mm (11")	330 mm (13")
Center Height		215mm(8-1/2")	235mm(9-1/4")	260mm(10-1/4")
Center Distance (mm)		560,760,1000,1500,2200 (22°,30°,40°,60°,90°)	560,760,1000,1500,2200 (22°,30°,40°,60°,90°)	560,760,1000,1500,2200 (22°,30°,40°,60°,90°)
Swing Over Gap		650 mm (25-1/2")	690 mm (27-1/8")	740 mm (29-1/8")
Bed Width		300 mm (11-4/5")		
Spindle Nose		ASA D1 - 6 / D1 - 8 (Opt.)		ASA D1 - 8
Spindle Bore		58 mm (2-1/4") / 80 mm (3") (Opt.)		80 mm (3")
Taper of Spindle Bore		MT 6 / MT 7 (Opt.)		
Spindle Speed		20~2000 rpm (stepless)		
Inch Threads Range		4~56 TPI		
Metric Threads Range		P0.5~P7		
Longitudinal Feeds Range		0.05~0.82 mm (0.002~0.032")		
Cross Feeds Range		0.02~0.4 mm (0.001~0.0094")		
Leadscrew Diameter		35 mm (1-1/3")		
Leadscrew Pitch		4 TPI or 6 mm		
Taper of Tail Center		MT 4		
Tail Spindle Travel		150 mm (5-7/8")		
Tail Spindle Diameter		58 mm (2-1/4")	68 mm (2-2/3")	
Main Drive Motor		7.5HP (5.625KW)		
Coolant Pump		1/8HP (0.1 KW)		
Compound Rest Travel		125 mm (4-7/8")		
Cross Slide Travel		250 mm (9-2/3")		275 mm (10-4/5")
Machine Dimensions (cm)		L : 165,189,215,265,342 W : 81 H : 119	L : 165,189,215,265,342 W : 81 H : 122	L : 165,189,215,265,342 W : 81 H : 125
Packing Dimensions (cm)		L : 182,200,228,279,355 W : 95 H : 168	L : 182,200,228,279,355 W : 95 H : 168	L : 182,200,228,279,355 W : 95 H : 168
Net Weight (Kgs)		1300,1380,1450,1600,2000	1350,1430,1500,1650,2050	1400,1480,1550,1700,2100
Gross Weight (Kgs)		1400,1480,1570,1730,2170	1450,1530,1620,1780,2220	1500,1580,1670,1830,2270

\*All specifications above are subject to change without notice.

### STANDARD ACCESSORIES

■ Tool Box	1 pc
■ Centers	2 pcs
■ Safety pin	1 pc
■ Screw wrench for cutter setting	1 pc
■ Back plate	1 pc
■ Coolant system	1 set
■ 4-way tool post	1 set
■ Auto-feed stopper ring	1 set
■ Center sleeve	1 pc
■ Levelling pads	1 set

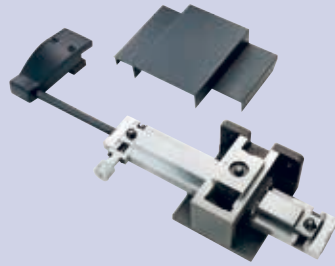
### OPTIONAL ACCESSORIES

■ 3-jaw scroll chuck	■ Chuck guard
■ 4-jaw independent chuck	■ American tool post
■ Face plate	■ Change gears for D.P and module thread
■ Steady rest	■ 5C lever collet closer
■ Follow rest	■ Driving plate
■ Work light	■ Quick change tool post
■ 4-position carriage stop	■ Digital readout
■ Micro carriage stop	■ Hydraulic copying machine
■ Live centers	■ Chip guard
■ Rear cutter rest	■ ID/OD Grinder
■ Taper turning attachment	
■ Rear splash guard	

## OPTIONAL ACCESSORIES



■ Change Gears for D.P. and Module Thread



■ Taper Turning Attachment



■ Steady Rest



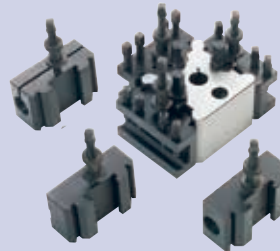
■ Follow Rest



■ Chip Guard



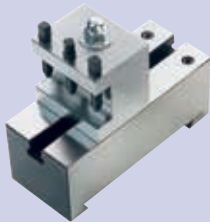
■ Chuck Guard



■ Quick Change Tool Post



■ American Tool Post



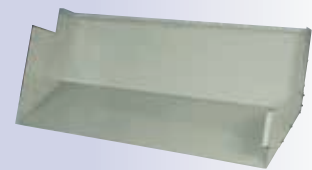
■ Rear Cutter Rest



■ 4-position Carriage Stop



■ Micro Carriage Stop



■ Rear Splash Guard



■ Work Light



■ 5C Lever Collet Closer



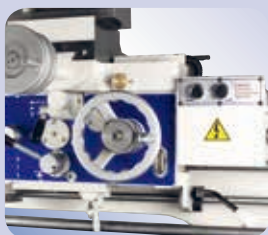
■ Live Center with Replaceable Inserts



■ Face Plate



■ Driving Plate



■ Rapid Traverse



■ Hydraulic Copying Machine



■ Digital Readout



■ ID/OD Grinder

# WinHo

WIN HO Technology Industrial Co.,LTD.  
威赫科技工業股份有限公司

Heavy Duty Precision Lathe  
重切削強力精密車床





# X HEAVY DUTY PRECISION LATHE

ITEM	項目	X-33			X-37			X-41		
Model	機種	X-3370	X-3390	X-33130	X-33170	X-33210	X-33250	X-33290	X-33330	
		X-3770	X-3790	X-37130	X-37170	X-37210	X-37250	X-37290	X-37330	
		X-4170	X-4190	X-41130	X-41170	X-41210	X-41250	X-41290	X-41330	
Swing Over Bed	床面上最大旋徑	860 mm (33-1/2")			960 mm (38")			1060 mm (42")		
Swing Over Cross Slide	橫送台上最大旋徑	625 mm (24-3/4")			725 mm (28-1/2")			825 mm (32-1/2")		
Swing Over Gap	凹口上最大旋徑	1180 mm (46-1/2")			1280 mm (50")			1370 mm (54")		
Width of Gap	凹口工作寬度	475 mm (19")								
Center Distance (mm)	兩心間距離 (mm)	1810(72")	2310(92")	3310(132")	4310(172")	5310(212")	6310(252")	7310(292")	8310(332")	
Max. Length for Workpiece	加工件最大長度	1650	2150	3150	4150	5150	6150	7150	8150	
Spindle Bore	主軸孔徑	153 mm (6") / 230 mm (9") (OPT.)								
Spindle Nose	主軸鼻端	A2-11 / A2-15 (OPT.)								
Taper of Spindle Bore	主軸通孔錐度	MT7# / 1/20(OPT.)								
Spindle Speed	主軸轉速範圍	8-680 rpm / 6-500 rpm								
Spindle Speed	主軸變換段速	12 Steps/ 段								
Spindle Center To Ground	主軸中心至地面高度	1178			1228			1278		
Longitudinal Feeds Range	縱向進刀量範圍	0.05 ~ 0.7 mm/rev								
Cross Feeds Range	橫向進刀量範圍	0.025 ~ 0.35 mm/rev								
Rapid Traverse Z/X Axis	快速移動	Z Axis = 3.7 M/min / X Axis = 1.8 M/min								
Inch Threads Range	英製螺紋	2 ~ 28牙 / in (D.P. 4-56)								
Metric Threads Range	公製螺紋	0.8 ~ 14 mm (M.P. 0.5-7)								
Leadscrew pitch	導螺桿直徑	ø45 x 2 TPI / P12 mm (OPT.)								
Cross slide Travel	橫送台移動範圍	520 mm								
Compound Rest Travel	複式刀座移動範圍	330mm (13")								
Tool Shank	使用刀柄	40 x 40								
Tail Spindle Diameter	尾座心軸直徑	ø120 mm (4")								
Tail Spindle Travel	尾座心軸行程	290 mm (11-3/8")								
Taper of Tail Center	尾座頂心斜度	MT6#								
Bed Width	床面寬度	510 mm (20")								
Spindle motor	主軸馬達	20HP / 30HP (OPT.)								
Bed	床體	One piece 一體成型								
Machine Dimensions (cm)	佔地面積 (cm)	375 x 174	425 x 174	525 x 174	625 x 174	725 x 174	825 x 174	925 x 174	1025 x 174	
Net Weight (Kgs)	重量 (Kgs)	5700	6100	6800	7600	8400	9200	10000	10800	
Packing Dimensions (cm)	裝箱尺寸 (cm)	373 x 185 x 211	425 x 185 x 211	531 x 185 x 211	625 x 185 x 211	728 x 185 x 211	850 x 185 x 211	950 x 185 x 211	1050 x 185 x 211	

\* Foot Brake system is not available at lathe with Center Distance over 4310mm. \* X系列兩心間距離超過4310mm時,沒有腳刹車系統.

\* All specifications above are subject to change without notice. \* 本型錄所有規格僅供參考, 規格若有變更恕不另行通知。



# HEAVY DUTY PRECISION LATHE

## 重切削強力精密車床

### HEADSTOCK

- All gears and mandrel are made of alloy steel with heat treatment and precision ground.
- Rotating type speed changing system is easy to operate.

### 主軸箱

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

### GEAR BOX

- Universal gear box design, is able to cut metric thread, Imperial thread, module thread without changing gears.

### 齒輪箱

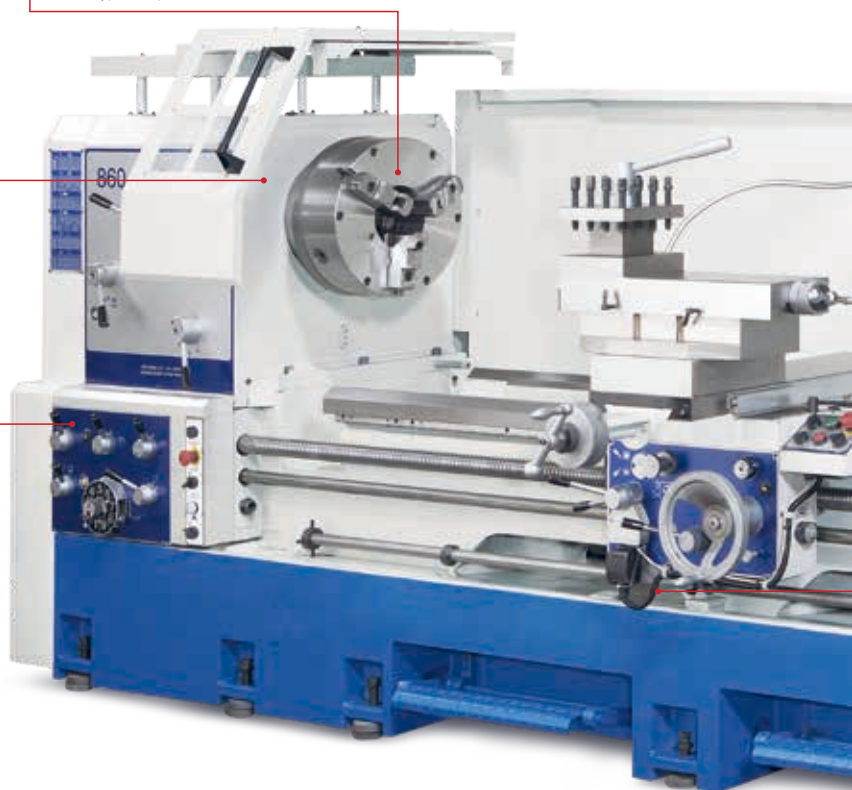
- 全能車製螺紋機構，任意車製。
- 公制螺紋、英制螺紋、模數螺紋、徑節螺紋，不需變換齒輪。

### SPINDLE

- Large bore spindle 153mm, 230mm (OPT), supported by 3-point precision bearings.
- Suitable for heavy-duty cutting.

### 主軸

- 超大直徑主軸，主軸孔徑153mm，230mm(OPT)。
- 超精密軸承三點支持式。



### 標準附件·STANDARD ACCESSORIES

- |                    |  |
|--------------------|--|
| ■ 連接板..... 1個      | ■ Back plate ..... 1PC                 |
| ■ 心軸套筒..... 1個     | ■ Center sleeve ..... 1PC              |
| ■ 中心頂針..... 2支     | ■ Center ..... 2PCS                    |
| ■ 刀架螺絲把手..... 1個   | ■ Tool post wrench..... 1PC            |
| ■ 地基螺絲..... 1組     | ■ Anchor bolt ..... 1SET               |
| ■ 工作箱及調整工具..... 1組 | ■ Tool box & Tool..... 1SET            |
| ■ 冷卻泵浦..... 1組     | ■ Coolant pump..... 1SET               |
| ■ 工作燈..... 1個      | ■ Work light..... 1PC                  |
| ■ 四爪夾頭..... 1個     | ■ 4-Jaw independent chuck..... 1PC     |
| ■ 四向快速移動裝置..... 1組 | ■ 4-way rapid traverse device.... 1SET |
| ■ 中心架..... 1個      | ■ Steady rest ..... 1PC                |

### 特別附件·OPTIONAL ACCESSORIES

- |        |                            |
|--------|----------------------------|
| ■ 三爪夾頭 | ■ 3-Jaw scroll chuck       |
| ■ 四爪花盤 | ■ 4-Jaw face plate         |
| ■ 花盤   | ■ Face plate               |
| ■ 斜度附件 | ■ Taper turning attachment |
| ■ 跟刀架  | ■ Follow rest              |
| ■ 大擋板  | ■ Rear splash guard        |
| ■ 四點定位 | ■ 4 Position carriage stop |
| ■ 微調裝置 | ■ Micro carriage stop      |
| ■ CE   | ■ CE certificate           |
| ■ 快換刀架 | ■ Quick change tool post   |
| ■ 活動頂針 | ■ Live center              |
| ■ 光學尺  | ■ Digital readout          |

## APRON AND SADDLE

- Longer, wider slide and carriage for stronger heavy cutting.
- Easy-operated overload safety device.
- Central lubrication system can be operated manually or automatically

### 護床

- 滑座與床鞍加長加寬，重切削更強。
- 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。

## FAST FEED and AUTO SKIP-OFF

- Apron has auto distance skip-off design for cross and longitudinal fast feed.

### 快送及自動跳脫

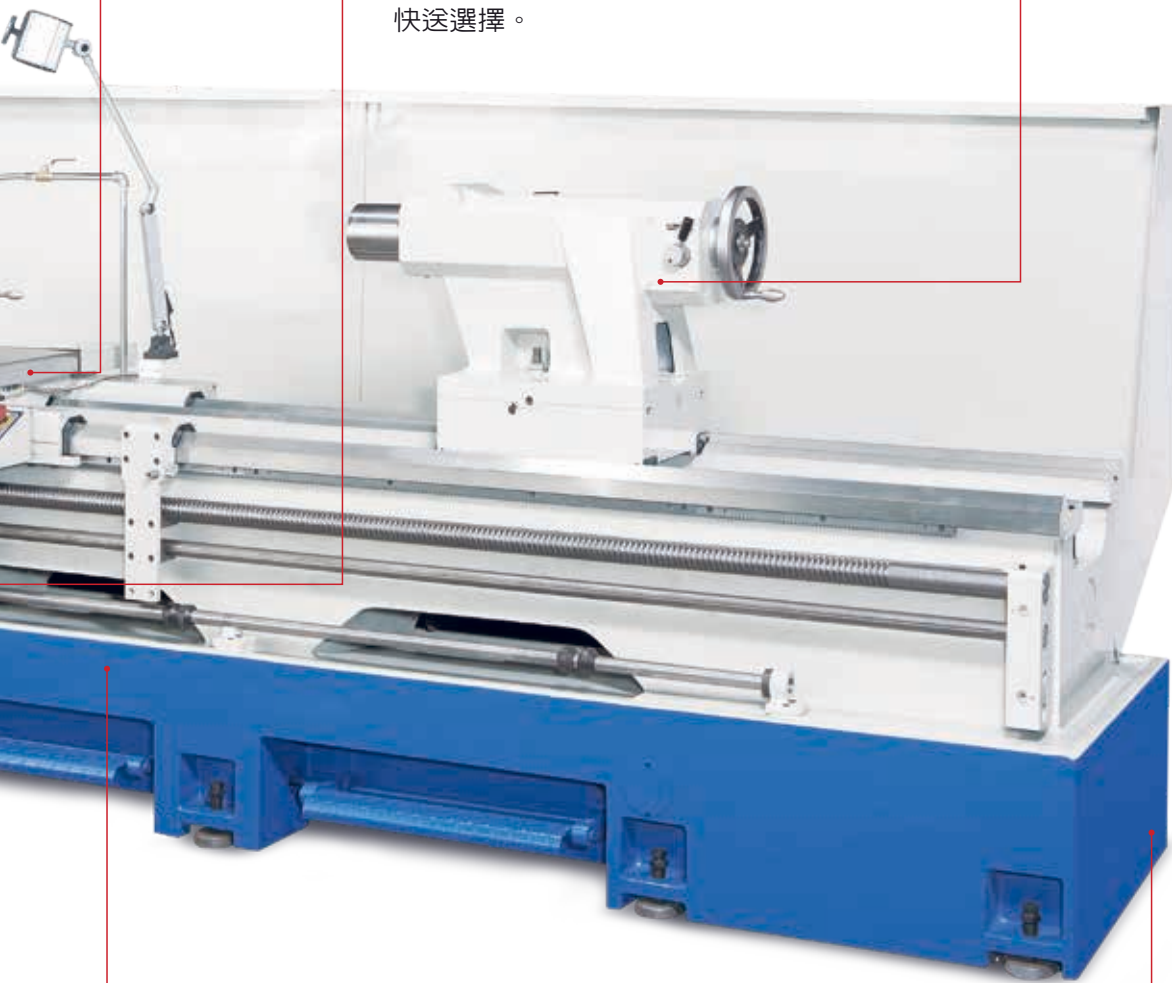
- 自動縱向可任意控制跳脫距離，有縱向及橫向快送選擇。

## TAILSTOCK

- Bearing on the bottom of Tailstock can be moved easily.

### 尾座

- 軸承支撐，移動輕便。



## BED

- High tensile ribs structure, high precision and wide bed surface.
- 3V Bed way design. Durable precision.
- With hardened and precision ground.
- One piece structure lathe bed enhances the machine life and working performance.

### 床身

- 高剛性之肋骨結構。
- 3V床軌設計，精度永保如新。
- 高精度寬大床面、經淬火並研磨。
- 一體成型落地底座適合重型工件並延長使用年限。

## CENTER DISTANCE

- Center distance 300mm longer, could cut exact longer workpiece.

### 兩頂心距離

- 全系列兩頂心多300mm可實際車削更長工件。



V 480x1000



S 480x1000



L 560x2000



L 760x1000



L 660x3300



L 760x4300



201806

AGENT

威赫科技工業股份有限公司  
WIN HO Technology Industrial Co., LTD.

407台中市南屯區精科中二路17號

No17, Jingke Central 2<sup>nd</sup> Rd., Nantun Dist., Taichung, Taiwan

TEL: 886-4-2359-9798

FAX: 886-4-2350-0778

<http://www.win-ho.com>

E-mail: winho168@ms77.hinet.net



18061203