

## MACHINE SPECIFICATIONS

SERIES	PRINCE		STUDTURN		CHAMPION			MAJOR			
MODELS	1330	1340	1430	1440	1530	1540	1550	1840/1860/1880/18120	2040/ 2060/2080/20120	2240/ 2260/ 2280/22120	
<b>CAPACITY</b>											
Centre height	165 (6.5)		178 (7)		190 (7.5)			228 (9)		254 (10)	280 (11)
Swing over bed	330 (13)		360 (14.25)		390 (15.25)			460 (18)		510 (20)	560 (22)
Swing over cross slide	190 (7.5)		215 (8.625)		240 (9.5)			290 (11.5)		340 (13.5)	390 (15.5)
Swing in gap	510 (20)		560 (22)		610 (24)			710 (28)		760 (30)	810 (32)
Distance between centres	750 (30)	1000 (40)	750 (30)	1000 (40)	760 (30)	1000(40)	1250(50)	1840/2040/2240....1000 (40) 1860/2060/2260....1500 (60) 1880/2080/2280....2000 (80) 18120/20120/22120...3000 (120)			
Gap width in front of faceplate	150 (6)		150 (6)		150 (6)			220 (8.7)		265 (10.5)	
Cross slide travel	145 (5.7)		195 (7.6)		230 (9)			120 (4.75)		130 (5.1)	
Top slide travel	95 (3.75)		100 (4)		120 (4.75)			270 (11)		345 (13)	
Width of bed	185 (7.3)		250 (10)		1710 (66.5)			1950 (76.5)		2200 (86.5)	
Length of bed	1380 (54.25)	1650 (65)	1560 (61.25)	1820 (71.5)	1710 (66.5)	1950 (76.5)	2200 (86.5)	1840/2040/2240....2110 (83) 1860/2060/2260....2670 (105) 1880/2080/2280....3175 (125) 18120/20120/22120....4190 (165)			
<b>MAIN SPINDLE</b>											
Spindle nose (camlock)	D-1-4		D-1-5		D-1-6			D-1-8			
Spindle bore	35(1.375)		42(1.625)		54(2.125)			80 (3.125)			
Spindle speed	Numbers	8	16-optional	8	16-optional	16	16	16			
	Ranges(RPM)	105-2000	53-2000	70-2000	35-2000	25-2000	20-1600	20-1600			
Varispeed	Gear steps	2	2	2	2	2	2	2			
	Ranges(RPM)	40-2500	35-2500	18-2500	16-2000	16-2000	16-2000	16-2000			
Spindle nose bush	MT#4		MT#5		MT#6			MT#7			
Spindle centre	MT#3		MT#3		MT#4			MT#5			
<b>TAILSTOCK</b>											
Tailstock spindle travel	100 (4)		120 (4.75)		155 (6.125)			180 (7)			
Tailstock barrel diameter	40 (1.56)		50 (2)		58.5 (2.312)			75 (3)			
Tailstock centre	MT#3		MT#3		MT#4			MT#5			
<b>THREADING</b>											
No.of whitworth threads	32 (in) 24 (mm) 36-optional		36		45			45			
Range of whitworth threads (T.P.I.)	4-56 (in) 4-28 (mm) 4-72-optional		4-72		2-72			2-72			
No. of metric threads	14(in) 18(mm) 31-optional		27		39			39			
Range of metric threads	0.5-6.0mm(in) 0.45-7mm(mm) 0.2-7.0mm-optional		0.4-7mm		0.2-14mm			0.2-14mm			
No. of Diametral pitch threads	21-optional		21		21			21			
Range of D.P. threads	8-44DP-optional		8-44DP		8-44DP			8-44DP			
No. of Module pitch threads	18-optional		18		18			18			
Range of Module pitch threads	0.3-3.5mm-optional		0.3-3.5mm		0.3-3.5mm			0.3-3.5mm			
<b>FEED RANGE</b>											
Longitudinal feeds	0.038-0.254 (0.0015-0.01) 0.02-0.520 (0.00008-0.0205)-optional		0.03-0.40(0.0012-0.016)		0.040-1.00 (0.0015-0.04)			0.04-1.0 (0.0015-0.04)			
Cross feeds	0.012-0.090 (0.0005-0.0035) 0.006-0.170 (0.00023-0.0067)-optional		0.01-0.13(0.0004-0.0053)		0.02-0.50 (0.0008-0.02)			0.02-0.5 (0.0008-0.02)			
<b>DRIVING MOTOR</b>											
Main motor	Standard	2.25KW (3HP)		3.75KW(5HP)		5.5KW(7.5HP)			7.5KW(10HP) 9.375KW (12.5HP)-120" Series		
	Optional	2.25/1.12KW(3/1.5HP)		3.75/2.25KW(5/3HP)		---			9.375KW (12.5HP)-40" 60" 80" Series		
	Varispeed	1.5KW (2HP)		3.75KW(5HP)		5.5KW(7.5HP)			7.5KW (10HP) 9.375KW (12.5HP)		
<b>PACKING SIZE</b>											
Length	1625 (64)	1930(76)	1830 (72)	2135(84)-CE	1970 (77)	2210 (87)	2515 (99)	1840/2040/2240....2460 (97) 1860/2060/2260....2947 (116) 1880/2080/2280....3455 (136) 18120/20120/22120....4470 (176)			
Width	760 (30)		915 (36)		1016 (40)			1100 (44)			
Height	1473 (58) 1623(64)-CE		1525 (60) 1675 (66) -CE		1600 (63) 1752 (69) -CE			1573 (69) 1900 (75)-CE		1778 (70) 1928 (76)-CE	
Net weight (Approx. kgs)	620	670	850	900	1000	1150	1300	1800/2000/2300/3300	2000/2200/2500/3500	2200/2400/2700/3700	
Gross weight (Approx. kgs)	750	820	1000	1100	1200	1350	1500	2050/2300/2650/3800	2250/2500/2850/4000	2500/2700/3050/4200	

\* The above specifications subject to change without prior notice.



**JESCO MACHINERY LTD.**

P. O. BOX 14-9, TAIPING, 411, TAICHUNG, TAIWAN.  
TEL: 886-4-2270 2676 FAX: 886-4-2270 6295  
E-mail:jesco1@ms22.hinet.net  
Web site:www.jesco.com.tw

10500202



**High Productivity Quality and Profitability**

**JESSEY®**  
**High Speed Precision Lathes**

PRINCE / STUDTURN / CHAMPION / MAJOR



# JESSEY®

High Speed Precision Lathes

## STANDARD EQUIPMENT AND ACCESSORIES:

- Low voltage controls
- Coolant system
- Motor and electrics controls system
- One backplate for 3-jaw chuck
- 4-way toolpost
- Threads indicator
- Feed rod overload clutch
- Centers & center sleeve
- Leveling blocks
- Service tools & toolbox
- Touch paints
- Instruction & parts manual

## OPTIONAL EQUIPMENT AND ACCESSORIES:

- VS model for full series
- 3-jaws scroll chuck
- 4-jaws independent chuck
- backplate for chuck
- Face plate
- Steady rest
- Follow rest
- Rotating center
- Full length splash guard
- Halogen lamp
- Chuck safety guard
- Chip safety guard
- CE Electrical system
- Protect cover on leadscrew
- Turret type micrometer bed stop
- 5C collet attachment
- 5C collets
- Taper turning attachment
- Quick change toolpost
- Additional toolholder for Q.C.T.
- Hydraulic copying attachment
- Magnetic brake system
- Any others by consults

## MAGNETIC BRAKE SYSTEM :

- Available on all models as optional equipment
- Available to supply along with or without Foot Brake
- Qualify for standard CE-Regulation



## PLEASE GIVE THE FOLLOWING INFORMATION ON PLACING ORDERS:

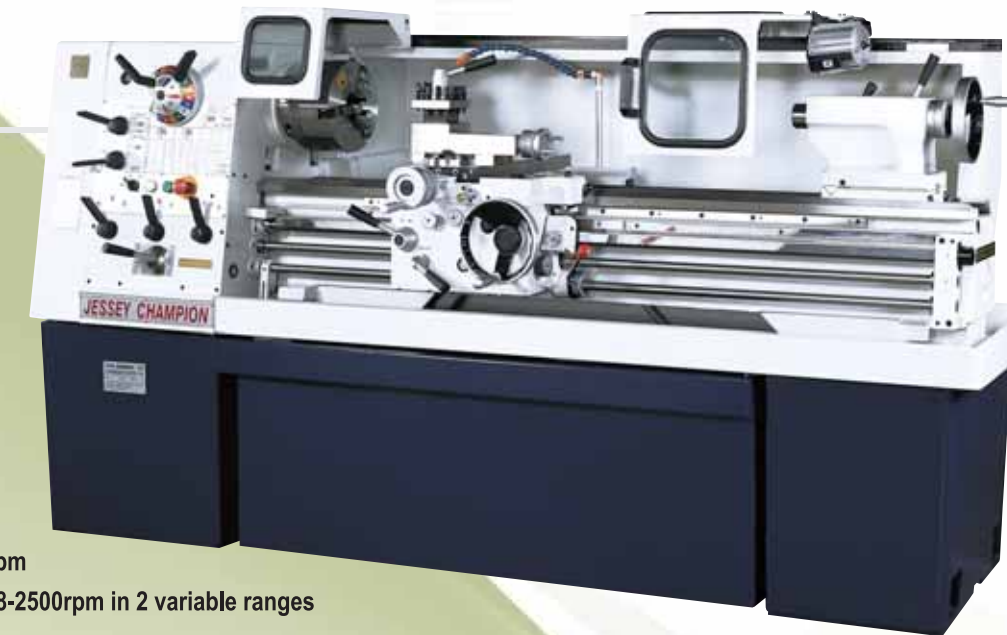
- Metric or inch system on leadscrew and dials graduation
- Left-handed or right-handed on apron
- Electrical power source specification
- Gap bed or straight bed
- Painted colors with RAL number
- Optional equipment and accessories

## PRINCE.



- D1-4 Camlock spindle nose
- 8-step spindle speed from 105-2000rpm
- Optional 2-speed motor driven for 16-step speed from 53-2000rpm
- Optional variable-speed drive from 40-2500rpm in 2 variable ranges
- 3HP (2.25Kw) spindle motor
- Swing over bed 330mm
- Distance between center 750mm/1000mm
- Headstock gears with precision hardened and ground
- Optional universal gearbox provides comprehensive range of metric, imperial, M.P. and D.P. threading
- Induction hardened & precision ground bed

## CHAMPION.



- D1-6 Camlock spindle nose
- 16-step spindle speed from 25-2000rpm
- Optional variable-speed drive from 18-2500rpm in 2 variable ranges
- 7.5HP (5.5Kw) spindle motor
- Swing over bed 390mm
- Distance between center 760mm/1000mm/1250mm
- Headstock gears with precision hardened and ground
- Universal gearbox provides comprehensive range of metric, imperial, M.P. and D.P. threading
- Induction hardened & precision ground bed
- Mechanical multi-plate clutch is available as optional

## STUDTURN.



- D1-5 Camlock spindle nose
- 8-step spindle speed from 70-2000rpm
- Optional 2-speed motor driven for 16-step speed from 35-2000rpm
- Optional variable-speed drive from 35-2500rpm in 2 variable ranges
- 5HP (3.75Kw) spindle motor
- Swing over bed 360mm
- Distance between center 750mm/1000mm
- Headstock gears with precision hardened and ground
- Universal gearbox provides comprehensive range of metric, imperial, M.P. and D.P. threading
- Induction hardened & precision ground bed

## MAJOR.



- D1-8 Camlock spindle nose
- 16-step spindle speed from 20-1600rpm
- Optional variable-speed drive from 16-2000rpm in 2 variable ranges
- 10HP (7.5Kw) spindle motor
- Swing over bed 460mm/510mm/560mm
- Distance between center 1000mm/1500mm/2000mm/3000mm
- Headstock gears with precision hardened and ground
- Mechanical multi-plate clutch
- Universal gearbox provides comprehensive range of metric, imperial, M.P. and D.P. threading
- Induction hardened & precision ground bed

# High Speed Precision Lathes