

JESSEY®

High Productivity Quality and Profitability



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High Speed Precision Lathes

- PRINCE
- MAJOR
- TRAINER
- STUDTURN
- GENERAL
- KNIGHT
- CHAMPION



CE

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 driven 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

High Productivity Quality and Profitability



*New style design only
available for VS - Model*



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 driven 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



*New style design only
available for VS - Model*

CHAMPION.

- D1-6 Camlock spindle nose
- 16-step spindle speed from 25-2000rpm
- Optional variable-speed driven from 25-2500rpm in 3 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

*Powerful high speed lathe with
precision capacity*



*New style design only
available for VS - Model*

MAJOR.

- D1-8 Camlock spindle nose
- 16-step spindle speed from 20-1600rpm
- Optional variable-speed drive from 20-2000rpm in 3 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
- Universal gearbox provides comprehensive range of metric, imperial, M.P. and D.P. threading
- Induction hardened & precision ground bed



*New style design only
available for VS - Model*

GENERAL.

High Speed 05-06
Precision Lathes

- Spindle bore: 104mm (D1-11) and available for larger spindle bore: 155mm (A2-11)
- Variable-speed drive from 20-1800rpm in 3 variable-ranges
- 20HP(15Kw) spindle motor
- Swing over bed: 660mm/760mm
- Distance between center 1500mm/2000mm/3000mm/4000mm/5000mm/6000mm
- 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

Powerful, heavy duty, Large capacity



New style design for more selection.



MACHINE SPECIFICATIONS

SERIES		PRINCE		STUDTURN		CHAMPION			MAJOR			GENERAL			
MODELS		1330	1340	1430	1440	1530	1540	1550	1840/1860/1880/18120	2040/ 2060/2080/20120	2240/ 2260/ 2280/22120	2660/ 2680/ 26120/ 26160/26200/26240		3060/ 3080/ 30120/ 30160/30200/30240	
CAPACITY															
Centre height		165 (6.5)		178 (7)		190 (7.5)			228 (9)	254 (10)	280 (11)	330 (13)		380 (15)	
Swing over bed		330 (13)		360 (14.25)		390 (15.25)			460 (18)	510 (20)	560 (22)	660 (26)		760 (30)	
Swing over cross slide		190 (7.5)		215 (8.625)		240 (9.5)			290 (11.5)	340 (13.5)	390 (15.5)	470 (18.5)		570 (22)	
Swing in gap		510 (20)		560 (22)		610 (24)			710 (28)	760 (30)	810 (32)	860 (33.85)		960 (37.80)	
Distance between centres		750 (30)	1000 (40)	750 (30)	1000 (40)	730 (28)	970 (38)	1230 (48)	1840/2040/2240....950 (40) 1860/2060/2260....1450 (60) 1880/2080/2280....1950 (80) 18120/20120/22120...2950 (120)			2660/3060...1500 (60) 2680/3080...2000 (80) 26120/30120...3000 (120)		26160/30160...4000 (160) 26200/30200...5000 (200) 26240/30240...6000 (240)	
Gap width in front of faceplate		150 (6)		150 (6)		150 (6)			220 (8.7)			300 (11.8)			
Cross slide travel		145 (5.7)		195 (7.6)		230 (9)			265 (10.5)			390 (15)			
Top slide travel		95 (3.75)		100 (4)		120 (4.75)			130 (5.1)			190 (7.5)			
Width of bed		185 (7.3)		250 (10)		270 (11)			345 (13)			480(18.9)			
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)			2660/3060...3015 (118) 2680/3080...3515 (138) 26120/30120...4530 (178)		26160/30160...5545 (218) 26200/30200...6515 (256) 26240/30240...7515 (295)	
MAIN SPINDLE															
Spindle nose (camlock)		D-1-4		D-1-5		D-1-6			D-1-8			D-1-11	D-1-11	A2-11	A2-11
Spindle bore		35(1.375)		42(1.625)		54(2.125)			80 (3.125)			104 (4.125)	155 (6)	104 (4.125)	155 (6)
Spindle speed	Numbers	8	16-optional	8	16-optional	16			16			---			
	Ranges(RPM)	105-2000	53-2000	70-2000	35-2000	25-2000			20-1600			---			
Varispeed	Gear steps	2		2		3			3			3	3	3	3
	Ranges(RPM)	40-2500		35-2500		20-2500			20-2000			20-1800	14-1400	20-1800	14-1400
Spindle nose bush		MT#4		MT#5		MT#6			MT#7			MT#7	---	MT#7	---
Spindle centre		MT#3		MT#3		MT#4			MT#5			MT#6	---	MT#6	---
TAILSTOCK															
Tailstock spindle travel		100 (4)		120 (4.75)		155 (6.125)			180 (7)			300 (12)			
Tailstock barrel diameter		40 (1.56)		50 (2)		58.5 (2.312)			75 (3)			105 (4.125)			
Tailstock centre		MT#3		MT#3		MT#4			MT#5			MT#6			
THREADING															
No.of whitworth threads		32 (in) 24 (mm) 36-optional		36		45			45			73			
Range of whitworth threads (T.P.I.)		4-56 (in) 4-28 (mm) 4-72-optional		4-72		2-72			2-72			2-84			
No. of metric threads		14(in) 18(mm) 31-optional		27		39			39			51			
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			0.2-14mm			
No. of Diametral pitch threads		21-optional		21		21			21			27			
Range of D.P. threads		8-44DP-optional		8-44DP		8-44DP			8-44DP			8-72D.P.			
No. of Module pitch threads		18-optional		18		18			18			20			
Range of Module pitch threads		0.3-3.5mm-optional		0.3-3.5mm		0.3-3.5mm			0.3-3.5mm			0.2-3.5mm			
FEED RANGE															
Longitudinal feeds		0.038-0.254 (0.0015-0.01)		0.03-0.40(0.0012-0.016)		0.040-1.00(0.0015-0.04)			0.04-1.0 (0.0015-0.04)			0.04-2.8 mm/rev			
Cross feeds		0.02-0.520 (0.0008-0.0205)-optional		0.012-0.090 (0.0005-0.0035)		0.02-0.50 (0.0008-0.02)			0.02-0.5 (0.0008-0.02)			0.02-1.4 mm/rev			
		0.006-0.170 (0.00023-0.0067)-optional													
DRIVING MOTOR															
Main motor	Standard	2.25KW (3HP)		3.75KW(5HP)		5.5KW(7.5HP)			7.5KW(10HP)			15KW (20HP)			
	Optional	2.25/1.12KW(3/1.5HP)		3.75/2.25KW(5/3HP)		---			9.375KW (12.5HP)/11.25KW(15HP)			22.5KW (30HP)			
	Varispeed	2.25KW (3HP)		3.75KW(5HP)		5.5KW(7.5HP)			7.5KW (10HP)/9.375KW (12.5HP)/11.25KW(15HP)			-			
PACKING SIZE															
Length		1625 (64)	1930(76)	1830 (72)	2135(84)	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)			2660/3060...3620 (142) 2680/3080...4120 (162) 26120/30120...5120 (202)		26160/30160...6120 (242) 26200/30200...7120 (280) 26240/30240...8120 (320)	
Width		760 (30)		915 (36)		1016 (40)			1100 (44)			1940 (76.4)			
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	1830 (72) 1980 (78)-CE	2250 (88.6)			
Net weight (Approx. kgs)		620	670	850	900	1000	1150	1300	1800/2000/2300/3300	2000/2200/2500/3500	2200/2400/2700/3700	3800/4300/5400/6500/7800/9200	4000/4500/5600/6700/8000/9400		
Gross weight (Approx. kgs)		750	820	1000	1100	1200	1350	1500	2050/2300/2650/3800	2250/2500/2850/4000	2500/2700/3050/4200	4300/5000/6000/7200/8600/10100	4500/5200/6200/7400/8800/10300		

• The above specifications subject to change without prior notice.

High Speed

07-08

Precision Lathes

STANDARD EQUIPMENT:

- Low voltage control system
- Coolant System
- Backplate for 3-jaw chuck
- Thread indicator
- Centers & center-sleeve
- Leveling blocks
- Service tools & toolbox
- Operation manual

Optional Accessories:

- 3-jaw chuck
- 4-jaw chuck
- Face plate
- Steady rest
- Follow rest
- Rotating center
- Halogen lamp
- Chuck guard
- Chip guard
- Leadscrew cover
- Full length splash guard
- Taper turning attachment
- Quick change toolpost
- CE electrical system
- Variable speed
- Magnetic brake
- Any others by consult

TRAINER.

- Full geared headstock with 16 spindle speeds from 53-2000rpm.
- D1-4 camlock spindle nose.
- Rigid construction bed are induction hardened over HRC50° and precision ground.
- Harden and ground spindles & gears in headstock.
- The gears in gearbox are hardened and self-splash lubricated as an oil bath.
- Feeding and threading function are interlocked to prevent setting simultaneously.
- Feeding direction and engagement are controlled by two push/pull plunger on Apron.
- Both 165mm/180mm swing over bed.
- Both distance between centers 750mm and 1000mm bed.
- Front moveable chip tray easily for chip collection and cleaning.
- Adjustable controller to prevent over-travel for safety protection.
- Main spindle motor: 2.25/1.12Kw (3/1.5HP).
- Foot brake pedal to apply quick stop and power off.
- Lockable tool drawers.



MACHINE SPECIFICATIONS

MODEL		TRAINER		KNIGHT	
		1330	1340	1525	1550
CAPACITY					
Center height		165 (6.5)		195 (7.625)	
Swing over bed		330 (13)		400 (15.75)	
Swing over cross slide		190 (7.5)		246 (9.625)	
Swing in gap		510 (20)		585 (23)	
Distance between centers		750 (30)	1000 (40)	650(25)	1250 (50)
HEADSTOCK					
Spindle nose (camlock)		D-1-4		D-1-6	
Spindle bore		35 (1.375)		54 (2.125)	
Spindle speeds	Numbers	16		16	
	Ranges (RPM)	53-2000		25-2000	
Varispeed	Gear steps	2		-	
	Ranges (RPM)	40-2500/40-4000		-	
Spindle nose bush		MT#4		MT#6	
Spindle center		MT#3		MT#4	
TAILSTOCK					
Tailstock center		MT#3		MT#5	
Tailstock spindle travel		100 (4)		145 (5.687)	
Tailstock barrel diameter		40 (1.56)		63 (2.5)	
TRAVELS					
Cross slide travel		145 (5.7)		250 (9.875)	
Top slide travel		95 (3.75)		100 (4)	
THREADS					
No. of whitworth threads		47		56	
Range of whitworth threads (T.P.I.)		4 - 144TPI		2 - 56	
No. of metric threads		0.2 - 14 mm		0.2 - 14 mm	
Range of metric threads		30		20	
No. of Diametral pitch threads		4 - 44DP		8 - 56DP	
Range of D.P. threads		24		20	
No. of Module pitch threads		0.3 - 3.5 mm		0.2 - 3.5 mm	
Range os Module pitch threads		0.02 - 1.04 (0.0008 - 0.0410)		0.036 - 2.4 (0.0014 - 0.096)	
FEEDS		2.25 / 1.25 KW (3 / 1.5HP)		7.5 KW (10 HP)	
MOTOR	Length	1640	1940	2080	2660
	Width	1060		1270	
PACKING SIZE	Height	1580		1230	
NET WEIGHT (Approx. kgs)		670	720	1350	1500
GROSS WEIGHT (Approx. kgs)		800	870	1550	1800

- The above specifications subject to change without prior notice.

KNIGHT.

High Speed **09-10**
Precision Lathes

STANDARD EQUIPMENT:

- Low voltage control system
- Coolant system
- Backplate for 3-jaw chuck
- Thread indicator
- Halogen lamp
- Chuck guard
- Chip guard
- Leadscrew cover
- Centers & center sleeve
- Leveling blocks
- Service tools & toolbox
- CE compliance

Optional Accessories:

- 3-jaw chuck
- 4-jaw chuck
- Face plate
- Steady rest
- Follow rest
- Rotating center
- Taper turning attachment
- Quick change toolpost
- Variable speed
- Any others by consult

- Full geared headstock with 16 spindle speeds from 25-2000rpm
- D1-6 camlock spindle nose.
- Rigid construction bed are induction hardened over HRC50° and precision ground.
- Harden and ground spindles & gears in headstock.
- Main Spindle with GAMET Bearings supported.
- Equipped with "Matrix" Mechanical Multi-Plate Clutch.
- Universal Gear Box for Metric, Whitworth, Module and D.P. threading cutting.
- Saddle slideways on bed coated with Germany made moglice for anti-friction.
- Front moveable chip trolley easily for chip collecting and cleaning.
- 400mm swing over bed.
- Gap bed with distance between centers 1250mm
- Main spindle motor: 7.5Kw (10HP)
- Equipped with Magnetic brake without foot brake pedal.
- CE Compliance.

