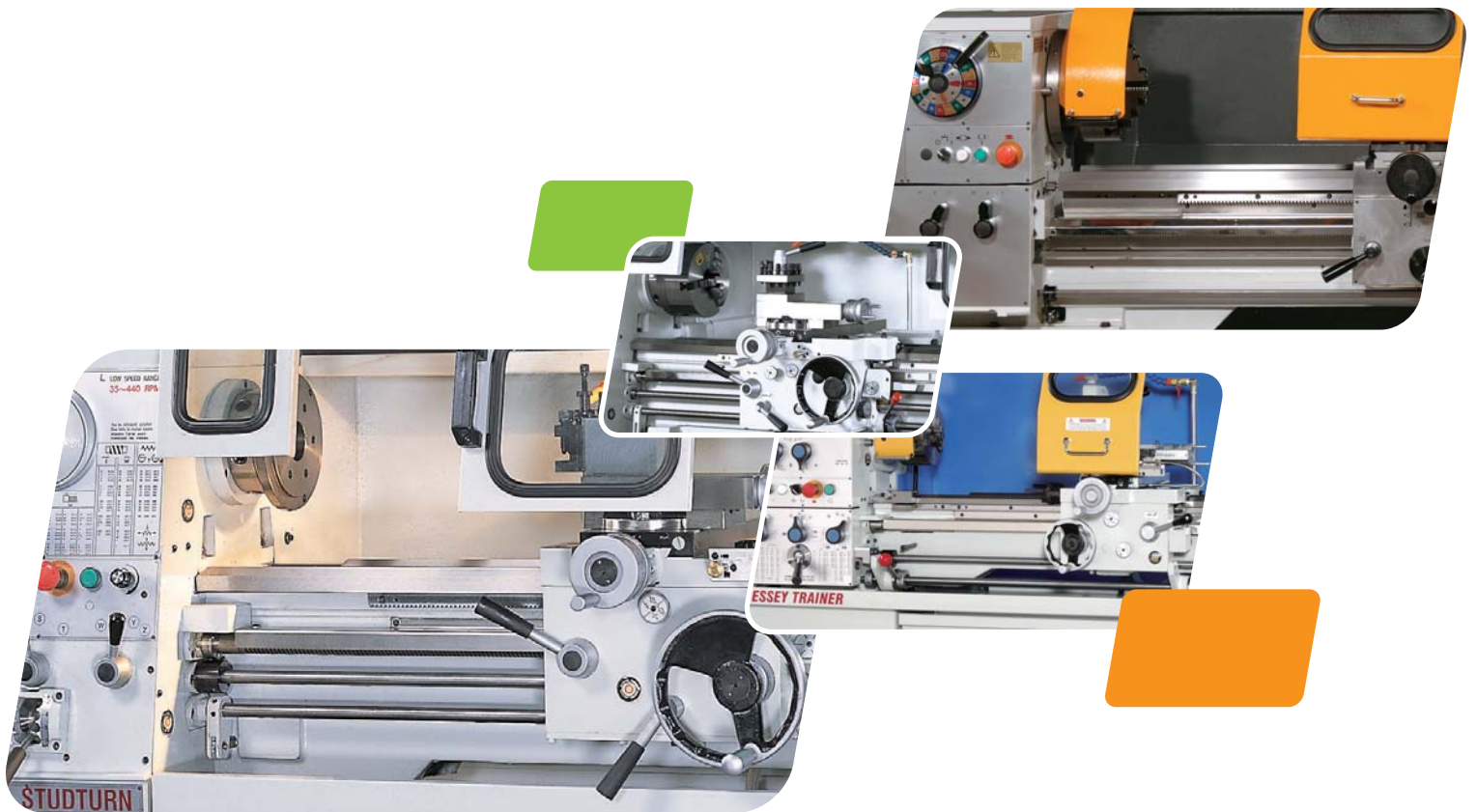


JESSEY®

High Speed Precision Lathes



High Productivity Quality and Profitability

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



HIGH SPEED PRECISION LATHE

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



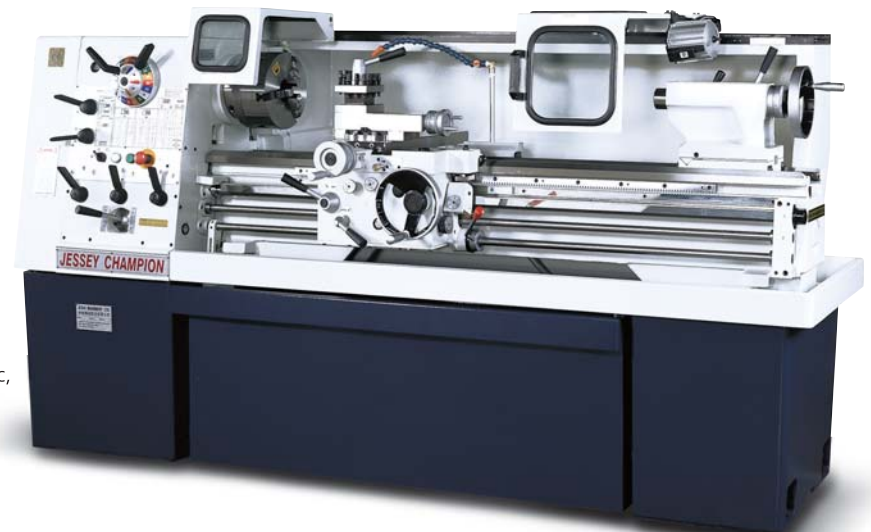
STUDTURN.

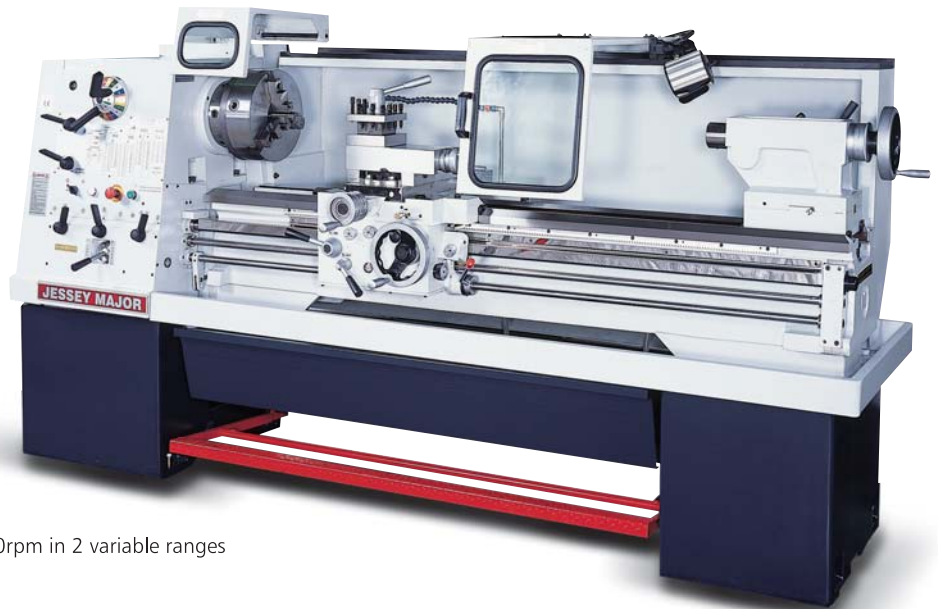
- D1-5 Camlock spindle nose
- 8-step spindle speed from 70-2000rpm
- Optional 2-speed motor driven for 16-step speed from 35-2000rpm
- Optional variable-speed drive from 35-2500rpm in 2 variable ranges
- 5HP (3.75Kw) spindle motor
- Swing over bed 360mm
- Distance between center 750mm/1000mm
- Headstock 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



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





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



GENERAL.

- D1-11 Camlock spindle nose
- Variable-speed drive from 10-1400rpm in 4 variable-ranges
- 20HP(15Kw) spindle motor
- Swing over bed: 660mm/760mm
- Distance between center 1500mm/2000mm/3000mm/4000mm
- 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

HIGH SPEED PRECISION LATHE

MACHINE SPECIFICATIONS

SERIES		PRINCE		STUDTURN		CHAMPION		
MODELS		1330	1340	1430	1440	1530	1540	1550
CAPACITY								
Centre height		165 (6.5)		178 (7)		190 (7.5)		
Swing over bed		330 (13)		360 (14.25)		390 (15.25)		
Swing over cross slide		190 (7.5)		215 (8.625)		240 (9.5)		
Swing in gap		510 (20)		560 (22)		610 (24)		
Distance between centres		750 (30)	1000 (40)	750 (30)	1000 (40)	760 (30)	1000(40)	1250(50)
Gap width in front of faceplate		150 (6)		150 (6)		150 (6)		
Cross slide travel		145 (5.7)		195 (7.6)		230 (9)		
Top slide travel		95 (3.75)		100 (4)		120 (4.75)		
Width of bed		185 (7.3)		250 (10)		270 (11)		
Length of bed		1380 (54.25)	1650 (65)	1560 (61.25)	1820 (71.5)	1710 (66.5)	1950 (76.5)	2200 (86.5)
MAIN SPINDLE								
Spindle nose (camlock)		D-1-4		D-1-5		D-1-6		
Spindle bore		35(1.375)		42(1.625)		54(2.125)		
Spindle speed	Numbers	8	16-optional	8	16-optional	16		
	Ranges(RPM)	105-2000	53-2000	70-2000	35-2000	25-2000		
Varispeed	Gear steps	2		2		2		
	Ranges(RPM)	40-2500		35-2500		18-2500		
Spindle nose bush		MT#4		MT#5		MT#6		
Spindle centre		MT#3		MT#3		MT#4		
TAILSTOCK								
Tailstock spindle travel		100 (4)		120 (4.75)		155 (6.125)		
Tailstock barrel diameter		40 (1.56)		50 (2)		58.5 (2.312)		
Tailstock centre		MT#3		MT#3		MT#4		
THREADING								
No. of whitworth threads		32 (in) 24 (mm) 36-optional		36		45		
Range of whitworth threads (T.P.I.)		4-56 (in) 4-28 (mm) 4-72-optional		4-72		2-72		
No. of metric threads		14(in) 18(mm) 31-optional		27		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		
No. of Diametral pitch threads		21-optional		21		21		
Range of D.P. threads		8-44DP-optional		8-44DP		8-44DP		
No. of Module pitch threads		18-optional		18		18		
Range of Module pitch threads		0.3-3.5mm-optional		0.3-3.5mm		0.3-3.5mm		
FEED RANGE								
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)		
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)		
DRIVING MOTOR								
Main motor	Standard	2.25KW (3HP)		3.75KW(5HP)		5.5KW(7.5HP)		
	Optional	2.25/1.12KW(3/1.5HP)		3.75/2.25KW(5/3HP)		---		
	Varispeed	1.5KW (2HP)		3.75KW(5HP)		5.5KW(7.5HP)		
PACKING SIZE								
Length		1625 (64)	1930(76)	1830 (72)	2135(84)	1970 (77)	2210 (87)	2515 (99)
Width		760 (30)		915 (36)		1016 (40)		
Height		1473 (58) 1623(64)-CE		1525 (60) 1675 (66) -CE		1600 (63) 1752 (69) -CE		
Net weight (Approx. kgs)		620	670	850	900	1000	1150	1300
Gross weight (Approx. kgs)		750	820	1000	1100	1200	1350	1500

* The above specifications subject to change without prior notice.

High Productivity Quality and Profitability

MAJOR			GENERAL	
1840/1860/1880/18120	2040/ 2060/2080/20120	2240/ 2260/ 2280/22120	2660/ 2680/ 26120/ 26160	3060/ 3080/ 30120/ 30160
228 (9)	254 (10)	280 (11)	330 (13)	380 (15)
460 (18)	510 (20)	560 (22)	660 (26)	760 (30)
290 (11.5)	340 (13.5)	390 (15.5)	460 (18)	560 (22)
710 (28)	760 (30)	810 (32)	860 (33.85)	960 (37.80)
	1840/2040/2240....1000 (40) 1860/2060/2260....1500 (60) 1880/2080/2280....2000 (80) 18120/20120/22120...3000 (120)		2660/3060....1500 (60) 2680/3080....2000 (80) 26120/30120....3000 (120) 26160/30160....4000 (160)	
	220 (8.7)		300(11.8)	
	265 (10.5)		330 (13)	380 (15)
	130 (5.1)		250(10)	
	345 (13)		480(18.9)	
	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)	
	D-1-8		D-1-11 (A-2-11 Option)	
	80 (3.125)		105 (4.125)	
	16		--	
	20-1600		--	
	2		4	
	16-2000		10-1400	
	MT#7		MT#8	
	MT#5		MT#6	
	180 (7)		300 (12)	
	75 (3)		105 (4.125)	
	MT#5		MT#6	
	45		45	
	2-72		2-72	
	39		39	
	0.2-14mm		0.2-14mm	
	21		21	
	8-44DP		8-44D.P.	
	18		18	
	0.3-3.5mm		0.3-3.5mm	
	0.04-1.0 (0.0015-0.04)		0.04-1.0 (0.0015-0.04)	
	0.02-0.5 (0.0008-0.02)		0.02-0.5 (0.0008-0.02)	
	7.5KW(10HP) 9.375KW (12.5HP)-120" Series		15KW (20HP)	
	9.375KW (12.5HP)-40" 60" 80" Series		22.5KW (30HP)	
	7.5KW (10HP) 9.375KW (12.5HP)		15KW (20HP)	
	1840/2040/2240....2460 (97) 1860/2060/2260....2947 (116) 1880/2080/2280....3455 (136) 18120/20120/22120....4470 (176)		2660/3060....4000 (160) 2680/3080....4500 (180) 26120/30120....5500 (220) 26160/30160....6520 (260)	
	1100 (44)		1910 (76.4)	
1573 (69) 1900 (75)-CE	1778 (70) 1928 (76)-CE	1830 (72) 1980 (78)-CE	1910 (76.4)	2120 (84.8)-CE
1800/2000/2300/3300	2000/2200/2500/3500	2200/2400/2700/3700	3800/4300/5400/6500	4000/4500/5600/6700
2050/2300/2650/3800	2250/2500/2850/4000	2500/2700/3050/4200	4300/5000/6000/7200	4500/5200/6200/7400

HIGH SPEED PRECISION LATHE

TRAINER.

- Full geared headstock with 16 spindle speeds from 53-2000rpm.
- D1-4 camlock spindle nose or DIN 55027.
- 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.



KNIGHT.

- 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.

MACHINE SPECIFICATIONS

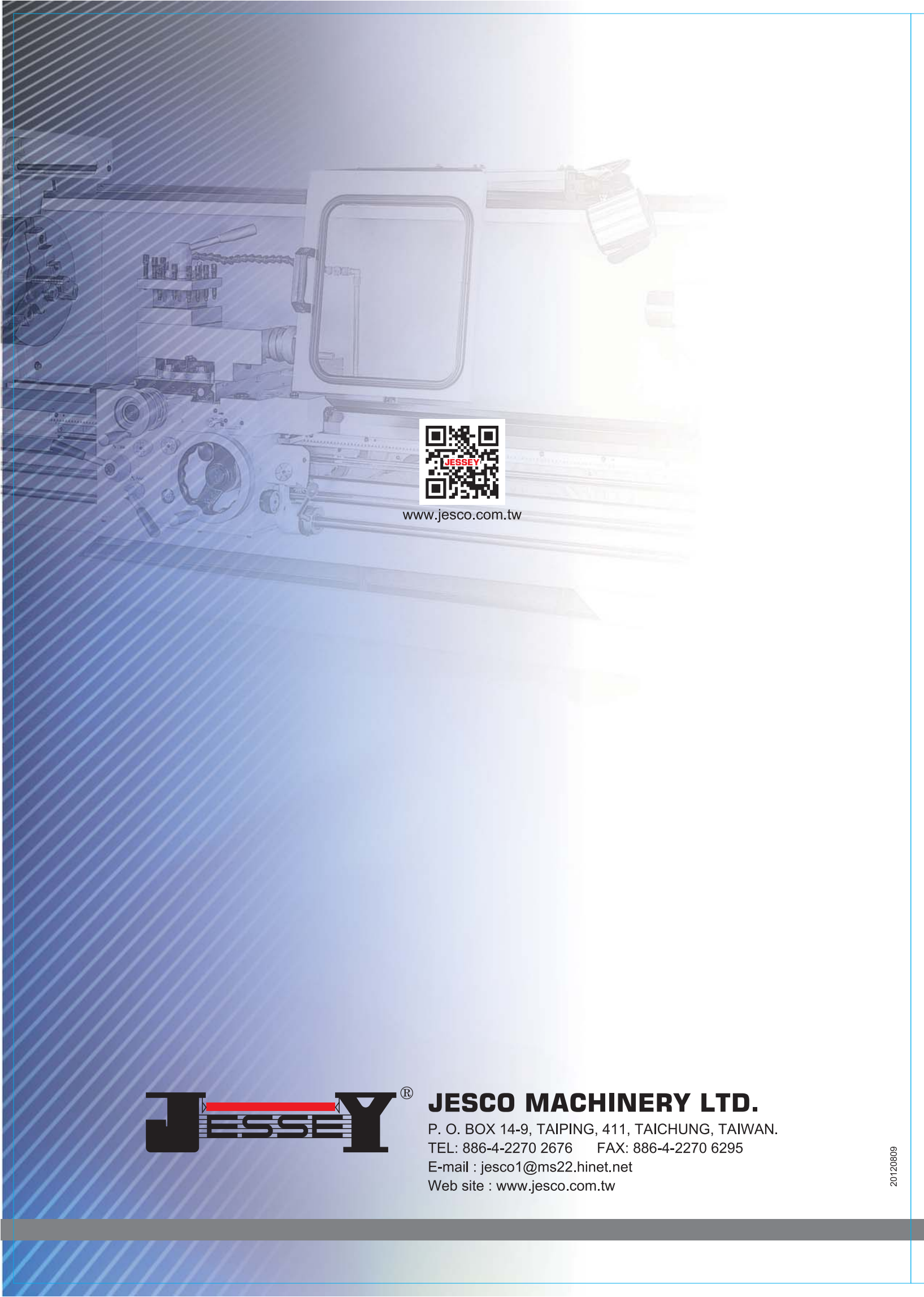
unit: mm(inch)

MODEL	TRAINER				KNIGHT		
	1330	1340	1430	1440	1525	1550	
CAPACITY							
Center height	165 (6.5)		180 (7)		195 (7.625)		
Swing over bed	330 (13)		360 (14.25)		400 (15.75)		
Swing over cross slide	190 (7.5)		215 (8.625)		246 (9.625)		
Swing in gap	510 (20)		560 (22)		585 (23)		
Distance between centers	750 (30)	1000 (40)	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				-	
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	36				56		
Range of whitworth threads (T.P.I.)	4 - 72TPI				2 - 56		
No. of metric threads	31				51		
Range of metric threads	0.2 - 7.0 mm				0.2 - 14 mm		
No. of Diametral pitch threads	21				20		
Range of D.P. threads	8 - 44DP				8 - 56DP		
No. of Module pitch threads	18				20		
Range as Module pitch threads	0.3 - 3.5 mm				0.2 - 3.5 mm		
FEEDS	0.02 - 0.520 (0.0008 - 0.0205)				0.036 - 2.4 (0.0014 - 0.096)		
MOTOR	2.25 / 1.25 KW (3 / 1.5HP)				7.5 KW (10 HP)		
PACKING SIZE	Length	1640	1940	1640	1940	2080 2660	
	Width	1060		1060		1270	
	Height	1580		1900		1230	
NET WEIGHT (Approx. kgs)	670	720	700	750	1350	1500	
GROSS WEIGHT (Approx. kgs)	800	870	830	900	1550	1800	

• The above specifications subject to change without prior notice.

STANDARD EQUIPMENT:

- Interlocked chuck guard
- Traveling chip guard
- Threading indicator
- Full length splash guard
- Low voltage control
- Leadscrew cover
- Halogen Lamp
- Centers & Center bushes
- Instruction & parts manual
- Maintenance Tools & toolbox



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