

- PRINCE
- STUDDTURN
- CHAMPION
- MAJOR
- GENERAL



JESSEY®

High Productivity Quality and Profitability



High Speed Precision Lathes



JESSEY® *High Speed*

PRINCE. *Rigid, Stable, Precise . . .
Ideal for Precision Turning !*



1330 - 330 x 750mm
1340 - 330 x 1000mm

Available more selection of single-phase motor or two-speed motor
Universal gear box is optional

STUDTURN. *Built for Those Requiring Precise
Turning and Minimum Trouble.*



1440 - 360 x 750mm
1440 - 360 x 1000mm

Available more selection of two-speed motor
Optional "one-shot" lube pump provides excellent slideways central lubrication

Precision Lathes

CHAMPION.

Smooth Operation !
Maximum Dependability !



1530 - 390 x 760mm
1540 - 390 x 1000mm
1550 - 390 x 1250mm

"MATRIX" mechanical multi-plate clutch is available as optional

MAJOR.

Outstanding Rigidity for
Heavy Duty Machining !



1840 1860 1880 18120 - 460 x 1500~3000mm
2040 2060 2080 20120 - 510 x 1500~3000mm
2240 2260 2280 22120 - 560 x 1500~3000mm

2500mm & 3000mm between centers are supported by three plinths
"MATRIX" mechanical multi-plate clutch is equipped as standard

GENERAL. *Ruggedly Constructed Throughout ! Extra Heavy Duty Machining Capability !*



2660 2680 26120 26160 - 660 x 1500~4000mm
3060 3080 30120 30160 - 760 x 1500~4000mm

Leadscrew Cover, Magnetic brake. MATRIX Clutch are standard
Both axes rapid power feed fitted for quick positioning
Rigid tailstock with two speed quill plus rack & handle positioning

FEATURES:

- Rigid construction bed are induction hardened over HRC50 and with precision ground.
- Harden and ground spindles & gears in headstock for high speed running at low noise.
- Camlock spindle nose.
- Double walls apron as oil bath.
- Interlock device between feeding and threading.
- Smooth, easy speed change selection.
- Feed rod fitted with an overload clutch for safety.
- Easy longitudinal & cross feed change operated by a push/pull plunger on apron.
- Simple, fast, pull up engage, push down disengage, feed control lever.
- Front moveable chip tray allows easy chip cleaning.
- Universal gear box provides comprehensive ranges of metric, whitworth, M.P. & D.P. threads.
- "One-Shot" lube pump on saddle provides excellent slideways central lubrication.

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

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

High Speed Precision Lathes

MACHINE SPECIFICATIONS

SERIES		PRINCE		STUDTURN		CHAMPION		
MODELS		1330	1340	1430	1440	1530	1540	1550
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)		
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		M.T. No. 4		M.T. No. 5		M.T. No. 6		
Spindle centre		M.T. No. 3		M.T. No. 3		M.T. No. 4		
Tailstock centre		M.T. No. 3		M.T. No. 3		M.T. No. 4		
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)
Cross slide travel		145 (5.7)		195 (7.6)		230 (9)		
Top slide travel		95 (3.75)		100 (4)		120 (4.75)		
Tailstock spindle travel		100 (4)		120 (4.75)		155 (6.125)		
Tailstock barrel diameter		40 (1.56)		50 (2)		58.5 (2.312)		
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--7.0mm(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--44 D.P.-optional		8--44 D.P.		8--44 D.P.		
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		
Longitudinal feeds		0.038-0.254(0.0015-0.01) 0.02--0.520(0.0008-0.0205)-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)		
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)		3KW (4HP)		5.5KW (7.5HP)		
Varispeed YASKAWA Inverter		V7(2.2KW)		V7(3.75KW)		F7(5.5KW)		
Packing sizes	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.

Unit: mm (inch)

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)	
D-1-8			D-1-11 (A-2-11 Option)	
80 (3.125)			105(4.125)	
16			16	
20-1600			10-1395	
2			4	
16-2000			10-1400	
M.T. No.7			M.T. No.8	
M.T. No.5			M.T. No.6	
M.T. No.5			M.T. No.6	
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)	
265 (10.5)			330(13)	380(15)
130 (5.1)			250 (10)	
180 (7)			300 (12)	
75 (3)			105 (4.125)	
45			45	
2-72 T.P.I			2-72T.P.I	
39			39	
0.2-14mm			0.2-14mm	
21			21	
8-44 D.P.			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) Rapid Feeds: 13M/min.(50Hz) 16M/min.(60Hz)	
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)-120" Series			15KW (20HP)	
G7(7.5KW) G7(9.375KW)-120" Series			G7(15KW)	
1840, 2040, 2240...2388 (94), 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


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