



618EVS

ELECTRONIC VARIABLE SPEED

SUPER PRECISION TOOLROOM LATHE

Features

- Infinitely electronic variable spindle speed from 0 ~ 4,000 RPM
- Spindle runout within 50 millionths
- Dual range Inch/Metric quick change gearbox
- Electric variable feed control on carriage and cross slide
- Hardened and ground spindle mounted on high precision preloaded angular contact ball bearings
- Hardened and ground alloy bed ways
- Turcite-B slideway bearing surface between carriage and bed
- Automatic thread length control with fine adjustable stops to provide accurate threading
- Quick-action tool post slide for threading
- 5C collet closer standard
- 3 HP main motor (Yaskawa Inverter Drive)



*Some accessories shown on machine may be optional

SPECIFICATIONS		618EVS
SPINDLE CAPACITY	With jaw chucks	5" (127 mm)
	With expanding collets	3" (76 mm)
	With round 5C collets	1-1/16" (27 mm)
	With hexagon 5C collets	7/8" (22 mm)
	With square 5C collets	3/4" (19 mm)
	With step chucks	1-1/16" to 6" (27 ~152.4 mm)
Spindle nose diameter		Ø2.189" (Ø 55.6 mm)
Spindle nose I.D. / O.D.		5C / Chuck w/ 4° Taper
Variable spindle speeds		0 ~ 3,000 rpm for 6" 3-Jaw Chuck 0 ~ 4,000 rpm for 5C Collet
Hole through spindle		1-1/4" (31.75 mm)
Distance between center		18" (457 mm)
Swing over bed		11" (280 mm)
Swing over carriage		9" (228.6 mm)
Swing over cross slide		6" (152.4 mm)
Carriage power feed range		5/16" ~ 7" (8 ~ 178 mm)
Cross slide power feed range		3/16" ~ 4" (5 ~ 102 mm)
Cross slide travel		6" (152.4 mm)
Quick-action compound slide travel		0.1" (2.5 mm)
Compound slide travel		3" (76 mm)
Tailstock spindle diameter		Ø 1.358" (Ø 34.5 mm)
Tailstock spindle taper		M.T. #2
Tailstock spindle travel		3-3/4" (95 mm)
Coolant pump		1/8 HP, 220V, 3PH
Lead screw diameter		1" – 8 thread per inch (25.4 mm)
Main motor		3 HP, 220V / 3PH (Single phase option available)
D.C. feed motor		110V, 70W
Metric threads (mm) 36 kinds		0.275, 0.2875, 0.3, 0.325, 0.35, 0.375, 0.4, 0.4375, 0.45, 0.5, 0.55, 0.575, 0.6, 0.625, 0.65, 0.675, 0.7, 0.75, 0.8, 0.875, 0.9, 1, 1.1, 1.15, 1.2, 1.25, 1.3, 1.35, 1.4, 1.5, 1.6, 1.75, 1.8, 2, 2.5, 2.7
Inch threads (TPI) 36 kinds		11, 11.5, 12, 13, 14, 15, 16, 17.5, 18, 20, 22, 23, 24, 25, 26, 27, 28, 30, 32, 35, 36, 40, 44, 46, 48, 50, 52, 54, 56, 60, 64, 70, 72, 80, 100, 108
Net / Gross weight		1,826 / 2,222 lb. (830 / 1,010 kg)
Machine packing dimension		74" x 34" x 74" (1,880 x 864 x 1,880 mm)

• Specifications are subject to change without notice for further design improvements.

STANDARD ACCESSORIES

1. Variable frequency drive	4. Tailstock	7. Manual and parts list
2. 5C lever type collet closer	5. Coolant system	
3. Tool holder	6. Leveling screws and pads	

OPTIONAL ACCESSORIES

1. Tool setting gage	2. 5C collet fixture plate	3. Chip and coolant shield
4. Vertical cut-off slide without cut-off blade	5. Steady rest	6. Follow rest
7. Face plate	8. Taper turning attachment	9. 6" zero-set 3-jaw chuck w/ back plate
10. 6" 4-jaw chuck w/ back plate	11. Four station turret	12. Micro carriage stop with indicator
13. 5C step chuck and closer	14. Halogen work light	15. 440V Frequency inverter conversion
16. MT #2 live center	17. Digital readout	



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