

HIGH SPEED PRECISION LATHES

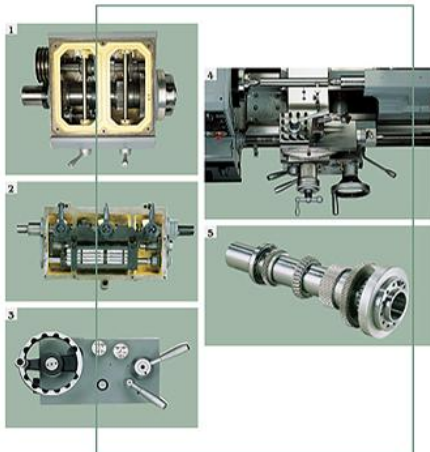
ML Series

ML-1740/1760/2040/2080
-1740V/1760V/2040V/2080V



Photo shown model: ML-1760V

- E.V.S models with auto lubrication system to headstock & external tank for cooling the oil.
- All models with one piece solid stand.
- All models with universal feed gearbox & reversible apron.
- All models meet CE. (on request)
- All models with 80mm (3.149") spindle bore, ASA D1-6.
- All models cross slide is hardened and ground to prolong operation life.



FEATURES

- All castings are properly stabilized and stress relieved.
 - Bed ways are hardened & ground to min. HS-70.
 - Turcite B coating between the bed and carriage.
 - Extremely low noise level.
 - Foot brake pedal provided.
 - Built-in coolant pump & fitting provided.
 - CSS (constant surface speed control) on request for E.V.S. model
 - Wider bed way which give absorbs vibration.
- 141 **CARRIAGE & SLIDE** • Anti-Float design backlash eliminator fitted in cross slide nut. • Safety clutch at feed shaft. • One shot lubrication in carriage & top slide. • Dual dials supply inch system screw. • Metric dial supply metric system only.
- SAFETY FEATURES** • Nylon safety gears in end train. • Shear pin in leadscrew.
- 151 **HEAVY DUTY SPINDLE** • Proven design of same models but with big spindle bore (80mm) to offer you more efficient, durable operation. • Spindle machined from forged alloy steel, hardened, ground & treated by dynamically balanced. • The spindle is supported at three-point by high precision taper roller and ball bearings keeps rigid, high accuracy.

- 111 **HEADSTOCK** • Housing is vibration-absorbent, deflection-free.
• Gears are hardened & MAAG or REISHAUER ground.
- 121 **GEAR BOX** • Universal type allowing a wide range of inch, metric, M.P., D.P. threads without change gears.
- 131 **APRON** • R/H or L/H wheel can be available on request.
• Integrated automatic control for longitudinal & cross feeds, forward & reverse feeds.



STANDARD ACCESSORIES:

- 1 Backplate for 10" chuck
- 2 Dead center MT.5
- 3 Dead center MT.4 with carbide tip
- 4 Spindle center sleeve
.....ø85mm Taper 1/19.18
- 5 Level pads.....6 pcs
- 6 Tool set & Box
- 7 Operation manual & parts list

OPTIONAL ACCESSORIES:

- 1 3-Jaws scroll 10" chuck
- 2 4-Jaws independent 10" chuck
- 3 SC collet closer attachment
- 4 SC collets (metric or inch)
- 5 Driving plate with dog
- 6 Chuck safety guard
- 7 Hydraulic copying attachment
- 8 Tool post grinder attachment
- 9 Taper turning attachment
- 10 Electrical system for CE
- 11 Protect cover on leadscrew for CE
- 12 Steady rest w/ball bearing
- 13 Follow rest w/bronze tip
- 14 Faceplate 12"
- 14 Drill chuck & arbor
- 15 Rotating center MT.4
- 16 Halogen lamp
- 17 Quick change tool post
- 18 Carriage micro stop set
- 19 Digital read out system
- 20 Full length splash guard

ML-1740
ML-1760

ML-2040
ML-2060

ML-1740V
ML-1760V

ML-2040V
ML-2060V

MODEL		ML-1740 ML-1760	ML-2040 ML-2060	ML-1740V ML-1760V	ML-2040V ML-2060V
Capacity	Height of centers	216 mm (8.5")	254 mm (10")	216 mm (8.5")	254 mm (10")
	Swing over bed	ø435 mm (17")	ø508 mm (20")	ø435 mm (17")	ø508 mm (20")
	Swing in gap	ø622 mm (24.48")	ø698 mm (27.48")	ø622 mm (24.48")	ø698 mm (27.48")
	Swing over cross slide	ø277 mm (10.9")	ø353 mm (13.89")	ø277 mm (10.9")	ø353 mm (13.89")
	Distance between centers	1000 mm (40") 1500 mm (60")	1000 mm (40") 1500 mm (60")	1000 mm (40") 1500 mm (60")	1000 mm (40") 1500 mm (60")
Headstock and Main Spindle	Width of bed	305 mm (12")			
	Gap width in front of faceplate	195 mm (7.67")			
	Spindle nose, internal taper	D1-6, ø85 mm Taper 1/19.18			
	Spindle center sleeve	ø85 mm Taper 1/19.18 x MT. No.5			
Spindle bore		ø80 mm (3.149")		ø80 mm (3.149")	
	Gear steps	12 steps / 36~1800 R.P.M.		L _ _ 30~125 R.P.M. M _ _ 125~450 R.P.M.	
	Spindle speed: / Range	A _ 36 50 _ 70 105 B _ 130 180 _ 250 380 C _ 620 900 1200 1800		3 steps / H _ 450~2200 R.P.M.	
Carriage	Length on bed / Width of carriage	440 mm (17.32") / 477 mm (18.77")			
	Cross slide travel	235 mm (9.25")	272 mm (10.7")	235 mm (9.25")	272 mm (10.7")
	Top slide travel	160 mm (6.3")			
	Whitworth threads: Kinds / Range	45 Kinds / 2~72 T.P.I.			
Threads and Feeds	Metric threads: Kinds / Range	39 Kinds / 0.2~14 mm			
	D.P. threads: Kinds / Range	21 Kinds / 8~44 D.P.			
	M.P. threads: Kinds / Range	18 Kinds / 0.3~3.5 M.P.			
	Longitudinal feeds	0.04~1.0 mm (0.0015"~0.04")			
	Cross feeds	0.02~0.5 mm (0.00075"~0.02")			
Tailstock	Quill diameter	ø59 mm (2.322")			
	Quill travel	127 mm (5")			
Motor	Taper of center.	MT.No.4			
	Main spindle	7.5HP		AC 5.5kW (7.5HP), Inverter	
	Forced lubrication for HD. Coolant pump	-----		1/4HP	
Measurement	Weight (Net /Gross) Approx.	1700 kgs / 1850 kgs	1750 kgs / 1900 kgs	1700 kgs / 1850 kgs	1750 kgs / 1900 kgs
	Packing sizes	2000kgs / 2150kgs	2050kgs / 2200kgs	2000kgs / 2150kgs	2050kgs / 2200kgs
		Length	2400 mm (94.5")	2400 mm (94.5")	2400 mm (94.5")
Width x Height	2900 mm (114.2")	2900 mm (114.2")	2900 mm (114.2")	2900 mm (114.2")	
Specifications subject to change without notice.					