MORTON.

PRECISION HIGH SPEED ENGINE LATHE
PRECISION AC VARIABLE SPEED LATHE
FCL-1730 / 1740 / 1760g FCL - 1730 / 1740 / 1760EVS
FML-1740 / 1760 / 2040 / 2060G FML-1740V / 1760V / 2040V / 2060EVS





THE LEADER IN QUALITY AND RELIABILITY
~ SINCE 1973 ~



HEAVY DUTY SPINDLE

ullet Proven design of same models but with big spindle bore(ϕ 80mm) to offer you more efficient, durable operation.



HEAD STOCK

- · Dynamic balanced spindle.
- Spindle is supported by 3 points precision bearings-2 taper roller and 1 Ball bearing.
- Housing are properly stabilized and deflection free.
- All gears and shafts are made by Chromium molybdenum steel with segmentation and precision ground.
- · Forced lubrication system.
- · Nylon safety gears in end train.



UNIVERSAL CEAR BOX

 Wide threads cutting capacity for imperial, metric, module pitch and diametrical pitch.

BED & STAND

- · One piece cast iron floor stand.
- Bed Meehanite casting, vibration stress relieved.
- Induction hardened and precision ground bed ways.
- Precision hand scraped removable gap bed.
- · Foot brake.
- Turcite B coating between the bed and carriage.



APRON

- Right hand side or left-hand size apron hand-wheel available as required.
- Integrated automatic device for longitudinal & cross feeds, forward and reverse feeds.
- · Overload safety device.



CARRIAGE & SLIDE

- Anti-float design, backlash eliminator fitted in cross slide nut.
- · Safety clutches at feed shaft lever.
- · Dual reading dials.
- · One shut lubrication for carriage and tops slide.



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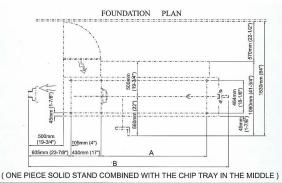
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HEAVEY DUTY PRECISION ENGINE LATHE

MODEL		FCL-1740 FCL-1760		FCL-2040 FCL-2060		FCL-1740EVS FCL-1760EVS		FCL-2040EVS FCL-2060EVS		
	Height of centers		216mm (8.5")		254mm (10")		216mm (8.5")		254mm (10")	
Capacity	Swing over bed		φ 435mm (17")		φ 508mm (20")		φ 435mm (17")		φ 508mm (20")	
	Swing in gap		φ 622mn	n (20.98")	φ 698mm	1 (27.48")	φ 622mm	n (20.98")	φ 698mn	n (27.48")
	Swing over cross slide		φ 227mn			1 (13.89")	φ 227mn			n (13.89")
	Distance between centers		1000mm (40")	1500mm (60")	1000mm (40")	1500mm (60")	1000mm (40")	1500mm (60")	1000mm (40")	1500mm (60")
	Width of bed		305mm (12")							
	Gap width in front of faceplate		195mm (7.67")							
Headstock & Main spindle	Spindle nose, Internal taper		D1-6 , φ85mm Taper 1/19.18							
	Spindle center sleeve		φ85mm Taper 1/19.18 x MT. No.5							
	Spindle bore		φ80mm (3.149")							
	Gear steps Spindle speed:		12 steps 36 ~ 1800 R.P.M. A 36 50 70 105 B 130 180 250 380 C 620 900 1200 1800			3 steps $\frac{L}{H} = \frac{30}{125} = \frac{R.P.M.}{R.P.M.}$ 1 steps $\frac{M}{H} = \frac{125}{450} = \frac{R.P.M.}{R.P.M.}$ 1 Infinitely variable				
Carriage	Length on bed / Width of carriage		440mm (17.32") / 477mm (18.77")							
	Cross slide travel		270mm (10.62")							
	Top slide travel		120mm (4.72")							
Threads & Feeds	Whitworth threads: Kinds Range		45 Kinds 2 ~ 72 T.P.I.							
	Metric threads:		39 Kinds							
		Range	0.2 ~ 14mm							
	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 ~ 1.0mm (0.0015" ~ 0.04")							
	Cross feeds		0.02 ~ 0.5mm (0.00075" ~ 0.02")							
Tailstock	Quill diameter		φ59mm (2.322")							
	Quill travel		127mm (5")							
	Taper of center		MT. No.4							
Motor	Main spindle		5.5kw (7.5HP)				AC 5.5kW (7.5HP),Inverter			
	Forced lubrication for HD.					1/4HP				
	Coolant pump		1/8HP							
Measurement	Weight (Net / Gross) Approx.		1700kgs (3746 lbs) / 2000kgs (4408 lbs)	1850kgs (4077 lbs) / 2150kgs (4738 lbs)	1750kgs (3857 lbs) / 2050kgs (4518 lbs)	1900kgs (4187 lbs) / 2200kgs (4848 lbs)	1700kgs (3746 lbs) / 2000kgs (4408 lbs)	1850kgs (4077 lbs) / 2150kgs (4738 lbs)	1750kgs (3857 lbs) / 2050kgs (4518 lbs)	1900kgs (4187 lbs) / 2200kgs (4848 lbs)
	Packing sizes	Length Width x Height	2400mm (94.5")	2900mm (114.2") Width 1	2400mm (94.5") 120mm (4	2900mm (114.2") 14.1") x	2400mm (94.5") Height 1	2900mm (114.2*) 745mm (6	2400mm (94.5")	2900mm (114.2")
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[•]We reserve the right to modify and improve above spcification without notice.





MODEL	Α	В
FCL - 1730 , FCL - 1730V	1255 mm (49")	2600 mm (102")
FCL - 1740 , FCL - 1740 V FML - 1740 , FML - 1740 V FML - 2040 , FML - 2040 V	1505 mm (59")	2850 mm (112")
FCL - 1760 , FCL - 1760 V FML - 1760 , FML - 1760 V FML - 2060 , FML - 2060 V	2005 mm (79")	3350 mm (132")

STANDARD ACCESSORIES

- Main motor.
- Coolant system.
- ▶ Chip and coolant tray.
- Back plate for chuck.
- ▶ 4-way tool post.
- Two centers.
- Center sleeve.
- ▶ Tools and toolbox.
- Leveling pad-8 pcs.
- ► Halogen work lamp.
- Emergency stop switch.
- Ball bearing type steady rest. Ball bearing type follow rest.
- Face plate 40mm (16").
- Department of the Operational manual and spare parts list.
- Full length splash guard.

OPTIONAL ACCESSORIES

- ≥ 3 jaws scroll chuck 250mm (10").
- ▶ 4 jaws scroll chuck 250mm (10").
- ▶4 jaws independent chuck 350mm (14").
- ▶5C collet closer attachment.
- ▶5C collets (metric and inch).
- Driving plate with dog.
- Carbide tipped center MT No.4
- ▶ Live cente MT No.5
- Inter-changeable insert live center MT No.4
- ▶ Bull nose live center MT No.4
- ▶ 16mm (5/8") drill chuck with key and chuck arbor.
- ▶ 16mm (5/8") keyless drill chuck and chuck arbor.
- ▶ Micro carriage stop.
- Turret type carriage stopper.
- ▶ Quick change tool psot.
- ▶ Taper turning attachment.
- Tool post gridner.
- Digital readout system.
- ▶ Chuck safet guard. CE norms.

PREJOTH INTERNATIONAL LTD.