

# Morton - Heavy Duty Precision Engine Lathe

FEL - 1440HG / 1460HG  
 FEL-1640 / 1660HG / FEL-1640 / 1660EVS

## STANDARD ACCESSORIES

- MOTOR AND COOLANT SYSTEM.
- 4 WAY TOOLPOST.
- CENTERS AND CENTERS SLEEVE.
- THREADS INDICATOR.
- SERVICE TOOLS AND TOOL BOX.
- OPERATION MANUAL AND SPARE PARTS LIST.
- LEVELLING BLOCKS.
- TOUCH UP PAINT.

## OPTIONAL ACCESSORIES

- 3 JAW SCROLL CHUCK 200mm (8").
- 4 JAW INDEPENDENT CHUCK 250mm (10").
- FACEPLATE.
- HALOGEN WORKING LIGHT.

## CE MARKS FOR EUROPEAN-EXTRA COST

- CHUCK GUARD.
- LEADSCREW PROTECTION COVER.
- TOOLPOST GUARD.
- CE STANDARD ELECTRICAL ELEMENTS AND ELECTRICAL PARTS.

## OPTIONAL ACCESSORIES-EXTRA COST

- 5C COLLET CLOSER ATTACHMENT.
- 5C COLLETS (INCH OR METRIC).
- CARBIDE TIPPED CENTER MT# 4.
- TAPER TURNING ATTACHMENT.
- LIVE CENTERS-MT# 4.
- INTERCHANGEABLE INSERT LIVE CENTER MT# 4.
- FULL LENGTH SPLASH GUARD.
- BULL NOSE LIVE CENTER MT# 4.
- AMERICAN TYPE-T-SLOT SINGLE TOOLPOST.
- QUICK CHANGE TOOLPOST.
- BACK TOOLHOLDER.
- MICRO BED STOP.
- TURRET TYPE BED STOP.
- DRILL CHUCK WITH ARBOR.
- HYDRAULIC COPY ATTACHMENT.
- DIGITAL READOUT FOR 2 AXIS.

## SPECIFICATIONS

Model		FEL-1440 / 1460HG FEL-1440 / 1460EVS	FEL-1640 / 1660HG FEL-1640 / 1660EVS
Capacity	Height of centers	180mm (7.08")	205mm (8.07")
	Swing over bed	360mm (14.16")	Ø410mm (16.14")
	Swing in gap	533mm (20.98")	Ø583mm (22.95")
	Swing over cross slide	214mm (8.42")	Ø264mm (10.39")
	Distance between centers	1000mm (40") / 1500mm (60")	1000mm (40") / 1500mm (60")
	Width of bed	260mm (10.236")	
Headstock & Main spindle	Spindle nose, Internal taper	D1-6, MT. No.6	
	Spindle center sleeve	MT. No.6 x MT. No.4	
	Spindle bore	Ø52.5mm (2.066")	
	Spindle speed: Gear steps / Range	8 steps / 70 - 1800 RPM 16 steps / opt-8 pole - 40 ~ 1000 RPM 4 pole - 80 ~ 2000 RPM	EVS - 2 steps L - 20 - 400 RPM H - 400 - 2500 RPM infinitely variable
Carriage	Length of bed / Width of carriage	513mm (20.19") / 412mm (16.22")	
	Cross slide travel	220mm (8.6")	
	Top slide travel	140mm (5.5")	
Threads & Feeds	Whitworth threads: Kinds / Range	45 Kinds / 2 ~ 72 T.P.I.	
	Metric threads: Kinds / Range	39 Kinds / 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	0.05 ~ 1.7mm (0.002" ~ 0.067")	
Tailstock	Cross feeds	0.025 ~ 0.85mm (0.001" ~ 0.034")	
	Quill diameter	Ø52mm (2.047")	
	Quill travel	152mm (6")	
	Taper of center	MT. No.4	
Motor	Main spindle	HG - 3.75Kw (5HP)	EVS - 3.75Kw (5HP) + Inverter
	Coolant pump	1/8HP	
Measurement	Weight (Net / Gross) Approx.	1440kgs (3173 lbs) / 1500kgs (3306 lbs) 1460kgs (3217 lbs) / 1600kgs (3526 lbs)	1640kgs (3614 lbs) / 1650kgs (3636 lbs) 1660kgs (3658 lbs) / 1750kgs (3857 lbs)
	Length	2270mm (89.4")	
	Packing sizes Width x Height	Width 1120mm (44.1") x Height 1745mm (68.7")	

\*We reserve the right to modify and improve above specification without notice