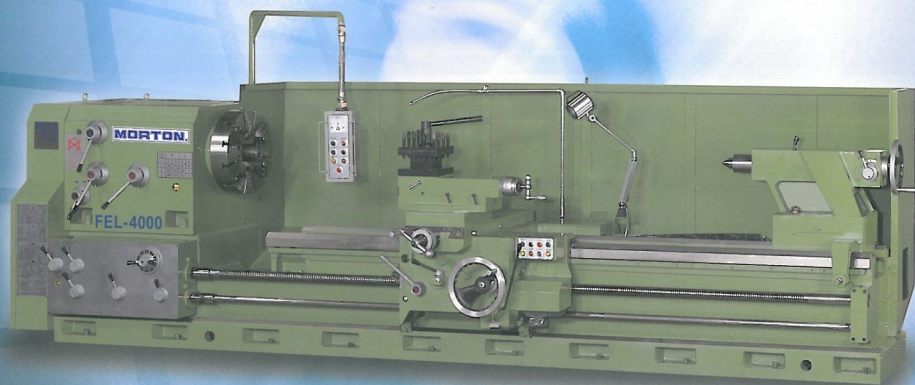


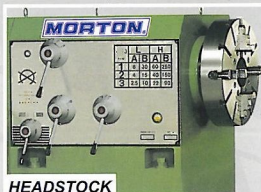
MORTON®

HEAVY DUTY PRECISION LATHE



THE LEADER IN QUALITY AND RELIABILITY
~ SINCE 1973 ~

MAIN FEATURES..



HEADSTOCK

The spindle is supported by high precision bearings suitable for both heavy and precision cutting.

The speeds of spindle have 12 steps and designed on theoretical base.

All gears and shafts are made of Ni-Cr-Mo steel and carbonize and ground.

Control of main drive through electromagnetic brake, and automatic forced



The gear box is entirely enclosed construction and provide a large of feedings or thread cuttings (inch, metric, module pitch and diametral pitch).

Inch and Metric threading with out changing gear.

Oil both lubrication and built in safety clutch safeguard the continuous and proper operation of the universal gear

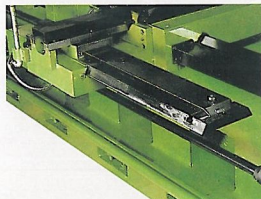


CARRIAGE & APRON

The compound rest can be fixed the cross-slide anywhere, convenient cutting work application.

The apron gave automatic lubrication and locked-safe device protect threads and feeding same as operation.

Rapid traverse drive for longitudinal- cross feeding and forward & reverse feed are operating very light and convenience.



TAPER ATTACHMENT

The taper attachment was designed for easy operate and rapid cut taper in high accuracy, the device will produce a ± 10 angles.

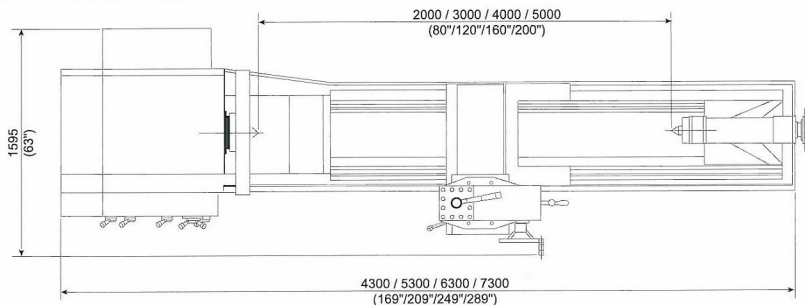
Electric cable in steel cover to protect wire from chips and preventing trouble with electric wires.

SPECIFICATION..

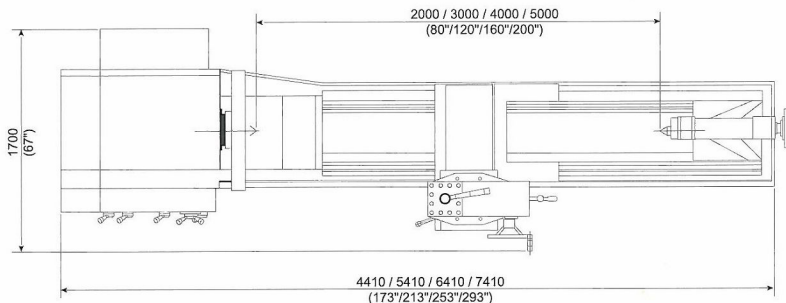
CAPACITY	FEL-3600		FEL-4000		FEL-4500		FEL-5100	
Swing Over Bed	920mm (36")		1020mm (40")		1160mm (45")		1310mm (51")	
Swing Over Cross Slide	650mm (25")		750mm (29")		850mm (33")		1000mm (40")	
Swing over Gap	1400mm (55")		1500mm (60")		1700mm (67")		1850mm (72")	
Width of Gap	508mm (20")				560mm (22")			
Distance Between Centers	2000mm(80")	2500mm(100")	3000mm(120")	4000mm(160")	5000mm(200")	6000mm(240")	7000mm(275")	
HEAD STOCK								
Spindle Bore	105mm (4-1/8") / *153mm (6") (Opt)				153mm (6")			
Spindle Nose	ASA-A2-11							
Taper of Spindle Center	Morse Taper no.6							
Number of Spindle Speed	12 steps							
Range of Spindle Speeds	4 - 400 rpm				3 - 300 rpm			
FEEDS & THREADS CUTTING								
Leadscrew Diameter	57mm (2-1/4")							
Leadscrew Pitch	2 TPI / * 12mm PITCH (Opt)							
Imperial Threads Cutting	1/4-30 TPI (70 kinds)							
Metric Threads Cutting	1-120mm (62 kinds)							
Module Threads Cutting	0.25-30 M.P. (53 kinds)							
Diameter Threads Cutting	1-120mm DP (70 kinds)							
Longitudinal Feeds	0.085-10.08 mm/rv. (0.004-0.40 Inch/rev.)							
Cross Feeds	0.042-5.04 mm/rev. (0.002-0.20 Inch/rev.)							
CARRIAGE								
Cross Slide Travel	610mm (24")				635mm (25")			
Compound Slide Travel	365mm (14")				420mm (16-1/2")			
Rapid Travel Speed to Carriage	2000mm/min. (80"/min.)							
TAILSTOCK								
Quill Diameter	105mm (4-1/8")				125mm (4-7/8")			
Quill Travel	285mm (11-1/4")				340mm (13-3/8")			
Taper of Spindle Center	M.T. NO.6							
BED								
Width of Bed	560mm (22")				660mm (26")			
Length of Bed—FEL-3600/4000	3900mm(154")	4400mm(174")	4900mm(194")	5900mm(232")	6900mm(272")	7900mm(311")	8900mm(350")	
Length of Bed—FEL-4500/5100	4000mm(157")	4500mm(177")	5000mm(197")	6000mm(237")	7000mm(276")	8000mm(315")	9000mm(354")	
MOTOR								
Main Spindle Motor	11.25 KW (15HP) / * 15 KW (20HP)				15KW (20HP) / * 18.75 KW (25HP)			
Rapid Travel Motor	0.75 KW (1HP)							
Coolant motor	0.375 KW (1/2HP)							
Net Weight—FEL-3600/4000	7300 kg (16089 lbs)	7800 kg (17191 lbs)	8300 kg (18293 lbs)	9300 kg (20497 lbs)	10300 kg (22701 lbs)	11300 kg (24905 lbs)	12300 kg (27109 lbs)	
Net Weight—FEL-4500/5100	8500 kg (18734 lbs)	9100 kg (20056 lbs)	9700 kg (21378 lbs)	10900 kg (24023 lbs)	12100 kg (26668 lbs)	13300 kg (29313 lbs)	14500 kg (31958 lbs)	
Packing Size	FEL-3600/4000	180" x 65" x 72"	200" x 65" x 72"	220" x 65" x 72"	260" x 65" x 72"	300" x 65" x 72"	340" x 65" x 72"	380" x 65" x 72"
(LxWxH)	FEL-4500/5100	180" x 80" x 77"	200" x 80" x 77"	220" x 80" x 77"	260" x 80" x 77"	300" x 80" x 77"	340" x 80" x 77"	380" x 80" x 77"

※The descriptions, illustrations and specifications given here are subject to alteration without notice and thus without any obligation.

FEL-3600/4000



FEL-4500/5100



STANDARD ACCESSORIES

1. Steady rest —1 PC
2. Center —2 PCS
3. Tool Post Wrench —1 PC
4. Tool Box & Tool —1 SET

OPTIONAL ACCESSORIES

1. 3-Jaw Scroll Chuck
2. 4-Jaw Independent Chuck
3. Follow Rest
4. Taper Turning Attachment
5. Coolant Pump



FREJOTH INTERNATIONAL LTD.

8F #501, SEC.2, WU CHUAN W. RD., TAICHUNG 408, TAIWAN, R.O.C.

TEL: 886-4-23816977

FAX: 886-4-23813584, 23813769

E-mail: mail@frejoth.com.tw

web-site <http://www.frejoth.com.tw>