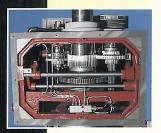


FSML-1740/1760/1780 FSML-2040/2060/2080





Headstock is made of rigid, high grade cast iron.

All geared headstock, Main gears is made from Chromium, Nickel, Molybdenum alloy steel and are case hardened and "REISHAUER" ground. The headstock provides 12 spindle speeds which are in geometric progression

and are easily selected.

Hardened and ground main spindle is supported by three bearings in three places (the front and middle are precision taper roller bearing, The rear is roller bearing). D1-8" CAMLOCK spindle nose has a large hole thru the spindle of 3-1/4 inch (82mm) The automatic lubrication to all running parts inside headstock is forced by a geared lubrication pump.





GEARBOX

The totally enclosed gearbox provides the most comprehensive range of inch and metric feeds and threads without changing end gears. Full range of thread pitches, metric, inch, module and diametral.

Gearing is easily and quickly changed by levers conveniently mounted in the front of the control panel.

All gears are case hardened and are made of special alloy steel. Feedshaft and leadscrew equipped overload protection.

SADDLE AND COMPOUND REST

Saddle, cross slide and top slide fitted with adjustable taper gib strips for wear compensation.

Lubricated by oil bath.

Cross slide screw incorporates backlash eliminator.

Centrally lubricated slides use one shot system.

Compound rest is with a four-way toolpost.

APRON

Automatic feeding and threading are fully interlock to prevent simultaneous engagement of feeds and threads.

Oil bath lubrication of apron.

Pull and push a knob in the front of the apron, wich can change the feed cutting direction from the apron, without stopping the lathe.

There are one safety device, when overload cutting, the slipping clutch

system will automatically shut down the feed cutting.



The bedways are induction hardened and then precision form ground.

TAILSTOCK

Quick-acting clamps for locking tailstock on the bed and for locking quill. The hardened and ground quill is graduated in inches and millimeters.



| DDIEE | SPECIFIC | ATION |
|-------|-----------------|-------|
| DKIEF | SPECIFIC | AHUN |

| MODEL | | 1740 | 1760 | 1780 | 2040 | 2060 | 2080 |
|---|---|---|--|---------|---|---------|---------|
| NOMINAL | SIZE | | | | | | |
| Swing over to Swing over of Height of cer Distance bet | cross slide | 2 | 440mm 17-5/16in 272mm 10-3/4in 220mm 8-5/8in 1000mm40in 1500mm60in 2000mm80in | | 510mm 20in 342mm 13-1/2in 255mm 10in 1000mm40in 1500mm60in 2000mm80i | | |
| BED | | | | | | | |
| Width of bedways Total length of bed | | 2000mm78in | 330mm 13in 2000mm78in 2510mm98in 3020mm118in | | 330mm 13in 2000mm78in 2510mm98in 3020mm118 | | |
| Gap type | Swing over gap Length of gap Width in front of face plate | | 660mm 26in 300mm 11-3/4in 190mm 7-1/2in | | 730mm 28-3/4in 300mm 11-3/4in 175mm 6-3/4in | | |
| SPINDLE | | | Marie | | | | |
| Spindle nose Spindle bore Taper of spir Number of spir Range of spir | ndle bore pindle speeds | D1-8 CAMLOCK 82mm 3-1/4in M.T.#5 12 20-1800 R.P.M. | | | | | |
| TOOL SLID | Е | | | | | | |
| Total travel of Total travel of Max. size cu | of top slide | 260mm 10-1/4in 130mm 5-1/8in 25mm 1 in | | | | | |
| TAIL STOC | K | | | | | | |
| Total travel of Taper in barr Diameter of | el | 150mm 6in M.T.#5 65mm 2-9/16in | | | | | |
| THREADS | | | | | | | |
| Number of In Range of Inc Number of M Range of Me Number of D Range of Dia | h threads fetric pitches tric pitches viametral pitches metral pitches fodule pitches | Dia. 35mm 1-3/8in Pitch 6mm 4 T.P.I. 48 2 - 72 TPI 48 0.2 - 14 mm 24 8 - 60 D.P. 24 0.2 - 3.5 M.P. | | | | | |
| FEEDS | | | | | | | |
| Feed rod dian Number of fe Range of lon Range of cro | ed change gitudinal feeds | 25 mm 1 in 36 0.06-2.00mm/rev. 0.0025-0.07in/rev. 0.03-0.80mm/rev. 0.0010-0.03in/rev. | | | | | |
| MOTOR | | | | | | | |
| Main spindle Coolant pum | | | 10HP 7kW 1/8HP 0.1kW | | | | |
| | weight | 1700kgs | 1800kgs | 2000kgs | 1800kgs | 1900kgs | 2100kgs |

FEATURERS

* Heavy duty geared head; hardened and ground gears.

* 3-1/4" inch (82 mm.) hole through spindles.

* 3-point supported spindle using 2 precision taper roller bearings and 1 ball bearing.

* 12 step spindle speeds 20-1800 rpm. shift in geometric progression.

* Forced spray lubrication system used for headstock.

* One shot lubrication pump supply oil to cross slide and bedways.

* Direct selection of inch and metric threads without change of gears. * Adjustable overload clutch in apron to ensure proper cutting load.

* Cross slide screw permanently immersed in oil and supported by thrust bearing.
* Induction hardened and precision ground bedway.

* One piece casting base for maximum rigidity.

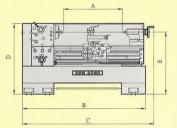
STANDARD ACCESSORIES

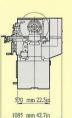
- * Back plate for chuck
- * Coolant system
- * 4-way toolpost
- * Threading dial indicator
- * 4-position auto carriage feed stop
- * Main motor 10HP 4P
- * Tool box
- * Center sleeve
- * Two dead centers
- * Camlock spindle wrench
- * Oil gun (piston oiler)
- * Screw driver
- * Spanner (double-ended wrench)
- * Hexagonal wrench
- * Optional manual

OPTIONAL ACCESSORIES

- * 3-jaw scroll chuck 9inch, 10inch, 12inch
- * 4-jaw independent chuck 12inch, 14inch, 16inch
- * Face plate 16inch, 20inch
- * Steady rest
- * Follow rest
- * Splash guard
- Telescopic taper attachmet
- * Quick change toolpost
- * Chuck guard
- * Live center (MT, No. 5)
- * Drill-chuck W/arbor
- * Work lamp (quartz halogen lamp)

MEASUREMENT





| MODEL | Α | В | С | D | E |
|-------|--------|--------|--------|--------|--------|
| 1740 | 1000mm | 2190mm | 2340mm | 1220mm | 1070mm |
| | 40in | 86in | 92in | 48in | 42in |
| 1760 | 1500mm | 2700mm | 2850mm | 1220mm | 1070mm |
| | 60in | 106in | 112in | 48in | 42in |
| 1780 | 2000mm | 3210mm | 3360mm | 1220mm | 1070mm |
| | 80in | 126in | 132in | 48in | 42in |
| 2040 | 1000mm | 2190mm | 2340mm | 1257mm | 1105mm |
| | 40in | 86in | 92in | - 50in | 44in |
| 2060 | 1500mm | 2700mm | 2850mm | 1257mm | 1105mm |
| | 60in | 106in | 112in | 50in | 44in |
| 2080 | 2000mm | 3210mm | 3360mm | 1257mm | 1105mm |
| | 80in | 126in | 132in | 50in | 44in |



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