

SPECIFICATION

| MODEL | 1440 NC | 1740 NC | 1760 NC | 1780 NC | 2040 NC | 2060 NC | 2080 NC |
|------------------------------|-------------------|-------------------|--------------------|--------------------------------------|-------------------|--------------------|--------------------|
| NORMAL SIZE | | | | | | | |
| Swing Over Bed | 356 mm 14" | 440 mm 17-5/16" | | | 510 mm 20" | | |
| Height of Center | 172 mm 6.7" | 220 mm 8-5/8" | | | 255 mm 10" | | |
| Swing Over Cross Slide | 220 mm 8-5/8" | 235 mm 9-1/4" | | | 305 mm 12" | | |
| Distance Between Centers | 1000 mm 40 in | 1000 mm 40 in | 1500 mm 60 in | 2000 mm 80 in | 1000 mm 40 in | 1500 mm 60 in | 2000 mm 80 in |
| Width of Bedways | 206 mm 8-1/2 in | 330 mm 13 inch | | | | | |
| HEADSTOCK | | | | | | | |
| Spindle Nose Mounting | D1-4 CAMLOCK | | | D1-8 CAMLOCK | | | |
| Spindle Bore | 38 mm 1-1/2" | | | 86 mm 3-3/8" | | | |
| Taper of Spindle Bore | MT#5 | | | MT#7 (Sleeve MT#5) | | | |
| Spindle Speed HI | 2000~410 RPM | | | 2000~240 RPM | | | |
| MID | 540~110 RPM | | | 380~45 RPM | | | |
| LO | 140~30 RPM | | | 84~10 RPM | | | |
| SLIDE | | | | | | | |
| Cross Slide Travel (X Axis) | 203 mm 8" | | | 280 mm 11" | | | |
| Dia. of Ballscrew | 25 mm | | | 25 mm | | | |
| Rapid Travel (X Axis) | 6 m/min | | | 6 m/min | | | |
| Servo Motor (X Axis) | 7.3 N/m | | | 7.3 N/m | | | |
| Longitudinal Travel (Z Axis) | 840 mm 33-1/2" | 920 mm 36-1/4" | 1430 mm 56-1/4" | 1940 mm 76-3/8" | 920 mm 36-1/4" | 1430 mm 56-1/4" | 1940 mm 76-3/8" |
| Dia. of Ballscrew | 32 mm | | | 40 mm | | | |
| Rapid Travel (Z Axis) | 8 m/min | | | 8 m/min | | | |
| Servo Motor (Z Axis) | 7.3 N/m | | | 9.3 N/m | | | |
| TURRET | | | | | | | |
| Max. Cutting Tools | 20 mm | | | 25 mm | | | |
| TAILSTOCK | | | | | | | |
| Quill Diameter | 45 mm 1-3/4" | | | 75 mm 3" | | | |
| Quill Taper | M.T.#3 | | | M.T.#5 | | | |
| Quill Travel | 120 mm 4-3/4" | | | 160 mm 6-5/16" | | | |
| MOTOR | | | | | | | |
| Main Motor | 5 HP 3.5 kw | | | 10 HP 7.5 kw | | | |
| Coolant Pump | 1/8 HP | | | 1/8 HP 25L/min 0.4kg/cm ² | | | |
| WEIGHT | | | | | | | |
| Machine Weight | 1200 kgs | 1800 kgs | 2000 kgs | 2300 kgs | 2100 kgs | 2300 kgs | 2600 kgs |

STANDARD ACCESSORIES

- CNC control system
- Back plate for chuck
- Coolant pump
- Automatic lubrication system
- Work lamp
- Safety guard
- Center sleeve
- Tool box and adjusting tools
- Two dead centers
- Operational manual & part list

OPTIONAL ACCESSORIES

- 3-jaw scroll chuck
- 4-jaw independent chuck
- Face plate
- Steady rest
- Follow rest
- Quick change toolpost with 4 pcs toolholders
- Electrical 4 way toolpost
- Hydraulic 8 station turret
- Electrical 8 station turret
- Hydraulic chuck with draw bar & foot pedal operation
- Hydraulic tailstock
- Live center

MORTON®

FLAT BED CNC LATHE

FSML-1440NC/1740NC/1760NC/1780NC/2040NC/2060NC/2080NC



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SPINDLE BORE 86 MM

MODEL: FSML- 1740NC / 1760NC / 1780NC
FSML- 2040NC / 2060NC / 2080NC



FSML-2080NC

SPINDLE BORE 38 MM

MODEL: FSML-1440NC



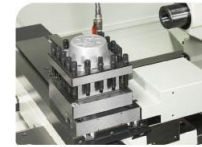
FSML-1440NC

FEATURES

- FAGOR, FANUC, SIEMENS, SYNTEC, LNC, CENTROID are available.
- CNC and manual operation.
- Dual electronic hand-wheels for manual turning & Teach in mode.
- Integrated PLC.
- Semi-automatic, automatic (cycle) and part program modes.
- Rapid traverse.
- Automatic home searching.
- Gear headstock 3 steps, 10-2000 r.p.m. infinite variable spindle speed.
- To supported spindle using high precision taper roller bearings.
- All geared headstock, main gears are made from Chromium, Nickel, molybdenum alloy steel and are case hardened and "REISHAUER" ground.
- Forced spray lubrication system used for headstock.
- High precision ball-screws.
- Hardened of bed-way & cross ways meet HB 450.
- Auto lubrication unit for all slide-ways surface and ball-screw.



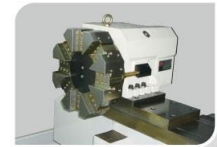
Electrical box



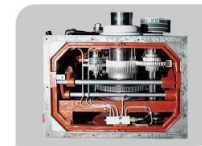
Electrical 4 way tool post



Hydraulic tailstock



Hydraulic turret



Headstock



Quick change tool post



Electrical turret

CNC LATHE (Flat-bed type)

MORTON®

Model: FSML-1440NC



1440NC

Model: FSML-1740NC 1760NC 1780NC
FSML-2040NC 2060NC 2080NC



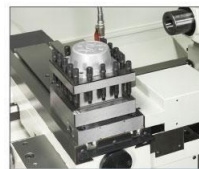
1740NC



2080NC

FEATURES

- FAGOR, FANUC, SIEMENS, SYNTEC, LNC, CENTROID are available.
- CNC and manual operation.
- Dual electronic hand-wheels for manual turning & Teach in mode.
- Integrated PLC.
- Semi-automatic, automatic (cycle) and part program modes.
- Rapid traverse.
- Automatic home searching.
- Gear headstock 3 steps, 30-2000 r.p.m. infinite variable spindle speed.
- To supported spindle using high precision taper roller bearings.
- All geared headstock, main gears are made from Chromium, Nickel, molybdenum alloy steel and are case hardened and "REISHAUER" ground.
- Forced spray lubrication system used for headstock.
- High precision ball-screws.
- Hardened of bed-way & cross ways meet HB 450.
- Auto lubrication unit for all slide-ways surface and ball-screw.



▲ Electrical 4 way toolpost



▲ Hydraulic system Turret



▲ Electrical system Turret



▲ Hydraulic Tailstock

BRIEF SPECIFICATION

| MODEL | FSML-1440NC | FSML-1740NC | FSML-1760NC | FSML-1780NC | FSML-2040NC | FSML-2060NC | FSML-2080NC |
|------------------------------|-----------------|------------------|------------------|--|------------------|------------------|------------------|
| NOMINAL SIZE | | | | | | | |
| Swing over Bed | 356 mm 14" | 440 mm 17-5/16" | | | 510 mm 20" | | |
| Height of Center | 176 mm 6-7/8" | 220 mm 8-5/8" | | | 255 mm 10" | | |
| Swing over Cross Slide | 172 mm 6-2/3" | 235 mm 9-1/4" | | | 305 mm 12" | | |
| Distance Between Centers | 950 mm 37 in | 1000 mm 40 in | 1500 mm 60 in | 2000 mm 80 in | 1000 mm 40 in | 1500 mm 60 in | 2000 mm 80 in |
| Width of Bedways | 206 mm 8-1/2 in | 330 mm 13 inch | | | | | |
| HEADSTOCK | | | | | | | |
| Spindle nose mounting | D1-4 CAMLOCK | | | D1-8 CAMLOCK | | | |
| Spindle bore | 38 mm 1-1/2" | | | 86 mm 3-3/8" | | | |
| Taper of spindle bore | MT#5 | | | MT#7 (Sleeve MT#5) | | | |
| Spindle speed | HI | 2000 ~ 410 RPM | | | 2000 ~ 240 RPM | | |
| | MID | 540 ~ 110 RPM | | | 380 ~ 45 RPM | | |
| | LO | 140 ~ 30 RPM | | | 84 ~ 10 RPM | | |
| SLIDE | | | | | | | |
| Cross slide travel (X axis) | 180 mm 7" | | | 280 mm 11" | | | |
| Dia. of ballscrew | 25 mm | | | 25 mm | | | |
| Rapid travel (X axis) | 6 m/min | | | 6 m/min | | | |
| Servo motor (X axis) | 7.3 N/m | | | 7.3 N/m | | | |
| Longitudinal travel (Z axis) | 840 mm 33-1/2" | 870 mm 34-1/4" | 1380 mm 54-5/16" | 1890 mm 74-3/8" | 870 mm 34-1/4" | 1380 mm 54-5/16" | 1890 mm 74-3/8" |
| Dia. of ballscrew | 32 mm | | | 40 mm | | | |
| Rapid travel (Z axis) | 8 m/min | | | 8 m/min | | | |
| Servo motor (X axis) | 7.3 N/m | | | 9.3 N/m | | | |
| TURRET | | | | | | | |
| Max. cutting tools | 20 mm | | | 25 mm | | | |
| TAILSTOCK | | | | | | | |
| Quill diameter | 45 mm 1-3/4" | | | 75 mm 3" | | | |
| Quill taper | M.T.#3 | | | M.T.#5 | | | |
| Quill travel | 100 mm 4-3/4" | | | 160 mm 6-5/16" | | | |
| MOTOR | | | | | | | |
| Main motor | 5 HP 3.5 kw | | | 10 HP 7.5 kw | | | |
| Coolant pump | 1/8 HP | | | 1/8 HP 25 L/min 0.4 kg/cm ² | | | |
| SIZE & WEIGHT | | | | | | | |
| Machine weight | 1200 kgs | 1800 kgs | 2000 kgs | 2300 kgs | 2100 kgs | 2300 kgs | 2600 kgs |
| Machine size | 82" x 50" x 72" | 98" x 66" x 74" | 118" x 66" x 74" | 138" x 66" x 74" | 98" x 66" x 74" | 118" x 66" x 74" | 138" x 66" x 74" |
| Packing size | 90" x 60" x 83" | 105" x 73" x 85" | 125" x 73" x 85" | 145" x 73" x 85" | 105" x 73" x 85" | 125" x 73" x 85" | 145" x 73" x 85" |

We reserve the right to modify and improve our products.

Standard Accessories

1. CNC controller.
2. Back plate for chuck.
3. Coolant pump.
4. Automatic lubrication system.
5. Safety guard.
6. Work lamp.
7. Electronic hand wheel X & Z axis.
8. Main motor.
9. Tool box and adjusting tools.
10. Center sleeve.
11. Two deal centers.
12. Optional manual & part list.

Optional Accessories

1. 3-jaw scroll chuck.
2. 4-jaw independent chuck.
3. Electrical 4 way toolpost.
4. Hydraulic 8 position turret.
5. Hydraulic chuck with draw bar.
6. Hydraulic tailstock.
7. Quick change toolpost with 4 pcs toolholders.
8. Steady rest.
9. Follow rest.
10. Face plate.
11. Live center.
12. Drill chuck with arbor.

Due to different model with different equipments.