# High Precision Feed and Lead Screw Lathe Machine – Unique in Terms of Precision and Operation



This kind of MM-D410 X 1500 is high precision Horizontal Turning Metal Engine Lathe which is been made in ISO9001 factory from MAXNOVO MACHINE with CE Safety Certification. The high user-friendliness makes this metal turning lathe machine very popular for machine construction, plant construction and single-unit production. It distinguishes itself by quality, accurate, sustainability and consistent value. Quality at a cost-efficient price and this lathe machine is for demanding users.

## Main Feature :

### Facts that impress in terms of Quality, Performance and Price

- Maximum Swing over Bed is 410 mm (diameter)
- Hardened and ground bed guide-ways
- Camlock spindle seat DIN ISO 702-2 No. 6
- Coolant equipment with separate coolant tank
- Easy and compete draining and cleaning according to DIN
- Guaranteed true running accuracy of the spindle nose of better than 0.015 mm
- Right-handed / Left-handed rotation on the bed slide switchable via stem
- Mechanic longitudinal feed switch-off of the slide with four adjustable eccentrics
- Central lubrication at the bed slide
- Considerable reduction of the manufacturing times
- Excellent Machining Accuracy
- Lead Screw Cover is Optional
- Error rate is reduced
- Electrical system with Siemens components
- First filling with high grade Mobil oil
- Adjustable scale of the threading gauge
- Halogen machine lamp with articulated arm
- Central lubrication at the bed slide
- Quick Change Tool Holder is Optional
- Digital Position Display is Optional
- Certificate of Original (CO, FORM A, FORM E, FORM F)

**Main spindle**
- Hardened and ground
- Running in an oil bath
- Running on 2 readjustable precision taper roller bearings
- Gearwheels smooth running, hardened and ground

**Fast acting feed gear**
- Closed structure
- Hardened and ground toothed wheels and shafts
- Running in an oil bath on precision bearings

**Slide**
- Precisely worked
- Handwheels with adjustable precision scaling of 0.04/0.02 mm
- Quick action tool holder
- All guidings adjustable via V-ledges
- Chip protection at the top slide
- Shafts and wheels running in the oil bath
- Range of adjustment top slide ± 90°

**Energy chain**
- Cable duct in an energy chain



**Base frame and lathe bed**
- Meehanite casting
- One-piece casting

**Bed bridge**
The turning diameter is increased to 690 mm by taking out the bed bridge

**Quality lathe chuck**
Precisely
Higher speed is possible
High concentricity and repeat-ability

**Tailstock**
Adjustable by ± 15 mm for taper turning
Tailstock spindle sleeve and handwheel with adjustable pre-cision scaling of 0.025 mm



## Technical Data :

| Product Name : | High Precision Metal Centre Engine Lathe Machine | | |
|---|---|---|---|
| Product Item : | MM-D410 X 1000 | MM-D410 X 1500 | MM-D410 X 2000 |
| **Machine Data** | | | |
| Maximum Swing over Bed : | Ø 410 mm | Ø 410 mm | Ø 410 mm |
| Distance between Centers : | 1000 mm | 1500 mm | 2000 mm |
| Turning over Cross Slide : | Ø 220 mm | Ø 220 mm | Ø 220 mm |
| Turning Diameter in Bed Bridge : | Ø 640 mm | Ø 640 mm | Ø 640 mm |
| Centre Height : | 205 mm | 205 mm | 205 mm |
| Length of Bed Bridge : | 165 mm | 165 mm | 165 mm |
| Bed Width : | 300 mm | 300 mm | 300 mm |
| Spindle Speed : | 25 — 2000 RPM | | |
| Number of Steps : | 12 Steps | | |
| **Headstock** | | | |
| Spindle Taper : | MT 6 | | |
| Spindle Seat : | Camlock DIN ISO702-2 No.6 | | |
| Spindle Bore : | Ø 58 mm | | |
| **Slide** | | | |
| Travel Top slide : | 128 mm | | |
| Travel Cross slide : | 285 mm | | |
| Longitudinal feed in Range : | 0.031—1.7 mm/rev (40 feeds) | | |
| Transverse feed in Range : | 0.014—0.784 mm/rev (40 feeds) | | |
| Pitch-Metric in Range : | 0.1—14 mm / rev (41 thread pitches) | | |
| Pitch-Inch in Range : | 2—112 TPI (60 thread pitches) | | |
| Trapezoid thread in Range : | 4—112 (50 trapezoid thread) | | |
| Modular Thread in Range : | 0.1—7 (34 modular thread) | | |
| Height of quadruple tool holder: | Max. 25 X 25 mm | | |
| Tailstock Taper : | MT 4 | | |
| Tailstock -- Sleeve Travel : | 130 mm | | |
| Main Motor : | 5500 W | | |
| Coolant Pump : | 100 W | | |
| Connecting Voltage : | Three Phase 400V | | |
| Gross Weight : | 1850 KGS | 2150 KGS | 2350 KGS |
| Packing Size: | 2250 X 1150 X 1620 mm ( For MM-D410 X 1000 )<br>2800 X 1150 X 1620 mm ( For MM-D410 X 1500 )<br>3300 X 1150 X 1620 mm ( For MM-D410 X 2000 ) | | |
| Standard Accessory : | 3-Jaw Chuck Ø 250 mm, 4-Jaw Chuck Ø 300 mm, Machine Lamp, Face clamping disc Ø 350 mm, Machine Substructure, Coolant Equipment, Change Gear Kit, Tools and Toolbox | | |