

■ Designed for Rigidity

ML300 Linear Guideways Rapid Feedrate, Rapid Turret Index For Ultra High Productivity

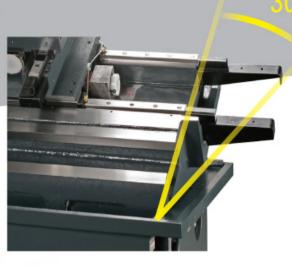
Machines are made of
Meehanite cast iron, the
stress-relieved structure
features metallic stability
and deformation-free
characteristics for long term
static as well as dynamic
accuracy.



Manford ML Lathe employs Japan-made high performance linear motion guideways on both X and Z axis, aiming to satisfy customers who demand high productivities. The A2-6 spindle is capable of accommodating 52 mm bar material that is the most common needed by job shops.





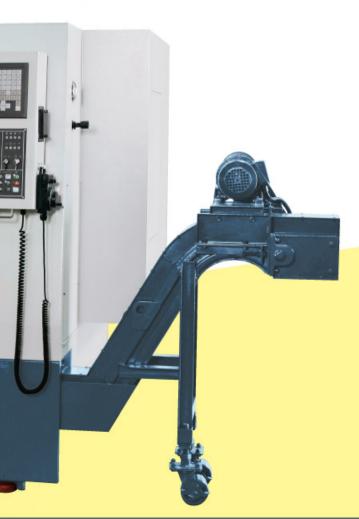


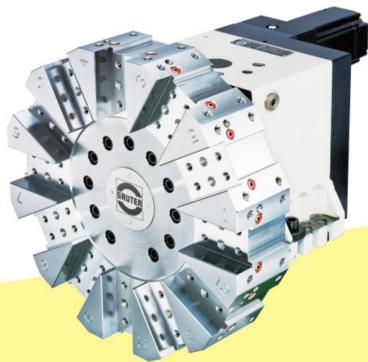
The one-piece slant bed design absorbs the cutting force more effectively. Compares to the traditional flat bed design, the distance between slide ways and cutting point is sorter, the cutting force is conducted to the ground via the shortest path.



TSUBASHI ball screws

For the optimum axes feedrate of 30 M/Min. without compromising rigidity, the X and Z axis Manford ML320 is fitted with Japan TSUBASHI ball screws, featuring high sensitivity in motion control, free from stick-and-slip problem, and high rigidity.





Position Turret

The high performance turret fetures smooth and fast tool index without error. High positioning accuracy and repeatability allow each lathe to achieve the highest cutting accuracy. Fast tool index can be accomplished in a second.

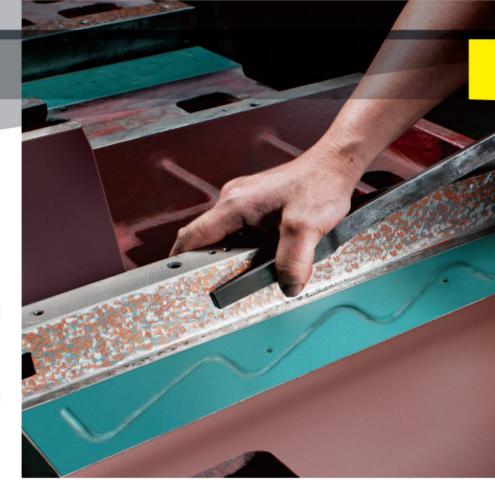
MH320 / 350

Box Guideways

High Rigidity, High Performance



The machine base's inner ribs are calculated and deployed through Finite Element Analysis, which reduces unnecessary mass and boosts the structural rigidity to the optimum level.



Precision Hand Scraping

Every contacting surface is precision hand scraped to increase the flatness and improve geometric accuracy of the whole assembly.

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Hydraulic Unit

Tailstock

The hydraulic tailstock can be controlled by NC via an actuating pin; the quill thrust can be adjusted manually. Live center pin is optional.



Sturdy Headstock with Spindle

The dynamic balanced spindle is powered by a 20 HP (MH320) and 25 HP (MH350) motor. The inner bore of headstock casting is fine-bored to embraces spindle cartridge firmly and precisely, plus the symmetric external ribs to minimize and stabilize the thermo expansion, the entire unit features low vibration, low noise and low temperature rising.

MH320C / 350C Additional Axis = Additional Machine

Additional Axis = Additional Machine High Rigidity, High Performance Extraordinary Versatility

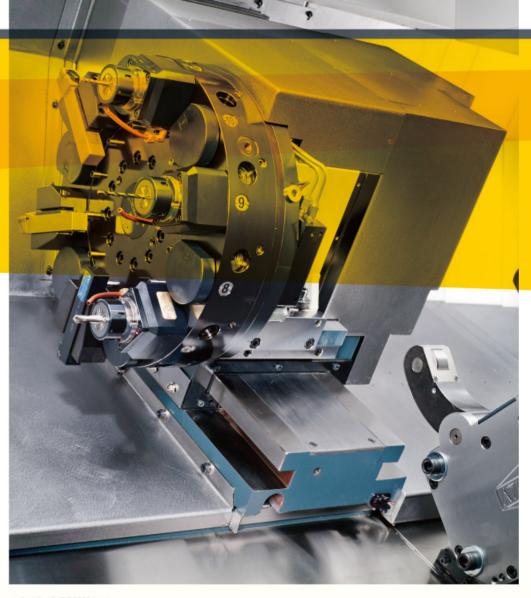
VDI 40 Live Tooling CNC Lathe



The combination of turning and milling function in one machine may boost productivity for more than double. Manford MH320C / MH350C is dedicated to customers who needs high quality high performance machine with appealing price level. By adopting state-of-the-art power turret system from Europe, the highest price-performance ratio machines from Manford are your best choice.







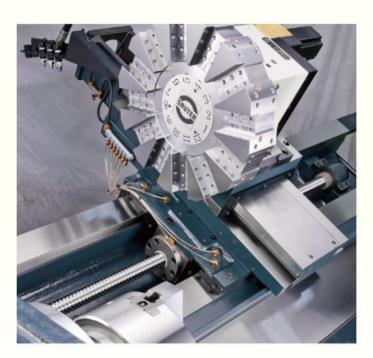
Servo Turret with Milling Function The Italian

Duplomatic Live

Tooling Turret is selected on Manford MH320C and MH350C. The VDI 40 turret features superfast indexing time. High power of 5.5 kW drives the milling tools in axial and radius direction, delivering a low noise rotation and high quality cutting performance.

Axial Milling





Direct Transmission

The C3 grade pretensioned ball screws are directly coupled with servo motor, featuring high servo response and superb positioning accuracy.

Optional



In addition to the standard turret, the Manford CNC
Lathe is also available with VDI or BMT specification to
meet customers' demand. (optional)



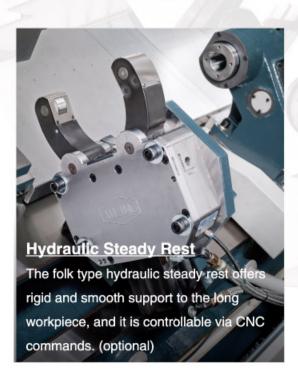


Workpiece Measurement



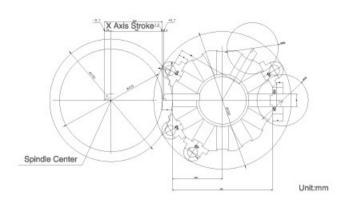
Tool Length Measurement

The function can be selected as manual of automatic driven. (optional)

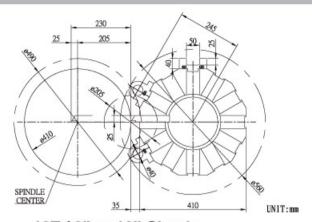




Interference Diagram

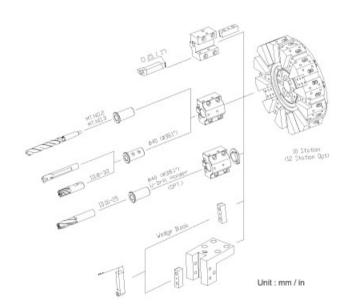


12T / 8" or 10" Chuck Standard for MH320 / 350



12T / 8" or 10" Chuck Standard for MH320C / 350C

Tooling System

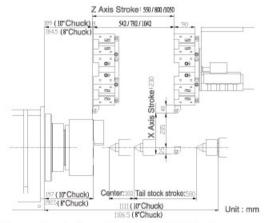


Standard for ML300, MH320 / 350

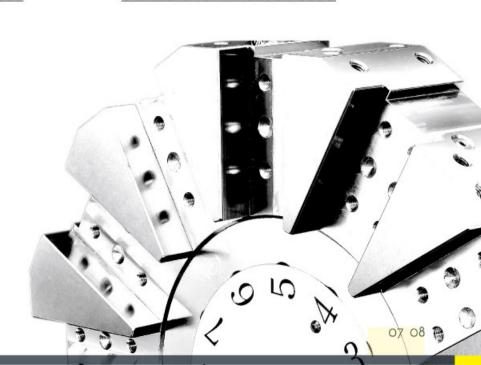


Standard for MH320C / 350C

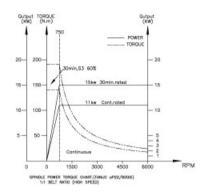
Working Range

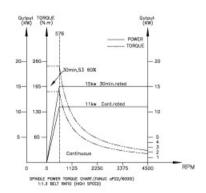


Standard for MH320 / MH350

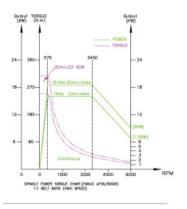


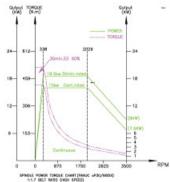
Power Chart





Standard for ML300, MH320, MH320C





Standard for MH350, MH350C

Standard accessories

- 8"(10") Hydraulic chuck (Taiwan made, incl, hard jaws and soft jaws 1 set each)
- Coolant system
- Removable coolant tank
- Leveling bolts and pads
- Lubrication system

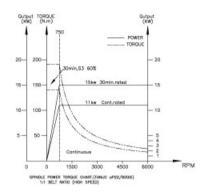
- MT-5 live center x 1
- Work lamp
- Foot switch for hydraulic chuck
- Spare parts lists / Operation,
- Maintenance and Electrical Manual

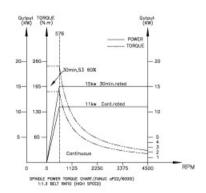
Optional accessories

- Chip conveyor and chip cart
- Hydraulic tailstock system
- Programmable tailstock system
- Parts catcher
- Pneumatic automatic door
- Foot switch for tailstock
- Manual tool length measurement
 Automatic tool length measurement

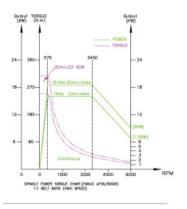
- EMC CE Safety package
- Oil skimmer
- Transformer
- High pressure coolant pump
- Automatic bar feeder
- Anti-crash safety clutch
- Grease lubrication system
 3-color pilot lamp

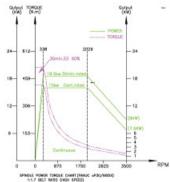
Power Chart





Standard for ML300, MH320, MH320C





Standard for MH350, MH350C

Standard accessories

- 8"(10") Hydraulic chuck (Taiwan made, incl, hard jaws and soft jaws 1 set each)
- Coolant system
- Removable coolant tank
- Leveling bolts and pads
- Lubrication system

- MT-5 live center x 1
- Work lamp
- Foot switch for hydraulic chuck
- Spare parts lists / Operation,
- Maintenance and Electrical Manual

Optional accessories

- Chip conveyor and chip cart
- Hydraulic tailstock system
- Programmable tailstock system
- Parts catcher
- Pneumatic automatic door
- Foot switch for tailstock
- Manual tool length measurement
 Automatic tool length measurement

- EMC CE Safety package
- Oil skimmer
- Transformer
- High pressure coolant pump
- Automatic bar feeder
- Anti-crash safety clutch
- Grease lubrication system
 3-color pilot lamp



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