NeBEL HD 2516-20
HEAVY DUTY ENGINE LATHE


**power traverse tailstock**

Heavy duty tailstock, with a large diameter hardened and ground spindle and a hardened insert tang slot, moves under power from the longitudinal feed mechanism by engaging the carriage through an interlock. The tailstock is equipped with a single speed traverse screw and a direct reading traverse indicator providing accurate depth control. Rapid traverse is approximately 200" to 250" per minute. Alternate manual traverse is obtained with the apron handwheel. A heavy duty thrust lock, engaging a rack located in the bed, prevents the tailstock from moving on the bedway under heavy loads. Four clamping bolts and two saddle clamps insure proper clamping to the bedways. One shot lubrication to tailstock ways with oil reservoir located in the base.

**box girth design rigid bed**

Nebel bed design of box girth provides greater rigidity, longer life and precise accuracy by withstanding extreme stress and strain. The front "V" way guarantees alignment and the rear flat way, with its wide bearing surface, provides ample bearing support to the carriage and all component units. The front "V" way and the rear flat way are equipped with hardened and ground replaceable steel bedways.
MODEL HD 2516-20 HEAVY DUTY ENGINE LATHE
also available as removable block gap lathe in Model HDB 2516-20/44

Standard Equipment...
- Hardened and ground cross feed screw
- Bronze compensating cross feed nut
- Two way power rapid traverse
- Hardened and ground replaceable steel bedways, front and rear
- Cabinet legs
- Compound rest with hardened and ground feed screw and hinged dirt guard

Extra Equipment...
- Hydraulic duplicating attachment (fixed 45 degree, front swivel mounted or universal longitudinal type)
- Telescopic taper attachment
- Coolant pan
- Coolant pump and equipment
- Steady rest
- Follow rest
- 25" diameter face plate
- Four way tool block
- Connected rests
- Plain block rests
- Metric translating gears
- Micrometer carriage stop
- Ball bearing center

12" diameter driver plate
Single screw tool post assembly
Chasing dial
Hardened and ground tailstock spindle with hardened insert tang slot
Direct reading tailstock spindle traverse indicator
Shear wipers on carriage and tailstock ways
Centers and necessary wrenches
Multiple carriage stop, six position, with adjustment screws for use on either side of carriage
Single or multiple position cross feed stop for inside and outside location when turning or boring
Two speed tailstock with direct reading spindle traverse indicator
Anti-friction tailstock spindle
Collet chuck attachment and collets
Revolving ball bearing pipe centers
Electric clutch and brake
Hardened and ground cross slide ways
Hardened and ground lead screw
Additional special accessories available on request

Capacity
- Swing over bedways and carriage wings: 30 ¼"
- Swing over compound rest or cross slide: 20 ¼"
- Distance between centers, base length: 48"
- Center distance increases in increments of: 24"
- Size of tool: ¾" x 1 ½"
- Steady rest capacity: 1½" - 7"
- Follow rest capacity: ¾" - 5½"
- Face plate, diameter: 25"
- Driver plate, diameter: 12"

Headstock
- Spindle speeds, number, single speed motor: 18
- Spindle speed range, 1200 RPM motor: 11 - 666
  1800 RPM motor: 16 - 1000
  1800 RPM motor: 24 - 1500
  1200/600 RPM motor: 5½ - 666
  1800/900 RPM motor: 8 - 1000
  1800/900 RPM motor: 12 - 1500
- Spindle bearings, number: 3
- Journal diameters:
  Front: 4"
  Center: 3¼"
  Rear: 2¼"
- Front spindle bearing, precision, tapered roller:
  Outside diameter: 7½"
  Radial load, 100 RPM, pounds: 26,400
  Thrust load, 100 RPM, pounds: 17,500
- Center spindle bearing, precision, tapered roller:
  Outside diameter: 6½"
  Radial load, 100 RPM, pounds: 18,600
  Thrust load, 100 RPM, pounds: 12,500
- Rear spindle bearing:
  Outside diameter: 5"
  Radial load, 100 RPM, pounds: 13,000
  Spindle size of hole, straight: 2½/32
  Spindle size of tapered hole, (American Standard): #250
  Spindle size of center, Morse No.: 5
  Spindle nose, long taper key, size No.: 6-2
  Camlock: 38" - D-1
  Headstock length on bed: 37"