

Conventional Horizontal Lathes

DL E Heavy 500/5000

SKU : 300502

With the machines of the DL E Heavy series, you can machine really large turning diameters and workpiece lengths. This lathe series is the solution for conventional machining of workpieces up to 8000 mm (315 in.) in length and over 1600 mm (63 in.) in diameter. The particularly wide and heavily ribbed machine bed takes heavy workpiece weights. Powerful motors drive the main spindle via a finely adjustable multi-disc clutch. The rapid traverse in the support is particularly effective with large bed lengths and the heavy tailstock is also moved with a motor drive.

- Center widths up to 315"
- Spindle bore of 5.12"
- Powerful motor
- Rapid feed in X and Z directions
- Complete with assembled 3-axis position indicator



TECHNICAL SPECS

WORKING AREA

Workpiece length (max.)	197 in
Turning diameter over bed	39 in
Turning-Ø over support	26 in
Workpiece weight (max.)	13200 lbs
Bed width	30 in
Max. weight capacity (between centers)	13200 lbs
Max. weight capacity (on chuck)	3300 lbs

TRAVELS

Travel X-axis	20.1 in
Travel Z-axis	189 in
Travel Z1-axis	12 in
Swing range of top slide	± 180°

HEADSTOCK

Spindle speeds (right)	3.15 rpm - 315 rpm
Spindle speeds (left)	3.15 rpm - 315 rpm
Spindle bore	5.1 in
Spindle mount	A2-15

RAPID FEED

Rapid feed X-axis	73.62 in/min
Rapid feed Z-axis	147.24 in/min

FEED

Feed X-axis	0.00252 in/R - 0.47244 in/R
Feed Z-axis	0.00126 in/R - 0.23622 in/R
Feed Z1-axis	0 in/R - 0.12 in/R

THREADING

Threading, metric	1 mm - 120 mm
Threading, diametric	(42) 30 - 1/4 DP
Threading, module	0.5 mm - 60 mm
Threading, whitworth	(48) 05 - 60 TPI

TAILSTOCK

Tailstock quill diameter	6 in
Tailstock quill taper	metric 80
Tailstock quill stroke	12 in
Tailstock traverse adjustment	± 0,1 in

DRIVE CAPACITY

Motor rating main drive	29.5 Hp
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MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	319 in x 72 in x 71 in
Weight	27830 lbs



PRODUCT DETAILS

- Powerful 29-HP motor ensures very high chip removal capacity
- Heavy, large cast-iron body and machine bed with strong ribbing to reduce vibrations to a minimum
- Induction hardened and ground guideways
- Joystick control for X and Z feeds is mounted directly to support
- Hand wheel for tailstock adjustment
- Separate rapid feed motor for feed in X and Z-axis
- Sturdy multi-disk clutch for headstock drive
- Large spindle bearings
- Includes completely assembled 3-axis position indicator
- Overload clutch enclosed in apron

3-axis position indicator

- More accuracy
- Lower error rate
- Increased productivity
- Resulting in valuable time savings
- For increased productivity
- Easy to read display
- Operator-specific features
- Convenient keyboard layout
- Resolution: 0.0004 / 0.0002"
- Default coordinates
- Axis position is maintained when display is turned off
- Hole circle pattern calculation
- Calculator function
- Storage for 10 tools
- Radius / diameter toggle
- Mm/inch conversion
- Easy expansion and maintenance-free operation
- Display for top (Z0) and box way slide (Z1) both separate and in differential / cumulative mode for lathes

STANDARD EQUIPMENT

3-axis position indicator X.Pos 3.2
 4-jaw face plate chuck Ø 40"
 Coolant system
 Steady rest 2" - 19"
 Follow rest 2" - 9"
 Motorized tailstock
 LED work lamp
 Center points
 Reducing sleeve
 Foundation bolts
 Central lubrication
 Operating tools
 Operator instructions

OPTIONAL EQUIPMENT

- Steady rest 2-23inch for 300508 + DL E Heavy 500er, SKU : 250617