Conventional Horizontal Lathes

DL E Heavy 620/3000

SKU : 300506

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.)	118 in
Turning diameter over bed	49 in
Turning-Ø over support	35 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	24.8 in
Travel Z-axis	110 in
Travel Z1-axis	12 in
Swing range of top slide	± 180°

HEADSTOCK

Spindle speeds (right)	3.15 rpm - 315 rpm
Spindle speeds (left)	4 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

MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	241 in x 75 in x 76 in
Weight	25410 lbs

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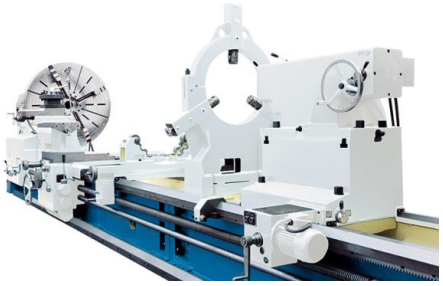

PRODUCT DETAILS

- 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
- 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

4-jaw face plate chuck Ø 40"
3-axis position indicator X.Pos 3.2
Coolant system
Steady rest 2" - 23"
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 9"-25", SKU : 250642

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