



# Conventional Horizontal Lathes DL E Heavy 500/8000

**SKU : 300504**

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.)                | 315 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            | 307 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 |
|-------------------------|---------|

### MEASURES AND WEIGHTS

|  |                        |
|--|------------------------|
| Overall dimensions (length x width x height) | 438 in x 72 in x 71 in |
| Weight                                       | 35420 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