

Conventional Horizontal Lathes **DL S 425/5000**



SKU: 301513

The DL S lathe series is slightly smaller than the DL E Heavy, but is also designed for large turning diameters and workpiece lengths. It is the solution for conventional machining of workpieces up to 5000 mm (197 in.) in length and over 720 mm (28 in.) in diameter. The particularly wide and heavily ribbed machine bed accommodates the heavy workpiece weights. The multi-disc clutch gives the operator control over the dynamics of the spindle start-up and the rapid traverse in the support is particularly effective with large bed lengths.

- Center widths up to 197 in.
- Spindle bore of 4 in.
- Powerful motor
- Spindle speed can be adjusted in 4 steps
- Rapid feed in X and Z direction
- Complete with assembled 3-axis position indicator

TECHNICAL SPECS

WORKING AREA

| Workpiece length (max.) | 197 in |
|-------------------------------------|----------|
| Turning diameter over bed | 33 in |
| Turning-Ø over support | 20 in |
| Turning diameter over gap bridge | 45 in |
| Workpiece weight (max.) | 8800 lbs |
| Gap bridge length | 19 in |
| Bed width | 24 in |
| | |

TRAVELS

| Travel X-axis | 19.7 in |
|--------------------------|---------|
| Travel Z-axis | 185 in |
| Travel Z1-axis | 10 in |
| Swing range of top slide | 90° |
| | |

HEADSTOCK

| Spindle speed | 5 rpm - 630 rpm |
|---------------|-----------------|
| Spindle bore | 3.9 in |
| Spindle mount | A2-11 |

RAPID FEED

| Rapid feed X-axis | 70.87 in/min |
|-------------------|---------------|
| Rapid feed Z-axis | 143.31 in/min |

FEED

| Feed speed X-axis | 0.0016 in/min - 0.189 in/min |
|--------------------|----------------------------------|
| Feed speed Z-axis | 0.0031 in/min - 0.378 in/min |
| Feed speed Z1-axis | 0.0008 in/min - 0.0945 in/min |

TOOL HEAD

| Tool shank dimensions | 1.3 in x 1.3 in |
|-----------------------|-----------------|
| | |

THREADING

| Threading, metric | (53) 1-120 mm |
|----------------------|-----------------|
| Threading - inch | (49) 30 - 1/4 |
| Threading, diametric | (56) 60-05 DP |
| Threading, module | (54) 05 - 60 mm |

TAILSTOCK

| Tailstock quill diameter | 5 in |
|--------------------------|-------|
| Tailstock taper | 6 MT |
| Tailstock quill stroke | 10 in |

DRIVE CAPACITY

| Motor rating main drive | 24.8 Hp |
|---------------------------|---------|
| Motor rating coolant pump | 0.2 Hp |
| Motor rating feed | 1.5 Hp |
| Total power consumption | 20 kVA |
| | |

MEASURES AND WEIGHTS

| Overall dimensions (length x width x height) | 282 in x 60 in x 60 in |
|--|------------------------|
| Weight | 18260 lbs |



Support with top slide







PRODUCT DETAILS

- Extra heavy, wide machine bed with heavy ribbing and mono-block construction
- Induction-hardened and ground guide slots ensure long-term accuracy and minimum wear
- Massive headstock with high-precision main spindle on a tapered roller bearing with 4 inch spindle bore for excellent stability under heavy loads
- Very quiet operation at maximum spindle speed
- Joystick control for X and Z feeds is mounted directly to support
- Manuell geschaltetes 4-Stufen-Vorgelegegetriebe, hochwertige Frequenz-Regeltechnik kombiniert mit einem kräftigen Hauptspindelmotor ermöglichen eine exakte Abstimmung der Drehzahl und ein hohes Drehmoment für schwere Zerspanung
- For quick positioning and reduced down-time, the support is equipped with a rapid feed on X- and Z-axes
- Adjustable overload clutch in apron protects the feed mechanics from damage and failure
- Central, practical controls for feeds and thread leads
- The auxiliary gearbox features a wide spectrum of diametric, inch, module, and metric threads
- Support and top slide are designed for high cutting forces
- 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-faceplate chuck Ø 31"
4-station tool holder
Steady rest 1.5"-14"
Follow rest 1.2"-4.7"
Dead centers
Reducing sleeve
Chuck guard
Protective shield for the toolpost
Coolant system
Foundation bolts
Work lamp
Operating tools
Operator instructions

OPTIONAL EQUIPMENT

- Rest (12 28 inch), SKU: 251160
- Motorized tailstock movement, SKU: 251161
- 3-jaw chuck (20 inch), SKU: 251162