

# Conventional Horizontal Lathes

## DL S 425/3000



### SKU : 301511

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 5000 mm
- Spindle bore of 100 mm
- 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.)	3000 mm
Turning diameter over bed	850 mm
Turning-Ø over support	520 mm
Turning diameter over gap bridge	1150 mm
Workpiece weight (max.)	4000 kg
Gap bridge length	470 mm
Bed width	600 mm

### TRAVELS

Travel X-axis	500 mm
Travel Z-axis	2700 mm
Travel Z1-axis	250 mm
Swing range of top slide	90°

### HEADSTOCK

Spindle speed	5 1/min - 630 1/min
Spindle bore	100 mm
Spindle mount	A2-11

### RAPID FEED

Rapid feed X-axis	1800 mm/min
Rapid feed Z-axis	3640 mm/min

### FEED

Feed speed X-axis	0.04 mm/min - 4.8 mm/min
Feed speed Z-axis	0.08 mm/min - 9.6 mm/min
Feed speed Z1-axis	0.02 mm/min - 2.4 mm/min

### TOOLING

Tool shank dimensions	32 mm x 32 mm
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### THREADING

Threading, metric	(53) 1-120 mm
Threading - inch	(49) 30 - 1/4
Threading, diametric	(56) 60-0,5 DP
Threading, module	(54) 0,5 - 60 mm

### TAILSTOCK

Tailstock quill diameter	120 mm
Tailstock taper	6 MT
Tailstock quill stroke	250 mm

### DRIVE CAPACITY

Motor rating main drive	18.5 kW
Motor rating coolant pump	0.15 kW
Motor rating feed	1.1 kW
Total power consumption	20 kVA

### MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	5.15 m x 1.5 m x 1.5 m
Weight	5900 kg



## PRODUCT DETAILS

- Extra heavy, wide machine bed with heavy ribbing and one-piece 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 100 mm 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 Zerspänung
- Rapid feed for X and Z axis allow quick support positioning and less down-time
- Adjustable overload clutch in apron protects the feed mechanics from damages and failures
- 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: 0.01/ 0.005 mm
- 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 800 mm  
 4-station tool holder  
 Steady rest 40-350 mm  
 Follow rest 30-120 mm  
 Dead centers  
 Reducing sleeve  
 Chuck guard  
 Protective shield for the toolpost  
 Coolant system  
 Foundation bolts  
 Work lamp  
 Operating tools  
 Operator instructions

## OPTIONAL EQUIPMENT

- Rest (100 - 520 mm), SKU : 251156
- Motorized tailstock movement, SKU : 251157
- 3-jaw-chuck 500 mm for DL425/....S, SKU : 251158