

# Conventional Lathes

## Basic 170 Super PRO



### SKU : 300814

For many years the Basic series has been the reliable mechanic's lathes that have been used in countless workshops and training centers. The new PRO version offers improved performance and ergonomics, more standard equipment and also the design has been improved, to meet the demands of today's users.

- Modern ergonomic design
- Large spindle bore
- Machine base with storage space
- Extensive standard equipment
- Coolant system

## TECHNICAL SPECS

### WORKING AREA

|                           |         |
|---------------------------|---------|
| Center width              | 1000 mm |
| Center height             | 179 mm  |
| Turning diameter over bed | 354 mm  |
| Turning-Ø over support    | 223 mm  |
| Bed width                 | 187 mm  |

### TRAVELS

|                |        |
|----------------|--------|
| Travel X-axis  | 185 mm |
| Travel Z1-axis | 95 mm  |

### HEADSTOCK

|               |                       |
|---------------|-----------------------|
| Spindle speed | 70 1/min - 2000 1/min |
| Spindle bore  | 52 mm                 |
| Spindle mount | Camlock D1-5          |
| Spindle taper | 6 MT                  |

### FEED

|             |                          |
|-------------|--------------------------|
| Feed X-axis | 0.0291 mm/R - 2.035 mm/R |
| Feed Z-axis | 0.0406 mm/R - 2.842 mm/R |

### THREADING

|                       |                 |
|-----------------------|-----------------|
| Threading, metric     | 0.2 mm - 14 mm  |
| Threading, whithworth | 2 TPI - 56 TPI  |
| Threading, diametric  | 8 DP - 56 DP    |
| Threading, module     | 0.2 MP - 3.5 MP |

### TAILSTOCK

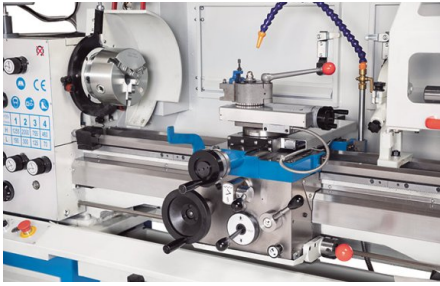
|                          |        |
|--------------------------|--------|
| Tailstock quill diameter | 42 mm  |
| Tailstock taper          | 3 MT   |
| Tailstock quill stroke   | 100 mm |

### DRIVE CAPACITY

|                         |        |
|-------------------------|--------|
| Motor rating main drive | 1.5 kW |
|-------------------------|--------|

### MEASURES AND WEIGHTS

|  |                        |
|--|------------------------|
| Overall dimensions (length x width x height) | 1.9 m x 0.76 m x 1.6 m |
| Weight                                       | 650 kg                 |



*Stainless steel covers on lead screw and feed shaft ensure safety and reliable protection against contamination and premature wear*



*The machine base features ample storage space for accessories and tools, including a chip tray that can be removed at front*



*The work area is also accessible through large swinging doors on the back of the machine*



*The operator elements are very clearly organized*



## PRODUCT DETAILS

- The fully equipped Basic PRO with its modern ergonomic design meets all requirements for universal applications in the areas of repairs, training and production
- The lathe bed is made of high-quality cast-iron for maximum stability and rigidity
- All gears, transmission shafts, and guideways are hardened and ground to guarantee very quiet operation and long tool life
- Wide guideways are hardened and ground to reduce wear and allow readjustments for long-term accuracy
- Readjustable spindle bearings ensure high precision and low wear for a long service life
- Gears and apron run in an enclosed oil bath for low maintenance
- Safety interlock to prevent simultaneous operation of lead screw and feed shaft feed
- Stainless steel covers on lead screw and feed shaft ensure safety without the usual restrictions, while also preventing contamination and early wear
- The tailstock can easily be positioned on the machine bed and moved sideways for taper turning
- High-performance coolant system is included
- The machine base features ample storage space for accessories and tools, including a chip tray that can be removed at front
- The X.Pos position indicator provides easy to program auxiliary functions

## CONTROLS & SOFTWARE

### 3-axis position indicator X.Pos 3.2

- Integrating multiple functions, this new generation of 3 axis digital readouts significantly offer a much better control over the machining processes, greatly decreasing down-times and error rates
- It features a totally sealed enclosure made of high quality polyester film which protects it against hazardous environments in shop floors, such as dust or fumes and offers excellent chemical resistance to most commonly used industry solvents
- The optical scales provide 5 micron resolution (0.005 mm) with outside cover from aluminum for protection against oil, coolant and chips.

#### Basic Functions

- Resolution of 0,005 mm
- Spindle control ON/OFF
- Unit measurement conversion Inch / Metric
- Setting / Resetting current position
- Coordinate display switching ABS / INC
- Radius / Diameter display
- Z1/Z2 Axes summing
- Pocket calculator functions

#### Extended Functions

- Axis position is maintained when display is turned off
- Hole circle pattern calculation
- Radius / diameter toggle
- Reference function for tool gauging
- Taper turning function

### STANDARD EQUIPMENT

3-axis position indicator X.Pos 3.2  
 Quick change tool holder head WE  
 Quick change tool holder WED 20100  
 3-jaw-chuck 178 mm  
 4-jaw face plate chuck Ø 200 mm  
 Face plate Ø 280 mm  
 Steady and follow rests  
 Coolant system  
 Micrometer stop  
 Reducing sleeve  
 Dead center  
 Traveling cover for the toolpost  
 Fixed stainless steel safety cover for tension and lead screw  
 Chuck guard  
 Foot brake pedal  
 Fixed splash guard (wall)  
 Work light  
 Chip tray  
 Toolbox with operating tools  
 Operator instructions



## KNUTH on YouTube

### Information to the point

On our YouTube channel you can find videos for nearly all machines from our program. We show the machines from current deliveries and you get an impression of the handling, the processing quality and the machining performance.

**Are you interested in a machine for which you cannot find a current video?  
Please feel free to contact us!**