

Conventional Horizontal 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- \varnothing 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

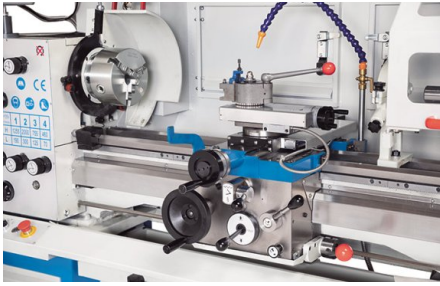
Tailstock quill diameter	42 mm
Tailstock taper	3 MT
Tailstock quill stroke	100 mm

DRIVE CAPACITY

Motor rating main drive	1.5 kW
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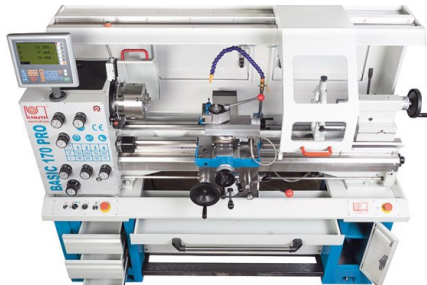
MEASURES AND WEIGHTS

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



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

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



The operator elements are very clearly organized



- 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 / Reseting 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

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