



Conventional Horizontal Lathes

Basic 180 Super



PRODUCT.BROCHURE.SKU: 300805

The Basic 180 Super is the largest mechanics lathe in the KNUTH Machine Tools catalog and is also one of the heaviest machines in this popular market segment. The large bed width of 206 mm (8 in) and a 30 percent higher total weight have a positive effect on the overall machining quality and enable machining services that also meet industrial requirements. Equipped with position indicator, quick-change holder and other standard accessories, the BASIC 180 Super has been one of our best-selling conventional lathes for more than 20 years.

- Heavy-duty wide machine bed
- Rugged construction for minimal vibration
- Powerful motor for demanding operations
- Extensive standard equipment for a wide range of applications

PRODUCT.BROCHURE.technical_specs

ATTRIBUTES.MEG-000008.DESCRPTION

attributes.MEG-000008.MER-001279	1000 mm
attributes.MEG-000008.MER-000063	356 mm
attributes.MEG-000008.MER-000065	220 mm
attributes.MEG-000008.MER-000047	206 mm

ATTRIBUTES.MEG-000059.DESCRPTION

attributes.MEG-000059.MER-000287	178 mm
attributes.MEG-000059.MER-000334	92 mm
attributes.MEG-000059.MER-000236	± 50°

ATTRIBUTES.MEG-000007.DESCRPTION

attributes.MEG-000007.MER-000253	45 1/min - 1800 1/min
attributes.MEG-000007.MER-000251	38 mm
attributes.MEG-000007.MER-000259	Camlock D1-4
attributes.MEG-000007.MER-000247	5 MT

ATTRIBUTES.MEG-000006.DESCRPTION

attributes.MEG-000006.MER-000293	0.015 mm/R - 0.22 mm/R
attributes.MEG-000006.MER-000295	0.043 mm/R - 0.653 mm/R

ATTRIBUTES.MEG-000005.DESCRPTION

attributes.MEG-000005.MER-000113	(37) 0,4-7 mm
attributes.MEG-000005.MER-000748	(28) 4-56 TPI

ATTRIBUTES.MEG-000009.DESCRPTION

attributes.MEG-000009.MER-000749	45 mm
attributes.MEG-000009.MER-000194	3 MT
attributes.MEG-000009.MER-000196	120 mm
attributes.MEG-000009.MER-000197	± 10 mm

ATTRIBUTES.MEG-000002.DESCRPTION

attributes.MEG-000002.MER-000159	2.4 kW
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ATTRIBUTES.MEG-000004.DESCRPTION

attributes.MEG-000004.MER-000002-height	1.95 m x 0.75 m x 1.55 m
attributes.MEG-000004.MER-000108	880 kg

PRODUCT.BROCHURE.PRODUCT_DETAILS



Select the optimum spindle speed for the Basic 180 Super via its 16-step main drive



- Cast-iron bed, heavily ribbed
- All box ways are induction-hardened and precision-ground
- Headstock with D1-4' mount, bore diam. 38 mm, run in 2 adjustable tapered roller bearings
- All gears are made of Cr-Ni steel, hardened, precision-ground, with oil-bath lubrication
- Tailstock can be moved ± 10 mm for taper turning
- Powerful main drive (2.4 kW), including base frame
- Guides are adjustable via tapered gibs
- Test certificate in accordance with DIN
- Including 3-axis position indicator, fully assembled

PRODUCT.BROCHURE.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

PRODUCT.BROCHURE.STANDARD_EQUIPMENT

3-axis position indicator X.Pos 3.2
Quick change tool holder X head WE
Quick change tool holder WED 20100
3-jaw chuck $\varnothing 160$ mm
4-jaw face plate chuck $\varnothing 200$ mm
Face plate $\varnothing 320$ mm
Steady and follow rests
Coolant system
Micrometer stop
Thread gauge
Reducing sleeve
Dead center
Protective shield for the toolpost
Chuck guard
Foot brake pedal
Fixed splash guard (wall)
Work light
Chip tray
Operator instructions
Toolbox with operating tools



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!**