



Mechanics Lathe

Basic 180 Super

**including
3-axis position indicator**

- center width 40"
- max. turning diameter over bed 14"
- spindle speed (16) 45 - 1800 rpm



Basic 180 Super



www.knuth-usa.com



Lead Screw and Feed Shaft Lathe for a very low price

- cast-iron bed, with heavy ribbing
- all guides are induction-hardened and precision-ground
- headstock with D1-4" mount, 1.5" bore Ø, runs in 2 adjustable precision taper roller bearings
- all gears are made of Cr-Ni steel, hardened, precision-ground and running in an oil-bath
- tailstock can be moved ± 0.4 " for taper turning
- powerful main drive motor (2 / 3 Hp) with base
- guides are adjustable via taper gibs
- test certificate acc. to DIN



Basic 180 Super

DESCRIPTION



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Specifications Basic 180 Super

Working Area

| | |
|---------------------------------------|-------|
| center width | 40" |
| turning diameter over bed (max) | 14" |
| turning diameter over support (max) | 8.7" |
| turning diameter without bridge (max) | 20" |
| X axis travel | 7.0" |
| Z1 axis travel | 3.6" |
| bridge length | 8" |
| bed width | 8" |
| top-slide swivel range | ± 50° |

Headstock

| | |
|---------------|--------------------|
| spindle speed | (16) 45 - 1800 rpm |
| spindle bore | 20" |
| spindle mount | Camlock D1-4 |
| spindle taper | MT 5 |

Feed

| | |
|-------------|---------------------|
| X axis feed | 0.0012 - 0.029"/rev |
| Z axis feed | 0.0003 - 0.01"/rev |

Thread Cutting

| | |
|---------------------------|-----------------|
| thread cutting - metric | (37) 0.4 - 7 mm |
| thread cutting, Whitworth | (28) 4 - 56 TPI |

Tailstock

| | |
|----------------------------|--------|
| tailstock quill diameter | 1.75" |
| tailstock taper | MT 3 |
| tailstock quill stroke | 4.75" |
| tailstock cross adjustment | ± 0.4" |

Drive Capacities

| | |
|------------------------|----------|
| headstock motor rating | 2 / 3 Hp |
| power supply | 400 V |

Dimensions/Weight

| | |
|------------|-----------------|
| dimensions | 77" x 31" x 48" |
| weight | 1940 lbs |
| Part No. | 300 805 |

Standard Equipment

- 3-axis position indicator
- 3-jaw chuck Ø 6"
- 4-jaw face chuck Ø 8"
- face plate Ø 12"
- 4-station tool holder
- coolant system
- follow rest and steady rest
- chip tray
- splatter guard
- chuck guar
- foot brakes
- base
- micrometer linear stop
- change gears
- reducing sleeves
- dead centers
- thread gauge
- operating tools
- operator manual

Optional

- 4-jaw lathe chuck 6.3"
- quick-change WE tool holder set
- live center MT 3
- oscillation element LT 33
- coolant concentrate 5 l
- Power Worker chip lift-off device
- turret MT 3
- quick-adjusting spindle bore stop, size 4 (30-38)
- accessory set, MT 3 (7 pieces)

3-axis position indicator

X.pos 3

For new installations or for retrofitting existing lathes

- increased accuracy
- lower error rate
- higher production safety
- significant time savings
- increased productivity
- easy to read display
- user-specific functions
- good keyboard layout
- resolution 0.0004" / 0.0002"
- default coordinates
- maintains the axis position when the display is turned off
- calculation of hole circle pattern
- pocket calculator function
- storage for 10 tools
- radius / diameter toggle
- mm/inch conversion
- easy mounting and maintenance-free operation
- display of top slide (Z0) and bed slide (Z1) either individually or as differentiation/summation circuit for lathes

Position Indicators... an absolute necessity for all machine tools

