



**SKU : 300830**

**SALE ONLY OUTSIDE THE EU**

The Meisterturn ensures high precision and features a modern ergonomic design and safety features. It is equipped with an inverter that produces spindle speeds up to 2,500 rpm. The integrated constant cutting speed function adjusts the spindle speed to the diameter during face turning and produces CNC-grade turning results. Workpieces with a wide range of diameters can be machined with high accuracy and superior surface quality. It comes with an extensive equipment package and intuitive operating features. This makes it the perfect machine for demanding single parts production and also an excellent training machine

- Ergonomic machine enclosure
- Infinitely variable spindle speed
- Facing with constant cutting speed
- Fully equipped

### TECHNICAL SPECS

#### WORKING AREA

Center width	800 mm
Center height	200 mm
Turning diameter over bed	400 mm
Turning diameter over support	245 mm
Bed width	260 mm

#### TRAVELS

Travel X-axis	215 mm
Travel Z-axis	745 mm
Travel Z1-axis	112 mm
Swing range of top slide	60°

#### HEADSTOCK

Speed range, high	450 1/min - 2500 1/min
Speed range, low	50 1/min - 450 1/min
Spindle bore	52 mm
Spindle mount	A2-5 (D1-5)
Spindle taper	6 MT

#### FEED

Feed X-axis	0.0125 mm/R - 1 mm/R
Feed Z-axis	0.025 mm/R - 2 mm/R

#### TOOLING

Tool shank dimensions	20 mm x 20 mm
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#### THREADING

Threading, metric	0.2 mm - 14 mm
Threading, whitworth	TPI
Threading, module	0.12 MP - 6.3 MP
Threading, diametric	3 DP - 200 DP

#### TAILSTOCK

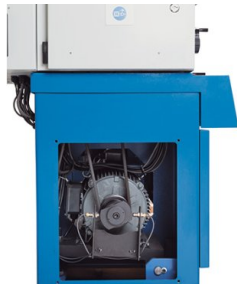
Tailstock quill diameter	50 mm
Tailstock taper	3 MT
Tailstock quill stroke	110 mm
Tailstock traverse adjustment	15 mm

#### DRIVE CAPACITY

Motor rating main drive	5.5 kW
Motor rating coolant pump	0.125 kW

#### MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	1.88 m x 1.07 m x 1.55 m
Weight	1250 kg



## PRODUCT DETAILS

- The Meisterturn combines precision and easy handling for highly efficient single parts and small batch production in the area of tool and mold construction
- It also meets all of the special requirements for use in training and continuing education on an industrial level
- The modern construction, high-quality components, and intuitive operation have been proven in the production environment
- The heavy machine bed is made of premium cast-iron and features wide, ground and hardened dual v-guides
- The large spindle capacity allows short clamping of shafts and tubes through the lathe chuck
- The two-step main spindle gear runs in an enclosed oil bath
- All gears and shafts are hardened and ground
- The drive features an infinitely variable motor speed, producing a high torque for powerful machining and a wide speed range
- V-const - During face turning, the spindle speed automatically adapts to the changing workpiece diameter – the constant cutting speed at the cutting edge of the turning tool ensures superior turning results with quality comparable to CNC lathes
- Safety comes first: The main motor is equipped with electromagnetic brakes, and the maximum speed is monitored via a rev limiter
- The top slide swivels and includes a market-leading quick-action tool changer system
- All guides feature high-precision adjustments and a central lubrication system ensure easy maintenance and servicing
- Feed gears and apron also run in an enclosed oil bath
- The included bed stop is used to limit the travel distance and also suitable for series production
- The tailstock easily adjusts for taper turning via a side-mounted control
- The user-friendly control panel features ergonomically placed control elements for easy operation and operator safety
- The hand wheels automatically disengage during automatic machining operations
- The chuck guard is equipped with a heavy-duty swivel mechanism
- A large cover to protect from chips and coolant can be connected to the support or positioned separately
- Lead screw and feed shaft are protected reliably with a stainless steel cover.
- A sturdy LED lighting system provides optimum lighting of the work area without raising the temperature
- The Meisterturn safety design also includes ideally positioned E-Stop buttons
- The chip tray can be pulled out at the front and is easy to clean
- Position indicators have been mounted on all axes at the factory, and premium glass scales are protected by robust covers
- Extensive functions of the X.pos position indicator include a digital rpm display and a wide variety of easy to program additional functions
- This machine includes a high-performance coolant system with a large separate reservoir for easy access and cleaning

## STANDARD EQUIPMENT

- 3-axis position indicator X.Pos 3.2
- 3-jaw chuck Ø 200 mm
- Change gears
- Quick change tool holder head WB
- Quick change tool holder WBD 25120
- Coolant system
- Chip tray
- Fixed splash guard (wall)
- Protective shield for the toolpost
- Chuck guard
- LED work lamp
- Operating tools
- Operator manual



## 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!**