

V-Turn 410/1000



SKU: 300820

Our bestseller V-Turn is a precision lathe that is also suitable for production. Equipped with an inverter and a high-performance motor, it achieves spindle speeds of up to 3,000 1/min and processes workpieces with small diameters efficiently and of the best quality. The models also offer strength and stability for heavier machining. When facing, the "constant cutting speed" function integrated in the X-Pos adapts the spindle speed to the turning diameter and thus delivers quality that is comparable to the results of a CNC machine.

- Constant cutting speed
- High spindle speed and motor power
- Extensive standard equipment
- Roller bearing from world-leading manufacturer NSK

TECHNICAL SPECS

WORKING AREA

| Center width | 1000 mm |
|----------------------------------|---------|
| Center height | 205 mm |
| Turning diameter over bed | 380 mm |
| Turning diameter over gap bridge | 580 mm |
| Turning-Ø over support | 255 mm |
| Gap bridge length | 250 mm |
| Bed width | 250 mm |
| | |

TRAVELS

| Travel X-axis | 210 mm |
|--------------------------|--------|
| Travel Z1-axis | 140 mm |
| Swing range of top slide | ± 45° |

HEADSTOCK

| Speed range, high | 550 1/min - 3000 1/min |
|-------------------|------------------------|
| Speed range, low | 30 1/min - 550 1/min |
| Spindle bore | 52 mm |
| Spindle mount | Camlock D1-6 |
| Spindle taper | 6 MT |
| | |

FEED

| Feed X-axis | 0.025 mm/R - 0.85 mm/R |
|-------------|------------------------|
| Feed Z-axis | 0.05 mm/R - 1.7 mm/R |

THREADING

| Threading, metric | (39) 0,2-14 mm |
|----------------------|-----------------|
| Threading, diametric | (21) 8-44 DP |
| Threading, module | 0.3 mm - 3.5 mm |
| Threading, whitworth | (45) 2-72 TPI |

TAILSTOCK

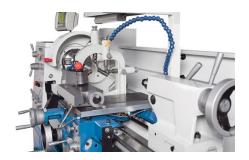
| Tailstock quill diameter | 50 mm |
|-------------------------------|---------|
| Tailstock taper | 4 MT |
| Tailstock quill stroke | 120 mm |
| Tailstock traverse adjustment | ± 13 mm |

DRIVE CAPACITY

Motor rating main drive 5.5 kW

MEASURES AND WEIGHTS

| Overall dimensions (length x width x height) | 1.94 m x 1 m x 1.32 m |
|--|-----------------------|
| Weight | 1200 kg |











PRODUCT DETAILS

- Constant cutting speed: 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
- A heavy ribbed machine bed and a massive one-piece cast-iron frame provide the solid basis for this machine
- Wide, hardened and ground guideways ensure superior turning results and long life
- Large spindle bearings and high-precision headstock ensure excellent concentricity
- Headstock gears and shafts are hardened and ground for quiet operation und constant
- 5.5 kW headstock motor ensures powerful machining
- Spindle speeds are infinitely variable from 30 to 550 and 550 to 3000 rpm
- Micrometer and turret stop are included
- Integrated central lubrication at the support for low maintenance
- The extensive features of the X.Pos Position Indicator are complemented here with a digital speed indicator and an easy to program auxiliary function Incl. 3-axis position indicator with integrated spindle speed display, fully assembled
- The electromagnetic brake on the main spindle is maintenance-free and slows the machine safely and reliably

CONTROLS & SOFTWARE

3-axis position indicator, X.pos 3.2 VC

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- 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

Constant cutting speed

 Allows you to have constant cutting speed during - the spindle speed automatically adjusts based on the turning diameter

STANDARD EQUIPMENT

Follow rest Reducing Sleeve Dead center 3-axis position indicator, X.pos 3.2 VC 4-jaw face plate chuck Ø 250 mm Face plate Ø 350 mm Quick change tool holder head WB Quick change tool holder WBD 25120 Coolant system Steady rest Turret stop Micrometer stop Chip tray Fixed splash guard (wall) Protective shield for the toolpost Chuck guard Foot brake pedal Work light Thread gauge Toolbox with operating tools Operator instructions