

Conventional Lathes

V-Turn 410/1500



SKU : 300821

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	1500 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

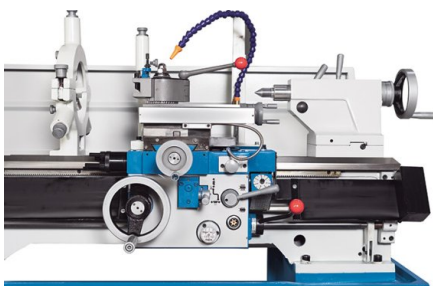
Motor rating main drive	5.5 kW
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MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	2.44 m x 1 m x 1.32 m
Weight	1800 kg



High-quality quick-change tool holder with 0.01 mm repeatability



Model is equipped with integrated central lubrication at the support for low maintenance



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 speed
- 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 / 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

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
 Dead center
 Reducing Sleeve
 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