

Conventional Horizontal Lathes

Turnado 280/1500 PRO

SKU : 320564

The machines of the Turnado PRO series are the modern version of the classic lathe. The PRO models are the latest generation of our universal lathes, which have been tried and tested for 20 years. With constant cutting speed, rapid traverses and an extended speed range that can be controlled by an inverter, these models are characterized by high-performance machining, excellent surface quality and time efficiency. They are easy to recognize by the new ergonomic cladding design, which integrates all functions into an overall concept.

- Infinitely variable speed range
- Support with rapid feed motor
- Extensive standard equipment
- Constant cutting speed



TECHNICAL SPECS

WORKING AREA

Center width	59.06 in
Center height	11 in
Turning-Ø over bed	22 in
Turning diameter over gap bridge	31 in
Turning-Ø over support	14 in
Gap bridge length	7 in
Bed width	14 in

TRAVELS

Travel X-axis	12.4 in
Travel Z1-axis	5 in
Swing range of top slide	± 52°

HEADSTOCK

Speed range, low	25 rpm - 200 rpm
Speed range, high	200 rpm - 1600 rpm
Spindle bore	3.1 in
Spindle mount	Camlock D1-8
Spindle taper	7 MT

FEED

Feed X-axis	0.00079 in/R - 0.02256 in/R
Feed Z-axis	0.00232 in/R - 0.0648 in/R

THREADING

Threading, metric	0.2 mm - 14 mm
Threading, diametric	(50) 4-112 DP
Threading, module	0.1 mm - 7 mm
Threading, whitworth	(60) 2-112 TPI

TAILSTOCK

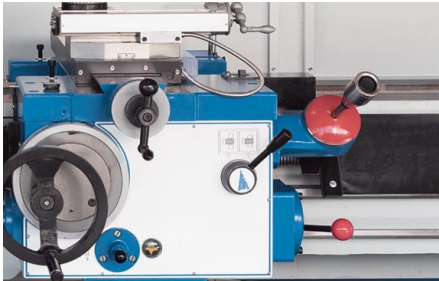
Tailstock quill diameter	3 in
Tailstock taper	MT 5
Tailstock quill stroke	7 in
Tailstock traverse adjustment	± 0,47 in

DRIVE CAPACITY

Motor rating main drive	10.1 Hp
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MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	112 in x 46 in x 58 in
Weight	5214 lbs



Support moves in linear and cross direction via motorized rapid feed for reduced down-time



PRODUCT DETAILS

- With a new support, rapid feed and a modern ergonomic machine frame, the Turnado Lathe PRO series continues its success story
- A heavily ribbed machine bed, rigid headstock and a massive one-piece cast-iron stand form a solid machine base
- Removable bridge allows machining of short workpieces with large diameters
- Back-gearing and an advanced electronic control technology of the powerful main spindle drive ensure high torque and a wide range of speeds
- High-precision pre-loaded spindle bearings ensure superior concentricity and load capacity
- All guides are adjustable
- Gears, transmission shafts, and guideways are hardened and ground to guarantee quiet operation and long tool life
- The apron runs in an oil bath for low maintenance and high reliability
- A central lubrication system inside the support supplies all guideways with lubrication and simplifies maintenance
- Micrometer bed stop ensures high repeatability on the Z-axis
- The tailstock can be adjusted sideways for taper turning
- The extensive features of the X.Pos Position Indicator are complemented here with a digital speed indicator and an easy to program auxiliary function
- 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

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
- Optical Scales: 5 µm resolution (0.000197") with outside cover from aluminum for protection against oil, coolant and chips

Basic Functions

- Resolution of 0.000197"
- 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

3-axis position indicator, X.pos 3.2 VC
 Quick tool changer head WC
 Quick change tool holder WCD 32150
 Rapid feed
 3-jaw chuck Ø 12 inch
 4-jaw face chuck Ø 14 inch
 Face plate Ø 17.7 inch
 Follow and steady rests
 Coolant system
 Micrometer longitudinal stop
 Thread gauge
 Reducing sleeve
 Dead center
 Traveling cover for the toolpost
 Chuck guard
 Foot brake pedal
 Fixed splash guard (wall)
 Work light
 Toolbox with operating tools
 Operator instructions