Conventional Horizontal Lathes

Basic 180 V

SKU : 300807

Basic 180 V is one of the heaviest machines in this popular market segment. With a bed width of 206 mm (8 in) and a 30 percent higher total weight, its solid construction has a positive effect on the processing quality. This lathe also enables heavier machining operations that meet industrial requirements. Equipped with an inverter, it can easily reach 3,000 revolutions per minute. The constant cutting speed function also ensures surface qualities comparable to that of a CNC lathe when facing.

- Largest bed width in this machine class
- Constant cutting speed
- High spindle speed and motor power
- Extensive standard equipment for a wide range of applications

TECHNICAL SPECS

WORKING AREA

Center width	39.37 in
Turning diameter over bed	14 in
Turning-Ø over support	9 in
Bed width	8 in

TRAVELS

Travel X-axis	7 in
Travel Z1-axis	4 in
Swing range of top slide	± 50°

HEADSTOCK

Speed range, high	550 rpm - 3000 rpm
Speed range, low	30 rpm - 550 rpm
Spindle mount	Camlock D1-4
Spindle bore	1.5 in
Spindle taper	5 MT

FEED

Feed X-axis	0.00055 in/R - 0.00811 in/R
Feed Z-axis	0.00169 in/R - 0.02571 in/R

THREADING

Threading, metric	(37) 04-7 mm
Threading, whitworth	(28) 4-56 TPI

TAILSTOCK

Tailstock quill diameter	2 in
Tailstock taper	3 MT
Tailstock quill stroke	5 in
Tailstock traverse adjustment	± 0.5 in

DRIVE CAPACITY

Motor rating main drive	5.4 Hp

MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	77 in x 30 in x 62 in
Weight	1936 lbs

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PRODUCT DETAILS

- Cast-iron bed, heavily ribbed
- All box ways are induction-hardened and precision-ground
- Headstock with D1-4' mount, bore diam. 1,5", run in 2 adjustable tapered roller bearings
- All gears are made of Cr-Ni steel, hardened, precision-ground, with oil-bath lubrication
- Tailstock can be moved ± 0.4 in for taper turning
- Guides are adjustable via tapered gibs
- Test certificate in accordance with DIN
- Including 3-axis position indicator, fully assembled
- Position indicator with speed display
- Infinitely variable spindle speed on 2 gear levels
- Speed up to 3000 rpm
- Constant cutting speed: speed adapts to the part radius - constant speed ensures uniform quality finish at any diameter.
- Main motor rating 5.5 Hp

CONTROLS & SOFTWARE

3-axis position indicator, X.pos 3.2 VC

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- Integrating multiple functions, this new generation of 3 axis digital readouts significantly offer a much better control over the machining processes, greatly decreasing down-times and error rates
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- It features a totally sealed enclosure made of high quality polyester film which protects it against hazardous enviroments 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 / 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

3-axis position indicator, X.pos 3.2 VC
4-jaw face plate chuck Ø 8"
Face plate Ø 12"
Quick change tool holder head WE
Quick change tool holder WED 20100
Coolant system
Steady and follow rests
Chip tray
Fixed splash guard (wall)
Chuck guard
Foot brake pedal
Work light
Micrometer stop
Reducing sleeve
Dead center
Protective shield for the toolpost
Thread gauge
Toolbox with operating tools
Operator instructions

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