



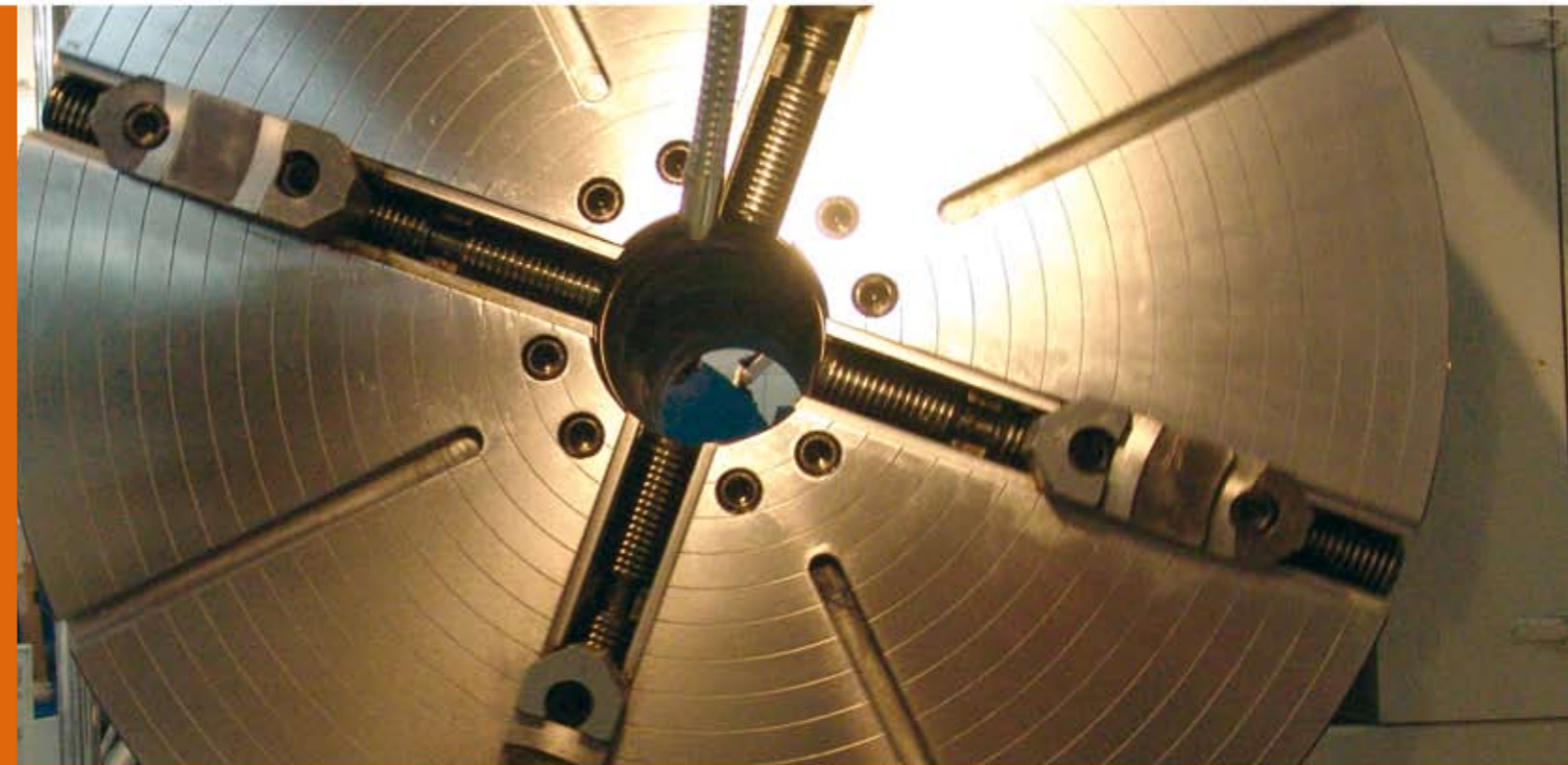
High Precision, Maximum Durability,  
Easy to Operate and Maximum Dependability

This quality designed and engineered heavy duty precision lathe delivers extremely powerful cutting capability and maximum rigidity. It is ideal for a wide variety of machining applications for various industries, such as machine parts, mining, steel refining, power plants, paper making, ship building, textiles and general industrial machinery. It gives high precision machining performance and is easy to operate.

Ruggedly Built... Maximum Stability... Performance that you can rely on...

Taurus heavy duty gap lathes are designed and engineered to let you turn heavy parts smoothly and efficiently. Their massive construction ensures maximum stability while performing heavy duty cutting operations. Built by our experienced technicians, these heavy duty gap lathes have been carefully inspected and tested before shipment to ensure high performance turning year after year.

[WWW.TAURUS.EU.COM](http://WWW.TAURUS.EU.COM)



**HEAVY DUTY LATHES**  
**TAURUS TRD AND TAURUS TCD**

TAURUS



\* Specifications are subject to change request without notice for improvement.

HEAVY DUTY GAP LATHES TAURUS MODELS TRD AND TCD



**TAURUS TCD 150**  
Spindle bore  $\phi$  510 mm



**TAURUS TRD 130**

MACHINE FEATURES

- All Taurus Lathes feature heavy duty rigid design and construction for years of unmatched accuracy and trouble-free performance.
- Rugged construction throughout assures optimum stability especially when performing heavy cutting.
- The high quality casting construction and perfect workmanship assures optimum rigidity and stability.
- Bed construction ensures maximum stability and convenient chip disposal.
- Bed manufactured from high tensile Meehanite cast iron.
- Powerful spindle motor provides heavy cutting.
- High torque output at low speed is excellent for heavy duty machining.
- All guideways (bed and carriage) are hardened (55-60 HRC), precision-ground and coated with "Turcite – B".

- A third additional, lower, hardened and ground guideway which perfectly supports the carriage.
- Driven, automatic top slide.
- Rapid cross and longitudinal feeds.
- High maximum load capacity between centers.
- Massive tailstock (with retract device) and its heavy construction with large quill assures maximum stability in heavy duty operations.
- Removable gap.
- Back chuck adaptors.
- Spindle is precision manufactured from high quality alloy steel supported by "Timken" and "SKF" bearings.
- Large spindle bore (standard dia. 153 mm) – to dia.: 610 mm as an option.
- "User-friendly" operations.
- Independent coolant system for spindlestock ensures normal temperature at high speed turning.

STANDARD ACCESSORIES

- CE Mark
- 4-position toolpost
- Built-in air pressure
- Coolant system
- Auto-lubrication system
- Halogen lamp
- Safeguards
- Fixing paddles
- Manuals
- Toolbox

WIDE RANGE OF OPTIONAL ACCESSORIES

- Chucks 4-jaws and 3-jaws self-centering
- Steady rests different sizes
- Semi-automatic cycle turning and threading attachment
- Taper turning attachment
- Infinitely variable speeds
- Digital Read-out (2 and 3 axis)



TECHNICAL SPECIFICATIONS FOR TAURUS MACHINE

MODELS	TRD 90	TRD 100	TRD 110	TRD 130	TCD 130	TCD 150	TCD 180
TECHNICAL SPECIFICATION							
swing over bed	880 mm	1010 mm	1130 mm	1270 mm	1270 mm	1527 mm	1790 mm
swing over cross-slide	660 mm	740 mm	870 mm	1010 mm	950 mm	1200 mm	1460 mm
swing over gap	1340 mm	1470 mm	1600 mm	1740 mm	1700 mm	2040 mm	2300 mm
length of gap	600 mm						
distance between centers	1500÷12000 mm						
HEADSTOCK							
spindle bore	ϕ 153 mm (optional ϕ 230, 305, 360, 410, 510 mm)						
spindle speeds	7-700 rev./min. (non-gradual adjustment optional – speed depended on spindle bore - 4 range)						
main spindle motor	30 kW (optional 37 or 56 kW)						
THREADS & FEEDS							
metric thread	1 ÷ 56 mm						
inch thread	1/2 ÷ 28 TPI						
module thread	0,25 ÷ 14 MP						
diametral pitch thread	0,2 ÷ 112 D.P.						
longitudinal feed	0,042 ÷ 2,4 mm/rev.						
cross feed	0,02 ÷ 1,2 mm/rev.						
longitudinal rapid feed	2000 mm/min.						
cross rapid feed	1000 mm/U						
SUPPORT							
cross-slide travel	670 mm				800 mm		
compound rest travel	450 mm				500 mm		
TAILSTOCK							
quill diameter	145 mm						
inner taper of quill	6 MT						
quill travel	200 mm				250 mm		
BED							
bed height	680 mm						
bed width	880 mm				980 mm		
travel of top slide	560 mm				715 mm		
travel of top slide together with bottom slide	660 mm				815 mm		
WEIGHT							
net weight	8 000 kg				12 000 kg		
machine weight (3m distance between centers)	11 000 kg	11 350 kg	11 700 kg	12 050 kg	13 500 kg	14 500 kg	15 500 kg
1m bed weight	1000 kg				1100 kg		

TAURUS WIDE RANGE OF LATHES GIVES YOU A FLEXIBLE CHOICE. NO MATTER WHICH MODEL YOU SELECT YOU GET A LATHE THAT CAN INCREASE PRODUCTIVITY AND PROFITS FOR YOUR PARTS TURNING.