



TNS0BR Technical Specification	
WORKING AREA	
Swing over bed	500 mm
Swing over cross slide	270 mm
Swing without gap bridge	700 mm
Distance between centers	1000, 1500, 2000 mm
Cross slide travel	300 mm
Toolpost working travel	140 mm
Dimension of tool shank	32x20 mm
Max. workpiece weight	300/45 Kg/ rpm
Gap bridge length	230 mm
Bed width	340 mm
HEAD STOCK	
Number of spindle speed steps	2 range, 12 steps each one
Spindle speed range	range 1: 22.4-1000 r.p.m range 2: 45-2000 r.p.m
spindle nose dia.	170 mm according to DIN 55027
Spindle bore taper	morse NO.6
Spindle bore dia. (through bore)	50 mm
Height of centers	250 mm
Inner diameter of spindle bearing in front	80 mm
TAILSTOCK	
Tailstock quill dia.	70 mm
Tailstock quill taper	Morse NO 5
Tailstock quill stroke	180 mm
Cross resetting	±12
FEEDS	
Number of longitudinal and cross feeds	38
Range of longitudinal feed	0.05-6.4 mm/rev
Range of cross feeds	0.025-3.2 mm/rev
Rapid traverse Z, X axes	3000, 1500 mm/min
THREAD PITCHES (TAPPING)	
29 type of metric threads	0.05-40 mm
35 type of whitworth threads	80-1 t.p.i
26 type of module threads	0.26-20 module
31 type of diametral pitch threads	2-27 D.P
Lead screw	Tr40x6 mm
MOTORS	
Main motor	power: 5.5 KW speed: 1500 r.p.m
Rapid travers motor	power: 0.55 KW speed: 3000 r.p.m
Coolant pump motor	0.09kw / 2800 r.p.m
GENERAL SPECIFICATION	
Turning length (mm)	1000 1500 2000
Total length (mm)	2575 3075 3575
Total width	1100 1100 1100
Height	1500 1500 1500
Approximate weight (kg)	1650 1750 1850

LATH MACHINE MODEL TN50BR

This machine with its four guide ways hardened is suitable for all turning operations both single and mass production. It can be equipped with special attachments to comply with different applications including drilling internal and external grinding and screw thread cutting. Apron is equipped with rapid approach which reduces the time needed for machining. When machine is idle tool holder can be moved rapidly in four directions lessening machining time and wearing of machine components.

Features	Optional Equipment	Standard equipment
Meehanite cast iron. Hardening guide ways Scraping of moving ways	Digital linear scale & readout 4 jaw chuck Ø250 mm 4 jaw face plate Ø500 mm Plain face plate. Upper slide with American tool holder. Rear tool post Quick change tool post Camlock spindle nose Face driver Arbor Morse Taper adapter Live center Morse No. 5 Toolpost Grinder Taper turning attachment Large steady rest Φ 110 - Φ250 mm Rear Cover Cable carrier Tooling (All cutting tools & tool holder for o Controlling (All measuring & test devices) Spare parts for 2 & 5 years	Specification: 3 jaw chuck Ø250 mm Drive plate Dia. 235 mm Flange for chuck Ø250 mm Spindle Morse Taper adapter Centre Morse 5 Chip pan (Tray) Cooling equipment with tank and pump Upper slide with 4-way toolpost Spare shear pins for lead screw Lighting equipment for 24 volts / without bulb Chip guard (carriage mounted) Universal chuck & Chip guard Anchoring screws Steady rest Φ 10 - Φ115mm. Follow rest Φ 10 - Φ115 mm. Set of change gears Set of operating tools 1 year mechanism warranty 5 years technical support Instruction handbook

Counter guides scraped by hand. Specially coated taper strips are used to provide very low guide clearance thus ensuring highest precision, stability, minimum wear, and long service life.

MAIN ADVANTAGES

- Simple and ergonomic control
- High turning precision
- Long lifetime
- Low operating costs
- Possibility to cut non-standard threads
- Easy maintenance
- Possibility to cut various types of threads with wide range of pitches
- Wide range of optional accessories

3 jaw self-centering	4 jaw faceplat	Chuck flange	Steady rest
4 jaw self-centering	Faceplat	Drive plate	Follow rest
Thread indicator	Taper turning attachment		Large steady rest
Tool post	Rear Tool post	Quick change Tool post	Cam lock spindle nose
Face driver	Live center Morse	Center Morse	Grinding attachment