



Universal centre lathes

Universal centre lathes belong to the most requested products from the TRENS, a.s. production portfolio. From the middle of the 20th century our lathes, known under the TOS Trenčín and now TRENS brands, have fulfilled clients demanding requirements. Their advantage is the high precision of machining, easy operating and maintenance, long lifetime, and low operating costs. Thanks to sustained quality and constant development we have attained a leading position among manufacturers of universal lathes worldwide. The result is over 100,000 lathes sold throughout the world, and satisfied customers who repeatedly choose the TRENS brand.

PURPOSE

SN 500 SA is a universal centre lathe designed for piece and small series production; however it is also suitable for maintenance in repair workshops. Main motor output is 7.5 kW. Optional execution with enlarged spindle bore and a wide range of operating speed represent an advantage of the universal centre lathe SN 500 SA.

SN 500 SA



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We Shape the Shapes



VERSATILITY

- small built-up area
- increased swing over bed by bed gap
- simple gearshifting
- simple maintenance
- the inch or metric execution
- option to modify to meet different mains voltage
- wide range of executions and accessories
- fulfil all CE standards

MATERIAL MACHINING QUALITY

- stability in material cutting
- ergonomic operating
- clutch driven spindle, smooth movement stop by brake

LIFE-CYCLE AND PROFITABILITY

- hardened guide ways
- low operating costs
- service availability – experience

STANDARD

- operating manual
- spindle reducing sleeve
- MORSE 5 dead centre
- operator's tool kit
- shear pins
- exchange gears set



OPTIONAL EXECUTIONS

- inch execution
- spindle nose ISO 702/II CAMLOCK
- exchange gears for 11,5; 13 and 27 t.p.i.
- tool head Multi Suisse B, C
- tropical execution
- enlarged spindle bore \varnothing 105 mm
- folding handles
- different voltages and frequencies
- digital read out

ACCESSORIES

- 4-jaw face-plate, \varnothing 500 mm
- plain face-plate, \varnothing 500mm
- universal 3 – 4-jaw chuck, \varnothing 250mm, 315 mm
- live centre MORSE 5
- steady rest, \varnothing 10 – 115 mm
- follow rest, \varnothing 10 – 115 mm
- large steady rest, \varnothing 110 – 250 mm
- rolling contact bearings for steady rests
- rear tool holder
- taper turning attachment
- tool post grinder
- longitudinal micrometer stop (cross)
- thread indicator
- drive plate
- flange for chuck
- anchoring material
- grease gun
- face-plate guards

TECHNICAL PARAMETRES

Working range

Swing over bed	505 mm
Swing over cross slide	270 mm
Swing of the bed gap	700 mm
Useful length of the bed gap	230 mm
Distance between centres	1000, 1500, 2000 mm 980, 1480, 1980 mm*
Height of centres over bed	250 mm

Spindle

Speed range	12,5 – 2000 min ⁻¹	12,5 – 1600 min ⁻¹ *
Spindle front nose	STN ISO 702/III – B8	STN ISO 702/III – B11*
Bore	77 mm	105 mm*
Internal taper	METRIC 90	METRIC 115*
Max. torque/limiting speed		1450/50 Nm/min ⁻¹

Carriages

Cross slide working travel	300 mm
Tool slide working travel	140 mm
Max. tool size	32 x 25 mm
Traverse feed number	38
Working range of longitudinal feeds	0,05 – 6,4 mm.rev. ⁻¹
Working range of cross feeds	0,025 – 3,2 mm.rev. ⁻¹
Longitudinal rapid traverse	3000 mm.min ⁻¹
Cross rapid traverse	1500 mm.min ⁻¹

* bore 105 mm

Tailstock

Tailstock sleeve diameter	80 mm
Tailstock sleeve stroke	180 mm
Tailstock sleeve internal taper	MORSE 5
Cross resetting	\pm 12 mm

Threads

Metric threads	– number	29
	– range	0,5 – 40 mm
Whitworth threads	– number	38
	– range	1 – 80 thread/1"
Modular threads	– number	26
	– range	0,25 – 20 mm
Thread Diametral Pitch	– number	31
	– number of DP thread	2 – 72

Work piece weight

Max. work piece weight clamped between centres	1000 kg
Max. work piece weight, clamped in the chuck	80 kg

Power drives

Total power input	12 kVA
Supply voltage	3 x 400 \pm 10 % V
Motor output:	
- main drive	7,5 kW
- coolant pump	0,09 kW
- rapid traverse	0,55 kW

Dimensions

Width x Height	1100 x 1525 mm
Length for DBC	1000, 1500, 2000 2595, 3095, 3595 mm

Weight

Length for DBC	1000, 1500, 2000 2300, 2400, 2600 kg
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