

Universal centre lathes

SUI 80



Universal centre lathes belong to the most requested products from the TRENS, a.s. production portfolio. From the middle of the 20 th 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.

SUI 80 is a universal centre lathe designed for piece and small series production; however it is also suitable for maintenance in repair workshops. It is characterised by high performance at machining longer pieces of material to 8 m. This universal centre lathe has a wide range of operating speed. Main motor output is 15 kW. It is of a robust cast iron bed frame. It's unique design and high quality guarantee high stability at material machining.

TRENS, a. s., Súvoz 1, 911 32 Trenčín

www.trens.sk

Telephone: +421/32/7412 620

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

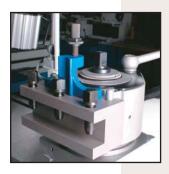
- · stability in material cutting
- · ergonomic operating
- clutch driven spindle, smooth movement stop by brake

LIFE-CYCLE AND PROFITABILITY

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

STANDARD

- · operating manual
- spindle reducing sleeve
- MORSE 6 dead centre
- operator's tool kit
- shear pins
- · exchange gears set





TECHNICAL PARAMETRES

Distance between centres 1500, 2000, 3000,4000, 6000, 8000 mm

Working range Swing over bed

Spindle

Bore

Speed range

Internal taper

Carriages

Max. tool size

Spindle front nose

Swing over cross slide

Useful length of the bed gap

Height of centres over bed

Max. torque/limiting speed

Cross slide working travel

Working range of longitudinal feed

Working range of cross feed

Longitudinal rapid traverse

Tool slide working travel

Traverse feed number

Cross rapid traverse

Swing of the bed gap



20.1 kVA

800 mm

520 mm

870 mm

320 mm

395 mm

92 mm

440 mm

195 mm

60

32 x 32 mm

4800 mm.min⁻¹

2400 mm.min⁻¹

14 - 1400 min⁻¹

METRIC 100

3200/45 Nm/min-1

0.06 - 1.55 mm.rev.-1

0.03 - 0.775 mm.rev.⁻¹

STN ISO 702/III - B11

OPTIONAL EXECUTIONS

- inch execution
- spindle nose ISO 702/II CAMLOCK
- tool head Multi Suisse D
- · tailstock with higher rigidity
- tropical execution
- · different voltages and frequencies
- digital read out
- execution with 18,5 kW, 22 kW motor

ACCESSORIES

- 4-jaw face-plate, Ø 800 mm
- plain face-plate, Ø 800mm
- universal 3 4-jaw chuck, Ø 315 mm, 400 mm
- live centre MORSE 6
- steady rest, Ø 30 − 210 mm
- follow rest, Ø 20 180 mm
- large steady rest, Ø 210 370 mm
- rolling contact bearings for steady rests
- · rear tool holder
- taper turning attachment
- tool post grinder
- longitudinal micrometer stop (cross)
- multiposition longitudinal micrometer stop (cross)
- thread indicator
- drive plate
- flange for chuck
- · anchoring material
- grease gun
- face-plate guards

Tailstock

Tailstock sleeve diameter	110 mm (120 mm)
Tailstock sleeve travel	210 mm
Tailstock sleeve internal taper	MORSE 6
Cross resetting	±10 mm

Threads

Metric threads	– number	43
	– range	0.5 - 160 mm
Whitworth threads	– number	40
	– range	1/8 - 40 thread/1"
Modular threads	– number	36
	– range	0.25 - 48 mm
Thread Diametral Pitch	– number	42
	 number of DP thread 	3/8 - 80

Work piece weight

Total power input

Max. work piece weight clamped between centres	3200 kg
Max. work piece weight, clamped in the chuck	250 kg

Power drives Supply voltage

Supply voltage	3 X +00 - 10/0 V
Motor output	
- main drive	15 kW
- coolant pump	0.180 kW
- rapid traverse	0.750 kW

Dimensions

Width x Height	1650 x 1700 mm
Length for DBC 1500, 2000, 3000	3560, 4060, 5060 mm
4000, 6000, 8000	6060, 8060, 10 060 mm

Weight

Length for DBC	1500, 2000, 3000	5180, 5440, 5970 kg
	4000, 6000, 8000	6400, 7670, 8630 kg