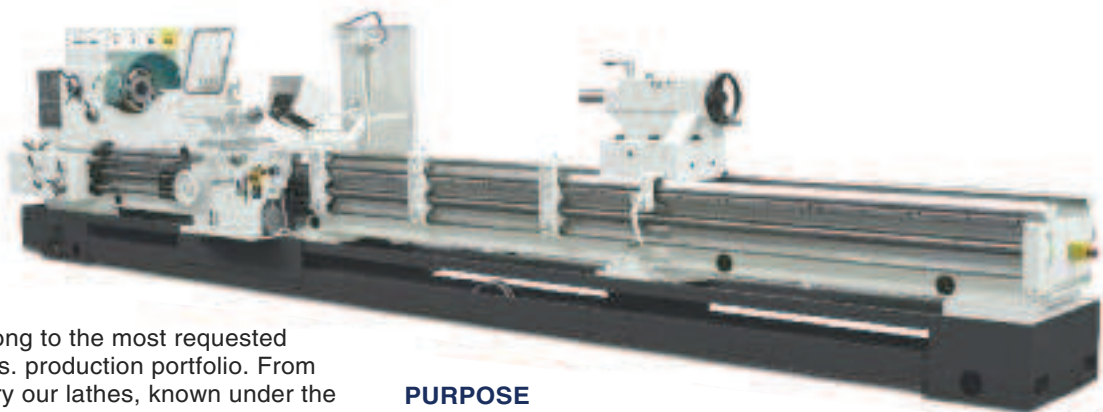


# Universal centre lathes

## 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.

### **PURPOSE**

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.

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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 6 dead centre
- operator's tool kit
- shear pins
- exchange gears set



## OPTIONAL EXECUTIONS

- inch execution
- spindle nose ISO 702/II CAMLOCK
- tool head MultiSuisse D
- tailstock with higher rigidity
- tropical execution
- different voltages and frequencies
- digital read out
- execution with 18,5 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
- longitudinal micrometer stop (cross)
- multiposition 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	800 mm
Swing over cross slide	520 mm
Swing of the bed gap	870 mm
Useful length of the bed gap	320 mm
Distance between centres	1500, 2000, 3000, 4000, 6000, 8000 mm
Height of centres over bed	395 mm

### Spindle

Speed range	14 - 1400 min <sup>-1</sup>
Spindle front nose	STN ISO 702/III – B11
Bore	92 mm
Internal taper	METRIC 100
Max. torque/limiting speed	3200/45 Nm/min <sup>-1</sup>

### Carriages

Cross slide working travel	440 mm
Tool slide working travel	195 mm
Max. tool size	32 x 32 mm
Traverse feed number	60
Working range of longitudinal feed	0.06 – 1.55 mm.rev. <sup>-1</sup>
Working range of cross feed	0.03 – 0.775 mm.rev. <sup>-1</sup>
Longitudinal rapid traverse	4800 mm.min <sup>-1</sup>
Cross rapid traverse	2400 mm.min <sup>-1</sup>

### 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

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

### Power drives

Total power input	20.1 kVA
Supply voltage	3 x 400 ± 10% 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