

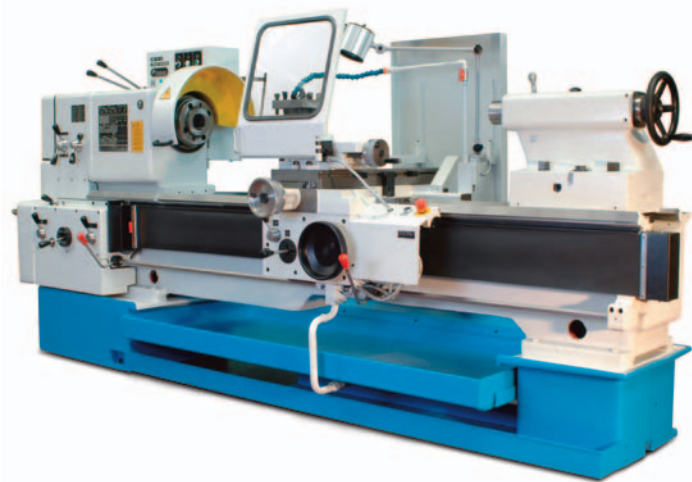
# Universal centre lathes

**Universal centre lathes** from our production have been in the great demand. TRENS, a.s. has started production of the lathes in the 50s of the 20th century. Our experience have reflected in today's excellent utility and merits of our machine tools, like high machining accuracy, long life cycle, simple attendance or low operating costs. The fact that since the production start there have been over 100 000 units produced and sold in the countries world-wide guarantees liability of the all-purpose centre lathes.

## PURPOSE

SN 71 C is a customer classic. Output of its main motor is 7.5 kW. Its unique design and quality guarantee high stability at material machining. Spindle bore of this universal centre lathe is 73.5 mm and it is characterised by wide range of operating speed. Its major advantage represents a possibility of machining big pieces of material.

## SN 71 C



TRENS, a. s., Súvoz 1, 911 32 Trenčín

[www.trens.sk](http://www.trens.sk)

Telephone: +421/32/7412 620

We Shape the Shapes



## VERSATILITY

- small built-up area
- swing over bed increase – bed gap
- simple gearshifting
- simple maintenance
- the inch and metric version
- option to modify to meet different mains voltage
- wide range of versions and accessories
- CE security standards

## MATERIAL MACHINING QUALITY

- stability in turning of material
- ergonomic operating
- clutch and brake-driven spindle – smooth movement stop

## LIFE-CYCLE AND PROFITABILITY

- hardened bed sliding surfaces
- low operating costs
- service availability – experience

## STANDARD

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

## TECHNICAL PARAMETRES

### Working range

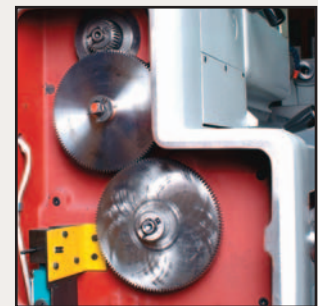
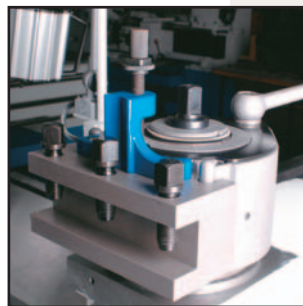
Swing over bed	710 mm
Swing over cross slide	420 mm
Swing of the bed gap	960 mm
Useful length of the bed gap	300 mm
Distance between centres	1500, 2000, 3000, 4000 mm
Height of centres over bed	355 mm

### Spindle

Speed range	10 - 1000 min. <sup>-1</sup>
Spindle front nose	STN ISO 702/III – B8
Bore	73.5 mm
Internal taper	METRIC 80
Max. torque/limiting speed	2400/20 Nm/min. <sup>-1</sup>

### Carriages

Cross slide working travel	400 mm
Tool slide working travel	180 mm
Max. tool size	40 x 25 mm
Traverse feed number	38
Working range of longitudinal feed	0.05 - 6.4 mm.rev. <sup>-1</sup>
Working range of cross feed	0.025 - 3.2 mm.rev. <sup>-1</sup>
Longitudinal rapid traverse	3000 mm.min. <sup>-1</sup>
Cross rapid traverse	1500 mm.min. <sup>-1</sup>



## OPTIONS

- Inch version
- Spindle nose ISO 702/11 CAMLOCK
- Exchangeable wheels for cutting 11.5; 13 and 27 threads per inch
- tool head MULTIFIX C
- Folding handles
- Tropical version
- Design with 11 kW motor
- Different voltages and frequencies
- Flexible power supplies
- Numerical position indication

## ACCESSORIES

- 4-jaw face-plate,  $\varnothing$  710 mm
- plain face-plate,  $\varnothing$  710mm
- universal 3 – 4-jaw chuck,  $\varnothing$  315 mm
- live centre MORSE 5
- steady rest,  $\varnothing$  12 – 180 mm
- follow rest,  $\varnothing$  12 – 180 mm
- large steady rest,  $\varnothing$  180 – 320 mm
- rolling contact bearings for steady rests
- rear tool holder
- American type tool post
- taper turning attachment
- tool post grinder
- longitudinal micrometer stop (cross)
- thread indicator
- drive plate
- flange for chuck
- anchoring material
- grease gun

### Tailstock

Tailstock sleeve diameter	90 mm
Tailstock sleeve travel	240 mm
Tailstock sleeve internal taper	MORSE 5
Cross resetting	$\pm$ 10 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	1500 kg
Max. work piece weight, clamped in the chuck	80 kg

### Power drives

Total power input	8.9 kVA
Supply voltage	3 x 400 $\pm$ 10% V
Motor output	
- main drive	7.5 kW
- coolant pump	0.09 kW
- rapid traverse	0.94 kW

### Dimensions

Width x Height	1400 x 1560 mm
Length for DBC 1500, 2000, 3000, 4000	3600, 4100, 5100, 6100 mm

### Weight

Length for DBC 1500, 2000, 3000, 4000	2960, 3080, 3330, 3580 kg
---------------------------------------	---------------------------