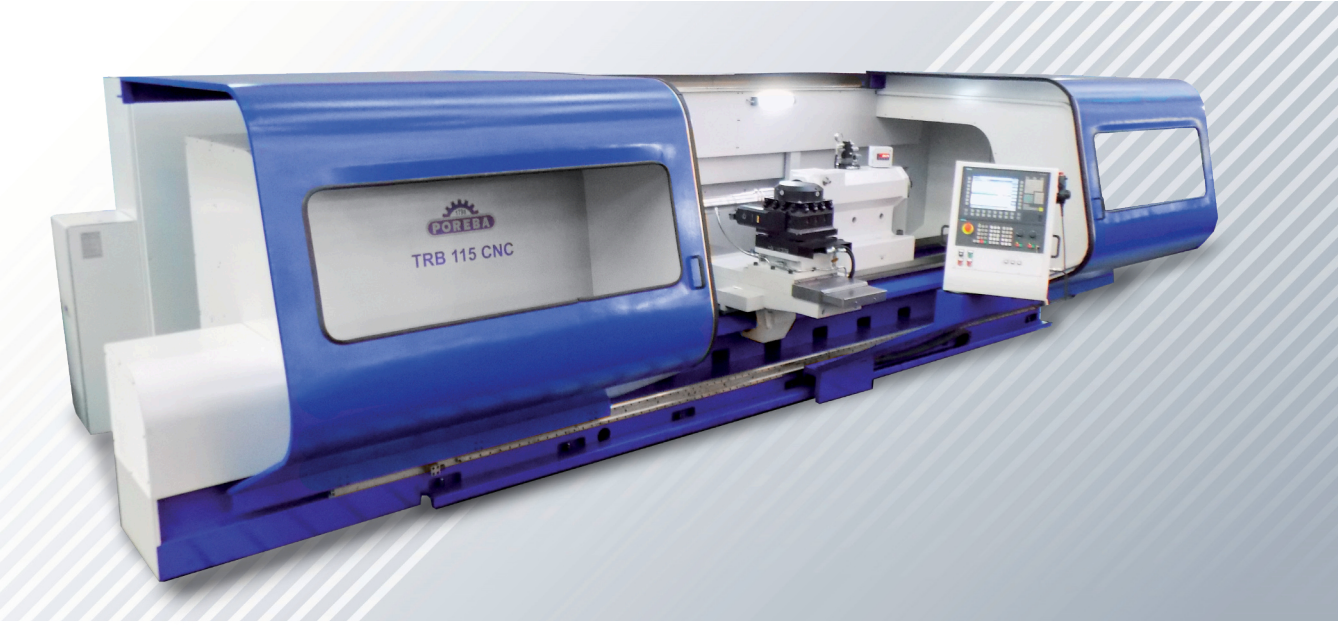
TRB Series

In their basic version the TRB Series horizontal centre lathes – thanks to the innovative mechanical solutions and the advanced control systems – are the multipurpose lathes that guarantee productive rough and finish machining. The TRB Series lathes are designed for workpiece machining in the range of turning in accordance with their specifications, especially for machining of large-size shafts. When delivered with special equipment they can operate as horizontal machining centres with turning, drilling and milling capabilities. They can be equipped with an automatic turret, tool attachments, tool and workpiece measuring systems, controlled C axis, workpiece steady rests.



Main features:

- Machine tool construction based on a rigid bed with hardened guideways
- Bed and headstock bodies made from high-grade cast iron of enhanced mechanical properties
- Carriage travels along two guideways that guarantee precise guidance
- Spindle rested on bearings of increased accuracy class
- A wide variety of optional equipment that expands the machine tool capabilities
- All shafts and gears carburized, hardened and ground

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TECHNICAL SPECIFACTIONS		TRB 115 CNC	TRB 135 CNC
Capacity			
Swing over bed	ø mm	1150	1350
Swing over carriage	ø mm	700	900
Turning length (every 1000 mm)	mm	2000 - 18000	
Max. weight of workpiece clamped in:			
• chuck	kg	2000	
• centres	kg	9000	
• centres + 1 steady rest	kg	12000	
• centres + 2 steady rests	kg	15000	
Headstock			
Spindle bore diameter	ø mm	150	300
Spindle nose	size	A1 - 15	A1 - 20
Range of continuously variable rotation rates	rpm	1 - 900	2 - 450
Power of main drive motor	kW	40 / 60	
Max. torque on spindle	Nm	10000 / 13000 *	
Carriage			
Longitudinal travel	mm	2200 for 2000 mm turning length, every 1000 mm	
Cross-wise travel	mm	700	
Rapid travel in X axes	mm/min	4000	
Rapid travel in Z axes	mm/min	4000	
Tailstock			
Quill diameter	ø mm	190	
Quill stroke	mm	300	
Internal taper	size	Morse no. 6	
Machine tool overall dimensions and weight, approx.			
• Length	mm	3900 + turning length	
• Width	mm	2850	
• Height	mm	2500	
Weight (for 2000 mm turning length)	kg	10000	10400

* – Optional execution.

Some of the above data can be altered to meet the Customer requirements.
Above data are subject to change due to product development, without prior notice.

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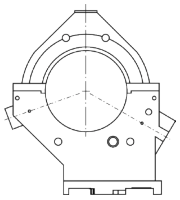
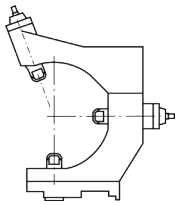
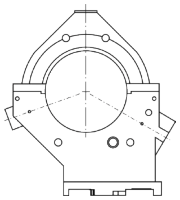
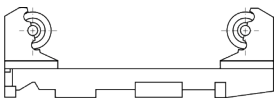
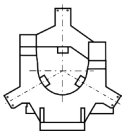
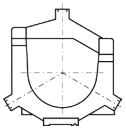
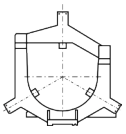
Steady rests for lathes

Name	Diameters	Application	Steady rest
Roller steady rest	Ø 250 – 600 mm (TZL 420 CNC, TCF) Ø 600 – 1000 mm (TZL 420 CNC, TCE) Ø 20 – 160 mm (TRP 63, TRP 72) Ø 40 – 400 mm (TRP 93, TRP 110) Ø 160 – 380 mm (TRP 63, TRP 72) Ø 400 – 600 mm (TRP 93, TRP 110) Ø 100 – 400 mm (TCF) Ø 400 – 800 mm (TCF) Ø 700 – 1100 mm (TCF) Ø 250 – 650 mm (TCE) Ø 50 – 450 mm (TCM) Ø 450 – 750 mm (TCM) Ø 450 – 950 mm (TCM)	• TZL 420 CNC • TRP Series • TCF Series • TCE Series • TCM Series	
C – type roller steady rest	Ø 150 – 700 mm (TZL 420 CNC, TCF) Ø 400 – 800 mm (TZL 420 CNC, TCF) Ø 700 – 1000 mm (TZL 420 CNC, TCF)	• TZL 420 CNC • TCF Series	
Hydrostatic steady rest	Ø 600 – 1000 mm (TZL 420 CNC, TCE)	• TZL 420 CNC • TCE Series	
Open-type roller steady rest	Ø 1000 – 1350 mm (TCE) Ø 1000 – 1800 mm (TCE) Ø 1100 – 1600 mm (TCF)	• TCE Series • TCF Series	
Tilting-type roller steady rest	Ø 50 – 450 mm (TRB) Ø 450 – 750 mm (TRB) Ø 450 – 950 mm (TRB)	• TRB Series	 Ø 50 – 450 mm  Ø 450 – 750 mm  Ø 450 – 950 mm

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