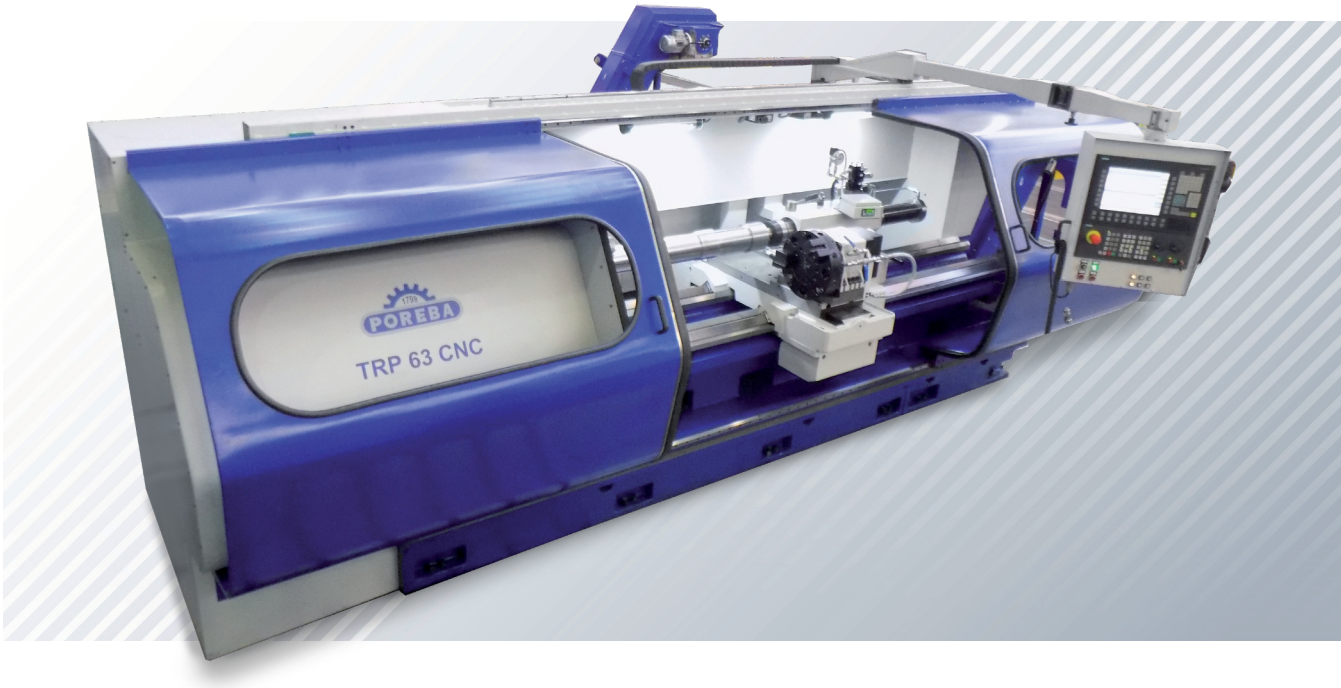
TRP Series

In their basic version the TRP 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 TRP 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:

- Bed made of high-grade cast iron of enhanced mechanical properties, standardized, suitably ribbed, rested on foundation along its entire length
- Longitudinal travel along two V-block guideways that guarantee precise guidance
- Bed and carriage guideways hardened up to minimum 45 HRC
- Longitudinal and crosswise travels on an anti-friction material and assisted by central lubrication system
- Headstock housing made from cast iron of enhanced mechanical properties
- Spindle rested on bearings of increased accuracy class
- All shafts and gears carburized, hardened and ground

TECHNICAL SPECIFACTIONS		TRP 63 CNC	TRP 72 CNC	TRP 93 CNC	TRP 110 CNC
Capacity					
Swing over bed	ø mm	650	740	930	1100
Swing over carriage	ø mm	380	420	570	740
Turning length (every 1000 mm)	mm	1000 - 8000	1000 - 8000	2000 - 16000	2000 - 16000
Max. weight of workpiece clamped in:					
• chuck	kg	500	500	1000	
• centres	kg	3000	3000	6000	
• centres + 1 steady rest	kg	3800	3800	7600	
• centres + 2 steady rests	kg	4600	4600	9800	
Headstock					
Spindle bore diameter	ø mm	105	140	95 / 204 * 300 * / 370 *	
Spindle nose	size	C - 8 / A1 - 11		A1 - 11 / A1 - 15 * A1 - 20 * / A2 - 20 *	
Range of continuously variable rotation rates	rpm	2 – 2000 / 2 - 1700 *		4 - 800 / 2 - 550 * 2 - 450 * / 2 - 315 *	
Number of rotation rates	quantity	3		2	
Power of main drive motor	kW	12		30 / 28 *| 22 *	
Max. torque on spindle	Nm	2160		5600 / 5900 *| 4700 *	
Carriage					
Rapid travel in X and Z axes	mm/min	4000			
Longitudinal travel	mm	distance between centres			
Cross-wise travel	mm	330		580	
Size of X-axis ball screw	ø × pitch mm	32 × 5		40 × 5	
Size of Z-axis ball screw	ø × pitch mm	50 × 10 for 1000 – 4000 mm turning length		63 × 10 for 2000 – 4000 mm turning length	
Z-axis drive	type	Rack-and-pinion backlash-free for 5000 – 8000 mm turning length		Rack-and-pinion backlash-free for 5000 – 16000 mm turning length	
Tool system	type	automatic 8-position turret / other *			
Tailstock					
Quill diameter	ø mm	100		160	
Quill stroke	mm	200		270	
Internal taper	size	Morse no. 5		Morse no. 6	
Machine tool overall dimensions and weight, approx.					
• Length	mm	2450 + turning length		3270 + turning length	
• Width	mm	2080		2735	
• Height	mm	2000		2200	
Weight (for 1000 mm turning length)	kg	4000	4200	9400	10700

* – Optional execution.

Full offer of TRP Series also contains TRP 93 CNC lathes.

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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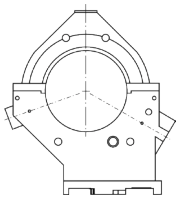
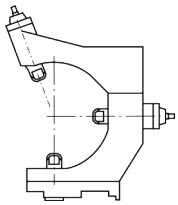
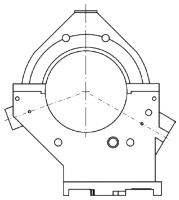
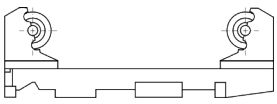
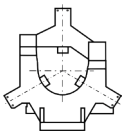
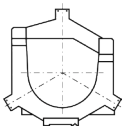
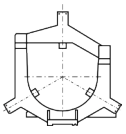
Steady rests for lathes

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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