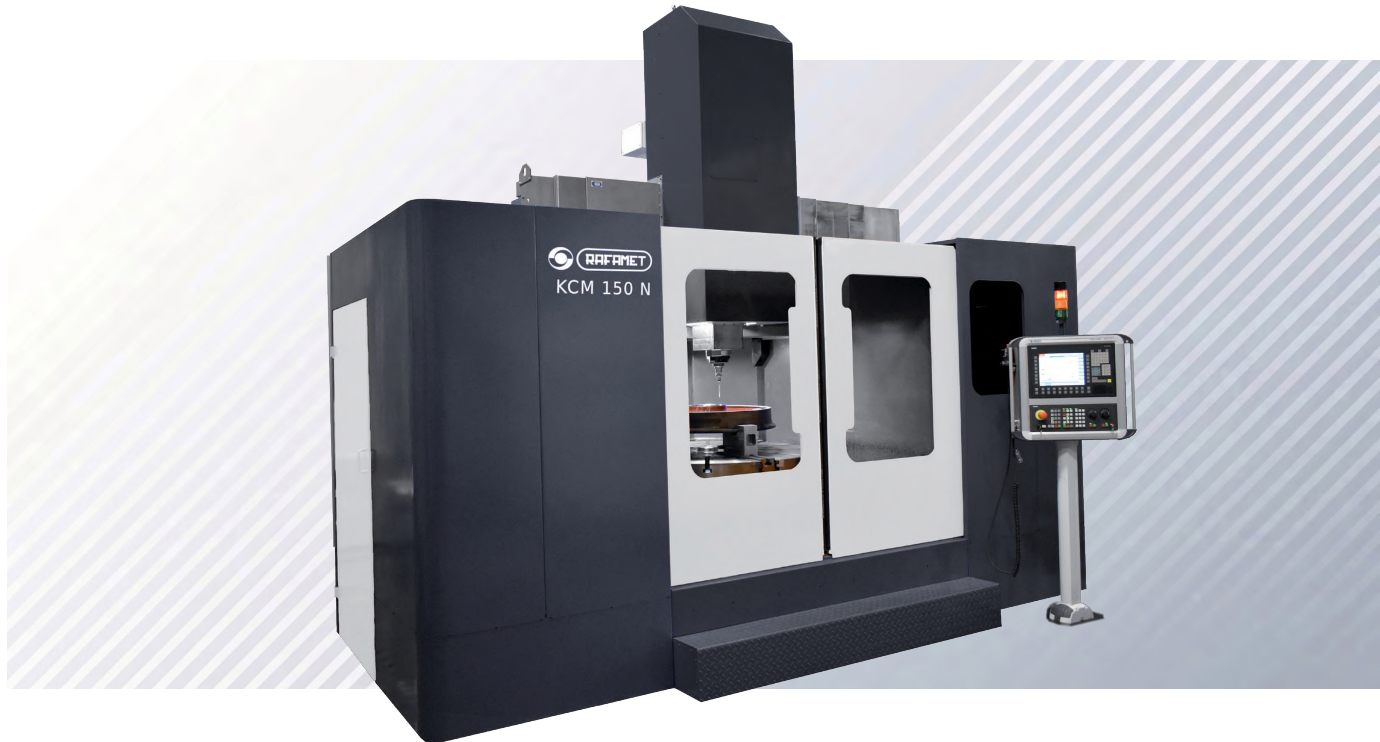code: A-2, A-3

KCM 150 N

The KCM 150 N Wheel Boring Machine is single-column Vertical Turning Lathe specifically designed to machine railway wheels. It is available in single and double railhead versions, the latter withincreased productivity.

Wheel Boring Machine

- Machine major body elements made as extremely rigid, heavily ribbed box type, high grade grey iron castings providing maximum vibration-damping capabilities during cutting process

- Main drive powered by two AC motors of continuously variable rotation rates providing high productivity and quality of wheelset machining

- Solid forged steel railhead ram equipped with Coromant CAPTO® quick-change tool adapter

- Workpiece measuring probe (of Renishaw or equivalent make) mounted in tool seat

Available Machining Operations

Wheels
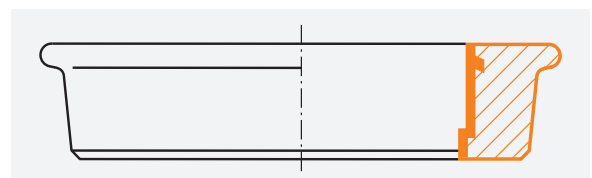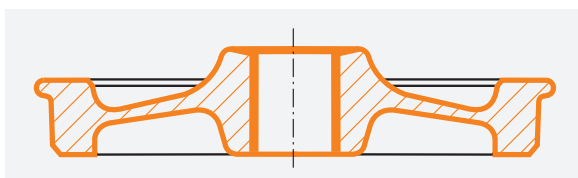
TECHNICAL SPECIFACTIONS		KCM 150 N	
Table			
Version		A-2	A-3
Table diameter	mm	1500	
Max. turning diameter	mm	1800	
Max. tread diameter of solid wheel/wheel tyre	mm	1250	
Max. weight of workpiece	×10 kN	6	
Max. continuously variable rotation rates of table:			
• Cast iron table	rpm	250	
Power of main drive motor [1]	kW	2 × 31	
Cross – rail (fixed)			
Max. height of turning	mm	400	
Railhead			
Number of railheads		1	2
Ram stroke	mm	400	
Range of feed rates in X and Z axes	mm / min	0.1 to 6000	
Ram cross-section	mm	250 × 250	
Machine tool overall dimensions and weight			
Machine tool overall dimensions [2]:			
• Length	mm	4500	
• Width	mm	4000	4700
• Height	mm	4200	
Workshop floor surface demand	mm	6500 × 6500	6500 × 7200
Approximate weight of machine tool [2]	×10 kN	21	27
Machine tool accuracies			
X – axis positioning accuracy M_{ar} (L=1000 mm)	mm	0.015	
Z – axis positioning accuracy M_{ar} (L=1000 mm)	mm	0.015	
X – axis positioning repeatability $RP_{Max.}$ (L=1000 mm)	mm	0.012	
Z – axis positioning repeatability $RP_{Max.}$ (L=1000 mm)	mm	0.012	

[1] – Main drive motors of higher power available.
[2] – For standard execution of machine tool.

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.