



MOBILE WHEELSET TURNING MACHINE MOBITURN®3

➤ APPLICATION AND USE

The HEGENSCHIEDT MOBITURN®3 is a mobile wheelset turning machine for on-demand maintenance of rail vehicle wheels, wheelsets, and brake discs in both mounted and demounted condition. It is the world's first and only system that comes to the rail vehicle.

The MOBITURN®3 can be transported by rail or road to different locations. This ensures minimal downtime and high vehicle availability. In addition to increased efficiency in the cost-intensive maintenance of rail vehicles, the MOBITURN also offers exceptional quality and flexibility. HEGENSCHIEDT's many years of experience as the market leader in wheelset maintenance and the proven design basis of a classic under-floor lathe machine pay off here. The patented MOBITURN® is now in its 3rd generation and has been extensively revised in both design and appearance. It combines state of the art technology with modern design.

➤ ADDED VALUE

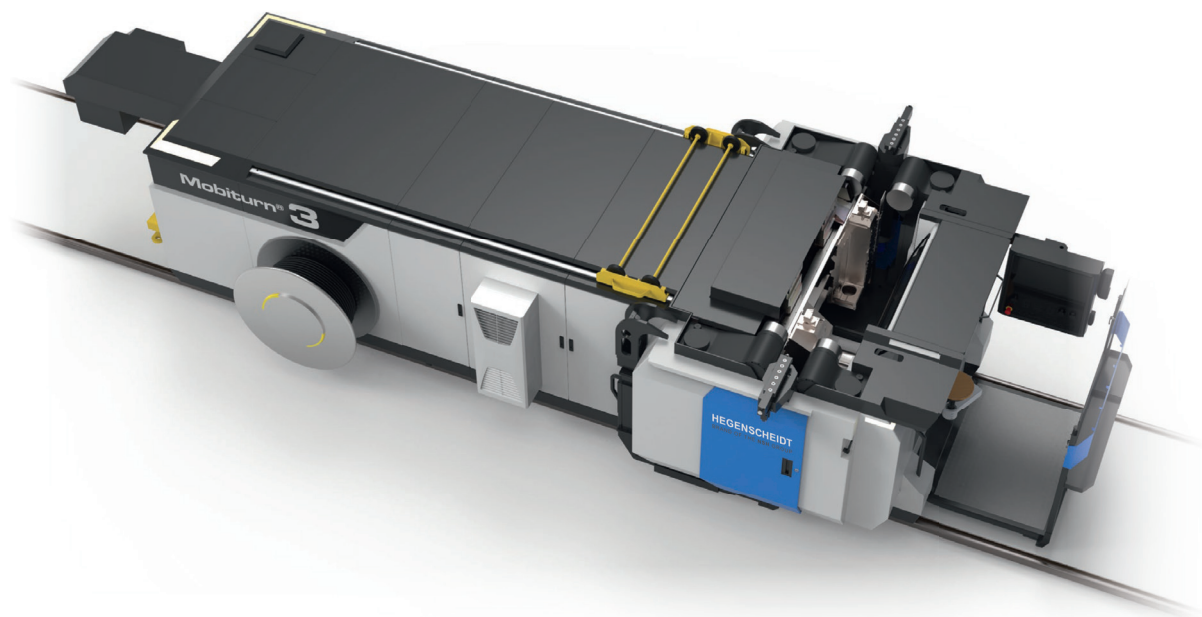
- Mobile wheelset maintenance that comes to the rail vehicle
- Maximizes maintenance cost-effectiveness by minimizing downtime and maximizing vehicle availability
- Available as a delivery product or as an operator model
- Processing of wheelsets from 375 mm diameter and up to center distances of 1.200 – 3.600 mm (with coupled wheelsets in a bogie)
- Modular design for customized configuration (e.g. individual configuration of chip crusher, -conveyor and -carriage, chassis, operator's platform, fume extraction, central lubrication)
- Optional measurement technology with suitability test (probe to achieve extended uncertainty of measurement K=2)
- Optional clamp manipulator for easy handling of clamps / hold-down devices
- Compact wheelbase for tight curve radii
- Improved fume extraction, accessibility, and ergonomics, especially at the operator's workstation
- Optimized heat management
- Maximum CNC performance and standardization of maintenance and engineering tasks using advanced software tools



TECHNICAL SPECIFICATION

MACHINE DATA		
Machine dimensions (L x W x H)	mm	8.832 x 2.620 x 1.632 (incl. chip container)
Machine weight	t	17
Power (per machine)	KVA	50
ACCURACIES		
Maximum diameter difference between both wheels of a wheel set*	mm	≤ 0.1
Maximum diameter difference between the wheels of a bogie*	mm	≤ 0.3
Maximum radial runout*	mm	≤ 0.1
Maximum chip cross-section per support	mm ²	6
WHEELSET DIMENSIONS		
Minimum running circle diameter	mm	375
Maximum running circle diameter	mm	1.450
Center distance for coupled wheelsets in a bogie	mm	1.200 – 3.600
SOFTWARE		
Control system	Siemens SINUMERIK ONE	
Application and operating software	– 1.500er TIA-PLC (Totally Integrated Automation-PLC) – HMFD’s own application and operating software AIC-HMI (Artificial Intelligence Control- Human Machine Interface)	

* for solid wheels



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